



MIHA Data Snapshots of Prenatal WIC Participants

Indicators of Maternal and Infant Health from the Maternal and Infant Health Assessment (MIHA) Survey, 2013-2014



April 2017

Acknowledgements

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Editors

Amina Foda, MPH, Dawnté R. Early, PhD, MS, Carina Saraiva, MPH, Chuncui Fan, PhD, MS, Christine Rinki, MPH, and Michael P. Curtis, PhD; California Department of Public Health, Center for Family Health, MCAH Division

Patricia Gradziel, PhD, RD; California Department of Public Health, Center for Family Health, Women, Infants and Children (WIC) Division

MIHA is a collaborative effort of the MCAH Division and the Women, Infants and Children (WIC) Division of the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco (UCSF). Paula Braveman, MD, MPH, is the Principal Investigator of the MIHA survey and Kristen Marchi, MPH, is the MIHA Project Director.

We offer our sincerest thanks to the women who participated in MIHA in order to help improve the health of mothers and infants in California.

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Maternal Age	Income
Education	Neighborhood Poverty
Total Live Births	Geographical Area (Urban and Rural/Frontier)

County Data Snapshots of Prenatal WIC Participants

Alameda	Los Angeles	Sacramento	Santa Cruz
Butte	Madera	San Bernardino	Shasta
Contra Costa	Marin	San Diego	Solano
El Dorado	Merced	San Francisco	Sonoma
Fresno	Monterey	San Joaquin	Stanislaus
Humboldt	Napa	San Luis Obispo	Tulare
Imperial	Orange	San Mateo	Ventura
Kern	Placer	Santa Barbara	Yolo
Kings	Riverside	Santa Clara	

Regional Data Snapshots of Prenatal WIC Participants

Central Coast Region	San Francisco Bay Area
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North/Mountain Region	Southeastern California

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Introduction

Each year nearly 500,000 women give birth in California. Although most pregnancies are healthy, many women and infants face challenges in reaching optimal health. To address these challenges, the California Department of Public Health (CDPH) works with statewide and local partners to develop systems that protect and improve the health of California's reproductive-aged and pregnant women, infants, children, adolescents, and their families. One such effort is the Maternal and Infant Health Assessment (MIHA) survey. MIHA is a population-based survey of women with a recent live birth that has been conducted annually since 1999. The survey provides information about maternal experiences and behaviors before, during and shortly after pregnancy.

Using MIHA 2013-2014, this report presents key indicators of maternal and infant health for women who participate in the California Women, Infants and Children (WIC) Program during pregnancy. Statewide results are shown by WIC status during pregnancy and for subgroups of women participating in WIC during pregnancy. These subgroups are based on race/ethnicity, maternal age, education, total live births, prenatal health insurance, income, neighborhood poverty, and geographical area. Local data are available for the 35 counties with the largest numbers of births, which represent 98% of the state's births, and the 9 MIHA regions of California. Three of the MIHA regions are also counties (Los Angeles, Orange, and San Diego) and their data are only shown in the county section of the report. This information can be used by state and local WIC agencies to help identify opportunities to improve the health and well-being of women and infants enrolled in the WIC program.

Methods

MIHA is a stratified random sample of English- or Spanish-speaking women 15 years or older who had a live birth and who resided in California at the time of birth. MIHA data are weighted to represent all women with a live birth in California, excluding women who were non-residents, were younger than 15 years old at delivery, had a multiple birth greater than triplets, or had a missing address on the birth certificate. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963 and an overall response rate of approximately 70%.

MIHA data are collected by mail with telephone follow-up to non-respondents. During MIHA 2013-2014 all women were asked if they were on WIC at any time during their most recent pregnancy. More than half, or 7,571 of MIHA respondents, were prenatal WIC participants.

Data for this report were analyzed to account for MIHA's complex survey design using SAS software. The percentage and estimated number of women in the population with a given health indicator or characteristic are best estimates of the actual prevalence in the population. The 95% confidence interval (95% CI) means that there is a 95% chance that the range contains the actual prevalence in the population. The relative standard error (RSE) is used to measure the statistical reliability of survey estimates. When noted with a (*), estimates should be interpreted with caution due to low statistical reliability.

Definitions for each indicator, a description of the annotation and suppression criteria, and the revised weighting methodology used in 2013-2014 are in the Technical Notes.

Guide to Using MIHA Data Snapshots

Definition of WIC Status

Prenatal WIC participants were women who self-reported on MIHA that they were on WIC at any time during their most recent pregnancy.

Those not on WIC during pregnancy were categorized as **WIC eligible nonparticipants** if they had Medi-Cal for prenatal care or delivery on the birth certificate or if they had self-reported income at or below 185% of the Federal Poverty Guidelines (FPG). Respondents were categorized as **ineligible for WIC** if they had another source or no insurance for prenatal care or delivery, and self-reported income above 185% FPG.

Geographic Differences

Statistical differences between prenatal WIC participants in each local area (i.e. county or region) and prenatal WIC participants in the rest of California were assessed using the chi-square test. To help stakeholders identify health issues specific to their local area, a symbol indicating whether the local area is **better** (✓), **worse** (*), or **not statistically different** (♦) from the prenatal WIC participants in the rest of California is shown next to each indicator. Demographics, health insurance coverage, health care utilization and public program participation are described as higher (↑), lower (↓), or not statistically different (♦) from the prenatal WIC participants in the rest of California.

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MIHA County Level Data Availability, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey



MIHA Data Availability

- County Data
- Regional Data Only
- MIHA Regions

Top 35 Birthing Counties

% of California resident women with a live birth in 2013-2014

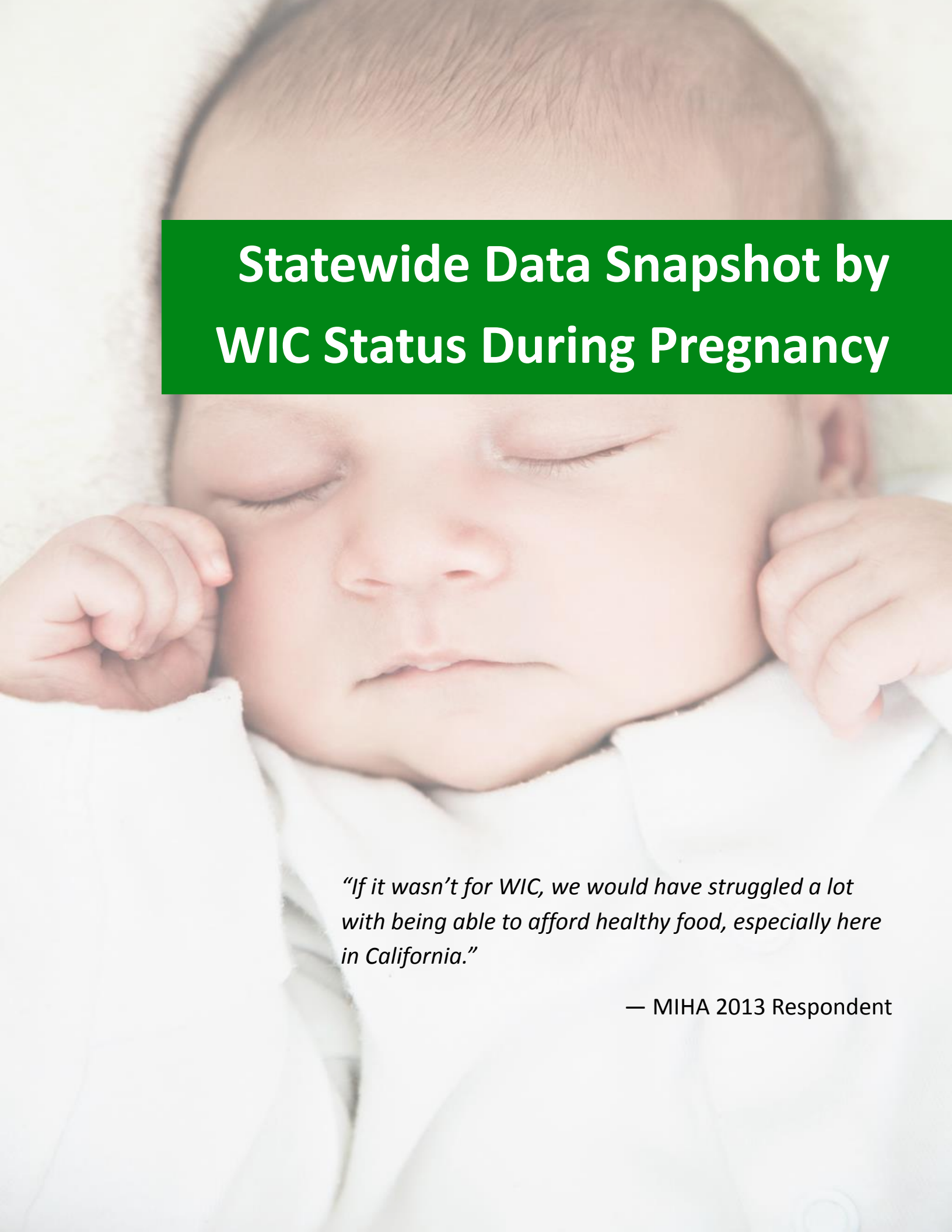
Los Angeles	26.0%	Santa Barbara	1.2%
San Diego	8.8%	Solano	1.1%
Orange	7.6%	Sonoma	1.0%
San Bernardino	6.2%	Merced	0.8%
Riverside	6.0%	Placer	0.7%
Santa Clara	4.7%	Imperial	0.6%
Sacramento	3.9%	Santa Cruz	0.6%
Alameda	3.9%	San Luis Obispo	0.5%
Fresno	3.2%	Butte	0.5%
Kern	2.9%	Yolo	0.5%
Contra Costa	2.5%	Kings	0.5%
Ventura	2.1%	Marin	0.5%
San Joaquin	2.0%	Madera	0.5%
San Francisco	1.8%	Shasta	0.4%
San Mateo	1.8%	El Dorado	0.3%
Tulare	1.5%	Humboldt	0.3%
Stanislaus	1.5%	Napa	0.3%
Monterey	1.3%		

Data Source: 2013-2014 Birth Statistical Master File
 Prepared by: Maternal, Child and Adolescent Health Program,
 Center for Family Health, California Department of Public Health

MIHA Regions of California, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey





Statewide Data Snapshot by WIC Status During Pregnancy

“If it wasn’t for WIC, we would have struggled a lot with being able to afford healthy food, especially here in California.”

— MIHA 2013 Respondent

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MIHA Data Snapshot, California by WIC Status during Pregnancy, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	California				Prenatal WIC Participants				Eligible Nonparticipants				Ineligible for WIC			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Total				490,200	54.1	52.9	55.4	259,300	11.4	10.4	12.4	54,500	34.5	33.3	35.7	165,100
Health Status before Pregnancy																
In good to excellent health	92.4	91.5	93.3	452,800	88.7	87.2	90.2	229,700	91.5	88.2	94.7	49,800	98.5	97.8	99.2	162,600
Chronic conditions																
Diabetes†	2.3	1.8	2.8	10,900	3.2	2.4	4.0	8,100	2.2*	0.3	4.1	1,200	0.9	0.4	1.4	1,500
Hypertension†	2.5	2.0	2.9	11,900	2.5	2.0	3.1	6,400	2.6	1.3	3.9	1,400	2.1	1.4	2.8	3,500
Asthma†	7.8	7.0	8.6	37,500	8.4	7.2	9.5	21,100	9.2	6.7	11.6	4,900	6.7	5.3	8.1	10,900
Nutrition and Weight																
Daily folic acid use, month before pregnancy	32.7	31.1	34.3	159,900	22.9	21.0	24.8	59,100	27.1	22.5	31.7	14,800	48.7	45.7	51.8	80,400
Overweight before pregnancy	24.7	23.2	26.2	114,900	28.5	26.2	30.7	68,100	23.1	19.1	27.1	12,200	20.5	18.0	22.9	33,400
Obese before pregnancy	20.3	18.9	21.7	94,400	25.6	23.5	27.7	61,200	21.8	17.4	26.2	11,500	12.4	10.5	14.4	20,300
Inadequate weight gain during pregnancy	17.7	16.2	19.2	72,900	20.8	18.5	23.1	43,400	19.2	14.9	23.6	8,400	12.9	10.8	14.9	19,200
Excessive weight gain during pregnancy	41.4	39.5	43.2	170,100	39.0	36.5	41.5	81,300	47.0	41.6	52.4	20,600	42.7	39.5	45.9	63,700
Food insecurity during pregnancy	16.6	15.4	17.9	80,500	25.5	23.5	27.6	65,600	21.3	17.2	25.4	11,500	1.9	1.0	2.9	3,200
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical or psychological IPV during pregnancy	7.1	6.2	7.9	34,500	10.0	8.6	11.4	25,900	8.9	6.2	11.5	4,800	2.2	1.2	3.2	3,600
Prenatal depressive symptoms	14.1	12.9	15.3	68,900	18.6	16.7	20.4	48,000	17.1	13.7	20.6	9,300	6.5	5.0	8.1	10,800
Postpartum depressive symptoms	13.0	11.8	14.1	63,200	15.8	14.1	17.5	40,800	13.6	10.8	16.5	7,400	8.5	6.9	10.1	14,000
Hardships and Support during Pregnancy																
Experienced two or more hardships during childhood	25.3	23.8	26.7	121,600	30.8	28.7	33.0	78,300	32.3	27.6	37.0	16,900	15.6	13.4	17.7	25,500
Homeless or did not have a regular place to sleep	2.9	2.4	3.4	14,000	3.8	3.1	4.5	9,800	5.9	3.1	8.7	3,200	0.5*	0.1	0.9	800
Moved due to problems paying rent or mortgage	6.9	6.0	7.7	33,600	9.8	8.4	11.2	25,300	9.4	6.5	12.3	5,100	1.7	0.8	2.5	2,700
Woman or partner lost job	14.6	13.4	15.8	71,000	20.8	18.9	22.7	53,200	14.9	11.4	18.3	8,000	5.0	3.7	6.2	8,200
Woman or partner had pay or hours cut back	11.8	10.7	12.8	57,100	14.7	13.1	16.2	37,600	12.5	9.6	15.4	6,700	7.1	5.4	8.7	11,700
Became separated or divorced	7.6	6.7	8.5	37,000	11.2	9.7	12.7	28,800	11.0	7.5	14.6	5,900	1.1	0.5	1.7	1,800
Had no practical or emotional support	4.4	3.7	5.2	21,700	6.3	5.1	7.6	16,400	5.1	3.1	7.1	2,800	1.4	0.6	2.1	2,200
Substance Use																
Any smoking, 3 months before pregnancy	11.6	10.5	12.7	56,500	13.0	11.5	14.5	33,600	20.6	16.1	25.2	11,200	6.4	5.0	7.9	10,600
Any smoking, 3rd trimester†	2.9	2.3	3.4	13,900	3.9	3.0	4.7	10,100	5.9	3.1	8.7	3,200	0.4	0.2	0.6	700
Any smoking, postpartum	5.6	4.8	6.3	27,300	6.8	5.8	7.8	17,500	12.2	8.4	16.0	6,600	1.9	1.1	2.7	3,100
Any binge drinking, 3 months before pregnancy	15.1	13.8	16.3	72,900	14.1	12.5	15.7	36,100	16.6	12.8	20.4	8,900	16.5	14.3	18.7	27,000
Any alcohol use, 3rd trimester†	7.6	6.6	8.6	37,000	4.1	3.0	5.2	10,600	6.6	4.0	9.2	3,600	13.2	11.2	15.3	21,700
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	31.2	29.6	32.8	151,800	41.0	38.7	43.4	105,800	37.3	32.4	42.2	20,100	14.6	12.5	16.8	24,100
Unsure of pregnancy intentions	12.9	11.8	14.0	62,700	15.8	14.1	17.4	40,700	15.6	12.2	19.1	8,400	7.5	5.8	9.2	12,300
Postpartum birth control use†	81.6	80.3	83.0	390,200	84.2	82.6	85.8	211,900	76.3	71.5	81.0	41,000	79.5	76.9	82.0	129,000
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	79.7	78.3	81.1	383,200	76.5	74.5	78.5	194,800	79.0	74.6	83.3	42,200	84.7	82.3	87.0	137,800
Infant always or often shared bed	34.1	32.5	35.7	163,700	38.4	36.2	40.6	97,700	34.5	29.7	39.2	18,500	28.0	25.2	30.8	45,500
Intended to breastfeed, before birth	92.4	91.5	93.4	444,100	91.5	90.3	92.6	232,400	89.4	86.0	92.9	47,800	95.5	94.2	96.9	155,500
Intended to breastfeed exclusively, before birth	64.2	62.6	65.9	308,500	56.5	54.2	58.9	143,700	65.4	60.4	70.4	35,000	75.7	72.9	78.5	123,200
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	83.5	82.3	84.8	398,500	78.6	76.7	80.5	198,500	83.5	79.9	87.0	44,000	91.4	89.7	93.2	148,000
Exclusive breastfeeding, 1 month after delivery	42.7	41.0	44.4	200,700	37.8	35.5	40.0	93,600	43.1	38.2	48.0	22,500	50.3	47.2	53.4	80,400
Any breastfeeding, 3 months after delivery	66.2	64.3	68.2	244,200	58.0	55.3	60.7	116,900	62.3	56.4	68.1	25,800	82.0	79.2	84.8	96,100
Exclusive breastfeeding, 3 months after delivery	27.4	25.7	29.1	99,800	20.1	18.0	22.1	40,000	27.2	22.4	32.1	11,200	40.0	36.5	43.6	46,400



MIHA Data Snapshot, California by WIC Status during Pregnancy, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	California				Prenatal WIC Participants				Eligible Nonparticipants				Ineligible for WIC			
	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI		N
Service Utilization and Health Insurance Coverage																
Had a usual source of pre-pregnancy care	70.4	68.8 - 71.9		344,100	62.1	59.9 - 64.4		160,700	64.1	59.3 - 69.0		34,900	84.7	82.5 - 87.0		139,400
Initiated prenatal care in 1st trimester	89.7	88.7 - 90.6		433,500	85.6	84.1 - 87.2		218,500	83.9	80.6 - 87.2		45,200	97.7	96.9 - 98.6		159,800
Had a postpartum medical visit	87.5	86.4 - 88.7		427,500	82.9	81.1 - 84.7		214,100	83.3	79.6 - 87.1		45,300	96.4	95.1 - 97.6		158,700
Mom or infant needed but couldn't afford care postpartum	12.6	11.4 - 13.7		59,700	17.8	15.9 - 19.7		44,900	18.3	14.7 - 21.9		9,600	3.0	2.1 - 3.9		4,800
Received CalFresh (food stamps) during pregnancy	24.9	23.6 - 26.3		121,000	42.0	39.7 - 44.3		108,300	21.9	17.9 - 26.0		11,800	0.2*	0.0 - 0.3		300
Pre-pregnancy insurance																
Medi-Cal	24.5	23.1 - 25.8		119,600	40.3	38.0 - 42.5		104,200	22.5	18.7 - 26.4		12,200	0.4*	0.0 - 0.8		700
Uninsured	24.0	22.6 - 25.4		117,500	37.2	34.9 - 39.5		96,200	30.3	25.7 - 35.0		16,500	2.4	1.5 - 3.4		4,000
Private	47.5	46.2 - 48.9		232,500	18.5	16.7 - 20.3		47,800	41.2	36.4 - 46.1		22,400	93.7	92.3 - 95.2		154,700
Prenatal insurance																
Medi-Cal	49.7	48.4 - 51.0		242,800	81.7	79.9 - 83.5		211,300	49.6	44.8 - 54.4		27,000	1.0	0.5 - 1.5		1,700
Uninsured	1.6	1.2 - 2.0		7,900	1.6	1.0 - 2.2		4,100	4.7	2.6 - 6.7		2,500	0.7*	0.2 - 1.1		1,100
Private	44.5	43.1 - 45.8		217,100	13.1	11.5 - 14.8		34,000	38.6	33.8 - 43.4		21,000	94.0	92.7 - 95.4		155,000
Maternal postpartum insurance																
Medi-Cal	36.2	34.7 - 37.6		175,700	59.9	57.6 - 62.2		153,800	35.4	30.9 - 39.9		19,100	0.5*	0.1 - 0.8		800
Uninsured	15.0	13.8 - 16.2		72,800	22.5	20.5 - 24.5		57,700	20.7	16.6 - 24.8		11,100	2.0	1.1 - 2.9		3,300
Private	45.7	44.3 - 47.0		221,900	14.8	13.2 - 16.5		38,000	39.4	34.5 - 44.3		21,200	94.1	92.8 - 95.5		155,300
Infant health insurance																
Medi-Cal	52.2	50.9 - 53.6		250,400	84.6	82.9 - 86.3		214,500	56.7	51.8 - 61.7		30,100	2.2	1.4 - 2.9		3,500
Uninsured	2.9	2.2 - 3.5		13,700	3.0	2.2 - 3.9		7,700	7.1	4.3 - 10.0		3,800	1.2	0.6 - 1.9		2,000
Private	41.3	40.0 - 42.6		198,000	9.0	7.6 - 10.3		22,700	32.2	27.4 - 36.9		17,000	92.8	91.3 - 94.3		151,400
Maternal Demographics																
Age																
15-19	5.6	4.9 - 6.4		27,500	9.8	8.4 - 11.2		25,400	3.4	2.2 - 4.7		1,900	0.0*	0.0 - 0.1		100
20-34	74.5	73.0 - 76.0		365,300	77.9	76.1 - 79.8		202,100	79.8	75.9 - 83.6		43,500	68.2	65.2 - 71.1		112,500
35+	19.9	18.5 - 21.3		97,400	12.3	10.8 - 13.7		31,900	16.8	13.1 - 20.6		9,200	31.8	28.9 - 34.7		52,500
Did not complete high school (or GED)	16.5	15.2 - 17.7		79,900	28.0	25.9 - 30.2		71,900	12.2	8.8 - 15.6		6,600	0.4	0.2 - 0.6		600
Unmarried	40.9	39.4 - 42.4		199,000	61.5	59.2 - 63.8		158,600	45.2	40.2 - 50.2		24,600	8.2	6.7 - 9.8		13,600
Race/Ethnicity																
Hispanic	49.2	47.7 - 50.7		236,500	70.8	68.9 - 72.6		181,600	44.4	39.3 - 49.5		23,500	17.1	14.9 - 19.4		27,400
Black	5.7	5.3 - 6.1		27,400	7.7	7.1 - 8.3		19,700	6.5	4.7 - 8.3		3,400	2.5	1.9 - 3.2		4,100
White	29.3	27.9 - 30.7		140,900	13.6	12.2 - 15.0		35,000	35.5	30.8 - 40.2		18,800	51.8	48.8 - 54.9		82,900
Asian/Pacific Islander	15.3	13.9 - 16.7		73,700	7.3	6.0 - 8.7		18,800	13.0	9.4 - 16.6		6,900	28.2	25.1 - 31.4		45,200
Born outside the U.S.	37.9	36.2 - 39.6		185,700	42.8	40.5 - 45.1		111,000	27.9	23.3 - 32.5		15,200	32.0	28.9 - 35.0		52,700
Speaks non-English language at home	30.1	28.5 - 31.7		144,800	38.0	35.8 - 40.3		97,500	23.6	19.2 - 28.0		12,700	18.7	16.0 - 21.4		30,300
Lives in a high poverty neighborhood	38.9	37.3 - 40.5		182,900	56.4	54.1 - 58.7		139,200	33.1	28.4 - 37.7		17,100	14.7	12.4 - 17.1		23,800
Income as a percent of the Federal Poverty Guideline																
0-100%	41.0	39.5 - 42.4		188,800	69.6	67.5 - 71.8		168,400	37.3	32.5 - 42.1		19,600	--			
101-200%	20.8	19.4 - 22.2		96,000	26.3	24.2 - 28.3		63,500	55.4	50.5 - 60.4		29,200	1.6	1.0 - 2.2		2,600
> 200%	38.2	36.9 - 39.6		176,200	4.1	3.2 - 4.9		9,900	7.3	5.0 - 9.5		3,800	98.4	97.8 - 99.0		162,400

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. Those not on WIC during pregnancy were categorized as WIC eligible nonparticipants if they had Medi-Cal for prenatal care or delivery on the birth certificate or if they had self-reported income at or below 185% of the Federal Poverty Guidelines (FPG). Respondents were categorized as ineligible for WIC if they had another source or no insurance for prenatal care or delivery, and self-reported income above 185% FPG. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots, 2013-2014. California Department of Public Health. 2017.

A close-up photograph of a baby's feet, showing the toes and the texture of the skin. The feet are resting on a soft, white, textured surface, likely a blanket or towel. The lighting is soft and natural, highlighting the delicate features of the baby's feet.

Statewide Data Snapshots of Prenatal WIC Participants

“Continue to offer WIC- I loved the atmosphere, advice, and generosity of the people running the program. I am also incredibly grateful for pregnancy and child Medi-Cal. It definitely alleviated financial stress and allowed me to have a much more peaceful pregnancy and birth experience.”

— MIHA 2013 Respondent

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MIHA Data Snapshot, Prenatal WIC Participants by Maternal Age, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants											
	California				15-19 Years			20-34 Years			35 Years or Older					
	%	95% CI	N		%	95% CI	N	%	95% CI	N	%	95% CI	N			
Total			259,300		9.8	8.4 - 11.2	25,400	77.9	76.1 - 79.8	202,100	12.3	10.8 - 13.7	31,900			
Health Status before Pregnancy																
In good to excellent health	88.7	87.2 - 90.2	229,700		86.3	80.4 - 92.2	21,900	89.3	87.7 - 90.9	180,200	87.0	83.4 - 90.6	27,600			
Chronic conditions																
Diabetes†	3.2	2.4 - 4.0	8,100		--			2.6	1.8 - 3.3	5,100	7.0	3.4 - 10.6	2,200			
Hypertension†	2.5	2.0 - 3.1	6,400		--			2.3	1.7 - 2.9	4,600	5.2	3.0 - 7.5	1,600			
Asthma†	8.4	7.2 - 9.5	21,100		11.7	7.7 - 15.6	2,900	8.4	7.1 - 9.8	16,700	5.2	2.6 - 7.7	1,600			
Nutrition and Weight																
Daily folic acid use, month before pregnancy	22.9	21.0 - 24.8	59,100		14.9	10.9 - 18.9	3,800	22.7	20.6 - 24.9	45,800	30.0	24.2 - 35.7	9,500			
Overweight before pregnancy	28.5	26.2 - 30.7	68,100		22.7	16.2 - 29.2	5,600	29.3	26.7 - 31.8	54,400	28.2	22.5 - 33.9	8,100			
Obese before pregnancy	25.6	23.5 - 27.7	61,200		11.9	6.9 - 16.9	2,900	25.8	23.4 - 28.2	48,000	36.1	29.7 - 42.4	10,300			
Inadequate weight gain during pregnancy	20.8	18.5 - 23.1	43,400		16.7	10.9 - 22.5	3,600	21.2	18.6 - 23.9	34,800	21.5	14.9 - 28.1	4,900			
Excessive weight gain during pregnancy	39.0	36.5 - 41.5	81,300		55.5	47.5 - 63.6	12,100	36.9	34.1 - 39.6	60,400	38.5	31.4 - 45.7	8,800			
Food insecurity during pregnancy	25.5	23.5 - 27.6	65,600		21.5	15.7 - 27.3	5,400	26.1	23.7 - 28.5	52,300	25.4	20.2 - 30.6	8,000			
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical or psychological IPV during pregnancy	10.0	8.6 - 11.4	25,900		17.7	12.9 - 22.5	4,500	9.3	7.8 - 10.9	18,800	8.1	4.6 - 11.6	2,600			
Prenatal depressive symptoms	18.6	16.7 - 20.4	48,000		15.6	10.9 - 20.3	3,900	18.3	16.2 - 20.4	36,800	22.8	17.3 - 28.4	7,200			
Postpartum depressive symptoms	15.8	14.1 - 17.5	40,800		13.8	8.4 - 19.3	3,500	15.9	14.0 - 17.9	32,100	16.5	11.8 - 21.1	5,200			
Hardships and Support during Pregnancy																
Experienced two or more hardships during childhood	30.8	28.7 - 33.0	78,300		33.3	26.4 - 40.2	8,300	30.8	28.3 - 33.2	60,900	29.3	23.8 - 34.9	9,100			
Homeless or did not have a regular place to sleep	3.8	3.1 - 4.5	9,800		5.8	3.3 - 8.2	1,400	3.5	2.8 - 4.3	7,100	4.1	1.9 - 6.2	1,300			
Moved due to problems paying rent or mortgage	9.8	8.4 - 11.2	25,300		8.9	4.3 - 13.5	2,200	10.2	8.6 - 11.8	20,500	8.0	5.0 - 11.0	2,500			
Woman or partner lost job	20.8	18.9 - 22.7	53,200		19.9	13.3 - 26.5	4,800	20.6	18.4 - 22.7	41,300	23.0	17.7 - 28.2	7,100			
Woman or partner had pay or hours cut back	14.7	13.1 - 16.2	37,600		9.6	4.8 - 14.5	2,300	15.1	13.3 - 16.9	30,300	16.0	11.6 - 20.3	5,000			
Became separated or divorced	11.2	9.7 - 12.7	28,800		19.5	13.5 - 25.5	4,900	10.1	8.4 - 11.7	20,200	11.8	8.2 - 15.4	3,700			
Had no practical or emotional support	6.3	5.1 - 7.6	16,400		3.0*	1.0 - 5.0	800	6.1	4.7 - 7.5	12,300	10.6	6.0 - 15.1	3,300			
Substance Use																
Any smoking, 3 months before pregnancy	13.0	11.5 - 14.5	33,600		10.9	6.6 - 15.2	2,800	14.0	12.2 - 15.7	28,000	9.0	5.9 - 12.0	2,800			
Any smoking, 3rd trimester†	3.9	3.0 - 4.7	10,100		2.1*	0.7 - 3.6	500	4.4	3.3 - 5.4	8,800	2.4	1.0 - 3.7	700			
Any smoking, postpartum	6.8	5.8 - 7.8	17,500		7.1	3.5 - 10.8	1,800	7.1	5.9 - 8.4	14,400	4.2	2.6 - 5.9	1,300			
Any binge drinking, 3 months before pregnancy	14.1	12.5 - 15.7	36,100		9.5	5.4 - 13.6	2,400	15.8	13.8 - 17.7	31,400	7.4	4.2 - 10.6	2,300			
Any alcohol use, 3rd trimester†	4.1	3.0 - 5.2	10,600		0.3*	0.1 - 0.5	100	4.4	3.1 - 5.7	8,900	5.3*	1.6 - 8.9	1,700			
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	41.0	38.7 - 43.4	105,800		60.8	53.8 - 67.9	15,400	39.8	37.1 - 42.4	79,900	33.3	27.1 - 39.5	10,500			
Unsure of pregnancy intentions	15.8	14.1 - 17.4	40,700		18.5	12.9 - 24.2	4,700	15.2	13.3 - 17.0	30,500	17.5	12.6 - 22.4	5,500			
Postpartum birth control use†	84.2	82.6 - 85.8	211,900		83.0	77.6 - 88.3	20,400	84.3	82.4 - 86.1	164,700	84.8	80.9 - 88.8	26,800			
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	76.5	74.5 - 78.5	194,800		75.2	69.1 - 81.2	19,000	75.8	73.5 - 78.2	150,700	81.6	77.5 - 85.8	25,200			
Infant always or often shared bed	38.4	36.2 - 40.6	97,700		35.1	28.6 - 41.6	8,900	38.6	36.0 - 41.1	76,500	40.0	34.0 - 46.1	12,300			
Intended to breastfeed, before birth	91.5	90.3 - 92.6	232,400		88.6	83.6 - 93.6	22,400	91.8	90.6 - 93.1	181,700	91.7	88.7 - 94.7	28,300			
Intended to breastfeed exclusively, before birth	56.5	54.2 - 58.9	143,700		55.7	48.4 - 63.0	14,100	57.2	54.5 - 59.8	113,100	53.3	47.1 - 59.5	16,400			
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	78.6	76.7 - 80.5	198,500		68.3	61.4 - 75.2	17,100	79.5	77.3 - 81.7	156,700	81.0	75.9 - 86.0	24,700			
Exclusive breastfeeding, 1 month after delivery	37.8	35.5 - 40.0	93,600		41.5	34.0 - 49.0	10,300	38.6	36.0 - 41.1	74,500	29.6	23.9 - 35.4	8,800			
Any breastfeeding, 3 months after delivery	58.0	55.3 - 60.7	116,900		38.4	30.0 - 46.8	7,700	59.0	55.9 - 62.0	93,300	68.0	61.0 - 74.9	15,900			
Exclusive breastfeeding, 3 months after delivery	20.1	18.0 - 22.1	40,000		16.4	9.7 - 23.0	3,300	21.0	18.6 - 23.3	32,800	17.2	12.3 - 22.2	3,900			



MIHA Data Snapshot, Prenatal WIC Participants by Maternal Age, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants											
	California				15-19 Years			20-34 Years			35 Years or Older					
	%	95% CI		N	%	95% CI	N	%	95% CI	N	%	95% CI	N			
Service Utilization and Health Insurance Coverage																
Had a usual source of pre-pregnancy care	62.1	59.9 - 64.4		160,700	65.4	58.3 - 72.5	16,600	60.6	57.9 - 63.2	122,100	69.4	63.7 - 75.1	22,000			
Initiated prenatal care in 1st trimester	85.6	84.1 - 87.2		218,500	77.4	71.7 - 83.0	19,200	86.1	84.3 - 87.8	171,400	89.4	86.2 - 92.5	28,000			
Had a postpartum medical visit	82.9	81.1 - 84.7		214,100	76.7	70.1 - 83.3	19,300	83.4	81.3 - 85.4	167,900	84.6	80.0 - 89.3	26,900			
Mom or infant needed but couldn't afford care postpartum	17.8	15.9 - 19.7		44,900	11.0	7.4 - 14.5	2,800	18.2	16.0 - 20.4	36,000	20.5	15.3 - 25.6	6,200			
Received CalFresh (food stamps) during pregnancy	42.0	39.7 - 44.3		108,300	41.3	34.0 - 48.7	10,400	42.9	40.3 - 45.5	86,300	36.7	31.0 - 42.4	11,700			
Pre-pregnancy insurance																
Medi-Cal	40.3	38.0 - 42.5		104,200	57.5	50.2 - 64.8	14,600	39.2	36.6 - 41.8	79,000	33.5	27.9 - 39.2	10,700			
Uninsured	37.2	34.9 - 39.5		96,200	21.1	15.1 - 27.2	5,400	38.7	36.0 - 41.3	77,900	40.5	34.4 - 46.7	12,900			
Private	18.5	16.7 - 20.3		47,800	18.5	12.4 - 24.6	4,700	18.1	16.1 - 20.1	36,500	20.7	15.6 - 25.8	6,600			
Prenatal insurance																
Medi-Cal	81.7	79.9 - 83.5		211,300	85.3	79.6 - 91.1	21,600	81.7	79.6 - 83.7	164,600	79.2	74.3 - 84.1	25,100			
Uninsured	1.6	1.0 - 2.2		4,100	--			1.6	0.8 - 2.3	3,200	1.7*	0.6 - 2.8	500			
Private	13.1	11.5 - 14.8		34,000	11.8	6.2 - 17.4	3,000	12.9	11.1 - 14.7	26,000	15.8	11.3 - 20.3	5,000			
Maternal postpartum insurance																
Medi-Cal	59.9	57.6 - 62.2		153,800	80.0	74.4 - 85.5	20,200	58.9	56.2 - 61.6	117,800	50.1	43.9 - 56.4	15,800			
Uninsured	22.5	20.5 - 24.5		57,700	9.1	5.9 - 12.3	2,300	23.0	20.6 - 25.4	46,000	30.2	24.5 - 36.0	9,500			
Private	14.8	13.2 - 16.5		38,000	9.4	4.6 - 14.2	2,400	15.1	13.2 - 17.0	30,200	17.5	12.8 - 22.3	5,500			
Infant health insurance																
Medi-Cal	84.6	82.9 - 86.3		214,500	90.4	85.8 - 95.1	22,800	84.3	82.4 - 86.3	166,800	81.5	76.9 - 86.1	25,000			
Uninsured	3.0	2.2 - 3.9		7,700	3.6*	1.2 - 5.9	900	3.1	2.0 - 4.1	6,100	2.4*	0.8 - 4.1	700			
Private	9.0	7.6 - 10.3		22,700	4.9*	0.9 - 9.0	1,200	8.8	7.3 - 10.3	17,400	13.2	9.1 - 17.3	4,000			
Maternal Demographics																
Did not complete high school (or GED)	28.0	25.9 - 30.2		71,900	40.1	32.6 - 47.5	10,000	25.9	23.4 - 28.3	51,600	32.4	26.6 - 38.1	10,200			
Unmarried	61.5	59.2 - 63.8		158,600	86.5	80.6 - 92.3	21,900	60.7	58.1 - 63.3	122,000	46.6	40.4 - 52.8	14,700			
Race/Ethnicity																
Hispanic	70.8	68.9 - 72.6		181,600	80.1	75.5 - 84.8	20,200	68.6	66.4 - 70.9	137,200	76.8	72.1 - 81.6	24,200			
Black	7.7	7.1 - 8.3		19,700	8.4	5.3 - 11.6	2,100	7.9	7.2 - 8.7	15,900	5.4	3.8 - 7.1	1,700			
White	13.6	12.2 - 15.0		35,000	9.8	6.5 - 13.1	2,500	14.9	13.2 - 16.6	29,800	8.5	5.9 - 11.1	2,700			
Asian/Pacific Islander	7.3	6.0 - 8.7		18,800	0.9*	0.2 - 1.7	200	7.9	6.3 - 9.5	15,800	9.0	5.1 - 12.9	2,800			
Born outside the U.S.	42.8	40.5 - 45.1		111,000	15.6	10.5 - 20.7	4,000	41.6	39.0 - 44.2	84,000	72.3	66.8 - 77.8	23,000			
Speaks non-English language at home	38.0	35.8 - 40.3		97,500	16.6	11.9 - 21.3	4,200	37.2	34.6 - 39.8	74,300	60.8	54.7 - 66.8	19,000			
Lives in a high poverty neighborhood	56.4	54.1 - 58.7		139,200	61.4	54.4 - 68.4	14,800	56.0	53.3 - 58.6	107,700	55.6	49.3 - 61.8	16,700			

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants by Race/Ethnicity, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants California				Prenatal WIC Participants											
				Hispanic			Black			White			Asian/Pacific Islander			
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	
Total			259,300	70.8	68.9 - 72.6	181,600	7.7	7.1 - 8.3	19,700	13.6	12.2 - 15.0	35,000	7.3	6.0 - 8.7	18,800	
Health Status before Pregnancy																
In good to excellent health	88.7	87.2 - 90.2	229,700	87.6	85.6 - 89.5	158,900	86.9	82.0 - 91.8	17,000	92.3	90.2 - 94.4	32,200	93.7	90.1 - 97.3	17,600	
Chronic conditions																
Diabetes†	3.2	2.4 - 4.0	8,100	3.0	2.1 - 3.9	5,400	2.7	1.3 - 4.0	500	1.0	0.5 - 1.6	400	7.9*	1.7 - 14.1	1,500	
Hypertension†	2.5	2.0 - 3.1	6,400	1.8	1.2 - 2.4	3,200	6.7	3.6 - 9.7	1,300	2.4	1.4 - 3.5	800	3.5*	0.5 - 6.5	600	
Asthma†	8.4	7.2 - 9.5	21,100	6.2	4.8 - 7.5	10,900	19.0	14.4 - 23.5	3,700	15.7	11.9 - 19.5	5,500	3.7*	0.8 - 6.6	700	
Nutrition and Weight																
Daily folic acid use, month before pregnancy	22.9	21.0 - 24.8	59,100	21.9	19.7 - 24.2	39,700	21.1	16.6 - 25.7	4,200	21.8	17.2 - 26.3	7,600	34.9	25.7 - 44.1	6,600	
Overweight before pregnancy	28.5	26.2 - 30.7	68,100	30.3	27.4 - 33.1	49,400	25.6	20.3 - 30.9	4,800	26.7	21.3 - 32.1	9,200	15.3	8.4 - 22.3	2,900	
Obese before pregnancy	25.6	23.5 - 27.7	61,200	28.0	25.2 - 30.8	45,700	27.8	22.0 - 33.6	5,200	22.2	18.2 - 26.1	7,600	10.5	6.0 - 15.0	2,000	
Inadequate weight gain during pregnancy	20.8	18.5 - 23.1	43,400	22.3	19.4 - 25.2	31,500	16.0	11.0 - 21.0	2,500	11.1	7.8 - 14.4	3,400	31.6	21.8 - 41.5	5,500	
Excessive weight gain during pregnancy	39.0	36.5 - 41.5	81,300	35.8	32.7 - 38.9	50,500	50.2	43.6 - 56.8	8,000	51.0	45.2 - 56.9	15,500	30.3	20.9 - 39.7	5,300	
Food insecurity during pregnancy	25.5	23.5 - 27.6	65,600	25.7	23.1 - 28.3	46,200	24.9	20.1 - 29.7	4,900	29.7	24.5 - 34.8	10,300	18.6	11.9 - 25.4	3,400	
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical or psychological IPV during pregnancy	10.0	8.6 - 11.4	25,900	10.4	8.6 - 12.1	18,800	11.3	8.2 - 14.4	2,200	9.1	6.7 - 11.5	3,200	5.2*	1.7 - 8.8	1,000	
Prenatal depressive symptoms	18.6	16.7 - 20.4	48,000	19.1	16.8 - 21.4	34,600	21.9	16.8 - 26.9	4,300	15.5	11.8 - 19.1	5,400	14.8	7.5 - 22.1	2,800	
Postpartum depressive symptoms	15.8	14.1 - 17.5	40,800	15.8	13.7 - 18.0	28,700	14.8	11.2 - 18.3	2,900	17.5	13.0 - 21.9	6,100	13.0	6.2 - 19.8	2,400	
Hardships and Support during Pregnancy																
Experienced two or more hardships during childhood	30.8	28.7 - 33.0	78,300	30.8	28.1 - 33.5	54,900	34.8	28.7 - 40.8	6,700	38.0	32.8 - 43.3	12,900	11.1	5.8 - 16.3	2,000	
Homeless or did not have a regular place to sleep	3.8	3.1 - 4.5	9,800	3.1	2.3 - 4.0	5,700	9.6	7.1 - 12.0	1,900	4.1	2.8 - 5.3	1,400	2.7*	0.3 - 5.0	500	
Moved due to problems paying rent or mortgage	9.8	8.4 - 11.2	25,300	9.3	7.5 - 11.1	16,800	15.6	11.3 - 19.9	3,100	11.0	8.4 - 13.7	3,800	4.9	2.5 - 7.2	900	
Woman or partner lost job	20.8	18.9 - 22.7	53,200	21.2	18.7 - 23.6	37,800	21.2	16.6 - 25.8	4,200	21.1	16.9 - 25.3	7,300	17.1	9.5 - 24.8	3,200	
Woman or partner had pay or hours cut back	14.7	13.1 - 16.2	37,600	14.8	12.7 - 16.8	26,400	17.4	13.4 - 21.4	3,400	16.5	12.9 - 20.1	5,700	7.3	3.3 - 11.4	1,400	
Became separated or divorced	11.2	9.7 - 12.7	28,800	11.8	9.9 - 13.8	21,300	16.8	12.5 - 21.2	3,300	9.1	6.2 - 11.9	3,200	2.5*	0.7 - 4.4	500	
Had no practical or emotional support	6.3	5.1 - 7.6	16,400	7.4	5.7 - 9.0	13,400	4.0	2.1 - 5.9	800	2.8	1.5 - 4.1	1,000	6.3*	1.2 - 11.3	1,200	
Substance Use																
Any smoking, 3 months before pregnancy	13.0	11.5 - 14.5	33,600	8.0	6.4 - 9.6	14,400	21.7	16.3 - 27.0	4,200	32.7	27.8 - 37.7	11,400	14.9	7.1 - 22.8	2,800	
Any smoking, 3rd trimester†	3.9	3.0 - 4.7	10,100	1.6	0.8 - 2.4	2,900	7.0	4.7 - 9.2	1,400	12.5	9.2 - 15.8	4,300	6.7*	1.0 - 12.5	1,300	
Any smoking, postpartum	6.8	5.8 - 7.8	17,500	3.3	2.3 - 4.3	5,900	14.1	10.2 - 18.0	2,700	20.7	16.5 - 24.8	7,200	6.4*	1.3 - 11.5	1,200	
Any binge drinking, 3 months before pregnancy	14.1	12.5 - 15.7	36,100	13.1	11.1 - 15.1	23,600	15.6	10.3 - 20.9	3,000	21.4	17.3 - 25.5	7,300	7.5*	2.9 - 12.1	1,400	
Any alcohol use, 3rd trimester†	4.1	3.0 - 5.2	10,600	3.4	2.1 - 4.7	6,100	4.3	2.1 - 6.6	800	6.1	2.9 - 9.4	2,100	7.6*	1.5 - 13.6	1,400	
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	41.0	38.7 - 43.4	105,800	41.5	38.6 - 44.4	75,000	44.7	38.7 - 50.6	8,800	42.5	36.9 - 48.1	14,700	30.1	21.4 - 38.8	5,600	
Unsure of pregnancy intentions	15.8	14.1 - 17.4	40,700	15.1	13.0 - 17.3	27,400	22.5	17.8 - 27.1	4,400	14.8	11.6 - 18.0	5,100	15.8	9.2 - 22.3	3,000	
Postpartum birth control use†	84.2	82.6 - 85.8	211,900	86.3	84.4 - 88.2	152,900	73.2	68.0 - 78.4	14,100	83.0	78.8 - 87.2	28,200	78.5	71.3 - 85.8	13,600	
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	76.5	74.5 - 78.5	194,800	78.5	76.1 - 81.0	140,100	64.5	59.0 - 70.1	12,300	71.2	65.5 - 76.9	24,500	78.7	71.3 - 86.2	14,700	
Infant always or often shared bed	38.4	36.2 - 40.6	97,700	36.9	34.2 - 39.6	65,800	54.6	48.4 - 60.8	10,500	29.9	25.1 - 34.7	10,300	49.5	39.9 - 59.0	9,100	
Intended to breastfeed, before birth	91.5	90.3 - 92.6	232,400	92.2	90.8 - 93.5	163,800	84.0	79.1 - 88.9	16,000	91.3	88.3 - 94.4	31,500	92.8	88.9 - 96.7	17,300	
Intended to breastfeed exclusively, before birth	56.5	54.2 - 58.9	143,700	54.3	51.4 - 57.2	96,500	54.2	47.9 - 60.5	10,400	75.1	70.2 - 80.0	25,900	40.4	31.3 - 49.5	7,500	
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	78.6	76.7 - 80.5	198,500	80.0	77.8 - 82.3	141,600	72.0	66.0 - 78.1	13,500	74.8	69.4 - 80.3	25,500	76.1	67.6 - 84.6	14,200	
Exclusive breastfeeding, 1 month after delivery	37.8	35.5 - 40.0	93,600	37.2	34.3 - 40.0	64,500	39.8	33.7 - 45.8	7,400	48.4	42.8 - 53.9	16,300	21.2	14.7 - 27.7	3,800	
Any breastfeeding, 3 months after delivery	58.0	55.3 - 60.7	116,900	58.6	55.3 - 61.9	84,100	45.3	38.5 - 52.1	6,600	59.7	53.0 - 66.4	15,500	58.6	47.7 - 69.5	8,300	
Exclusive breastfeeding, 3 months after delivery	20.1	18.0 - 22.1	40,000	18.5	15.9 - 21.0	26,100	20.6	15.2 - 25.9	3,000	32.1	26.4 - 37.8	8,200	12.3	6.7 - 17.9	1,700	



MIHA Data Snapshot, Prenatal WIC Participants by Race/Ethnicity, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants											
	California			Hispanic			Black			White			Asian/Pacific Islander			
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	
Service Utilization and Health Insurance Coverage																
Had a usual source of pre-pregnancy care	62.1	59.9 - 64.4	160,700	61.7	58.8 - 64.5	111,900	73.8	68.9 - 78.7	14,400	58.7	53.3 - 64.1	20,500	60.5	51.2 - 69.9	11,300	
Initiated prenatal care in 1st trimester	85.6	84.1 - 87.2	218,500	86.0	84.1 - 87.9	153,700	84.2	80.0 - 88.4	16,400	80.8	76.2 - 85.5	28,000	91.7	87.9 - 95.5	16,900	
Had a postpartum medical visit	82.9	81.1 - 84.7	214,100	82.5	80.3 - 84.8	149,600	80.8	76.0 - 85.7	15,900	84.5	80.6 - 88.5	29,300	84.5	77.1 - 91.8	15,900	
Mom or infant needed but couldn't afford care postpartum	17.8	15.9 - 19.7	44,900	18.1	15.8 - 20.5	32,200	11.1	8.2 - 14.0	2,100	18.0	13.6 - 22.4	6,100	21.1	13.0 - 29.2	3,900	
Received CalFresh (food stamps) during pregnancy	42.0	39.7 - 44.3	108,300	39.7	36.9 - 42.5	71,800	65.3	59.4 - 71.1	12,900	47.7	42.1 - 53.2	16,500	27.3	19.2 - 35.4	5,100	
Pre-pregnancy insurance																
Medi-Cal	40.3	38.0 - 42.5	104,200	39.8	37.0 - 42.6	72,100	55.9	49.8 - 62.0	10,900	35.9	30.6 - 41.1	12,500	37.2	28.2 - 46.3	7,000	
Uninsured	37.2	34.9 - 39.5	96,200	40.5	37.6 - 43.4	73,300	18.5	14.3 - 22.8	3,600	35.3	29.9 - 40.8	12,400	30.1	20.8 - 39.3	5,600	
Private	18.5	16.7 - 20.3	47,800	16.8	14.6 - 19.0	30,400	16.2	12.0 - 20.4	3,200	22.6	18.4 - 26.7	7,900	27.4	19.2 - 35.5	5,100	
Prenatal insurance																
Medi-Cal	81.7	79.9 - 83.5	211,300	84.5	82.3 - 86.7	153,100	80.3	75.1 - 85.5	15,800	75.2	70.6 - 79.8	26,200	70.1	61.4 - 78.7	13,200	
Uninsured	1.6	1.0 - 2.2	4,100	1.8	0.9 - 2.6	3,200	1.1*	0.0 - 2.1	200	1.3*	0.3 - 2.2	400	0.8*	0.1 - 1.5	100	
Private	13.1	11.5 - 14.8	34,000	11.8	9.9 - 13.8	21,400	11.5	7.9 - 15.0	2,300	15.0	11.4 - 18.6	5,200	22.6	14.8 - 30.5	4,300	
Maternal postpartum insurance																
Medi-Cal	59.9	57.6 - 62.2	153,800	57.2	54.3 - 60.1	102,700	77.4	72.0 - 82.7	15,200	65.3	60.2 - 70.3	22,700	55.6	46.0 - 65.1	10,400	
Uninsured	22.5	20.5 - 24.5	57,700	27.4	24.7 - 30.1	49,200	4.7	2.9 - 6.5	900	10.5	7.4 - 13.6	3,700	18.5	10.5 - 26.6	3,500	
Private	14.8	13.2 - 16.5	38,000	13.8	11.7 - 15.8	24,700	10.6	7.2 - 14.0	2,100	17.8	14.0 - 21.7	6,200	23.3	15.3 - 31.4	4,400	
Infant health insurance																
Medi-Cal	84.6	82.9 - 86.3	214,500	87.0	85.0 - 89.0	154,400	81.0	75.6 - 86.5	15,500	78.8	74.6 - 83.1	27,000	78.0	70.3 - 85.8	14,600	
Uninsured	3.0	2.2 - 3.9	7,700	3.5	2.3 - 4.7	6,200	1.3*	0.4 - 2.2	200	1.7*	0.6 - 2.8	600	--			
Private	9.0	7.6 - 10.3	22,700	7.6	6.0 - 9.1	13,400	9.5	6.0 - 12.9	1,800	12.2	8.8 - 15.5	4,200	15.0	8.1 - 21.9	2,800	
Maternal Demographics																
Age																
15-19	9.8	8.4 - 11.2	25,400	11.1	9.3 - 12.9	20,200	10.8	6.8 - 14.8	2,100	7.1	4.7 - 9.4	2,500	1.2*	0.2 - 2.3	200	
20-34	77.9	76.1 - 79.8	202,100	75.6	73.1 - 78.0	137,200	80.5	75.9 - 85.1	15,900	85.2	82.0 - 88.5	29,800	83.7	77.2 - 90.2	15,800	
35+	12.3	10.8 - 13.7	31,900	13.3	11.5 - 15.2	24,200	8.7	6.1 - 11.3	1,700	7.7	5.4 - 10.0	2,700	15.1	8.6 - 21.5	2,800	
Did not complete high school (or GED)	28.0	25.9 - 30.2	71,900	34.1	31.3 - 36.9	61,400	15.6	11.4 - 19.8	3,000	14.7	10.3 - 19.0	5,000	8.8	3.7 - 13.8	1,600	
Unmarried	61.5	59.2 - 63.8	158,600	62.3	59.5 - 65.1	112,700	77.0	71.6 - 82.4	15,100	59.7	54.4 - 65.1	20,700	39.6	30.2 - 48.9	7,400	
Born outside the U.S.	42.8	40.5 - 45.1	111,000	49.1	46.2 - 52.0	89,100	7.0	4.3 - 9.7	1,400	15.0	10.1 - 19.8	5,200	76.5	68.8 - 84.3	14,400	
Speaks non-English language at home	38.0	35.8 - 40.3	97,500	44.2	41.4 - 47.1	79,900	6.5	3.6 - 9.4	1,300	11.5	6.9 - 16.2	4,000	67.7	58.9 - 76.5	12,000	
Lives in a high poverty neighborhood	56.4	54.1 - 58.7	139,200	60.9	58.1 - 63.7	104,500	56.1	49.8 - 62.4	10,500	40.9	35.2 - 46.6	13,800	44.8	35.2 - 54.5	8,300	
Income as a percent of the Federal Poverty Guideline																
0-100%	69.6	67.5 - 71.8	168,400	72.7	70.1 - 75.4	122,300	70.9	65.4 - 76.4	13,300	62.6	57.3 - 67.9	20,900	53.3	43.6 - 63.0	9,400	
101-200%	26.3	24.2 - 28.3	63,500	24.3	21.7 - 26.8	40,800	24.0	18.8 - 29.2	4,500	30.9	25.8 - 35.9	10,300	39.9	30.2 - 49.5	7,000	
> 200%	4.1	3.2 - 4.9	9,900	3.0	2.0 - 4.0	5,100	5.2	2.6 - 7.7	1,000	6.6	4.2 - 8.9	2,200	6.9	3.5 - 10.3	1,200	

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants by Education, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants			Prenatal WIC Participants											
	California			<High School			High School Graduate or GED			Some College			College Graduate		
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N
Total			259,300	28.0	25.9 - 30.2	71,900	30.5	28.4 - 32.7	78,200	32.4	30.3 - 34.5	83,000	9.0	7.6 - 10.5	23,200
Health Status before Pregnancy															
In good to excellent health	88.7	87.2 - 90.2	229,700	85.5	82.5 - 88.5	61,400	87.4	84.2 - 90.5	68,200	90.8	88.6 - 93.1	75,300	96.3	94.6 - 98.0	22,300
Chronic conditions															
Diabetes†	3.2	2.4 - 4.0	8,100	4.4	2.5 - 6.3	3,200	2.8	1.3 - 4.3	2,200	2.4	1.5 - 3.3	2,000	--		
Hypertension†	2.5	2.0 - 3.1	6,400	2.3	1.2 - 3.4	1,600	3.1	1.9 - 4.3	2,400	2.3	1.6 - 3.0	1,900	--		
Asthma†	8.4	7.2 - 9.5	21,100	6.7	4.6 - 8.9	4,700	7.5	5.6 - 9.4	5,700	10.6	8.3 - 13.0	8,700	7.3	3.6 - 11.0	1,600
Nutrition and Weight															
Daily folic acid use, month before pregnancy	22.9	21.0 - 24.8	59,100	19.4	16.1 - 22.6	13,800	24.6	20.9 - 28.3	19,200	23.9	20.5 - 27.2	19,800	22.6	16.2 - 29.0	5,200
Overweight before pregnancy	28.5	26.2 - 30.7	68,100	30.9	26.0 - 35.8	18,400	29.7	25.6 - 33.8	21,700	27.0	23.6 - 30.4	21,900	24.0	16.9 - 31.0	5,400
Obese before pregnancy	25.6	23.5 - 27.7	61,200	29.7	24.9 - 34.5	17,800	25.0	21.1 - 28.8	18,200	26.2	22.9 - 29.6	21,300	14.7	9.6 - 19.8	3,300
Inadequate weight gain during pregnancy	20.8	18.5 - 23.1	43,400	21.3	16.9 - 25.7	10,700	20.4	16.3 - 24.6	12,900	20.3	16.4 - 24.2	14,600	22.5	14.7 - 30.3	4,600
Excessive weight gain during pregnancy	39.0	36.5 - 41.5	81,300	35.5	30.3 - 40.7	17,800	37.1	32.5 - 41.6	23,400	44.3	40.2 - 48.5	31,900	34.0	26.2 - 41.7	7,000
Food insecurity during pregnancy	25.5	23.5 - 27.6	65,600	28.8	24.5 - 33.0	20,400	22.8	19.4 - 26.2	17,700	25.7	22.2 - 29.2	21,200	22.0	14.4 - 29.6	5,100
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical or psychological IPV during pregnancy	10.0	8.6 - 11.4	25,900	11.4	8.6 - 14.2	8,200	8.4	6.3 - 10.5	6,600	10.9	8.3 - 13.4	9,000	7.5	3.5 - 11.6	1,700
Prenatal depressive symptoms	18.6	16.7 - 20.4	48,000	22.8	18.7 - 26.9	16,400	18.0	14.8 - 21.2	14,100	16.0	13.3 - 18.7	13,300	14.8	8.5 - 21.1	3,400
Postpartum depressive symptoms	15.8	14.1 - 17.5	40,800	17.6	13.8 - 21.3	12,600	15.5	12.3 - 18.6	12,100	15.0	12.3 - 17.7	12,400	13.6	7.9 - 19.3	3,100
Hardships and Support during Pregnancy															
Experienced two or more hardships during childhood	30.8	28.7 - 33.0	78,300	35.4	30.8 - 40.0	24,900	31.8	27.9 - 35.7	24,400	30.7	27.2 - 34.1	25,000	13.9	9.3 - 18.6	3,100
Homeless or did not have a regular place to sleep	3.8	3.1 - 4.5	9,800	4.1	2.9 - 5.3	2,900	3.7	2.3 - 5.0	2,800	4.1	2.9 - 5.4	3,400	1.5*	0.4 - 2.5	300
Moved due to problems paying rent or mortgage	9.8	8.4 - 11.2	25,300	10.8	7.6 - 14.0	7,700	7.2	5.5 - 8.9	5,600	12.5	9.9 - 15.1	10,400	5.5	3.0 - 8.0	1,300
Woman or partner lost job	20.8	18.9 - 22.7	53,200	21.8	17.7 - 25.8	15,300	18.3	15.0 - 21.7	14,100	23.3	20.0 - 26.6	19,200	17.9	11.5 - 24.3	4,100
Woman or partner had pay or hours cut back	14.7	13.1 - 16.2	37,600	15.1	11.8 - 18.5	10,700	13.3	10.6 - 16.0	10,200	16.1	13.5 - 18.6	13,200	13.6	8.2 - 19.0	3,100
Became separated or divorced	11.2	9.7 - 12.7	28,800	12.2	9.2 - 15.1	8,700	10.2	7.9 - 12.6	8,000	11.9	9.1 - 14.7	9,900	8.4	3.8 - 13.0	2,000
Had no practical or emotional support	6.3	5.1 - 7.6	16,400	9.3	6.2 - 12.3	6,700	6.0	4.1 - 8.0	4,700	4.1	2.6 - 5.7	3,400	6.0*	1.8 - 10.2	1,400
Substance Use															
Any smoking, 3 months before pregnancy	13.0	11.5 - 14.5	33,600	11.1	8.4 - 13.8	7,900	13.2	10.3 - 16.1	10,300	14.9	12.3 - 17.4	12,300	10.9	5.5 - 16.2	2,500
Any smoking, 3rd trimester†	3.9	3.0 - 4.7	10,100	4.3	2.6 - 6.0	3,100	3.1	1.7 - 4.5	2,400	4.5	3.0 - 6.0	3,700	--		
Any smoking, postpartum	6.8	5.8 - 7.8	17,500	7.7	5.4 - 9.9	5,500	6.8	4.7 - 9.0	5,300	6.4	5.1 - 7.7	5,300	4.9*	1.3 - 8.6	1,100
Any binge drinking, 3 months before pregnancy	14.1	12.5 - 15.7	36,100	8.6	5.9 - 11.3	6,100	12.8	10.0 - 15.6	9,900	20.0	16.8 - 23.2	16,400	14.9	9.1 - 20.8	3,400
Any alcohol use, 3rd trimester†	4.1	3.0 - 5.2	10,600	4.4	1.9 - 7.0	3,200	1.7	0.8 - 2.7	1,300	4.4	2.6 - 6.2	3,600	10.1*	4.0 - 16.2	2,300
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	41.0	38.7 - 43.4	105,800	40.2	35.5 - 44.9	28,800	40.2	36.0 - 44.5	31,400	44.8	40.9 - 48.7	37,000	32.9	25.0 - 40.7	7,500
Unsure of pregnancy intentions	15.8	14.1 - 17.4	40,700	16.4	12.9 - 19.8	11,700	14.3	11.8 - 16.9	11,200	17.5	14.4 - 20.5	14,400	12.7	6.8 - 18.5	2,900
Postpartum birth control use†	84.2	82.6 - 85.8	211,900	82.7	79.1 - 86.3	56,500	85.4	82.7 - 88.1	65,400	85.5	82.9 - 88.0	69,500	80.4	74.0 - 86.8	18,000
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	76.5	74.5 - 78.5	194,800	73.0	68.6 - 77.4	51,800	76.2	72.5 - 79.9	58,100	77.1	74.0 - 80.3	63,200	85.3	80.5 - 90.1	19,600
Infant always or often shared bed	38.4	36.2 - 40.6	97,700	38.2	33.7 - 42.6	27,000	36.2	32.4 - 40.1	27,700	39.9	36.1 - 43.6	32,600	41.5	33.3 - 49.7	9,500
Intended to breastfeed, before birth	91.5	90.3 - 92.6	232,400	90.6	88.3 - 92.9	63,500	89.7	87.2 - 92.2	68,400	92.4	90.6 - 94.2	75,600	97.0*	94.9 - 99.0	22,300
Intended to breastfeed exclusively, before birth	56.5	54.2 - 58.9	143,700	45.8	41.1 - 50.6	32,100	53.7	49.5 - 58.0	40,900	64.6	60.9 - 68.3	52,800	70.8	63.4 - 78.1	16,200
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	78.6	76.7 - 80.5	198,500	78.1	74.1 - 82.0	54,900	74.3	70.5 - 78.2	56,100	80.7	77.7 - 83.6	65,600	87.6	82.9 - 92.3	20,000
Exclusive breastfeeding, 1 month after delivery	37.8	35.5 - 40.0	93,600	36.7	32.1 - 41.3	25,300	34.1	30.2 - 38.1	25,300	41.5	37.7 - 45.3	33,300	40.3	31.8 - 48.8	8,900
Any breastfeeding, 3 months after delivery	58.0	55.3 - 60.7	116,900	58.1	52.9 - 63.4	34,400	52.0	47.1 - 56.8	31,600	60.9	56.5 - 65.4	38,700	68.9	60.0 - 77.8	11,200
Exclusive breastfeeding, 3 months after delivery	20.1	18.0 - 22.1	40,000	16.8	13.0 - 20.5	9,800	17.3	13.8 - 20.8	10,400	23.7	20.2 - 27.2	14,900	29.0	19.4 - 38.7	4,600

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health Division and the Women, Infants and Children Division in the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco.



MIHA Data Snapshot, Prenatal WIC Participants by Education, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants											
	California			<High School			High School Graduate or GED			Some College			College Graduate			
	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	%	95% CI	N	
Service Utilization and Health Insurance Coverage																
Had a usual source of pre-pregnancy care	62.1	59.9 - 64.4	160,700	60.5	55.9 - 65.1	43,500	63.2	59.0 - 67.3	49,300	62.0	58.2 - 65.8	51,300	64.0	55.9 - 72.1	14,800	
Initiated prenatal care in 1st trimester	85.6	84.1 - 87.2	218,500	82.3	78.7 - 85.8	57,300	85.9	83.1 - 88.8	66,600	85.8	83.4 - 88.3	70,700	94.4	92.2 - 96.6	21,400	
Had a postpartum medical visit	82.9	81.1 - 84.7	214,100	75.1	70.8 - 79.3	53,700	83.6	80.6 - 86.5	65,000	86.4	83.5 - 89.2	71,600	92.9	89.1 - 96.6	21,500	
Mom or infant needed but couldn't afford care postpartum	17.8	15.9 - 19.7	44,900	17.3	13.7 - 20.8	12,100	15.9	12.5 - 19.3	11,900	19.1	15.7 - 22.5	15,600	19.1	12.6 - 25.5	4,400	
Received CalFresh (food stamps) during pregnancy	42.0	39.7 - 44.3	108,300	52.4	47.7 - 57.1	37,400	41.2	37.1 - 45.3	32,200	39.8	36.0 - 43.5	32,800	19.1	13.8 - 24.3	4,400	
Pre-pregnancy insurance																
Medi-Cal	40.3	38.0 - 42.5	104,200	51.3	46.5 - 56.0	36,700	41.5	37.4 - 45.6	32,400	36.7	33.0 - 40.3	30,300	14.8	10.5 - 19.2	3,400	
Uninsured	37.2	34.9 - 39.5	96,200	40.2	35.5 - 44.8	28,800	40.3	36.1 - 44.6	31,500	31.9	28.1 - 35.6	26,400	37.5	29.4 - 45.6	8,700	
Private	18.5	16.7 - 20.3	47,800	6.4	4.0 - 8.9	4,600	15.7	12.6 - 18.8	12,300	25.4	22.2 - 28.7	21,000	40.0	31.7 - 48.3	9,300	
Prenatal insurance																
Medi-Cal	81.7	79.9 - 83.5	211,300	91.3	88.6 - 94.0	65,300	86.0	82.9 - 89.1	67,200	75.4	72.1 - 78.6	62,400	59.9	51.5 - 68.3	13,900	
Uninsured	1.6	1.0 - 2.2	4,100	3.1	1.3 - 4.8	2,200	0.7	0.4 - 1.1	600	1.3*	0.3 - 2.3	1,100	0.6*	0.1 - 1.1	100	
Private	13.1	11.5 - 14.8	34,000	4.4	2.3 - 6.4	3,100	9.9	7.3 - 12.5	7,800	18.4	15.4 - 21.3	15,200	32.6	24.4 - 40.9	7,600	
Maternal postpartum insurance																
Medi-Cal	59.9	57.6 - 62.2	153,800	65.1	60.7 - 69.6	46,400	65.7	61.7 - 69.8	50,700	57.6	53.8 - 61.5	47,500	32.5	25.5 - 39.5	7,500	
Uninsured	22.5	20.5 - 24.5	57,700	28.5	24.2 - 32.7	20,300	22.0	18.4 - 25.6	17,000	17.3	14.0 - 20.5	14,200	24.4	16.8 - 31.9	5,600	
Private	14.8	13.2 - 16.5	38,000	5.0	2.9 - 7.0	3,600	10.3	7.9 - 12.7	7,900	20.6	17.5 - 23.6	16,900	39.7	31.3 - 48.2	9,200	
Infant health insurance																
Medi-Cal	84.6	82.9 - 86.3	214,500	93.1	90.7 - 95.5	65,900	88.7	86.1 - 91.4	67,100	77.7	74.5 - 80.9	63,500	69.2	61.3 - 77.2	15,900	
Uninsured	3.0	2.2 - 3.9	7,700	3.2	1.6 - 4.8	2,300	3.5	1.6 - 5.4	2,600	3.1	1.5 - 4.7	2,600	0.9*	0.1 - 1.6	200	
Private	9.0	7.6 - 10.3	22,700	2.1*	0.8 - 3.5	1,500	5.2	3.6 - 6.8	3,900	13.9	11.3 - 16.5	11,400	24.4	16.7 - 32.1	5,600	
Maternal Demographics																
Unmarried	61.5	59.2 - 63.8	158,600	65.3	60.8 - 69.7	46,800	64.1	59.9 - 68.2	50,000	61.9	58.1 - 65.6	51,100	37.9	29.9 - 45.9	8,700	
Race/Ethnicity																
Hispanic	70.8	68.9 - 72.6	181,600	85.9	83.1 - 88.7	61,400	74.3	70.7 - 77.9	57,400	60.1	56.5 - 63.7	49,400	52.0	43.8 - 60.2	11,900	
Black	7.7	7.1 - 8.3	19,700	4.2	3.1 - 5.4	3,000	6.6	5.0 - 8.2	5,100	11.1	9.5 - 12.7	9,100	9.4	5.9 - 13.0	2,100	
White	13.6	12.2 - 15.0	35,000	7.0	4.8 - 9.3	5,000	11.5	9.0 - 14.1	8,900	20.5	17.7 - 23.4	16,900	15.5	11.2 - 19.8	3,500	
Asian/Pacific Islander	7.3	6.0 - 8.7	18,800	2.3*	0.9 - 3.6	1,600	7.2	4.6 - 9.8	5,600	7.4	5.1 - 9.7	6,100	23.0	15.9 - 30.0	5,200	
Born outside the U.S.	42.8	40.5 - 45.1	111,000	57.9	53.2 - 62.5	41,600	46.9	42.6 - 51.1	36,600	24.0	20.5 - 27.5	19,900	50.2	41.9 - 58.5	11,600	
Speaks non-English language at home	38.0	35.8 - 40.3	97,500	50.7	46.0 - 55.4	36,300	42.6	38.4 - 46.8	32,800	21.1	17.8 - 24.5	17,400	43.7	35.2 - 52.3	9,900	
Lives in a high poverty neighborhood	56.4	54.1 - 58.7	139,200	65.3	60.8 - 69.7	44,000	56.8	52.5 - 61.1	42,300	50.9	46.9 - 54.8	40,400	48.2	39.7 - 56.6	10,900	
Income as a percent of the Federal Poverty Guideline																
0-100%	69.6	67.5 - 71.8	168,400	84.0	80.4 - 87.6	54,800	72.7	68.7 - 76.6	52,600	62.7	59.1 - 66.3	49,700	40.6	32.2 - 48.9	9,000	
101-200%	26.3	24.2 - 28.3	63,500	15.1	11.6 - 18.6	9,900	25.5	21.6 - 29.3	18,400	31.0	27.6 - 34.5	24,600	46.1	37.5 - 54.6	10,200	
> 200%	4.1	3.2 - 4.9	9,900	0.9*	0.2 - 1.6	600	1.9	1.0 - 2.8	1,400	6.3	4.7 - 7.9	5,000	13.4	7.4 - 19.3	3,000	

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants by Total Live Births, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants										
	California				First Live Birth				Second Live Birth or More						
	%	95% CI		N	%	95% CI		N	%	95% CI		N			
Total				259,300	34.6	32.4	-	36.8	89,700	65.4	63.2	-	67.6	169,500	
Health Status before Pregnancy															
In good to excellent health	88.7	87.2	-	90.2	229,700	88.1	85.4	-	90.9	78,900	89.0	87.3	-	90.7	150,700
Chronic conditions															
Diabetes†	3.2	2.4	-	4.0	8,100	2.8	1.5	-	4.2	2,500	3.4	2.3	-	4.4	5,600
Hypertension†	2.5	2.0	-	3.1	6,400	2.2	1.2	-	3.3	2,000	2.7	2.0	-	3.4	4,400
Asthma†	8.4	7.2	-	9.5	21,100	10.2	8.1	-	12.3	9,000	7.3	6.0	-	8.7	12,100
Nutrition and Weight															
Daily folic acid use, month before pregnancy	22.9	21.0	-	24.8	59,100	22.8	19.6	-	26.1	20,500	22.8	20.5	-	25.2	38,500
Overweight before pregnancy	28.5	26.2	-	30.7	68,100	23.5	20.3	-	26.8	20,200	31.2	28.3	-	34.1	47,900
Obese before pregnancy	25.6	23.5	-	27.7	61,200	17.7	14.6	-	20.9	15,200	29.9	27.2	-	32.7	46,000
Inadequate weight gain during pregnancy	20.8	18.5	-	23.1	43,400	18.5	14.9	-	22.1	14,100	22.1	19.2	-	25.0	29,300
Excessive weight gain during pregnancy	39.0	36.5	-	41.5	81,300	48.2	43.9	-	52.5	36,600	33.7	30.8	-	36.7	44,700
Food insecurity during pregnancy	25.5	23.5	-	27.6	65,600	24.1	20.7	-	27.5	21,400	26.3	23.8	-	28.9	44,200
Intimate Partner Violence (IPV) and Depressive Symptoms															
Physical or psychological IPV during pregnancy	10.0	8.6	-	11.4	25,900	12.3	10.0	-	14.7	11,100	8.8	7.1	-	10.4	14,800
Prenatal depressive symptoms	18.6	16.7	-	20.4	48,000	15.4	12.7	-	18.0	13,800	20.3	17.9	-	22.7	34,200
Postpartum depressive symptoms	15.8	14.1	-	17.5	40,800	13.8	11.2	-	16.5	12,400	16.8	14.6	-	19.1	28,500
Hardships and Support during Pregnancy															
Experienced two or more hardships during childhood	30.8	28.7	-	33.0	78,300	28.9	25.5	-	32.4	25,600	31.9	29.2	-	34.6	52,700
Homeless or did not have a regular place to sleep	3.8	3.1	-	4.5	9,800	4.6	3.3	-	5.9	4,100	3.4	2.6	-	4.2	5,800
Moved due to problems paying rent or mortgage	9.8	8.4	-	11.2	25,300	9.5	7.4	-	11.6	8,500	9.9	8.2	-	11.7	16,800
Woman or partner lost job	20.8	18.9	-	22.7	53,200	21.5	18.3	-	24.8	19,000	20.4	18.0	-	22.8	34,200
Woman or partner had pay or hours cut back	14.7	13.1	-	16.2	37,600	14.8	12.0	-	17.5	13,100	14.7	12.7	-	16.6	24,500
Became separated or divorced	11.2	9.7	-	12.7	28,800	13.7	11.0	-	16.4	12,200	9.8	8.1	-	11.6	16,600
Had no practical or emotional support	6.3	5.1	-	7.6	16,400	2.8	1.5	-	4.1	2,500	8.2	6.5	-	9.9	13,900
Substance Use															
Any smoking, 3 months before pregnancy	13.0	11.5	-	14.5	33,600	14.7	12.0	-	17.4	13,100	12.2	10.4	-	13.9	20,500
Any smoking, 3rd trimester†	3.9	3.0	-	4.7	10,100	3.7	2.1	-	5.4	3,300	4.0	3.0	-	4.9	6,700
Any smoking, postpartum	6.8	5.8	-	7.8	17,500	7.5	5.5	-	9.6	6,700	6.4	5.2	-	7.5	10,800
Any binge drinking, 3 months before pregnancy	14.1	12.5	-	15.7	36,100	18.1	15.2	-	20.9	15,900	12.1	10.1	-	14.0	20,200
Any alcohol use, 3rd trimester†	4.1	3.0	-	5.2	10,600	4.4	2.5	-	6.4	4,000	3.9	2.6	-	5.3	6,600
Pregnancy Intention and Family Planning															
Mistimed or unwanted pregnancy	41.0	38.7	-	43.4	105,800	46.1	42.1	-	50.0	41,200	38.4	35.5	-	41.2	64,700
Unsure of pregnancy intentions	15.8	14.1	-	17.4	40,700	16.4	13.7	-	19.2	14,700	15.4	13.4	-	17.5	26,000
Postpartum birth control use†	84.2	82.6	-	85.8	211,900	79.9	76.8	-	83.0	69,000	86.5	84.6	-	88.4	142,800
Infant Sleep and Breastfeeding															
Placed infant on back to sleep	76.5	74.5	-	78.5	194,800	75.6	72.3	-	79.0	66,800	76.9	74.4	-	79.4	127,900
Infant always or often shared bed	38.4	36.2	-	40.6	97,700	40.8	37.1	-	44.6	36,100	37.1	34.4	-	39.9	61,600
Intended to breastfeed, before birth	91.5	90.3	-	92.6	232,400	91.8	89.6	-	94.0	81,100	91.3	90.0	-	92.6	151,200
Intended to breastfeed exclusively, before birth	56.5	54.2	-	58.9	143,700	62.2	58.4	-	66.0	54,900	53.6	50.7	-	56.5	88,700
Breastfeeding practices															
Any breastfeeding, 1 month after delivery	78.6	76.7	-	80.5	198,500	76.2	72.8	-	79.7	66,600	79.8	77.5	-	82.1	131,800
Exclusive breastfeeding, 1 month after delivery	37.8	35.5	-	40.0	93,600	38.4	34.6	-	42.2	33,300	37.5	34.7	-	40.3	60,300
Any breastfeeding, 3 months after delivery	58.0	55.3	-	60.7	116,900	53.5	49.1	-	58.0	38,800	60.5	57.1	-	63.8	78,100
Exclusive breastfeeding, 3 months after delivery	20.1	18.0	-	22.1	40,000	19.3	15.8	-	22.8	14,000	20.5	18.0	-	23.1	26,000



MIHA Data Snapshot, Prenatal WIC Participants by Total Live Births, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants							
	California				First Live Birth			Second Live Birth or More				
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	62.1	59.9	- 64.4	160,700	53.4	49.5	- 57.4	47,700	66.7	64.0	- 69.5	112,900
Initiated prenatal care in 1st trimester	85.6	84.1	- 87.2	218,500	85.2	82.5	- 87.9	75,600	85.8	83.9	- 87.7	142,900
Had a postpartum medical visit	82.9	81.1	- 84.7	214,100	84.3	81.2	- 87.3	75,300	82.1	79.9	- 84.4	138,800
Mom or infant needed but couldn't afford care postpartum	17.8	15.9	- 19.7	44,900	16.9	13.9	- 20.0	14,900	18.2	15.8	- 20.6	30,000
Received CalFresh (food stamps) during pregnancy	42.0	39.7	- 44.3	108,300	30.7	27.2	- 34.1	27,300	48.0	45.1	- 50.9	80,900
Pre-pregnancy insurance												
Medi-Cal	40.3	38.0	- 42.5	104,200	26.4	23.1	- 29.8	23,600	47.6	44.7	- 50.5	80,500
Uninsured	37.2	34.9	- 39.5	96,200	46.4	42.5	- 50.3	41,500	32.3	29.5	- 35.1	54,600
Private	18.5	16.7	- 20.3	47,800	23.6	20.5	- 26.8	21,100	15.8	13.6	- 17.9	26,600
Prenatal insurance												
Medi-Cal	81.7	79.9	- 83.5	211,300	79.8	76.8	- 82.8	71,600	82.7	80.4	- 85.0	139,700
Uninsured	1.6	1.0	- 2.2	4,100	0.9	0.6	- 1.3	800	1.9	1.0	- 2.8	3,200
Private	13.1	11.5	- 14.8	34,000	15.6	12.8	- 18.4	14,000	11.9	9.9	- 13.8	20,000
Maternal postpartum insurance												
Medi-Cal	59.9	57.6	- 62.2	153,800	61.5	57.7	- 65.4	54,500	59.0	56.1	- 61.9	99,200
Uninsured	22.5	20.5	- 24.5	57,700	19.4	16.1	- 22.7	17,100	24.2	21.6	- 26.7	40,600
Private	14.8	13.2	- 16.5	38,000	16.6	13.8	- 19.4	14,700	13.9	11.8	- 15.9	23,400
Infant health insurance												
Medi-Cal	84.6	82.9	- 86.3	214,500	84.9	82.3	- 87.5	74,800	84.4	82.2	- 86.6	139,600
Uninsured	3.0	2.2	- 3.9	7,700	3.2	1.8	- 4.6	2,800	3.0	1.8	- 4.1	4,900
Private	9.0	7.6	- 10.3	22,700	8.5	6.5	- 10.6	7,500	9.2	7.5	- 10.9	15,200
Maternal Demographics												
Age												
15-19	9.8	8.4	- 11.2	25,400	24.6	21.2	- 28.1	22,100	1.9	1.2	- 2.6	3,200
20-34	77.9	76.1	- 79.8	202,100	72.9	69.4	- 76.3	65,400	80.6	78.4	- 82.8	136,600
35+	12.3	10.8	- 13.7	31,900	2.5	1.5	- 3.5	2,200	17.5	15.4	- 19.6	29,600
Did not complete high school (or GED)	28.0	25.9	- 30.2	71,900	19.0	15.8	- 22.3	16,900	32.8	30.1	- 35.6	55,000
Unmarried	61.5	59.2	- 63.8	158,600	73.3	69.8	- 76.9	65,400	55.3	52.4	- 58.2	93,200
Race/Ethnicity												
Hispanic	70.8	68.9	- 72.6	181,600	65.6	62.1	- 69.0	57,900	73.5	71.2	- 75.8	123,600
Black	7.7	7.1	- 8.3	19,700	9.4	8.0	- 10.9	8,300	6.8	5.9	- 7.7	11,400
White	13.6	12.2	- 15.0	35,000	15.7	13.1	- 18.2	13,800	12.6	10.9	- 14.3	21,100
Asian/Pacific Islander	7.3	6.0	- 8.7	18,800	8.6	6.2	- 11.1	7,600	6.7	5.1	- 8.2	11,200
Born outside the U.S.	42.8	40.5	- 45.1	111,000	30.0	26.3	- 33.7	26,900	49.7	46.8	- 52.5	84,100
Speaks non-English language at home	38.0	35.8	- 40.3	97,500	27.4	23.9	- 30.8	24,300	43.7	40.8	- 46.6	73,200
Lives in a high poverty neighborhood	56.4	54.1	- 58.7	139,200	56.5	52.7	- 60.4	48,600	56.4	53.5	- 59.3	90,500
Income as a percent of the Federal Poverty Guideline												
0-100%	69.6	67.5	- 71.8	168,400	68.7	65.1	- 72.3	55,900	70.1	67.4	- 72.8	112,400
101-200%	26.3	24.2	- 28.3	63,500	26.2	22.7	- 29.6	21,300	26.3	23.7	- 28.9	42,200
> 200%	4.1	3.2	- 4.9	9,900	5.1	3.7	- 6.6	4,200	3.6	2.5	- 4.6	5,700

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

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Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants by Prenatal Health Insurance, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants California				Prenatal WIC Participants							
	%	95% CI		N	Medi-Cal			Private				
					%	95% CI		N	%	95% CI		N
Total				259,300	81.7	79.9	83.5	211,300	13.1	11.5	14.8	34,000
Health Status before Pregnancy												
In good to excellent health	88.7	87.2	90.2	229,700	87.8	86.1	89.5	185,500	93.9	90.8	97.0	31,900
Chronic conditions												
Diabetes†	3.2	2.4	4.0	8,100	3.2	2.3	4.1	6,700	2.6 *	0.1	5.2	900
Hypertension†	2.5	2.0	3.1	6,400	2.5	1.9	3.1	5,100	2.1 *	0.2	4.0	700
Asthma†	8.4	7.2	9.5	21,100	8.4	7.1	9.7	17,300	8.2	5.2	11.2	2,700
Nutrition and Weight												
Daily folic acid use, month before pregnancy	22.9	21.0	24.8	59,100	21.8	19.8	23.9	46,000	26.7	21.0	32.3	9,000
Overweight before pregnancy	28.5	26.2	30.7	68,100	27.6	25.2	30.0	53,300	33.9	27.4	40.5	11,200
Obese before pregnancy	25.6	23.5	27.7	61,200	26.5	24.1	28.9	51,300	23.7	18.3	29.1	7,900
Inadequate weight gain during pregnancy	20.8	18.5	23.1	43,400	20.8	18.2	23.4	34,700	21.6	15.4	27.8	6,500
Excessive weight gain during pregnancy	39.0	36.5	41.5	81,300	39.1	36.3	41.8	65,100	40.0	33.0	46.9	12,000
Food insecurity during pregnancy	25.5	23.5	27.6	65,600	27.8	25.5	30.2	58,300	13.5	9.8	17.2	4,600
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical or psychological IPV during pregnancy	10.0	8.6	11.4	25,900	10.6	9.1	12.2	22,400	5.9	3.2	8.6	2,000
Prenatal depressive symptoms	18.6	16.7	20.4	48,000	19.0	17.0	21.0	40,100	11.5	8.0	14.9	3,800
Postpartum depressive symptoms	15.8	14.1	17.5	40,800	16.5	14.6	18.5	34,900	12.0	8.3	15.6	4,100
Hardships and Support during Pregnancy												
Experienced two or more hardships during childhood	30.8	28.7	33.0	78,300	32.3	29.9	34.7	66,800	22.0	17.1	26.9	7,400
Homeless or did not have a regular place to sleep	3.8	3.1	4.5	9,800	4.3	3.5	5.1	9,000	1.2	0.5	1.8	400
Moved due to problems paying rent or mortgage	9.8	8.4	11.2	25,300	10.0	8.5	11.5	21,000	8.8	5.0	12.7	3,000
Woman or partner lost job	20.8	18.9	22.7	53,200	21.8	19.6	24.0	45,500	15.3	10.5	20.2	5,200
Woman or partner had pay or hours cut back	14.7	13.1	16.2	37,600	15.3	13.5	17.1	31,900	11.7	8.5	14.9	3,900
Became separated or divorced	11.2	9.7	12.7	28,800	11.3	9.7	12.9	23,700	10.6	6.0	15.2	3,600
Had no practical or emotional support	6.3	5.1	7.6	16,400	6.7	5.3	8.1	14,200	4.2 *	1.5	6.9	1,400
Substance Use												
Any smoking, 3 months before pregnancy	13.0	11.5	14.5	33,600	12.9	11.3	14.6	27,200	10.0	6.6	13.3	3,400
Any smoking, 3rd trimester†	3.9	3.0	4.7	10,100	3.9	3.0	4.9	8,300	2.3 *	0.8	3.8	800
Any smoking, postpartum	6.8	5.8	7.8	17,500	7.0	5.9	8.2	14,800	4.3	2.3	6.3	1,400
Any binge drinking, 3 months before pregnancy	14.1	12.5	15.7	36,100	13.4	11.6	15.2	28,000	14.1	10.5	17.7	4,700
Any alcohol use, 3rd trimester†	4.1	3.0	5.2	10,600	3.9	2.7	5.1	8,200	3.9	1.7	6.2	1,300
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	41.0	38.7	43.4	105,800	41.3	38.7	43.8	86,900	41.8	35.2	48.3	14,000
Unsure of pregnancy intentions	15.8	14.1	17.4	40,700	16.2	14.4	18.1	34,100	12.8	8.9	16.8	4,300
Postpartum birth control use†	84.2	82.6	85.8	211,900	84.5	82.8	86.3	174,000	84.3	79.2	89.4	27,400
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	76.5	74.5	78.5	194,800	75.9	73.7	78.2	157,400	82.8	78.1	87.4	27,900
Infant always or often shared bed	38.4	36.2	40.6	97,700	38.8	36.3	41.2	80,200	33.9	27.9	40.0	11,400
Intended to breastfeed, before birth	91.5	90.3	92.6	232,400	91.2	90.0	92.5	188,500	92.9	89.5	96.2	31,500
Intended to breastfeed exclusively, before birth	56.5	54.2	58.9	143,700	56.7	54.2	59.3	117,200	54.8	48.2	61.5	18,600
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	78.6	76.7	80.5	198,500	78.2	76.0	80.3	160,600	81.7	76.7	86.7	27,400
Exclusive breastfeeding, 1 month after delivery	37.8	35.5	40.0	93,600	36.7	34.2	39.2	73,900	46.0	39.3	52.7	15,400
Any breastfeeding, 3 months after delivery	58.0	55.3	60.7	116,900	57.6	54.6	60.5	95,000	56.7	49.1	64.4	14,600
Exclusive breastfeeding, 3 months after delivery	20.1	18.0	22.1	40,000	18.4	16.3	20.5	29,900	28.9	21.4	36.4	7,500



MIHA Data Snapshot, Prenatal WIC Participants by Prenatal Health Insurance, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants California				Prenatal WIC Participants							
	%	95% CI		N	Medi-Cal			Private				
	%	95% CI		N	%	95% CI		N	%	95% CI		N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	62.1	59.9	- 64.4	160,700	59.2	56.7	- 61.8	124,900	81.9	76.6	- 87.3	27,800
Initiated prenatal care in 1st trimester	85.6	84.1	- 87.2	218,500	84.7	82.9	- 86.4	176,700	92.6	88.9	- 96.3	30,400
Had a postpartum medical visit	82.9	81.1	- 84.7	214,100	81.8	79.8	- 83.8	172,500	89.9	85.1	- 94.6	30,400
Mom or infant needed but couldn't afford care postpartum	17.8	15.9	- 19.7	44,900	18.2	16.1	- 20.3	37,500	16.3	11.3	- 21.3	5,500
Received CalFresh (food stamps) during pregnancy	42.0	39.7	- 44.3	108,300	48.7	46.1	- 51.2	102,200	11.3	7.6	- 15.0	3,800
Pre-pregnancy insurance												
Medi-Cal	40.3	38.0	- 42.5	104,200	48.5	45.9	- 51.0	102,200	--			
Uninsured	37.2	34.9	- 39.5	96,200	42.5	39.9	- 45.1	89,700	2.7	1.2	- 4.3	900
Private	18.5	16.7	- 20.3	47,800	6.8	5.6	- 8.0	14,400	95.4	92.9	- 97.9	32,400
Maternal postpartum insurance												
Medi-Cal	59.9	57.6	- 62.2	153,800	70.6	68.3	- 73.0	147,700	10.5	6.2	- 14.7	3,600
Uninsured	22.5	20.5	- 24.5	57,700	24.6	22.3	- 26.9	51,400	6.4 *	2.6	- 10.2	2,200
Private	14.8	13.2	- 16.5	38,000	3.9	3.0	- 4.8	8,200	82.8	77.5	- 88.1	28,100
Infant health insurance												
Medi-Cal	84.6	82.9	- 86.3	214,500	94.4	93.2	- 95.5	195,000	37.3	30.8	- 43.9	12,500
Uninsured	3.0	2.2	- 3.9	7,700	2.5	1.6	- 3.3	5,100	6.0 *	2.2	- 9.8	2,000
Private	9.0	7.6	- 10.3	22,700	1.9	1.3	- 2.6	3,900	54.9	48.1	- 61.6	18,400
Maternal Demographics												
Age												
15-19	9.8	8.4	- 11.2	25,400	10.2	8.7	- 11.8	21,600	8.8	4.5	- 13.1	3,000
20-34	77.9	76.1	- 79.8	202,100	77.9	75.8	- 79.9	164,600	76.5	70.8	- 82.1	26,000
35+	12.3	10.8	- 13.7	31,900	11.9	10.3	- 13.5	25,100	14.7	10.4	- 19.1	5,000
Did not complete high school (or GED)	28.0	25.9	- 30.2	71,900	31.3	28.8	- 33.8	65,300	9.3	5.0	- 13.5	3,100
Unmarried	61.5	59.2	- 63.8	158,600	65.4	63.0	- 67.9	137,500	47.1	40.5	- 53.8	15,900
Race/Ethnicity												
Hispanic	70.8	68.9	- 72.6	181,600	73.1	71.1	- 75.1	153,100	64.3	58.3	- 70.3	21,400
Black	7.7	7.1	- 8.3	19,700	7.5	6.8	- 8.2	15,800	6.8	4.6	- 8.9	2,300
White	13.6	12.2	- 15.0	35,000	12.5	11.0	- 14.0	26,200	15.7	11.8	- 19.6	5,200
Asian/Pacific Islander	7.3	6.0	- 8.7	18,800	6.3	4.9	- 7.7	13,200	12.8	8.1	- 17.4	4,300
Born outside the U.S.	42.8	40.5	- 45.1	111,000	44.9	42.3	- 47.4	94,800	29.6	23.4	- 35.7	10,000
Speaks non-English language at home	38.0	35.8	- 40.3	97,500	39.6	37.1	- 42.1	82,800	27.2	21.0	- 33.4	9,200
Lives in a high poverty neighborhood	56.4	54.1	- 58.7	139,200	59.6	57.1	- 62.2	119,500	47.2	40.6	- 53.9	15,400
Income as a percent of the Federal Poverty Guideline												
0-100%	69.6	67.5	- 71.8	168,400	77.5	75.4	- 79.5	152,900	33.4	26.9	- 39.9	10,600
101-200%	26.3	24.2	- 28.3	63,500	20.7	18.7	- 22.8	41,000	50.5	43.7	- 57.4	16,100
> 200%	4.1	3.2	- 4.9	9,900	1.8	1.3	- 2.3	3,600	16.1	11.1	- 21.0	5,100

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants by Income, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants							
	California			N	0-100% Federal Poverty Guideline			> 100% Federal Poverty Guideline				
	%	95% CI	N		%	95% CI	N	%	95% CI	N		
Total				259,300	69.6	67.5 - 71.8	168,400	30.4	28.2 - 32.5	73,400		
Health Status before Pregnancy												
In good to excellent health	88.7	87.2 - 90.2	229,700		85.8	83.7 - 88.0	144,300	94.6	93.2 - 96.0	69,300		
Chronic conditions												
Diabetes†	3.2	2.4 - 4.0	8,100		3.5	2.4 - 4.6	5,800	2.8	1.4 - 4.2	2,000		
Hypertension†	2.5	2.0 - 3.1	6,400		2.5	1.8 - 3.1	4,100	3.0	1.7 - 4.4	2,200		
Asthma†	8.4	7.2 - 9.5	21,100		8.6	7.1 - 10.1	14,100	7.9	5.9 - 9.9	5,700		
Nutrition and Weight												
Daily folic acid use, month before pregnancy	22.9	21.0 - 24.8	59,100		21.8	19.5 - 24.1	36,600	24.3	20.8 - 27.7	17,800		
Overweight before pregnancy	28.5	26.2 - 30.7	68,100		29.6	26.7 - 32.4	45,800	27.7	23.8 - 31.6	19,400		
Obese before pregnancy	25.6	23.5 - 27.7	61,200		26.8	24.0 - 29.5	41,500	24.2	20.7 - 27.7	17,000		
Inadequate weight gain during pregnancy	20.8	18.5 - 23.1	43,400		19.9	17.1 - 22.7	26,800	22.1	17.9 - 26.2	13,700		
Excessive weight gain during pregnancy	39.0	36.5 - 41.5	81,300		40.4	37.1 - 43.6	54,400	35.0	30.9 - 39.0	21,700		
Food insecurity during pregnancy	25.5	23.5 - 27.6	65,600		29.6	26.9 - 32.4	49,400	16.8	13.7 - 20.0	12,300		
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical or psychological IPV during pregnancy	10.0	8.6 - 11.4	25,900		11.9	10.1 - 13.8	20,000	6.0	4.2 - 7.7	4,400		
Prenatal depressive symptoms	18.6	16.7 - 20.4	48,000		20.7	18.3 - 23.1	34,800	14.7	11.8 - 17.7	10,700		
Postpartum depressive symptoms	15.8	14.1 - 17.5	40,800		18.1	15.8 - 20.5	30,500	12.9	10.2 - 15.6	9,400		
Hardships and Support during Pregnancy												
Experienced two or more hardships during childhood	30.8	28.7 - 33.0	78,300		33.6	30.8 - 36.4	55,500	26.0	22.6 - 29.5	18,700		
Homeless or did not have a regular place to sleep	3.8	3.1 - 4.5	9,800		4.7	3.8 - 5.6	7,900	1.8	0.9 - 2.6	1,300		
Moved due to problems paying rent or mortgage	9.8	8.4 - 11.2	25,300		11.6	9.7 - 13.4	19,400	5.8	4.2 - 7.5	4,300		
Woman or partner lost job	20.8	18.9 - 22.7	53,200		22.8	20.3 - 25.4	37,900	17.8	14.5 - 21.0	13,000		
Woman or partner had pay or hours cut back	14.7	13.1 - 16.2	37,600		15.8	13.7 - 17.8	26,200	13.4	10.7 - 16.1	9,800		
Became separated or divorced	11.2	9.7 - 12.7	28,800		12.6	10.6 - 14.6	21,000	8.2	5.9 - 10.4	6,000		
Had no practical or emotional support	6.3	5.1 - 7.6	16,400		7.8	6.0 - 9.5	13,100	3.3	2.2 - 4.4	2,400		
Substance Use												
Any smoking, 3 months before pregnancy	13.0	11.5 - 14.5	33,600		14.5	12.5 - 16.4	24,200	11.4	8.8 - 14.1	8,400		
Any smoking, 3rd trimester†	3.9	3.0 - 4.7	10,100		4.4	3.3 - 5.5	7,500	3.2	1.7 - 4.8	2,400		
Any smoking, postpartum	6.8	5.8 - 7.8	17,500		7.9	6.6 - 9.3	13,300	5.1	3.2 - 7.0	3,700		
Any binge drinking, 3 months before pregnancy	14.1	12.5 - 15.7	36,100		13.5	11.4 - 15.6	22,500	17.6	14.5 - 20.6	12,700		
Any alcohol use, 3rd trimester†	4.1	3.0 - 5.2	10,600		3.8	2.5 - 5.2	6,400	5.5	3.2 - 7.9	4,000		
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	41.0	38.7 - 43.4	105,800		42.2	39.2 - 45.1	70,700	37.7	33.5 - 41.8	27,400		
Unsure of pregnancy intentions	15.8	14.1 - 17.4	40,700		16.3	14.2 - 18.4	27,300	14.2	11.3 - 17.2	10,400		
Postpartum birth control use†	84.2	82.6 - 85.8	211,900		84.1	82.1 - 86.1	137,000	84.3	81.2 - 87.4	60,600		
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	76.5	74.5 - 78.5	194,800		74.7	72.2 - 77.3	123,500	80.8	77.7 - 84.0	58,300		
Infant always or often shared bed	38.4	36.2 - 40.6	97,700		39.1	36.3 - 41.9	64,700	36.9	32.9 - 40.8	26,500		
Intended to breastfeed, before birth	91.5	90.3 - 92.6	232,400		90.6	89.1 - 92.2	149,300	93.5	91.8 - 95.1	67,500		
Intended to breastfeed exclusively, before birth	56.5	54.2 - 58.9	143,700		55.8	52.9 - 58.8	91,900	59.7	55.6 - 63.9	43,100		
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	78.6	76.7 - 80.5	198,500		77.3	74.8 - 79.8	126,300	80.6	77.3 - 83.9	58,000		
Exclusive breastfeeding, 1 month after delivery	37.8	35.5 - 40.0	93,600		36.0	33.2 - 38.8	57,600	41.4	37.2 - 45.6	29,200		
Any breastfeeding, 3 months after delivery	58.0	55.3 - 60.7	116,900		55.5	52.1 - 58.9	73,300	62.1	57.3 - 66.9	33,600		
Exclusive breastfeeding, 3 months after delivery	20.1	18.0 - 22.1	40,000		18.0	15.6 - 20.4	23,400	25.5	21.2 - 29.7	13,700		



MIHA Data Snapshot, Prenatal WIC Participants by Income, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants							
	California			N	0-100% Federal Poverty Guideline			> 100% Federal Poverty Guideline				
	%	95% CI			%	95% CI	N	%	95% CI	N		
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	62.1	59.9 - 64.4		160,700	62.4	59.5 - 65.3		104,700	63.0	58.9 - 67.2		46,200
Initiated prenatal care in 1st trimester	85.6	84.1 - 87.2		218,500	84.8	82.8 - 86.8		140,900	88.7	86.1 - 91.3		64,400
Had a postpartum medical visit	82.9	81.1 - 84.7		214,100	80.3	77.8 - 82.7		134,700	88.7	86.1 - 91.3		64,900
Mom or infant needed but couldn't afford care postpartum	17.8	15.9 - 19.7		44,900	18.6	16.1 - 21.0		30,500	16.6	13.4 - 19.9		11,900
Received CalFresh (food stamps) during pregnancy	42.0	39.7 - 44.3		108,300	53.0	50.1 - 56.0		88,800	18.4	15.4 - 21.4		13,400
Pre-pregnancy insurance												
Medi-Cal	40.3	38.0 - 42.5		104,200	48.7	45.8 - 51.6		81,700	20.7	17.6 - 23.8		15,100
Uninsured	37.2	34.9 - 39.5		96,200	38.2	35.3 - 41.1		64,100	34.4	30.3 - 38.4		25,200
Private	18.5	16.7 - 20.3		47,800	9.7	8.0 - 11.4		16,300	39.1	34.9 - 43.2		28,600
Prenatal insurance												
Medi-Cal	81.7	79.9 - 83.5		211,300	91.1	89.5 - 92.8		152,900	60.8	56.5 - 65.0		44,500
Uninsured	1.6	1.0 - 2.2		4,100	1.1	0.7 - 1.6		1,900	1.6*	0.4 - 2.9		1,200
Private	13.1	11.5 - 14.8		34,000	6.3	4.9 - 7.8		10,600	28.9	25.0 - 32.9		21,200
Maternal postpartum insurance												
Medi-Cal	59.9	57.6 - 62.2		153,800	68.3	65.5 - 71.1		114,100	40.1	36.0 - 44.2		29,100
Uninsured	22.5	20.5 - 24.5		57,700	23.4	20.8 - 26.0		39,100	20.9	17.4 - 24.4		15,100
Private	14.8	13.2 - 16.5		38,000	6.7	5.3 - 8.1		11,200	33.6	29.5 - 37.7		24,400
Infant health insurance												
Medi-Cal	84.6	82.9 - 86.3		214,500	91.5	89.7 - 93.2		150,300	68.3	64.4 - 72.3		49,200
Uninsured	3.0	2.2 - 3.9		7,700	2.9	1.8 - 3.9		4,700	3.4	1.5 - 5.3		2,500
Private	9.0	7.6 - 10.3		22,700	3.7	2.6 - 4.8		6,100	21.2	17.7 - 24.7		15,300
Maternal Demographics												
Did not complete high school (or GED)	28.0	25.9 - 30.2		71,900	33.0	30.2 - 35.9		54,800	14.3	11.1 - 17.5		10,400
Unmarried	61.5	59.2 - 63.8		158,600	67.1	64.3 - 70.0		112,400	46.4	42.1 - 50.6		33,800
Race/Ethnicity												
Hispanic	70.8	68.9 - 72.6		181,600	73.2	70.9 - 75.6		122,300	63.4	59.5 - 67.2		45,800
Black	7.7	7.1 - 8.3		19,700	7.9	7.0 - 8.9		13,300	7.5	6.0 - 9.0		5,400
White	13.6	12.2 - 15.0		35,000	12.5	10.7 - 14.3		20,900	17.3	14.5 - 20.0		12,500
Asian/Pacific Islander	7.3	6.0 - 8.7		18,800	5.6	4.2 - 7.1		9,400	11.4	8.5 - 14.4		8,300
Born outside the U.S.	42.8	40.5 - 45.1		111,000	42.9	40.0 - 45.9		72,300	39.0	34.9 - 43.1		28,600
Speaks non-English language at home	38.0	35.8 - 40.3		97,500	38.0	35.1 - 40.8		63,100	35.2	31.0 - 39.3		25,700
Lives in a high poverty neighborhood	56.4	54.1 - 58.7		139,200	60.3	57.4 - 63.2		96,800	45.9	41.7 - 50.1		31,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants by Neighborhood Poverty, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants California				Prenatal WIC Participants											
					< 10% of Residents below Poverty				10-19.9% of Residents below Poverty				≥ 20% of Residents below Poverty			
	%	95% CI	N		%	95% CI	N		%	95% CI	N		%	95% CI	N	
Total			259,300		14.3	12.8 - 15.9	35,300		29.2	27.1 - 31.4	72,000		56.4	54.1 - 58.7	139,200	
Health Status before Pregnancy																
In good to excellent health	88.7	87.2 - 90.2	229,700		93.3	91.1 - 95.5	32,800		90.3	87.6 - 92.9	64,900		87.0	84.8 - 89.3	121,000	
Chronic conditions																
Diabetes†	3.2	2.4 - 4.0	8,100		1.8*	0.4 - 3.2	600		3.2	1.5 - 4.8	2,200		3.4	2.2 - 4.5	4,600	
Hypertension†	2.5	2.0 - 3.1	6,400		1.9*	0.7 - 3.1	700		3.0	1.8 - 4.2	2,100		2.5	1.7 - 3.3	3,400	
Asthma†	8.4	7.2 - 9.5	21,100		9.7	6.7 - 12.8	3,400		8.9	6.4 - 11.3	6,200		7.9	6.4 - 9.4	10,700	
Nutrition and Weight																
Daily folic acid use, month before pregnancy	22.9	21.0 - 24.8	59,100		22.5	17.7 - 27.3	7,900		22.3	18.8 - 25.7	16,000		23.4	20.7 - 26.1	32,500	
Overweight before pregnancy	28.5	26.2 - 30.7	68,100		29.3	23.7 - 34.9	9,800		24.7	21.0 - 28.5	16,500		30.3	27.1 - 33.5	38,700	
Obese before pregnancy	25.6	23.5 - 27.7	61,200		20.0	16.0 - 24.1	6,700		26.7	22.4 - 30.9	17,800		26.4	23.5 - 29.4	33,800	
Inadequate weight gain during pregnancy	20.8	18.5 - 23.1	43,400		19.0	13.6 - 24.4	5,600		18.8	14.7 - 23.0	11,200		21.8	18.6 - 25.0	24,000	
Excessive weight gain during pregnancy	39.0	36.5 - 41.5	81,300		38.5	32.7 - 44.4	11,400		38.8	34.4 - 43.3	23,200		39.4	35.8 - 43.0	43,400	
Food insecurity during pregnancy	25.5	23.5 - 27.6	65,600		24.6	19.4 - 29.8	8,600		24.2	20.5 - 27.8	17,200		26.2	23.2 - 29.2	36,200	
Intimate Partner Violence (IPV) and Depressive Symptoms																
Physical or psychological IPV during pregnancy	10.0	8.6 - 11.4	25,900		9.0	5.9 - 12.1	3,200		10.6	7.9 - 13.4	7,600		9.7	7.9 - 11.6	13,500	
Prenatal depressive symptoms	18.6	16.7 - 20.4	48,000		21.4	16.7 - 26.1	7,600		17.9	14.4 - 21.4	12,900		18.7	16.1 - 21.3	25,900	
Postpartum depressive symptoms	15.8	14.1 - 17.5	40,800		18.6	13.8 - 23.4	6,600		14.7	11.6 - 17.8	10,500		15.8	13.3 - 18.2	21,900	
Hardships and Support during Pregnancy																
Experienced two or more hardships during childhood	30.8	28.7 - 33.0	78,300		27.8	22.5 - 33.1	9,600		32.1	28.1 - 36.2	22,700		30.9	27.9 - 33.9	42,100	
Homeless or did not have a regular place to sleep	3.8	3.1 - 4.5	9,800		3.1	1.6 - 4.5	1,100		3.8	2.6 - 5.0	2,700		3.9	2.9 - 4.9	5,400	
Moved due to problems paying rent or mortgage	9.8	8.4 - 11.2	25,300		11.6	8.1 - 15.1	4,100		8.8	6.8 - 10.8	6,300		9.8	7.7 - 11.8	13,500	
Woman or partner lost job	20.8	18.9 - 22.7	53,200		18.3	13.9 - 22.8	6,400		21.1	17.5 - 24.7	15,000		20.8	18.0 - 23.5	28,500	
Woman or partner had pay or hours cut back	14.7	13.1 - 16.2	37,600		16.2	12.4 - 19.9	5,700		14.6	11.9 - 17.3	10,400		13.6	11.3 - 15.8	18,600	
Became separated or divorced	11.2	9.7 - 12.7	28,800		9.2	6.1 - 12.4	3,300		11.7	9.0 - 14.5	8,400		11.6	9.4 - 13.8	16,100	
Had no practical or emotional support	6.3	5.1 - 7.6	16,400		4.0	1.9 - 6.2	1,400		6.8	4.2 - 9.3	4,900		6.3	4.6 - 8.0	8,700	
Substance Use																
Any smoking, 3 months before pregnancy	13.0	11.5 - 14.5	33,600		14.9	10.7 - 19.0	5,200		14.7	11.6 - 17.7	10,500		12.2	10.2 - 14.2	16,900	
Any smoking, 3rd trimester†	3.9	3.0 - 4.7	10,100		5.6	2.4 - 8.9	2,000		3.2	1.9 - 4.5	2,300		3.9	2.7 - 5.0	5,300	
Any smoking, postpartum	6.8	5.8 - 7.8	17,500		8.1	4.7 - 11.5	2,800		7.4	5.4 - 9.5	5,300		6.3	4.9 - 7.6	8,700	
Any binge drinking, 3 months before pregnancy	14.1	12.5 - 15.7	36,100		15.0	10.9 - 19.2	5,300		16.7	13.4 - 20.1	11,900		12.7	10.5 - 14.8	17,400	
Any alcohol use, 3rd trimester†	4.1	3.0 - 5.2	10,600		4.9*	1.8 - 8.1	1,700		3.5	1.7 - 5.4	2,500		4.2	2.7 - 5.8	5,900	
Pregnancy Intention and Family Planning																
Mistimed or unwanted pregnancy	41.0	38.7 - 43.4	105,800		33.4	28.3 - 38.5	11,700		45.3	40.9 - 49.7	32,600		41.7	38.4 - 45.0	57,600	
Unsure of pregnancy intentions	15.8	14.1 - 17.4	40,700		21.2	15.9 - 26.5	7,400		12.2	9.8 - 14.5	8,700		15.8	13.5 - 18.1	21,800	
Postpartum birth control use†	84.2	82.6 - 85.8	211,900		78.8	73.6 - 84.1	26,800		87.8	85.5 - 90.1	61,700		83.5	81.1 - 85.8	112,700	
Infant Sleep and Breastfeeding																
Placed infant on back to sleep	76.5	74.5 - 78.5	194,800		74.4	69.4 - 79.5	26,000		80.7	77.5 - 83.9	56,900		74.4	71.4 - 77.4	101,900	
Infant always or often shared bed	38.4	36.2 - 40.6	97,700		38.0	32.5 - 43.6	13,300		38.1	34.0 - 42.1	26,800		38.4	35.3 - 41.6	52,500	
Intended to breastfeed, before birth	91.5	90.3 - 92.6	232,400		93.9	91.8 - 96.1	32,900		93.0	91.2 - 94.8	65,200		90.1	88.3 - 91.9	123,100	
Intended to breastfeed exclusively, before birth	56.5	54.2 - 58.9	143,700		65.6	60.4 - 70.8	23,000		60.9	56.6 - 65.1	42,600		52.4	49.1 - 55.7	71,600	
Breastfeeding practices																
Any breastfeeding, 1 month after delivery	78.6	76.7 - 80.5	198,500		81.0	76.6 - 85.4	28,100		80.2	76.7 - 83.8	56,200		76.8	74.0 - 79.6	104,100	
Exclusive breastfeeding, 1 month after delivery	37.8	35.5 - 40.0	93,600		40.1	34.4 - 45.7	13,600		40.0	35.8 - 44.3	27,300		35.3	32.1 - 38.4	47,100	
Any breastfeeding, 3 months after delivery	58.0	55.3 - 60.7	116,900		64.4	58.2 - 70.6	17,600		61.7	56.8 - 66.6	34,700		54.6	50.8 - 58.5	59,200	
Exclusive breastfeeding, 3 months after delivery	20.1	18.0 - 22.1	40,000		27.1	21.3 - 32.8	7,400		23.9	19.8 - 28.0	13,100		16.2	13.6 - 18.8	17,400	



MIHA Data Snapshot, Prenatal WIC Participants by Neighborhood Poverty, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants California			Prenatal WIC Participants								
	%	95% CI	N	< 10% of Residents below Poverty			10-19.9% of Residents below Poverty			≥ 20% of Residents below Poverty		
				%	95% CI	N	%	95% CI	N	%	95% CI	N
Service Utilization and Health Insurance Coverage												
Had a usual source of pre-pregnancy care	62.1	59.9 - 64.4	160,700	58.5	52.8 - 64.1	20,600	62.9	58.6 - 67.2	45,200	62.7	59.5 - 65.9	87,000
Initiated prenatal care in 1st trimester	85.6	84.1 - 87.2	218,500	87.3	84.1 - 90.4	30,600	86.2	83.5 - 89.0	61,100	85.5	83.2 - 87.7	117,100
Had a postpartum medical visit	82.9	81.1 - 84.7	214,100	86.8	82.8 - 90.7	30,600	84.1	80.9 - 87.2	60,200	81.6	78.9 - 84.2	113,200
Mom or infant needed but couldn't afford care postpartum	17.8	15.9 - 19.7	44,900	16.2	12.4 - 20.0	5,700	17.9	14.3 - 21.5	12,500	17.6	14.9 - 20.2	23,800
Received CalFresh (food stamps) during pregnancy	42.0	39.7 - 44.3	108,300	32.0	26.8 - 37.2	11,200	36.1	31.9 - 40.2	25,800	47.6	44.3 - 50.9	66,000
Pre-pregnancy insurance												
Medi-Cal	40.3	38.0 - 42.5	104,200	28.1	23.4 - 32.9	9,900	40.5	36.2 - 44.8	29,100	43.7	40.5 - 46.9	60,600
Uninsured	37.2	34.9 - 39.5	96,200	35.2	29.5 - 40.9	12,400	34.2	30.0 - 38.5	24,600	38.8	35.5 - 42.0	53,800
Private	18.5	16.7 - 20.3	47,800	30.7	25.5 - 35.9	10,800	19.3	16.1 - 22.6	13,900	14.9	12.5 - 17.3	20,700
Prenatal insurance												
Medi-Cal	81.7	79.9 - 83.5	211,300	68.4	63.0 - 73.8	24,200	79.0	75.5 - 82.5	56,800	86.2	83.9 - 88.6	119,500
Uninsured	1.6	1.0 - 2.2	4,100	2.8*	0.7 - 4.8	1,000	1.6*	0.6 - 2.6	1,100	1.3*	0.4 - 2.1	1,800
Private	13.1	11.5 - 14.8	34,000	21.4	16.7 - 26.1	7,600	13.4	10.6 - 16.2	9,600	11.1	8.9 - 13.3	15,400
Maternal postpartum insurance												
Medi-Cal	59.9	57.6 - 62.2	153,800	50.7	45.0 - 56.4	17,800	55.6	51.3 - 60.0	39,300	64.2	61.0 - 67.4	88,900
Uninsured	22.5	20.5 - 24.5	57,700	19.0	14.2 - 23.8	6,700	23.0	19.2 - 26.9	16,300	23.0	20.1 - 25.9	31,800
Private	14.8	13.2 - 16.5	38,000	25.5	20.3 - 30.6	8,900	16.2	13.1 - 19.2	11,400	11.7	9.6 - 13.9	16,300
Infant health insurance												
Medi-Cal	84.6	82.9 - 86.3	214,500	77.9	73.5 - 82.3	27,000	79.6	76.0 - 83.2	55,900	89.0	86.9 - 91.1	121,500
Uninsured	3.0	2.2 - 3.9	7,700	3.0	1.2 - 4.7	1,000	4.0	2.1 - 5.9	2,800	2.1	1.1 - 3.0	2,800
Private	9.0	7.6 - 10.3	22,700	13.8	10.2 - 17.5	4,800	11.0	8.2 - 13.8	7,700	6.9	5.2 - 8.6	9,500
Maternal Demographics												
Age												
15-19	9.8	8.4 - 11.2	25,400	7.3	4.6 - 10.1	2,600	9.3	7.0 - 11.7	6,700	10.6	8.6 - 12.6	14,800
20-34	77.9	76.1 - 79.8	202,100	79.8	75.6 - 84.0	28,200	78.5	75.1 - 81.9	56,500	77.4	74.7 - 80.1	107,700
35+	12.3	10.8 - 13.7	31,900	12.8	9.4 - 16.2	4,500	12.2	9.4 - 15.0	8,800	12.0	10.0 - 14.0	16,700
Did not complete high school (or GED)	28.0	25.9 - 30.2	71,900	18.1	13.5 - 22.7	6,300	23.9	20.1 - 27.7	17,100	32.0	28.8 - 35.2	44,000
Unmarried	61.5	59.2 - 63.8	158,600	55.6	50.0 - 61.2	19,600	59.4	55.1 - 63.8	42,700	64.3	61.2 - 67.5	89,000
Race/Ethnicity												
Hispanic	70.8	68.9 - 72.6	181,600	54.9	49.3 - 60.5	19,000	67.4	63.6 - 71.2	48,200	75.8	73.3 - 78.3	104,500
Black	7.7	7.1 - 8.3	19,700	6.5	4.6 - 8.4	2,200	8.4	6.5 - 10.2	6,000	7.6	6.7 - 8.6	10,500
White	13.6	12.2 - 15.0	35,000	24.9	20.2 - 29.6	8,600	15.9	13.1 - 18.7	11,400	10.0	8.2 - 11.8	13,800
Asian/Pacific Islander	7.3	6.0 - 8.7	18,800	13.3	9.1 - 17.5	4,600	7.8	5.3 - 10.4	5,600	6.0	4.3 - 7.8	8,300
Born outside the U.S.	42.8	40.5 - 45.1	111,000	38.5	33.0 - 44.1	13,600	40.5	36.2 - 44.9	29,200	43.9	40.6 - 47.1	61,000
Speaks non-English language at home	38.0	35.8 - 40.3	97,500	33.0	27.7 - 38.3	11,500	33.6	29.5 - 37.7	23,900	41.0	37.8 - 44.2	56,500
Income as a percent of the Federal Poverty Guideline												
0-100%	69.6	67.5 - 71.8	168,400	55.2	49.5 - 61.0	18,400	66.7	62.4 - 70.9	45,300	75.2	72.5 - 78.0	96,800
101-200%	26.3	24.2 - 28.3	63,500	34.6	29.0 - 40.2	11,500	29.0	24.9 - 33.1	19,700	22.2	19.5 - 24.9	28,600
> 200%	4.1	3.2 - 4.9	9,900	10.2	7.1 - 13.2	3,400	4.3	2.4 - 6.3	2,900	2.6	1.7 - 3.5	3,300

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. Neighborhood poverty is the percentage of residents with incomes below poverty in a woman's census tract. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants by Geographical Area, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants							
	California				Urban				Rural/Frontier			
	%	95% CI	N		%	95% CI	N		%	95% CI	N	
Total			259,300		86.5	85.6 - 87.4	213,300		13.5	12.6 - 14.4	33,300	
Health Status before Pregnancy												
In good to excellent health	88.7	87.2 - 90.2	229,700		88.8	87.1 - 90.6	189,200		89.2	87.4 - 91.0	29,600	
Chronic conditions												
Diabetes†	3.2	2.4 - 4.0	8,100		3.1	2.2 - 4.1	6,600		2.6	1.8 - 3.5	900	
Hypertension†	2.5	2.0 - 3.1	6,400		2.5	1.9 - 3.2	5,300		2.8	1.7 - 3.9	900	
Asthma†	8.4	7.2 - 9.5	21,100		8.3	6.9 - 9.6	17,200		9.5	7.4 - 11.5	3,100	
Nutrition and Weight												
Daily folic acid use, month before pregnancy	22.9	21.0 - 24.8	59,100		22.7	20.4 - 24.9	48,200		24.7	21.6 - 27.8	8,200	
Overweight before pregnancy	28.5	26.2 - 30.7	68,100		28.5	25.9 - 31.0	56,300		28.9	25.6 - 32.2	8,600	
Obese before pregnancy	25.6	23.5 - 27.7	61,200		25.7	23.2 - 28.1	50,800		24.8	21.9 - 27.8	7,400	
Inadequate weight gain during pregnancy	20.8	18.5 - 23.1	43,400		21.0	18.4 - 23.6	36,400		17.3	14.3 - 20.2	4,500	
Excessive weight gain during pregnancy	39.0	36.5 - 41.5	81,300		38.2	35.3 - 41.0	66,200		45.3	41.3 - 49.3	11,800	
Food insecurity during pregnancy	25.5	23.5 - 27.6	65,600		25.6	23.2 - 28.0	54,100		23.9	20.6 - 27.2	7,900	
Intimate Partner Violence (IPV) and Depressive Symptoms												
Physical or psychological IPV during pregnancy	10.0	8.6 - 11.4	25,900		9.7	8.1 - 11.3	20,600		11.2	9.2 - 13.3	3,700	
Prenatal depressive symptoms	18.6	16.7 - 20.4	48,000		19.1	17.0 - 21.3	40,700		17.0	13.8 - 20.2	5,600	
Postpartum depressive symptoms	15.8	14.1 - 17.5	40,800		15.7	13.7 - 17.7	33,500		16.6	13.3 - 19.9	5,500	
Hardships and Support during Pregnancy												
Experienced two or more hardships during childhood	30.8	28.7 - 33.0	78,300		30.6	28.1 - 33.1	64,000		32.0	28.4 - 35.6	10,400	
Homeless or did not have a regular place to sleep	3.8	3.1 - 4.5	9,800		3.7	3.0 - 4.5	7,900		4.0	2.9 - 5.2	1,300	
Moved due to problems paying rent or mortgage	9.8	8.4 - 11.2	25,300		10.0	8.4 - 11.6	21,300		8.0	6.3 - 9.8	2,700	
Woman or partner lost job	20.8	18.9 - 22.7	53,200		20.9	18.6 - 23.1	43,900		18.3	15.1 - 21.5	6,000	
Woman or partner had pay or hours cut back	14.7	13.1 - 16.2	37,600		14.6	12.9 - 16.4	30,800		11.7	9.7 - 13.7	3,900	
Became separated or divorced	11.2	9.7 - 12.7	28,800		11.6	9.8 - 13.3	24,600		9.5	7.7 - 11.3	3,100	
Had no practical or emotional support	6.3	5.1 - 7.6	16,400		6.3	4.9 - 7.8	13,500		4.5	3.3 - 5.7	1,500	
Substance Use												
Any smoking, 3 months before pregnancy	13.0	11.5 - 14.5	33,600		13.1	11.4 - 14.9	27,900		14.4	12.2 - 16.6	4,700	
Any smoking, 3rd trimester†	3.9	3.0 - 4.7	10,100		3.6	2.6 - 4.6	7,700		5.8	4.3 - 7.3	1,900	
Any smoking, postpartum	6.8	5.8 - 7.8	17,500		6.6	5.4 - 7.8	14,000		8.6	6.8 - 10.4	2,900	
Any binge drinking, 3 months before pregnancy	14.1	12.5 - 15.7	36,100		14.3	12.4 - 16.2	30,200		13.3	11.2 - 15.5	4,400	
Any alcohol use, 3rd trimester†	4.1	3.0 - 5.2	10,600		4.4	3.1 - 5.7	9,300		2.5	1.7 - 3.3	800	
Pregnancy Intention and Family Planning												
Mistimed or unwanted pregnancy	41.0	38.7 - 43.4	105,800		42.1	39.4 - 44.8	89,200		38.2	34.6 - 41.8	12,700	
Unsure of pregnancy intentions	15.8	14.1 - 17.4	40,700		15.7	13.8 - 17.6	33,300		14.0	12.0 - 16.0	4,600	
Postpartum birth control use†	84.2	82.6 - 85.8	211,900		83.7	81.8 - 85.7	173,200		86.3	84.1 - 88.4	28,000	
Infant Sleep and Breastfeeding												
Placed infant on back to sleep	76.5	74.5 - 78.5	194,800		76.2	73.9 - 78.6	159,700		76.3	73.4 - 79.3	25,000	
Infant always or often shared bed	38.4	36.2 - 40.6	97,700		37.5	34.9 - 40.1	78,400		43.3	39.8 - 46.8	14,200	
Intended to breastfeed, before birth	91.5	90.3 - 92.6	232,400		91.9	90.6 - 93.2	191,900		89.0	86.8 - 91.2	29,200	
Intended to breastfeed exclusively, before birth	56.5	54.2 - 58.9	143,700		56.5	53.8 - 59.2	117,900		58.7	55.1 - 62.3	19,300	
Breastfeeding practices												
Any breastfeeding, 1 month after delivery	78.6	76.7 - 80.5	198,500		78.4	76.2 - 80.7	163,000		78.4	75.5 - 81.2	25,400	
Exclusive breastfeeding, 1 month after delivery	37.8	35.5 - 40.0	93,600		36.6	34.0 - 39.3	74,600		41.7	38.3 - 45.1	13,400	
Any breastfeeding, 3 months after delivery	58.0	55.3 - 60.7	116,900		58.3	55.2 - 61.4	97,600		56.8	52.6 - 61.0	13,800	
Exclusive breastfeeding, 3 months after delivery	20.1	18.0 - 22.1	40,000		19.4	17.1 - 21.7	32,000		24.1	20.8 - 27.4	5,900	



MIHA Data Snapshot, Prenatal WIC Participants by Geographical Area, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

	Prenatal WIC Participants				Prenatal WIC Participants								
	California				Urban			Rural/Frontier					
	%	95% CI		N	%	95% CI		N	%	95% CI		N	
Service Utilization and Health Insurance Coverage													
Had a usual source of pre-pregnancy care	62.1	59.9	- 64.4	160,700	61.5	58.8	- 64.2	130,800	66.3	63.1	- 69.4	22,000	
Initiated prenatal care in 1st trimester	85.6	84.1	- 87.2	218,500	86.2	84.4	- 87.9	181,200	84.6	82.0	- 87.1	27,700	
Had a postpartum medical visit	82.9	81.1	- 84.7	214,100	82.7	80.6	- 84.8	175,800	85.2	83.0	- 87.4	28,200	
Mom or infant needed but couldn't afford care postpartum	17.8	15.9	- 19.7	44,900	18.0	15.8	- 20.2	37,500	13.8	11.5	- 16.2	4,500	
Received CalFresh (food stamps) during pregnancy	42.0	39.7	- 44.3	108,300	41.7	39.0	- 44.3	88,300	44.3	40.8	- 47.7	14,700	
Pre-pregnancy insurance													
Medi-Cal	40.3	38.0	- 42.5	104,200	39.6	37.0	- 42.2	84,200	46.5	42.9	- 50.0	15,400	
Uninsured	37.2	34.9	- 39.5	96,200	37.4	34.7	- 40.1	79,500	33.9	30.6	- 37.2	11,300	
Private	18.5	16.7	- 20.3	47,800	19.0	17.0	- 21.1	40,400	15.0	12.9	- 17.1	5,000	
Prenatal insurance													
Medi-Cal	81.7	79.9	- 83.5	211,300	80.8	78.7	- 82.9	171,900	86.5	84.2	- 88.8	28,700	
Uninsured	1.6	1.0	- 2.2	4,100	1.6	0.9	- 2.4	3,500	1.2*	0.4	- 2.1	400	
Private	13.1	11.5	- 14.8	34,000	14.0	12.1	- 15.9	29,800	8.6	6.9	- 10.2	2,800	
Maternal postpartum insurance													
Medi-Cal	59.9	57.6	- 62.2	153,800	58.7	56.0	- 61.4	123,800	66.9	63.7	- 70.2	22,100	
Uninsured	22.5	20.5	- 24.5	57,700	23.0	20.6	- 25.4	48,600	18.7	15.9	- 21.4	6,200	
Private	14.8	13.2	- 16.5	38,000	15.6	13.7	- 17.5	32,900	11.2	9.3	- 13.1	3,700	
Infant health insurance													
Medi-Cal	84.6	82.9	- 86.3	214,500	84.0	82.1	- 86.0	175,500	88.7	86.6	- 90.7	28,900	
Uninsured	3.0	2.2	- 3.9	7,700	2.9	2.0	- 3.9	6,100	1.8	1.1	- 2.4	600	
Private	9.0	7.6	- 10.3	22,700	9.5	8.0	- 11.1	19,900	6.3	5.0	- 7.7	2,100	
Maternal Demographics													
Age													
15-19	9.8	8.4	- 11.2	25,400	9.7	8.1	- 11.2	20,600	10.5	8.6	- 12.3	3,500	
20-34	77.9	76.1	- 79.8	202,100	77.9	75.8	- 80.1	166,200	79.0	76.3	- 81.7	26,300	
35+	12.3	10.8	- 13.7	31,900	12.4	10.8	- 14.1	26,500	10.6	8.4	- 12.7	3,500	
Did not complete high school (or GED)	28.0	25.9	- 30.2	71,900	27.8	25.3	- 30.3	58,700	26.4	23.3	- 29.5	8,700	
Unmarried	61.5	59.2	- 63.8	158,600	62.4	59.8	- 65.1	132,500	56.6	53.0	- 60.2	18,700	
Race/Ethnicity													
Hispanic	70.8	68.9	- 72.6	181,600	70.8	68.6	- 73.0	149,200	67.7	64.6	- 70.8	22,500	
Black	7.7	7.1	- 8.3	19,700	8.5	7.8	- 9.2	17,900	2.5	1.8	- 3.3	800	
White	13.6	12.2	- 15.0	35,000	12.1	10.5	- 13.8	25,600	24.6	21.7	- 27.6	8,200	
Asian/Pacific Islander	7.3	6.0	- 8.7	18,800	8.2	6.7	- 9.8	17,400	3.4	2.1	- 4.7	1,100	
Born outside the U.S.	42.8	40.5	- 45.1	111,000	42.9	40.3	- 45.6	91,600	36.9	33.5	- 40.2	12,300	
Speaks non-English language at home	38.0	35.8	- 40.3	97,500	37.7	35.1	- 40.4	79,600	37.5	34.3	- 40.7	12,200	
Lives in a high poverty neighborhood	56.4	54.1	- 58.7	139,200	55.9	53.3	- 58.5	119,300	59.8	56.5	- 63.0	19,900	
Income as a percent of the Federal Poverty Guideline													
0-100%	69.6	67.5	- 71.8	168,400	70.0	67.6	- 72.5	139,300	68.3	64.9	- 71.6	21,200	
101-200%	26.3	24.2	- 28.3	63,500	25.7	23.3	- 28.1	51,100	28.0	24.7	- 31.3	8,700	
> 200%	4.1	3.2	- 4.9	9,900	4.3	3.2	- 5.3	8,500	3.7	2.6	- 4.9	1,200	

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents, were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (N), i.e., numerator of the percent rounded to the nearest hundred, are weighted to represent all women with a live birth who resided in California in 2013-2014. Population estimate (N) is a two-year average. California estimates reflect the entire population and may not equal the sum of subgroup categories due to missing data for a given characteristic. Urban and Rural/Frontier designations are based on the population size or densities of Medical Service Study Areas. See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



County Data Snapshots of Prenatal WIC Participants

“Para mi la ayuda que tiene WIC con las consejeras de amamentar fue lo mejor. Por favor sigan mejorando más ese programa, ayuda mucho.”

— MIHA 2014 Respondedora

Translation

“For me the help that WIC has with the breastfeeding counselors was the best. Please continue to improve this program, it helps so much.”

— MIHA 2014 Respondent

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MIHA Data Snapshot, Prenatal WIC Participants Alameda County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Alameda County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✓	93.2	90.2 - 96.2	7,300	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.6 *	0.5 - 4.6	200	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.3 *	0.3 - 4.2	200	2.5	2.0 - 3.1	6,400
Asthma†	♦	8.7	4.2 - 13.3	700	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✓	30.1	22.4 - 37.8	2,400	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	30.1	22.1 - 38.1	2,200	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	24.5	17.2 - 31.7	1,800	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	28.0	19.3 - 36.6	1,800	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	37.5	28.6 - 46.4	2,400	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	26.2	19.4 - 33.0	2,100	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	7.3	4.0 - 10.6	600	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	21.4	14.5 - 28.4	1,700	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	12.9	7.2 - 18.6	1,000	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	26.4	19.0 - 33.7	2,100	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	5.7	2.8 - 8.7	500	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	6.0	3.0 - 9.1	500	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	19.3	13.5 - 25.1	1,500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	17.4	11.3 - 23.6	1,400	14.7	13.1 - 16.2	37,600
Became separated or divorced	✓	5.3	2.8 - 7.8	400	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	3.5 *	1.2 - 5.9	300	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	9.2	5.6 - 12.7	700	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	4.6	2.0 - 7.2	400	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	6.5	3.4 - 9.6	500	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	9.9 *	3.6 - 16.1	800	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	6.0 *	2.2 - 9.8	500	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	33.1	25.2 - 41.1	2,600	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	16.4	11.1 - 21.6	1,300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	86.5	81.9 - 91.1	6,700	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	72.1	64.3 - 79.8	5,600	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	43.9	35.7 - 52.0	3,400	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	95.4 *	92.0 - 98.8	7,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	57.7	49.3 - 66.1	4,400	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	85.5	80.0 - 90.9	6,500	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	44.7	36.3 - 53.0	3,300	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	65.3	56.7 - 74.0	4,000	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	29.6	21.2 - 37.9	1,800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Alameda County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Alameda County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↑	76.9	69.5 - 84.3	6,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	86.2	80.2 - 92.2	6,700	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	84.1	78.6 - 89.7	6,700	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	18.5	11.5 - 25.4	1,400	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	38.4	30.9 - 45.9	3,000	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	47.8	39.7 - 55.9	3,700	40.3	38.0 - 42.5	104,200
Uninsured	↓	23.0	15.8 - 30.2	1,800	37.2	34.9 - 39.5	96,200
Private	♦	23.5	15.9 - 31.2	1,800	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	77.5	70.0 - 85.1	6,100	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↑	20.1	12.6 - 27.5	1,600	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	55.4	47.2 - 63.7	4,400	59.9	57.6 - 62.2	153,800
Uninsured	↓	13.4	8.5 - 18.3	1,100	22.5	20.5 - 24.5	57,700
Private	↑	26.9	18.4 - 35.4	2,100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	82.5	75.3 - 89.8	6,300	84.6	82.9 - 86.3	214,500
Uninsured	♦	4.7 *	0.8 - 8.7	400	3.0	2.2 - 3.9	7,700
Private	♦	11.8	5.4 - 18.3	900	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	6.8 *	2.5 - 11.2	500	9.8	8.4 - 11.2	25,400
20-34	♦	80.3	74.0 - 86.5	6,400	77.9	76.1 - 79.8	202,100
35+	♦	12.9	8.0 - 17.8	1,000	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)							
Unmarried	↓	25.1	17.9 - 32.4	1,900	28.0	25.9 - 30.2	71,900
Race/Ethnicity							
Hispanic	↓	49.3	41.4 - 57.1	3,700	70.8	68.9 - 72.6	181,600
Black	↑	18.6	15.1 - 22.1	1,400	7.7	7.1 - 8.3	19,700
White	♦	11.4	4.9 - 17.9	900	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↑	20.1	13.0 - 27.1	1,500	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	52.9	44.8 - 61.0	4,200	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	47.1	39.0 - 55.2	3,700	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood							
Lives in a high poverty neighborhood	↓	44.4	36.3 - 52.5	3,400	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	65.7	57.0 - 74.4	4,800	69.6	67.5 - 71.8	168,400
101-200%	♦	24.8	17.4 - 32.2	1,800	26.3	24.2 - 28.3	63,500
> 200%	↑	9.6 *	2.6 - 16.6	700	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Alameda County was 228.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Butte County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Butte County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	86.2	80.6 - 91.9	1,200	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†	✗	5.0	2.1 - 7.9	100	2.5	2.0 - 3.1	6,400
Asthma†	✗	12.7	8.2 - 17.2	200	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	24.5	18.7 - 30.4	300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	24.8	18.5 - 31.1	300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	24.7	18.5 - 30.9	300	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	13.9	8.7 - 19.2	200	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	50.8	43.1 - 58.4	600	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	26.4	19.8 - 32.9	400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	11.5	6.8 - 16.2	200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	19.4	13.4 - 25.4	300	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	18.6	13.2 - 24.1	300	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✗	38.9	32.0 - 45.9	500	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	5.1	2.1 - 8.0	100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	11.0	6.6 - 15.3	200	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.2	12.6 - 23.7	300	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	18.4	12.9 - 23.9	300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	8.9	4.5 - 13.3	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	3.9 *	1.3 - 6.6	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	34.9	28.1 - 41.7	500	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✗	15.4	10.3 - 20.4	200	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	26.1	19.9 - 32.4	400	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✗	20.9	15.4 - 26.5	300	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	5.0 *	1.4 - 8.7	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	31.3	24.5 - 38.1	400	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	20.2	14.5 - 25.9	300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	80.7	74.6 - 86.8	1,100	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	77.4	71.2 - 83.6	1,100	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	39.7	32.7 - 46.6	500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	87.0	82.6 - 91.3	1,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	65.6	58.7 - 72.4	900	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	79.7	74.2 - 85.3	1,100	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	57.1	50.1 - 64.2	800	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	57.3	48.8 - 65.8	500	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	31.1	23.0 - 39.1	300	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Butte County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Butte County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	55.6	48.7 - 62.6	800	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	81.6	75.7 - 87.5	1,100	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	87.0	82.5 - 91.5	1,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	15.0	9.3 - 20.6	200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	52.4	45.3 - 59.5	700	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	56.5	49.4 - 63.6	800	40.3	38.0 - 42.5	104,200
Uninsured	↓	21.2	15.5 - 27.0	300	37.2	34.9 - 39.5	96,200
Private	♦	17.9	12.1 - 23.7	200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	84.9	79.3 - 90.6	1,200	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	12.0	6.8 - 17.3	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	74.4	68.1 - 80.8	1,000	59.9	57.6 - 62.2	153,800
Uninsured	↓	10.1	6.0 - 14.2	100	22.5	20.5 - 24.5	57,700
Private	♦	14.6	9.1 - 20.1	200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	87.9	82.6 - 93.2	1,200	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	7.1	3.2 - 10.9	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.6	4.4 - 14.8	100	9.8	8.4 - 11.2	25,400
20-34	♦	83.1	77.1 - 89.2	1,200	77.9	76.1 - 79.8	202,100
35+	♦	7.3	3.4 - 11.1	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↓	17.5	11.4 - 23.5	200	28.0	25.9 - 30.2	71,900
Unmarried	♦	60.9	54.2 - 67.6	800	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	23.3	17.3 - 29.3	300	70.8	68.9 - 72.6	181,600
Black	↓	2.5	1.0 - 3.9	< 100	7.7	7.1 - 8.3	19,700
White	↑	62.2	55.5 - 69.0	900	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	9.7	5.7 - 13.7	100	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	14.8	10.0 - 19.5	200	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	13.5	8.7 - 18.4	200	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	59.8	52.8 - 66.8	800	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	67.5	60.9 - 74.1	900	69.6	67.5 - 71.8	168,400
101-200%	♦	25.9	19.8 - 32.1	400	26.3	24.2 - 28.3	63,500
> 200%	♦	6.6	2.8 - 10.3	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Butte County was 221.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Contra Costa County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Contra Costa County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	87.7	83.2 - 92.2	4,200	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	4.1 *	1.2 - 7.1	200	3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.1 *	0.9 - 5.2	100	2.5	2.0 - 3.1	6,400
Asthma†	♦	9.1	4.7 - 13.5	400	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	19.5	13.8 - 25.1	900	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.6	21.3 - 35.9	1,300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	29.4	21.8 - 37.0	1,300	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	20.3	13.5 - 27.1	800	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	44.8	36.2 - 53.5	1,700	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	23.3	17.4 - 29.3	1,100	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	13.3	7.3 - 19.3	600	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.6	14.0 - 27.2	1,000	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	✗	23.3	16.4 - 30.2	1,100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	31.5	24.5 - 38.6	1,400	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	8.0	3.8 - 12.1	400	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	12.7	7.4 - 18.1	600	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	22.7	16.3 - 29.2	1,100	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	18.1	11.5 - 24.7	800	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	14.8	8.4 - 21.1	700	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	3.9 *	1.1 - 6.8	200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	14.7	9.2 - 20.2	700	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	5.7 *	2.3 - 9.2	300	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	10.8	6.0 - 15.7	500	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	11.2	6.5 - 16.0	500	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.5 *	0.4 - 4.7	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	40.8	33.0 - 48.7	1,900	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	20.4	14.1 - 26.6	1,000	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	83.5	78.0 - 89.0	3,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	81.7	75.9 - 87.6	3,800	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	43.8	36.2 - 51.4	2,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	91.6	86.8 - 96.5	4,300	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	61.0	53.4 - 68.5	2,900	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	74.3	67.1 - 81.5	3,400	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	42.0	34.1 - 49.9	1,900	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	65.1	56.7 - 73.5	2,300	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	23.1	15.4 - 30.9	800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Contra Costa County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Contra Costa County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	66.5	59.5 - 73.5	3,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	81.8	76.1 - 87.5	3,800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	90.4	86.4 - 94.5	4,300	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.6	13.8 - 25.4	900	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	38.7	31.4 - 46.0	1,800	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	37.2	30.0 - 44.5	1,800	40.3	38.0 - 42.5	104,200
Uninsured	♦	30.2	23.2 - 37.3	1,400	37.2	34.9 - 39.5	96,200
Private	↑	30.6	22.9 - 38.2	1,400	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↓	72.4	65.2 - 79.6	3,400	81.7	79.9 - 83.5	211,300
Uninsured	♦	2.8 *	0.5 - 5.1	100	1.6	1.0 - 2.2	4,100
Private	↑	23.3	16.5 - 30.1	1,100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	59.6	51.8 - 67.3	2,800	59.9	57.6 - 62.2	153,800
Uninsured	↓	15.2	10.1 - 20.2	700	22.5	20.5 - 24.5	57,700
Private	↑	24.1	16.8 - 31.5	1,100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	79.1	72.1 - 86.1	3,600	84.6	82.9 - 86.3	214,500
Uninsured	♦	1.4 *	0.1 - 2.7	100	3.0	2.2 - 3.9	7,700
Private	↑	17.6	10.7 - 24.5	800	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	8.7	4.3 - 13.0	400	9.8	8.4 - 11.2	25,400
20-34	♦	75.7	69.3 - 82.1	3,600	77.9	76.1 - 79.8	202,100
35+	♦	15.7	10.4 - 20.9	700	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	26.6	20.0 - 33.1	1,300	28.0	25.9 - 30.2	71,900
Unmarried	♦	56.6	48.9 - 64.3	2,700	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	55.9	48.6 - 63.3	2,600	70.8	68.9 - 72.6	181,600
Black	↑	15.2	12.0 - 18.5	700	7.7	7.1 - 8.3	19,700
White	↑	20.1	13.9 - 26.2	900	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	8.7 *	3.4 - 14.0	400	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	48.5	41.1 - 56.0	2,300	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	42.4	35.0 - 49.8	2,000	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	49.7	41.9 - 57.5	2,300	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	61.1	52.7 - 69.4	2,600	69.6	67.5 - 71.8	168,400
101-200%	♦	28.2	20.4 - 36.0	1,200	26.3	24.2 - 28.3	63,500
> 200%	↑	10.7	5.0 - 16.5	500	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Contra Costa County was 233.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants El Dorado County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		El Dorado County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	92.1 *	87.1 - 97.1	500	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	9.2 *	3.6 - 14.8	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	23.5	15.0 - 32.1	100	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	27.8	18.6 - 36.9	100	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	18.1	11.4 - 24.8	100	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	9.3 *	3.6 - 15.0	< 100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	58.0	48.2 - 67.8	300	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	26.0	18.0 - 34.0	100	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.7	6.1 - 19.2	100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	13.7	7.7 - 19.7	100	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	10.1	5.2 - 15.0	100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	33.6	25.1 - 42.0	200	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	7.2 *	2.5 - 11.9	< 100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	14.4	8.4 - 20.5	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	20.4	13.0 - 27.8	100	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	18.0	10.7 - 25.3	100	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	10.1 *	4.0 - 16.3	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support		--			6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	38.1	28.7 - 47.6	200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✗	17.0	9.1 - 24.9	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	25.4	17.2 - 33.7	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	20.5	12.8 - 28.2	100	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	4.7 *	0.7 - 8.6	< 100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	35.3	26.0 - 44.6	200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	20.1	12.3 - 27.9	100	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	85.0	78.8 - 91.2	500	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	76.1	68.3 - 83.9	400	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	40.7	31.8 - 49.6	200	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	96.3 *	93.0 - 99.6	500	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	77.7	69.5 - 85.8	400	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	83.2	75.8 - 90.6	500	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	64.6	54.9 - 74.4	400	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	64.7	53.9 - 75.5	300	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	36.6	25.5 - 47.6	100	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants El Dorado County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		El Dorado County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	66.8	58.1 - 75.5	400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	90.3	84.9 - 95.8	500	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	90.8 *	85.3 - 96.2	500	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.6	12.0 - 27.3	100	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	37.0	27.5 - 46.5	200	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	33.1	24.3 - 41.9	200	40.3	38.0 - 42.5	104,200
Uninsured	♦	30.1	20.8 - 39.4	200	37.2	34.9 - 39.5	96,200
Private	↑	33.7	24.5 - 42.8	200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	74.5	66.4 - 82.5	400	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↑	21.8	14.1 - 29.4	100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	58.6	49.4 - 67.8	300	59.9	57.6 - 62.2	153,800
Uninsured	↓	13.5	7.4 - 19.6	100	22.5	20.5 - 24.5	57,700
Private	↑	26.5	18.0 - 35.0	100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	83.5	77.0 - 90.0	500	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	12.4	6.5 - 18.4	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.4 *	3.7 - 15.0	100	9.8	8.4 - 11.2	25,400
20-34	♦	82.9	75.7 - 90.0	500	77.9	76.1 - 79.8	202,100
35+	♦	7.8 *	2.8 - 12.8	< 100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↓	11.1	5.3 - 17.0	100	28.0	25.9 - 30.2	71,900
Unmarried	♦	53.9	44.1 - 63.7	300	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	27.1	18.4 - 35.8	200	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	62.3	53.0 - 71.6	400	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	22.8	14.4 - 31.3	100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	19.0	11.3 - 26.7	100	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	11.5	5.7 - 17.3	100	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	50.6	40.4 - 60.7	300	69.6	67.5 - 71.8	168,400
101-200%	↑	46.2	36.0 - 56.4	200	26.3	24.2 - 28.3	63,500
> 200%	♦	3.2	1.3 - 5.1	< 100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in El Dorado County was 118.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Fresno County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Fresno County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	86.5	80.4 - 92.6	9,300	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.3 *	0.5 - 6.2	400	2.5	2.0 - 3.1	6,400
Asthma†	♦	10.8	5.5 - 16.1	1,200	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	23.2	15.6 - 30.9	2,500	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	26.5	18.7 - 34.3	2,700	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	28.6	20.4 - 36.8	2,900	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	17.9	10.2 - 25.7	1,600	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	37.1	28.0 - 46.1	3,300	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	21.2	14.5 - 27.8	2,300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	6.1	2.9 - 9.4	700	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	12.4	6.9 - 18.0	1,300	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	✓	10.0	5.4 - 14.6	1,100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	35.2	26.7 - 43.6	3,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.1 *	0.4 - 7.9	400	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	6.7	2.8 - 10.7	700	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	14.0	8.0 - 20.0	1,500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	13.0	6.8 - 19.3	1,400	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	10.3	4.8 - 15.7	1,100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	3.3 *	0.1 - 6.5	400	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	16.1	9.5 - 22.6	1,700	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	4.2 *	1.1 - 7.3	500	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	6.1 *	2.2 - 10.0	700	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	13.2	7.1 - 19.4	1,400	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	✓	1.7 *	0.2 - 3.2	200	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	28.6	20.7 - 36.4	3,100	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	21.6	14.3 - 28.9	2,300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	80.1	72.7 - 87.5	8,400	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	81.8	75.3 - 88.3	8,800	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	44.4	35.8 - 53.0	4,800	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	85.0	79.1 - 91.0	9,100	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✗	47.8	39.0 - 56.6	5,100	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✗	71.7	64.2 - 79.2	7,600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✗	25.9	18.4 - 33.3	2,700	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	48.8	38.5 - 59.0	3,800	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	12.8	6.3 - 19.2	1,000	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Fresno County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Fresno County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	60.5	52.0 - 69.1	6,500	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	87.2	82.2 - 92.2	9,300	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	79.2	72.0 - 86.5	8,500	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	↓	8.4	3.5 - 13.3	900	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	60.1	51.4 - 68.9	6,400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	55.0	46.2 - 63.7	5,900	40.3	38.0 - 42.5	104,200
Uninsured	♦	35.0	26.5 - 43.6	3,800	37.2	34.9 - 39.5	96,200
Private	↓	9.7	4.8 - 14.7	1,100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	95.2	92.5 - 98.0	10,300	81.7	79.9 - 83.5	211,300
Uninsured					1.6	1.0 - 2.2	4,100
Private	↓	3.7 *	1.3 - 6.1	400	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	78.3	70.7 - 86.0	8,400	59.9	57.6 - 62.2	153,800
Uninsured	♦	14.7	7.9 - 21.4	1,600	22.5	20.5 - 24.5	57,700
Private	↓	6.3 *	1.9 - 10.6	700	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	93.8	90.2 - 97.4	10,000	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	4.8 *	1.7 - 8.0	500	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.9	6.5 - 17.4	1,300	9.8	8.4 - 11.2	25,400
20-34	♦	79.2	71.7 - 86.7	8,500	77.9	76.1 - 79.8	202,100
35+	♦	8.9 *	3.0 - 14.9	1,000	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	30.7	22.4 - 39.1	3,200	28.0	25.9 - 30.2	71,900
Unmarried	♦	65.9	57.5 - 74.2	7,100	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	76.1	69.0 - 83.2	8,200	70.8	68.9 - 72.6	181,600
Black	♦	6.5	5.2 - 7.7	700	7.7	7.1 - 8.3	19,700
White	♦	8.9	3.7 - 14.1	1,000	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	7.8 *	2.4 - 13.3	800	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	38.5	29.9 - 47.1	4,100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	41.2	32.4 - 50.1	4,400	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	89.2	84.1 - 94.4	9,200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↑	79.5	72.0 - 87.0	8,300	69.6	67.5 - 71.8	168,400
101-200%	↓	17.0	9.8 - 24.2	1,800	26.3	24.2 - 28.3	63,500
> 200%	♦	3.5 *	0.6 - 6.3	400	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Fresno County was 213.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Humboldt County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Humboldt County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	86.1	79.4 - 92.9	700	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	7.5 *	0.9 - 14.2	100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	5.1 *	1.4 - 8.8	< 100	2.5	2.0 - 3.1	6,400
Asthma†	✗	17.2	9.9 - 24.5	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✗	15.9	10.2 - 21.6	100	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	29.1	20.6 - 37.6	200	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	28.0	19.6 - 36.4	200	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	6.4	3.2 - 9.7	< 100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	52.4	42.6 - 62.1	300	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	25.0	17.8 - 32.1	200	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	14.0	8.2 - 19.7	100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	18.3	10.8 - 25.7	100	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	20.0	12.4 - 27.5	200	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✗	43.8	34.9 - 52.7	300	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	2.0 *	0.2 - 3.8	< 100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	7.5	4.0 - 11.0	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.9	12.9 - 24.9	100	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	18.4	12.8 - 24.1	100	14.7	13.1 - 16.2	37,600
Became separated or divorced	✗	17.6	10.5 - 24.6	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	✓	2.5 *	0.7 - 4.4	< 100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	31.6	23.0 - 40.2	300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✗	14.3	8.1 - 20.6	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	17.2	10.2 - 24.3	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✗	22.6	15.4 - 29.8	200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	✗	10.5	4.9 - 16.1	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	30.0	22.1 - 37.8	200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	19.6	12.2 - 26.9	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	81.6	74.2 - 89.0	600	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	76.0	68.6 - 83.3	600	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	59.2	50.8 - 67.7	500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	89.6	84.8 - 94.5	700	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	74.8	67.6 - 82.0	600	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	82.5	76.2 - 88.8	600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	49.6	40.6 - 58.6	400	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	70.6	61.8 - 79.4	400	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	33.0	23.1 - 42.8	200	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Humboldt County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Humboldt County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	67.7	59.8 - 75.5	500	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	82.8	75.4 - 90.2	600	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	94.2	90.9 - 97.5	800	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	↓	10.6	5.7 - 15.4	100	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	56.3	48.1 - 64.4	400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	52.6	44.1 - 61.1	400	40.3	38.0 - 42.5	104,200
Uninsured	↓	26.6	20.4 - 32.8	200	37.2	34.9 - 39.5	96,200
Private	♦	18.7	11.1 - 26.3	100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	90.6	86.7 - 94.5	700	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↓	6.1	3.0 - 9.1	< 100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	73.5	67.1 - 79.9	600	59.9	57.6 - 62.2	153,800
Uninsured	↓	15.0	9.8 - 20.3	100	22.5	20.5 - 24.5	57,700
Private	♦	10.4	6.0 - 14.8	100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	95.3	92.6 - 98.0	800	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	↓	2.5 *	0.6 - 4.5	< 100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.9	5.6 - 18.2	100	9.8	8.4 - 11.2	25,400
20-34	♦	78.1	70.7 - 85.4	600	77.9	76.1 - 79.8	202,100
35+	♦	10.0	5.9 - 14.1	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	20.3	12.9 - 27.7	200	28.0	25.9 - 30.2	71,900
Unmarried	↑	70.9	64.4 - 77.3	600	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	23.9	15.9 - 31.9	200	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	59.3	51.1 - 67.5	500	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	6.1 *	1.9 - 10.2	< 100	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	14.2	8.6 - 19.8	100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	10.0	5.4 - 14.6	100	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	46.9	37.5 - 56.3	300	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	66.9	58.7 - 75.0	500	69.6	67.5 - 71.8	168,400
101-200%	♦	29.0	21.1 - 36.9	200	26.3	24.2 - 28.3	63,500
> 200%	♦	4.2 *	1.4 - 7.0	< 100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

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Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Humboldt County was 190.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Imperial County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Imperial County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	85.1	79.3 - 91.0	1,700	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.5 *	0.5 - 6.6	100	2.5	2.0 - 3.1	6,400
Asthma†	♦	10.0	4.9 - 15.0	200	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	23.4	16.8 - 30.1	500	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	33.2	25.2 - 41.2	600	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	28.7	21.1 - 36.3	500	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	23.4	15.6 - 31.3	300	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	46.7	37.7 - 55.6	700	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	21.4	15.5 - 27.2	400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	7.8	4.0 - 11.7	200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	21.1	14.6 - 27.6	400	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	17.0	11.0 - 23.0	300	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	30.1	22.6 - 37.7	600	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	8.2	4.3 - 12.0	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	13.1	7.9 - 18.3	300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	20.8	14.7 - 26.9	400	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.6	10.5 - 22.6	300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.0	6.5 - 15.5	200	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	6.0 *	2.4 - 9.7	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	14.2	8.9 - 19.5	300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	5.5 *	1.9 - 9.1	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	4.5 *	1.1 - 7.9	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	15.3	9.7 - 20.9	300	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	4.9 *	0.8 - 9.1	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	35.4	28.2 - 42.6	700	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	12.0	7.1 - 16.8	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	✓	89.8	85.3 - 94.3	1,800	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	72.2	65.5 - 78.9	1,400	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	44.9	37.1 - 52.7	900	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.2	88.4 - 96.0	1,800	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✗	45.1	37.4 - 52.8	900	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	78.2	71.9 - 84.5	1,500	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✗	29.3	22.0 - 36.6	600	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	50.4	41.7 - 59.0	700	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✗	8.5	4.3 - 12.6	100	20.1	18.0 - 22.1	40,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health Division and the Women, Infants and Children Division in the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco.



MIHA Data Snapshot, Prenatal WIC Participants Imperial County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Imperial County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	56.7	49.2 - 64.2	1,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↓	80.0	73.9 - 86.0	1,600	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	86.7	81.5 - 92.0	1,700	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	↓	10.6	6.0 - 15.2	200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	46.5	38.9 - 54.1	900	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	45.3	37.5 - 53.0	900	40.3	38.0 - 42.5	104,200
Uninsured	♦	34.5	27.6 - 41.5	700	37.2	34.9 - 39.5	96,200
Private	♦	17.3	11.2 - 23.5	300	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	86.4	81.2 - 91.7	1,700	81.7	79.9 - 83.5	211,300
Uninsured	♦	3.0 *	0.7 - 5.4	100	1.6	1.0 - 2.2	4,100
Private	↓	6.9	3.0 - 10.9	100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	78.5	72.1 - 85.0	1,600	59.9	57.6 - 62.2	153,800
Uninsured	↓	13.2	7.8 - 18.6	300	22.5	20.5 - 24.5	57,700
Private	↓	7.1	3.1 - 11.1	100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	86.3	80.4 - 92.1	1,700	84.6	82.9 - 86.3	214,500
Uninsured	↑	6.9 *	2.1 - 11.7	100	3.0	2.2 - 3.9	7,700
Private	♦	5.7 *	2.0 - 9.4	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	14.2	9.2 - 19.3	300	9.8	8.4 - 11.2	25,400
20-34	♦	75.8	68.8 - 82.7	1,500	77.9	76.1 - 79.8	202,100
35+	♦	10.0	4.3 - 15.8	200	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	24.9	17.8 - 31.9	500	28.0	25.9 - 30.2	71,900
Unmarried	♦	59.5	51.7 - 67.3	1,200	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	95.2	92.5 - 97.9	1,900	70.8	68.9 - 72.6	181,600
Black	↓	2.1	1.0 - 3.2	< 100	7.7	7.1 - 8.3	19,700
White		--			13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	37.2	29.9 - 44.5	700	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	53.2	45.5 - 61.0	1,100	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	58.1	50.2 - 66.0	1,000	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↑	79.1	72.6 - 85.5	1,500	69.6	67.5 - 71.8	168,400
101-200%	↓	17.4	11.2 - 23.5	300	26.3	24.2 - 28.3	63,500
> 200%	♦	3.5 *	1.0 - 6.0	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Imperial County was 208.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Kern County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Kern County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.6	82.6 - 94.5	9,000	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	✓	0.9 *	0.1 - 1.7	100	3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	4.8 *	0.6 - 8.9	500	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✓	30.4	22.3 - 38.5	3,100	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.8	20.7 - 37.0	2,600	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	28.3	20.7 - 35.9	2,600	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	22.4	13.4 - 31.4	1,700	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	49.8	40.2 - 59.5	3,900	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	25.1	17.4 - 32.8	2,500	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.0	4.2 - 13.8	900	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	19.0	12.2 - 25.9	1,900	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	18.1	11.4 - 24.8	1,800	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	29.3	21.3 - 37.2	2,900	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	2.2 *	0.8 - 3.6	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	7.1	3.5 - 10.6	700	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	19.5	12.8 - 26.3	2,000	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	14.2	8.3 - 20.0	1,400	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.1	6.6 - 15.6	1,100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.4 *	1.1 - 7.7	400	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	13.3	7.6 - 18.9	1,300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	7.2 *	2.8 - 11.5	700	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	10.3	5.4 - 15.2	1,000	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	14.7	8.6 - 20.7	1,500	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	41.3	32.9 - 49.7	4,100	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	16.5	10.4 - 22.7	1,700	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	83.8	77.6 - 89.9	8,200	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	✗	69.0	61.0 - 77.0	6,800	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	33.8	25.6 - 42.0	3,300	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	85.0	79.3 - 90.7	8,400	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✗	47.6	39.1 - 56.2	4,700	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✗	67.1	59.2 - 75.1	6,600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	35.9	27.6 - 44.1	3,500	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✗	45.9	36.2 - 55.6	3,600	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	17.1	10.2 - 24.0	1,400	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Kern County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Kern County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	62.8	54.5 - 71.0	6,400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↓	78.0	70.9 - 85.0	7,800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	84.6	79.1 - 90.2	8,600	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	11.9	6.1 - 17.7	1,200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	46.8	38.4 - 55.1	4,800	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	50.4	41.9 - 58.8	5,100	40.3	38.0 - 42.5	104,200
Uninsured	♦	30.2	22.2 - 38.1	3,100	37.2	34.9 - 39.5	96,200
Private	♦	16.5	10.8 - 22.2	1,700	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	79.6	73.1 - 86.2	8,000	81.7	79.9 - 83.5	211,300
Uninsured	↑	5.8 *	1.8 - 9.8	600	1.6	1.0 - 2.2	4,100
Private	♦	11.7	6.9 - 16.6	1,200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	59.8	51.5 - 68.2	6,100	59.9	57.6 - 62.2	153,800
Uninsured	♦	21.9	14.4 - 29.3	2,200	22.5	20.5 - 24.5	57,700
Private	♦	16.3	10.3 - 22.4	1,700	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	85.4	79.4 - 91.3	8,300	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	8.7	4.6 - 12.8	800	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.8	6.5 - 17.1	1,200	9.8	8.4 - 11.2	25,400
20-34	♦	78.5	71.6 - 85.4	8,000	77.9	76.1 - 79.8	202,100
35+	♦	9.7	4.6 - 14.8	1,000	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	25.0	17.4 - 32.5	2,500	28.0	25.9 - 30.2	71,900
Unmarried	♦	63.4	55.1 - 71.6	6,400	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	74.6	67.9 - 81.4	7,600	70.8	68.9 - 72.6	181,600
Black	♦	6.2	4.8 - 7.6	600	7.7	7.1 - 8.3	19,700
White	♦	16.7	10.5 - 22.9	1,700	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	33.2	24.8 - 41.6	3,400	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	32.1	23.8 - 40.4	3,300	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	67.4	59.1 - 75.7	6,500	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	70.1	62.0 - 78.2	6,600	69.6	67.5 - 71.8	168,400
101-200%	♦	27.0	19.0 - 34.9	2,500	26.3	24.2 - 28.3	63,500
> 200%	♦	2.9 *	0.5 - 5.3	300	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Kern County was 215.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Kings County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Kings County				California			
		Prenatal WIC Participants				Prenatal WIC Participants			
		%	95% CI	Population Estimate		%	95% CI	Population Estimate	
Health Status Before Pregnancy									
In good to excellent health	♦	87.5	83.4 - 91.7	1,600	88.7	87.2 - 90.2	229,700		
Chronic conditions									
Diabetes†	✗	5.6	3.4 - 7.7	100	3.2	2.4 - 4.0	8,100		
Hypertension†	♦	1.9 *	0.3 - 3.6	< 100	2.5	2.0 - 3.1	6,400		
Asthma†	♦	8.6	5.4 - 11.9	200	8.4	7.2 - 9.5	21,100		
Nutrition and Weight									
Daily folic acid use, month before pregnancy	♦	27.5	21.5 - 33.5	500	22.9	21.0 - 24.8	59,100		
Overweight before pregnancy	♦	30.4	24.1 - 36.8	500	28.5	26.2 - 30.7	68,100		
Obese before pregnancy	♦	29.0	23.0 - 34.9	500	25.6	23.5 - 27.7	61,200		
Inadequate weight gain during pregnancy	♦	20.2	14.6 - 25.8	300	20.8	18.5 - 23.1	43,400		
Excessive weight gain during pregnancy	♦	45.6	38.3 - 52.9	600	39.0	36.5 - 41.5	81,300		
Food insecurity during pregnancy	♦	24.6	18.9 - 30.2	400	25.5	23.5 - 27.6	65,600		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical or psychological IPV during pregnancy	✗	18.5	13.6 - 23.4	300	10.0	8.6 - 11.4	25,900		
Prenatal depressive symptoms	♦	22.0	16.5 - 27.5	400	18.6	16.7 - 20.4	48,000		
Postpartum depressive symptoms	♦	19.7	14.2 - 25.2	300	15.8	14.1 - 17.5	40,800		
Hardships and Support during Pregnancy									
Experienced two or more hardships during childhood	♦	31.9	25.8 - 38.0	600	30.8	28.7 - 33.0	78,300		
Homeless or did not have a regular place to sleep	♦	3.9 *	1.6 - 6.3	100	3.8	3.1 - 4.5	9,800		
Moved due to problems paying rent or mortgage	♦	8.5	4.9 - 12.1	200	9.8	8.4 - 11.2	25,300		
Woman or partner lost job	♦	18.0	12.8 - 23.3	300	20.8	18.9 - 22.7	53,200		
Woman or partner had pay or hours cut back	♦	10.8	6.9 - 14.7	200	14.7	13.1 - 16.2	37,600		
Became separated or divorced	♦	14.1	9.5 - 18.7	300	11.2	9.7 - 12.7	28,800		
Had no practical or emotional support	✓	3.0 *	1.1 - 4.9	100	6.3	5.1 - 7.6	16,400		
Substance Use									
Any smoking, 3 months before pregnancy	♦	17.2	12.4 - 22.0	300	13.0	11.5 - 14.5	33,600		
Any smoking, 3rd trimester†	♦	5.0	2.7 - 7.3	100	3.9	3.0 - 4.7	10,100		
Any smoking, postpartum	✗	9.7	6.9 - 12.6	200	6.8	5.8 - 7.8	17,500		
Any binge drinking, 3 months before pregnancy	♦	14.4	9.7 - 19.2	300	14.1	12.5 - 15.7	36,100		
Any alcohol use, 3rd trimester†	♦	4.0 *	1.3 - 6.6	100	4.1	3.0 - 5.2	10,600		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	♦	42.3	35.8 - 48.9	700	41.0	38.7 - 43.4	105,800		
Unsure of pregnancy intentions	♦	16.1	11.6 - 20.5	300	15.8	14.1 - 17.4	40,700		
Postpartum birth control use†	♦	81.2	76.0 - 86.4	1,400	84.2	82.6 - 85.8	211,900		
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	✗	64.8	58.2 - 71.3	1,100	76.5	74.5 - 78.5	194,800		
Infant always or often shared bed	✗	50.8	44.0 - 57.5	900	38.4	36.2 - 40.6	97,700		
Intended to breastfeed, before birth	♦	90.0	86.2 - 93.9	1,500	91.5	90.3 - 92.6	232,400		
Intended to breastfeed exclusively, before birth	♦	56.4	49.7 - 63.2	1,000	56.5	54.2 - 58.9	143,700		
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	♦	74.3	68.6 - 80.0	1,200	78.6	76.7 - 80.5	198,500		
Exclusive breastfeeding, 1 month after delivery	♦	40.7	34.0 - 47.4	700	37.8	35.5 - 40.0	93,600		
Any breastfeeding, 3 months after delivery	♦	51.8	44.4 - 59.2	700	58.0	55.3 - 60.7	116,900		
Exclusive breastfeeding, 3 months after delivery	♦	16.9	11.4 - 22.4	200	20.1	18.0 - 22.1	40,000		



MIHA Data Snapshot, Prenatal WIC Participants Kings County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

	Kings County				California			
	Prenatal WIC Participants			Population Estimate	Prenatal WIC Participants			Population Estimate
	%	95% CI			%	95% CI		
Health Care Utilization and Public Program Participation								
Had a usual source of pre-pregnancy care	↑	71.2	65.4 - 77.1	1,300	62.1	59.9 - 64.4	160,700	
Initiated prenatal care in 1st trimester	♦	83.1	78.2 - 88.0	1,400	85.6	84.1 - 87.2	218,500	
Had a postpartum medical visit	↓	75.6	70.0 - 81.2	1,300	82.9	81.1 - 84.7	214,100	
Mom or infant needed but couldn't afford care postpartum	♦	13.5	8.6 - 18.3	200	17.8	15.9 - 19.7	44,900	
Received CalFresh (food stamps) during pregnancy	♦	43.6	37.2 - 50.1	800	42.0	39.7 - 44.3	108,300	
Health Insurance Coverage								
Pre-pregnancy insurance								
Medi-Cal	♦	46.8	40.3 - 53.4	800	40.3	38.0 - 42.5	104,200	
Uninsured	↓	25.8	19.9 - 31.6	500	37.2	34.9 - 39.5	96,200	
Private	♦	13.9	9.5 - 18.2	200	18.5	16.7 - 20.3	47,800	
Prenatal insurance								
Medi-Cal	↓	74.3	68.3 - 80.4	1,300	81.7	79.9 - 83.5	211,300	
Uninsured	♦	2.8 *	0.1 - 5.5	< 100	1.6	1.0 - 2.2	4,100	
Private	♦	9.9	6.2 - 13.6	200	13.1	11.5 - 14.8	34,000	
Maternal postpartum insurance								
Medi-Cal	♦	62.8	56.3 - 69.2	1,100	59.9	57.6 - 62.2	153,800	
Uninsured	↓	12.0	7.9 - 16.2	200	22.5	20.5 - 24.5	57,700	
Private	♦	11.5	7.4 - 15.5	200	14.8	13.2 - 16.5	38,000	
Infant health insurance								
Medi-Cal	↓	78.7	72.9 - 84.5	1,300	84.6	82.9 - 86.3	214,500	
Uninsured	♦	1.7 *	0.2 - 3.3	< 100	3.0	2.2 - 3.9	7,700	
Private	♦	5.5	2.5 - 8.4	100	9.0	7.6 - 10.3	22,700	
Maternal Demographics								
Age								
15-19	♦	11.4	7.3 - 15.5	200	9.8	8.4 - 11.2	25,400	
20-34	♦	79.8	74.3 - 85.2	1,400	77.9	76.1 - 79.8	202,100	
35+	♦	8.9	4.8 - 13.0	200	12.3	10.8 - 13.7	31,900	
Did not complete high school (or GED)								
Unmarried	♦	21.9	16.4 - 27.4	400	28.0	25.9 - 30.2	71,900	
Race/Ethnicity								
Hispanic	♦	60.1	53.7 - 66.6	1,100	61.5	59.2 - 63.8	158,600	
Black	↓	74.6	69.1 - 80.1	1,300	70.8	68.9 - 72.6	181,600	
White	♦	5.2	4.0 - 6.5	100	7.7	7.1 - 8.3	19,700	
Asian/Pacific Islander	♦	17.3	12.0 - 22.7	300	13.6	12.2 - 15.0	35,000	
Nativity and Language								
Born outside the U.S.	↓	--	--	--	7.3	6.0 - 8.7	18,800	
Speaks non-English language at home	↓	27.8	21.9 - 33.7	500	42.8	40.5 - 45.1	111,000	
Lives in a high poverty neighborhood								
Income as a percent of the Federal Poverty Guideline	↑	65.8	58.9 - 72.7	1,000	56.4	54.1 - 58.7	139,200	
Income as a percent of the Federal Poverty Guideline								
0-100%	♦	67.7	61.3 - 74.1	1,100	69.6	67.5 - 71.8	168,400	
101-200%	♦	27.0	20.8 - 33.1	400	26.3	24.2 - 28.3	63,500	
> 200%	♦	5.3	2.6 - 8.1	100	4.1	3.2 - 4.9	9,900	

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Kings County was 244.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Los Angeles County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Los Angeles County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	89.1	85.0 - 93.2	66,600	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.9 *	0.7 - 5.2	2,200	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.0 *	0.6 - 3.4	1,400	2.5	2.0 - 3.1	6,400
Asthma†	♦	6.7	3.7 - 9.6	4,800	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✗	18.7	13.7 - 23.6	13,900	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.9	22.9 - 34.9	19,900	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	24.4	18.6 - 30.1	16,800	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	24.3	18.2 - 30.4	15,000	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✓	33.1	26.6 - 39.6	20,500	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	24.3	18.8 - 29.9	17,900	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	8.8	5.3 - 12.3	6,600	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	18.6	13.6 - 23.5	13,800	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	16.1	11.3 - 20.9	12,000	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	26.7	21.2 - 32.2	19,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✓	2.3 *	0.8 - 3.8	1,700	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	8.7	5.2 - 12.3	6,500	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	22.5	17.2 - 27.8	16,600	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	12.2	8.1 - 16.3	9,000	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	12.5	8.4 - 16.5	9,300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	8.5	4.9 - 12.2	6,400	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	12.3	8.3 - 16.4	9,200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	3.2 *	0.9 - 5.5	2,400	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	4.6	1.9 - 7.2	3,400	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	13.8	9.4 - 18.2	10,200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	5.6	2.5 - 8.7	4,200	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	45.3	38.9 - 51.7	33,700	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	13.1	8.9 - 17.3	9,700	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	85.8	81.7 - 89.8	62,200	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	73.1	67.5 - 78.7	53,900	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	33.9	28.0 - 39.8	24,800	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	93.9	91.1 - 96.7	68,100	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	55.0	48.6 - 61.3	39,900	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	78.9	73.7 - 84.1	57,600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✗	31.3	25.4 - 37.3	22,600	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	57.1	50.1 - 64.1	35,100	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✗	15.7	10.5 - 20.8	9,500	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Los Angeles County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Los Angeles County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	59.7	53.4 - 66.0	44,600	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↑	89.3	85.4 - 93.2	66,100	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	80.4	75.5 - 85.4	60,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	20.2	14.8 - 25.5	14,700	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↓	37.0	30.8 - 43.1	27,500	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	38.0	31.9 - 44.1	28,400	40.3	38.0 - 42.5	104,200
Uninsured	♦	40.2	33.9 - 46.5	30,000	37.2	34.9 - 39.5	96,200
Private	♦	18.9	14.0 - 23.7	14,100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	80.6	75.6 - 85.6	60,200	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	15.5	11.0 - 20.0	11,500	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	59.8	53.5 - 66.1	44,200	59.9	57.6 - 62.2	153,800
Uninsured	♦	24.7	19.1 - 30.4	18,300	22.5	20.5 - 24.5	57,700
Private	♦	14.7	10.3 - 19.1	10,900	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	83.7	79.2 - 88.2	61,700	84.6	82.9 - 86.3	214,500
Uninsured	♦	4.1 *	1.6 - 6.7	3,000	3.0	2.2 - 3.9	7,700
Private	♦	10.4	6.8 - 14.0	7,700	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.7	5.9 - 13.5	7,200	9.8	8.4 - 11.2	25,400
20-34	♦	77.2	72.1 - 82.2	57,700	77.9	76.1 - 79.8	202,100
35+	♦	13.2	9.4 - 17.0	9,900	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	33.1	27.1 - 39.1	24,700	28.0	25.9 - 30.2	71,900
Unmarried	♦	64.2	58.0 - 70.4	48,000	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	77.1	72.4 - 81.8	57,200	70.8	68.9 - 72.6	181,600
Black	↑	9.1	7.5 - 10.6	6,700	7.7	7.1 - 8.3	19,700
White	↓	5.5	2.5 - 8.6	4,100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	8.1	4.4 - 11.7	6,000	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	47.7	41.4 - 54.0	35,700	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	39.7	33.4 - 45.9	29,200	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	65.0	58.8 - 71.2	46,900	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	71.9	66.2 - 77.6	49,900	69.6	67.5 - 71.8	168,400
101-200%	♦	25.6	20.0 - 31.1	17,800	26.3	24.2 - 28.3	63,500
> 200%	♦	2.5 *	0.5 - 4.5	1,800	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Los Angeles County was 332.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Madera County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Madera County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✗	84.7	80.6 - 88.8	1,500	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.4 *	0.8 - 3.9	< 100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.7 *	0.4 - 4.9	< 100	2.5	2.0 - 3.1	6,400
Asthma†	♦	9.6	6.5 - 12.7	200	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	20.7	16.0 - 25.5	400	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	25.2	19.8 - 30.7	400	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	30.6	24.5 - 36.6	500	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	21.5	15.4 - 27.7	300	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	44.7	37.8 - 51.7	600	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	✗	33.2	27.4 - 39.1	600	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	11.3	6.9 - 15.7	200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	16.6	12.4 - 20.8	300	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	15.5	11.1 - 19.8	300	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	32.6	27.0 - 38.2	600	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	3.2 *	1.2 - 5.1	100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	8.5	5.4 - 11.7	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	✗	26.6	21.3 - 32.0	500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	15.1	10.4 - 19.7	300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	7.8	4.6 - 11.0	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	7.0	4.3 - 9.7	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	9.9	6.7 - 13.2	200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	2.1 *	0.1 - 4.0	< 100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	4.5	2.1 - 6.9	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	11.8	7.6 - 16.1	200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	1.8 *	0.1 - 3.5	< 100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	39.2	33.3 - 45.1	700	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	16.3	12.0 - 20.7	300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	86.6	82.5 - 90.8	1,500	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	79.5	74.6 - 84.4	1,400	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	57.9	52.0 - 63.9	1,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	94.2	91.7 - 96.8	1,600	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	63.9	58.2 - 69.5	1,100	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	78.7	73.4 - 83.9	1,300	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	42.3	36.2 - 48.5	700	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	62.0	54.9 - 69.2	800	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	23.3	17.3 - 29.4	300	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Madera County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Madera County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	65.9	60.3 - 71.5	1,200	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	83.4	78.8 - 87.9	1,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	78.1	73.2 - 83.0	1,400	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	17.4	13.0 - 21.7	300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	49.8	43.7 - 55.9	900	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	52.6	46.5 - 58.6	900	40.3	38.0 - 42.5	104,200
Uninsured	♦	32.2	26.5 - 37.9	600	37.2	34.9 - 39.5	96,200
Private	♦	13.8	9.0 - 18.6	200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	88.5	84.2 - 92.8	1,500	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	9.6	5.6 - 13.7	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	72.2	66.3 - 78.0	1,300	59.9	57.6 - 62.2	153,800
Uninsured	↓	16.3	11.6 - 20.9	300	22.5	20.5 - 24.5	57,700
Private	♦	11.4	6.8 - 15.9	200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	88.7	84.5 - 93.0	1,500	84.6	82.9 - 86.3	214,500
Uninsured	♦	1.6 *	0.3 - 3.0	< 100	3.0	2.2 - 3.9	7,700
Private	♦	8.5	4.5 - 12.5	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.8	7.6 - 16.1	200	9.8	8.4 - 11.2	25,400
20-34	♦	75.8	70.4 - 81.2	1,300	77.9	76.1 - 79.8	202,100
35+	♦	12.4	8.3 - 16.5	200	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	36.6	30.9 - 42.3	600	28.0	25.9 - 30.2	71,900
Unmarried	♦	55.5	49.6 - 61.5	1,000	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	83.4	79.0 - 87.7	1,500	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	♦	13.3	9.1 - 17.4	200	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	43.3	37.5 - 49.1	800	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	39.8	34.0 - 45.5	700	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	73.3	67.7 - 78.9	1,200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↑	76.7	71.3 - 82.1	1,300	69.6	67.5 - 71.8	168,400
101-200%	↓	19.7	14.6 - 24.7	300	26.3	24.2 - 28.3	63,500
> 200%	♦	3.6 *	1.0 - 6.3	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Madera County was 305.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Marin County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Marin County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✓	94.0 *	90.2 - 97.8	600	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	✗	7.5 *	2.8 - 12.2	< 100	3.2	2.4 - 4.0	8,100
Hypertension†					2.5	2.0 - 3.1	6,400
Asthma†					8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✓	33.8	24.5 - 43.1	200	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	30.3	21.2 - 39.5	200	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	21.8	13.4 - 30.3	100	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	23.9	13.7 - 34.1	100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	37.0	26.2 - 47.9	200	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	31.0	22.2 - 39.9	200	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	11.9	5.8 - 18.0	100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	14.3	7.5 - 21.0	100	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	14.3	7.8 - 20.8	100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	29.1	20.6 - 37.6	200	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	5.7 *	0.8 - 10.7	< 100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	9.7 *	3.9 - 15.5	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	24.6	16.2 - 32.9	200	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.2	9.4 - 22.9	100	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	8.0 *	2.8 - 13.2	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	✗	14.1	7.8 - 20.4	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy					13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†					3.9	3.0 - 4.7	10,100
Any smoking, postpartum					6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✓	7.8	3.4 - 12.2	100	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†					4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	29.6	20.8 - 38.3	200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	✓	8.3	3.9 - 12.7	100	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	90.7 *	84.8 - 96.6	600	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	83.9	76.9 - 91.0	500	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	55.3	45.8 - 64.7	400	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth					91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	69.6	60.1 - 79.1	500	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery					78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	69.4	60.6 - 78.2	400	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	92.7 *	87.5 - 98.0	500	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	53.0	42.3 - 63.7	300	20.1	18.0 - 22.1	40,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health Division and the Women, Infants and Children Division in the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco.



MIHA Data Snapshot, Prenatal WIC Participants Marin County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Marin County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	62.8	53.8 - 71.8	400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	85.2	78.2 - 92.2	600	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	87.8	81.1 - 94.6	600	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	14.8	8.5 - 21.0	100	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↓	29.0	20.0 - 37.9	200	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	51.6	42.1 - 61.0	300	40.3	38.0 - 42.5	104,200
Uninsured	♦	35.2	26.6 - 43.7	200	37.2	34.9 - 39.5	96,200
Private	↓	8.5	4.1 - 12.9	100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	92.8	88.9 - 96.7	600	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↓	4.5 *	1.6 - 7.4	< 100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	66.0	57.4 - 74.6	400	59.9	57.6 - 62.2	153,800
Uninsured	♦	25.7	17.8 - 33.5	200	22.5	20.5 - 24.5	57,700
Private	↓	7.0 *	2.4 - 11.6	< 100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	94.1 *	89.8 - 98.5	600	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private		--			9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19		--			9.8	8.4 - 11.2	25,400
20-34	♦	74.4	66.2 - 82.6	500	77.9	76.1 - 79.8	202,100
35+	↑	20.6	13.2 - 27.9	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	45.5	36.1 - 55.0	300	28.0	25.9 - 30.2	71,900
Unmarried	♦	54.6	45.1 - 64.2	400	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	76.0	67.5 - 84.4	500	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	♦	18.4	10.5 - 26.3	100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	78.4	70.0 - 86.7	500	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	72.4	63.5 - 81.4	500	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	32.0	22.5 - 41.4	200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	76.1	68.2 - 84.1	500	69.6	67.5 - 71.8	168,400
101-200%	♦	21.6	14.0 - 29.2	100	26.3	24.2 - 28.3	63,500
> 200%		--			4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Marin County was 127.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Merced County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Merced County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✗	83.2	78.6 - 87.9	2,600	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	4.4 *	1.8 - 7.0	100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.8 *	0.7 - 4.9	100	2.5	2.0 - 3.1	6,400
Asthma†	♦	10.3	6.6 - 13.9	300	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	25.4	19.8 - 30.9	800	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	29.7	23.8 - 35.6	900	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	29.7	23.9 - 35.5	900	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	14.2	9.5 - 18.9	400	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	45.3	38.5 - 52.0	1,100	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	22.4	17.3 - 27.4	700	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.0	7.9 - 16.1	400	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.1	15.2 - 25.0	600	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	19.8	14.8 - 24.7	600	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	33.5	27.6 - 39.4	1,000	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	3.7	1.6 - 5.8	100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	9.5	5.9 - 13.0	300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	✓	15.4	11.0 - 19.8	500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	14.4	10.0 - 18.7	400	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	10.0	6.4 - 13.6	300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.0	1.9 - 6.1	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	13.9	9.7 - 18.0	400	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	5.1	2.4 - 7.8	200	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	7.8	4.6 - 11.0	200	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	15.3	11.0 - 19.6	500	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.6 *	0.7 - 4.6	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	39.7	33.6 - 45.7	1,200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.4	10.2 - 18.6	400	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	81.9	77.1 - 86.7	2,500	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	✗	70.3	64.7 - 75.8	2,200	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	42.6	36.5 - 48.7	1,300	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	90.9	87.5 - 94.3	2,800	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	55.4	49.3 - 61.6	1,700	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	75.8	70.6 - 81.1	2,300	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	33.0	27.1 - 38.9	1,000	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	57.2	50.4 - 64.0	1,400	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	17.5	12.0 - 23.0	400	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Merced County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Merced County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	68.0	62.2 - 73.8	2,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↓	80.9	76.1 - 85.6	2,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	84.5	80.1 - 89.0	2,600	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	14.3	10.0 - 18.7	400	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	50.5	44.3 - 56.7	1,600	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	48.5	42.4 - 54.7	1,500	40.3	38.0 - 42.5	104,200
Uninsured	♦	34.1	28.2 - 39.9	1,100	37.2	34.9 - 39.5	96,200
Private	♦	16.2	11.6 - 20.9	500	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	88.5	84.5 - 92.4	2,700	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	8.9	5.3 - 12.5	300	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	68.5	62.7 - 74.3	2,100	59.9	57.6 - 62.2	153,800
Uninsured	♦	19.2	14.2 - 24.1	600	22.5	20.5 - 24.5	57,700
Private	♦	12.1	8.0 - 16.2	400	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	86.1	81.7 - 90.4	2,600	84.6	82.9 - 86.3	214,500
Uninsured	♦	4.6	2.0 - 7.3	100	3.0	2.2 - 3.9	7,700
Private	♦	8.6	5.0 - 12.1	300	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.8	6.7 - 14.8	300	9.8	8.4 - 11.2	25,400
20-34	♦	77.4	72.1 - 82.7	2,400	77.9	76.1 - 79.8	202,100
35+	♦	11.9	7.8 - 15.9	400	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	27.9	22.3 - 33.4	900	28.0	25.9 - 30.2	71,900
Unmarried	♦	59.5	53.4 - 65.6	1,800	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	77.7	72.7 - 82.7	2,400	70.8	68.9 - 72.6	181,600
Black	↓	3.1	2.4 - 3.7	100	7.7	7.1 - 8.3	19,700
White	♦	12.9	8.5 - 17.3	400	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	6.4	3.6 - 9.2	200	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	39.1	33.1 - 45.0	1,200	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	34.7	28.9 - 40.5	1,100	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	74.7	69.2 - 80.1	2,100	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	72.4	66.5 - 78.2	2,000	69.6	67.5 - 71.8	168,400
101-200%	♦	25.0	19.3 - 30.8	700	26.3	24.2 - 28.3	63,500
> 200%	♦	2.6 *	0.7 - 4.5	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Merced County was 301.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Monterey County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Monterey County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✗	83.6	78.6 - 88.5	3,400	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	5.9 *	2.4 - 9.3	200	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.0 *	0.2 - 3.8	100	2.5	2.0 - 3.1	6,400
Asthma†	✓	3.7 *	0.5 - 6.8	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	19.6	14.6 - 24.6	800	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	31.9	24.8 - 39.0	1,000	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	29.4	22.5 - 36.4	900	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	18.7	13.0 - 24.5	500	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	42.9	34.8 - 50.9	1,200	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	30.2	24.2 - 36.2	1,200	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.9	6.0 - 13.8	400	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	17.9	12.9 - 22.9	700	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	15.7	11.0 - 20.5	600	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✓	23.7	18.2 - 29.2	1,000	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	3.8 *	1.5 - 6.2	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	7.7	4.0 - 11.3	300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	21.5	16.2 - 26.8	900	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	15.5	10.6 - 20.4	600	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	10.3	6.5 - 14.1	400	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	5.5	2.6 - 8.4	200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✓	4.9	2.2 - 7.6	200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†		--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum		--			6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	9.7	5.8 - 13.6	400	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.0 *	0.2 - 3.9	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	33.3	27.1 - 39.5	1,300	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.6	9.7 - 19.5	600	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	85.4	80.5 - 90.4	3,400	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	80.6	75.6 - 85.5	3,200	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	48.8	42.2 - 55.4	2,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	94.8	91.9 - 97.6	3,800	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	53.4	46.9 - 60.0	2,100	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	83.6	78.7 - 88.5	3,300	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	43.2	36.5 - 49.8	1,700	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	62.6	55.1 - 70.1	1,900	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	20.4	14.7 - 26.1	600	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Monterey County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Monterey County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	60.1	53.6 - 66.6	2,400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	85.3	80.4 - 90.2	3,300	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	88.0	83.7 - 92.2	3,500	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	17.1	12.3 - 21.9	700	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	38.7	32.3 - 45.2	1,600	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	36.5	30.2 - 42.8	1,500	40.3	38.0 - 42.5	104,200
Uninsured	♦	41.6	35.2 - 48.0	1,700	37.2	34.9 - 39.5	96,200
Private	♦	15.9	11.0 - 20.8	600	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	85.4	80.9 - 90.0	3,500	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↓	6.0	3.1 - 8.9	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	53.8	47.3 - 60.3	2,200	59.9	57.6 - 62.2	153,800
Uninsured	↑	32.3	26.2 - 38.3	1,300	22.5	20.5 - 24.5	57,700
Private	↓	9.3	5.6 - 13.0	400	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	87.2	82.7 - 91.7	3,500	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	↓	3.3 *	1.1 - 5.6	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.4	5.9 - 14.9	400	9.8	8.4 - 11.2	25,400
20-34	♦	76.0	70.1 - 81.9	3,100	77.9	76.1 - 79.8	202,100
35+	♦	13.6	9.0 - 18.1	600	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	44.9	38.4 - 51.3	1,800	28.0	25.9 - 30.2	71,900
Unmarried	♦	61.4	55.1 - 67.8	2,500	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	92.3	88.6 - 96.1	3,800	70.8	68.9 - 72.6	181,600
Black	↓	1.2	0.5 - 1.9	< 100	7.7	7.1 - 8.3	19,700
White	↓	4.3 *	1.5 - 7.2	200	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	63.8	57.2 - 70.3	2,600	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	63.5	56.9 - 70.1	2,600	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	52.4	45.7 - 59.1	2,100	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	71.6	65.5 - 77.8	2,700	69.6	67.5 - 71.8	168,400
101-200%	♦	23.5	17.8 - 29.2	900	26.3	24.2 - 28.3	63,500
> 200%	♦	4.9 *	1.8 - 8.0	200	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Monterey County was 255.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Napa County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Napa County				California			
		Prenatal WIC Participants			Population Estimate	Prenatal WIC Participants			Population Estimate
		%	95% CI	%		95% CI			
Health Status Before Pregnancy									
In good to excellent health	♦	88.8	84.3 - 93.3	600	88.7	87.2 - 90.2	229,700		
Chronic conditions									
Diabetes†	♦	2.9 *	0.5 - 5.4	< 100	3.2	2.4 - 4.0	8,100		
Hypertension†	♦	3.0 *	0.7 - 5.3	< 100	2.5	2.0 - 3.1	6,400		
Asthma†	♦	10.0	5.6 - 14.4	100	8.4	7.2 - 9.5	21,100		
Nutrition and Weight									
Daily folic acid use, month before pregnancy	✓	34.6	26.8 - 42.4	200	22.9	21.0 - 24.8	59,100		
Overweight before pregnancy	♦	29.1	21.5 - 36.8	200	28.5	26.2 - 30.7	68,100		
Obese before pregnancy	♦	24.9	18.2 - 31.6	200	25.6	23.5 - 27.7	61,200		
Inadequate weight gain during pregnancy	♦	17.0	10.9 - 23.2	100	20.8	18.5 - 23.1	43,400		
Excessive weight gain during pregnancy	♦	45.3	36.2 - 54.5	200	39.0	36.5 - 41.5	81,300		
Food insecurity during pregnancy	♦	27.0	19.9 - 34.1	200	25.5	23.5 - 27.6	65,600		
Intimate Partner Violence (IPV) and Depressive Symptoms									
Physical or psychological IPV during pregnancy	✓	2.8 *	0.7 - 4.9	< 100	10.0	8.6 - 11.4	25,900		
Prenatal depressive symptoms	♦	15.3	10.1 - 20.5	100	18.6	16.7 - 20.4	48,000		
Postpartum depressive symptoms	♦	17.1	11.2 - 23.0	100	15.8	14.1 - 17.5	40,800		
Hardships and Support during Pregnancy									
Experienced two or more hardships during childhood	♦	30.1	22.9 - 37.4	200	30.8	28.7 - 33.0	78,300		
Homeless or did not have a regular place to sleep	♦	3.3 *	0.7 - 6.0	< 100	3.8	3.1 - 4.5	9,800		
Moved due to problems paying rent or mortgage	✓	4.6 *	1.0 - 8.1	< 100	9.8	8.4 - 11.2	25,300		
Woman or partner lost job	♦	18.0	12.1 - 23.9	100	20.8	18.9 - 22.7	53,200		
Woman or partner had pay or hours cut back	♦	15.4	9.8 - 20.9	100	14.7	13.1 - 16.2	37,600		
Became separated or divorced	✓	5.9	2.7 - 9.2	< 100	11.2	9.7 - 12.7	28,800		
Had no practical or emotional support	♦	5.2	2.2 - 8.1	< 100	6.3	5.1 - 7.6	16,400		
Substance Use									
Any smoking, 3 months before pregnancy	♦	14.0	8.3 - 19.8	100	13.0	11.5 - 14.5	33,600		
Any smoking, 3rd trimester†	♦	3.6 *	0.3 - 6.9	< 100	3.9	3.0 - 4.7	10,100		
Any smoking, postpartum	♦	6.9 *	2.4 - 11.5	< 100	6.8	5.8 - 7.8	17,500		
Any binge drinking, 3 months before pregnancy	♦	10.5	5.8 - 15.2	100	14.1	12.5 - 15.7	36,100		
Any alcohol use, 3rd trimester†	♦	4.6 *	1.8 - 7.4	< 100	4.1	3.0 - 5.2	10,600		
Pregnancy Intention and Family Planning									
Mistimed or unwanted pregnancy	♦	35.2	27.5 - 43.0	200	41.0	38.7 - 43.4	105,800		
Unsure of pregnancy intentions	♦	15.0	9.1 - 20.8	100	15.8	14.1 - 17.4	40,700		
Postpartum birth control use†	♦	89.2	84.8 - 93.6	600	84.2	82.6 - 85.8	211,900		
Infant Sleep and Breastfeeding									
Placed infant on back to sleep	✓	83.9	78.4 - 89.4	600	76.5	74.5 - 78.5	194,800		
Infant always or often shared bed	♦	40.8	33.0 - 48.6	300	38.4	36.2 - 40.6	97,700		
Intended to breastfeed, before birth		--			91.5	90.3 - 92.6	232,400		
Intended to breastfeed exclusively, before birth	✓	71.2	64.0 - 78.4	500	56.5	54.2 - 58.9	143,700		
Breastfeeding practices									
Any breastfeeding, 1 month after delivery	♦	82.9	76.1 - 89.6	500	78.6	76.7 - 80.5	198,500		
Exclusive breastfeeding, 1 month after delivery	✓	48.1	39.9 - 56.3	300	37.8	35.5 - 40.0	93,600		
Any breastfeeding, 3 months after delivery	✓	69.3	60.5 - 78.1	400	58.0	55.3 - 60.7	116,900		
Exclusive breastfeeding, 3 months after delivery	✓	35.7	26.9 - 44.5	200	20.1	18.0 - 22.1	40,000		

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health Division and the Women, Infants and Children Division in the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco.



MIHA Data Snapshot, Prenatal WIC Participants Napa County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Napa County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	65.6	58.2 - 73.0	400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	90.1	85.5 - 94.7	600	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	87.9	83.3 - 92.5	600	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	14.6	9.4 - 19.8	100	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↓	22.4	15.9 - 28.8	100	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	33.2	25.5 - 40.9	200	40.3	38.0 - 42.5	104,200
Uninsured	↑	45.6	37.7 - 53.5	300	37.2	34.9 - 39.5	96,200
Private	♦	19.7	13.5 - 25.8	100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	79.6	72.9 - 86.4	500	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	13.2	7.9 - 18.6	100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	41.0	33.1 - 48.8	300	59.9	57.6 - 62.2	153,800
Uninsured	↑	37.0	29.3 - 44.7	200	22.5	20.5 - 24.5	57,700
Private	♦	19.8	13.7 - 26.0	100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	85.9	80.4 - 91.3	600	84.6	82.9 - 86.3	214,500
Uninsured	♦	3.4 *	0.6 - 6.2	< 100	3.0	2.2 - 3.9	7,700
Private	♦	10.3	5.5 - 15.1	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	8.3 *	3.3 - 13.3	100	9.8	8.4 - 11.2	25,400
20-34	♦	76.4	69.4 - 83.3	500	77.9	76.1 - 79.8	202,100
35+	♦	15.3	9.7 - 20.9	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	25.1	18.7 - 31.6	200	28.0	25.9 - 30.2	71,900
Unmarried	↓	47.7	39.7 - 55.7	300	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	80.1	73.2 - 86.9	500	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	♦	15.1	9.0 - 21.2	100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	55.5	47.5 - 63.4	400	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	52.6	44.7 - 60.6	400	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	9.7	5.0 - 14.5	100	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	52.7	44.6 - 60.7	300	69.6	67.5 - 71.8	168,400
101-200%	↑	43.8	35.8 - 51.8	300	26.3	24.2 - 28.3	63,500
> 200%	♦	3.5 *	1.0 - 6.1	< 100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Napa County was 168.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Orange County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Orange County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.4	82.8 - 94.0	13,700	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	9.0	4.0 - 14.0	1,400	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	27.7	19.7 - 35.6	4,300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	31.0	22.5 - 39.5	4,500	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	21.9	14.3 - 29.6	3,200	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	19.6	11.4 - 27.8	2,400	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	39.4	29.7 - 49.2	4,800	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	21.9	14.8 - 29.1	3,400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	10.8	5.5 - 16.2	1,700	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.1	13.1 - 27.1	3,100	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	11.1	6.1 - 16.1	1,700	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	33.1	24.5 - 41.8	5,100	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep		--			3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	11.6	6.3 - 16.9	1,800	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.2	11.8 - 24.7	2,800	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	15.8	9.7 - 21.9	2,400	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	8.2	3.4 - 13.0	1,300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	7.8 *	3.1 - 12.5	1,200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✓	5.6 *	0.8 - 10.4	900	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†		--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum		--			6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✓	7.8	3.4 - 12.1	1,200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	45.4	36.6 - 54.3	7,100	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	12.8	6.6 - 19.0	2,000	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	82.3	75.5 - 89.2	12,400	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	82.0	75.1 - 88.9	12,500	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	33.3	24.8 - 41.8	5,100	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.8	89.0 - 96.7	14,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	53.6	44.7 - 62.5	8,200	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	81.3	74.6 - 87.9	12,200	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	35.1	26.4 - 43.7	5,200	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	63.6	53.9 - 73.4	7,300	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	18.8	10.1 - 27.4	2,100	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Orange County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Orange County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↓	49.8	40.9 - 58.8	7,700	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	88.5	83.4 - 93.6	13,600	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	86.2	80.1 - 92.2	13,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	17.1	10.7 - 23.5	2,600	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↓	30.7	22.7 - 38.7	4,700	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↓	32.0	24.0 - 40.0	5,000	40.3	38.0 - 42.5	104,200
Uninsured	↑	47.4	38.5 - 56.3	7,300	37.2	34.9 - 39.5	96,200
Private	♦	16.2	9.4 - 23.0	2,500	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	82.0	74.6 - 89.5	12,700	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	14.0	7.4 - 20.6	2,200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	43.7	34.9 - 52.6	6,700	59.9	57.6 - 62.2	153,800
Uninsured	↑	38.2	29.5 - 46.8	5,800	22.5	20.5 - 24.5	57,700
Private	♦	15.3	8.4 - 22.1	2,300	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	85.9	79.5 - 92.4	13,100	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	7.7 *	3.0 - 12.4	1,200	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.2	5.4 - 15.1	1,600	9.8	8.4 - 11.2	25,400
20-34	♦	77.5	70.1 - 84.9	12,000	77.9	76.1 - 79.8	202,100
35+	♦	12.3	6.1 - 18.5	1,900	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	26.9	19.3 - 34.4	4,200	28.0	25.9 - 30.2	71,900
Unmarried	♦	53.6	44.7 - 62.6	8,300	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	81.9	74.2 - 89.6	12,700	70.8	68.9 - 72.6	181,600
Black	↓	1.5	1.0 - 2.1	200	7.7	7.1 - 8.3	19,700
White	↓	6.5 *	1.9 - 11.2	1,000	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	10.1 *	3.4 - 16.8	1,600	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	54.9	46.0 - 63.7	8,500	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	48.8	39.9 - 57.7	7,500	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	42.7	33.3 - 52.1	5,800	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	67.4	58.6 - 76.2	9,300	69.6	67.5 - 71.8	168,400
101-200%	♦	27.1	18.7 - 35.6	3,700	26.3	24.2 - 28.3	63,500
> 200%	♦	5.5 *	1.2 - 9.7	800	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Orange County was 209.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Placer County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Placer County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	81.9	73.0 - 90.9	700	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	11.3 *	4.3 - 18.3	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	30.3	18.7 - 41.9	300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	35.0	22.3 - 47.8	300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	21.1	11.2 - 31.1	200	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	15.5	6.6 - 24.4	100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	40.4	27.7 - 53.2	300	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	22.3	13.1 - 31.5	200	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	8.7 *	2.1 - 15.4	100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	24.3	14.0 - 34.6	200	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	17.2	8.9 - 25.4	200	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	38.2	26.8 - 49.7	300	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep		--			3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	14.6	6.6 - 22.6	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	23.6	12.1 - 35.1	200	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	19.2	11.3 - 27.1	200	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	15.3	6.9 - 23.6	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support		--			6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	26.2	15.8 - 36.6	200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	6.8 *	1.1 - 12.5	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	11.7 *	4.0 - 19.4	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✗	26.5	16.0 - 36.9	200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	44.0	31.9 - 56.2	400	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	17.8	9.2 - 26.4	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	89.7 *	83.5 - 96.0	800	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	78.4	69.3 - 87.6	700	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	27.4	17.5 - 37.4	200	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	79.9	68.6 - 91.2	700	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	60.7	48.3 - 73.1	500	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	74.7	62.4 - 87.0	600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	36.4	25.1 - 47.8	300	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	67.6	55.1 - 80.1	400	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	29.8	18.4 - 41.3	200	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Placer County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

	Placer County			California			
	Prenatal WIC Participants			Prenatal WIC Participants			
	%	95% CI	Population Estimate	%	95% CI	Population Estimate	
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	59.3	47.9 - 70.7	500	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	79.3	69.5 - 89.0	700	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	81.4	72.0 - 90.8	700	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	26.0	15.0 - 37.0	200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	46.6	34.8 - 58.4	400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	31.1	20.8 - 41.4	300	40.3	38.0 - 42.5	104,200
Uninsured	♦	42.1	30.0 - 54.2	400	37.2	34.9 - 39.5	96,200
Private	♦	22.7	13.1 - 32.2	200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	73.6	63.2 - 84.0	700	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	20.2	10.6 - 29.8	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	51.9	39.9 - 63.9	400	59.9	57.6 - 62.2	153,800
Uninsured	♦	20.2	11.7 - 28.7	200	22.5	20.5 - 24.5	57,700
Private	↑	25.9	15.2 - 36.5	200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	77.9	67.3 - 88.5	700	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	15.2	6.3 - 24.2	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19		--			9.8	8.4 - 11.2	25,400
20-34	♦	81.0	72.3 - 89.8	700	77.9	76.1 - 79.8	202,100
35+	♦	14.7	6.9 - 22.5	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	22.5	12.7 - 32.3	200	28.0	25.9 - 30.2	71,900
Unmarried	♦	65.7	54.7 - 76.6	600	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	46.4	34.3 - 58.5	400	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	45.2	33.4 - 57.0	400	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	26.8	16.6 - 37.0	200	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	22.5	13.0 - 32.0	200	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	8.4 *	2.7 - 14.1	100	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	69.2	58.3 - 80.2	600	69.6	67.5 - 71.8	168,400
101-200%	♦	25.9	15.6 - 36.3	200	26.3	24.2 - 28.3	63,500
> 200%	♦	4.8 *	0.6 - 9.1	< 100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Placer County was 89.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Riverside County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Riverside County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.6	83.3 - 94.0	15,500	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	4.8 *	1.1 - 8.4	800	3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.2 *	1.0 - 5.5	600	2.5	2.0 - 3.1	6,400
Asthma†	♦	11.9	6.8 - 16.9	2,100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	19.0	12.4 - 25.5	3,300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	23.9	16.9 - 30.9	4,000	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	29.9	22.0 - 37.8	5,000	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	20.9	13.4 - 28.5	3,100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	35.5	27.3 - 43.7	5,300	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	31.1	23.4 - 38.8	5,400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	6.8	2.9 - 10.6	1,200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	15.4	9.8 - 21.0	2,700	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	17.9	11.4 - 24.4	3,100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	31.0	23.3 - 38.7	5,200	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.4 *	1.3 - 7.4	800	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	13.4	7.7 - 19.1	2,300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	26.3	18.8 - 33.7	4,600	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	14.9	9.2 - 20.5	2,600	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.6	7.0 - 16.3	2,000	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	3.8 *	0.9 - 6.7	700	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	11.3	6.8 - 15.8	1,900	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	2.4 *	0.1 - 4.8	400	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	6.1 *	2.4 - 9.8	1,100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	14.2	8.6 - 19.8	2,400	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.1 *	0.6 - 5.6	500	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	35.6	27.7 - 43.5	6,200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	19.6	13.0 - 26.2	3,400	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	84.2	78.7 - 89.8	14,300	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	77.4	70.6 - 84.2	13,000	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	40.2	31.9 - 48.4	6,800	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.4	88.5 - 96.2	15,900	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	52.8	44.5 - 61.2	9,100	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	77.0	70.1 - 84.0	12,900	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	36.3	28.1 - 44.4	5,900	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	57.0	47.3 - 66.7	7,200	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	20.3	12.5 - 28.2	2,500	20.1	18.0 - 22.1	40,000

MIHA is a collaborative effort of the Maternal, Child and Adolescent Health Division and the Women, Infants and Children Division in the California Department of Public Health and the Center on Social Disparities in Health at the University of California San Francisco.



MIHA Data Snapshot, Prenatal WIC Participants Riverside County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Riverside County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	60.5	52.4 - 68.6	10,500	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	82.2	76.1 - 88.3	14,000	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	81.1	74.8 - 87.5	14,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	23.7	16.4 - 31.1	4,100	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	37.9	30.0 - 45.7	6,600	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↓	30.6	22.9 - 38.3	5,400	40.3	38.0 - 42.5	104,200
Uninsured	♦	41.6	33.5 - 49.7	7,300	37.2	34.9 - 39.5	96,200
Private	♦	22.3	15.3 - 29.3	3,900	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	78.5	72.0 - 84.9	13,700	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	15.8	9.9 - 21.7	2,800	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	51.5	43.1 - 59.9	8,800	59.9	57.6 - 62.2	153,800
Uninsured	♦	24.4	16.6 - 32.2	4,200	22.5	20.5 - 24.5	57,700
Private	♦	19.0	12.2 - 25.8	3,200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	78.8	71.7 - 85.9	13,100	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	13.1	7.0 - 19.1	2,200	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.4	4.5 - 14.2	1,600	9.8	8.4 - 11.2	25,400
20-34	♦	80.4	73.6 - 87.3	14,100	77.9	76.1 - 79.8	202,100
35+	♦	10.2	4.7 - 15.6	1,800	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	24.9	17.2 - 32.7	4,200	28.0	25.9 - 30.2	71,900
Unmarried	♦	55.8	47.5 - 64.1	9,600	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	72.4	66.1 - 78.7	12,600	70.8	68.9 - 72.6	181,600
Black	♦	8.0	6.4 - 9.7	1,400	7.7	7.1 - 8.3	19,700
White	♦	16.1	10.7 - 21.6	2,800	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	3.1 *	0.2 - 6.0	500	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	34.6	26.3 - 43.0	6,000	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	24.7	17.3 - 32.0	4,300	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	42.9	34.4 - 51.4	7,000	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	67.3	59.4 - 75.1	11,400	69.6	67.5 - 71.8	168,400
101-200%	♦	28.8	21.3 - 36.4	4,900	26.3	24.2 - 28.3	63,500
> 200%	♦	3.9 *	0.5 - 7.3	700	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Riverside County was 243.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Sacramento County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Sacramento County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	89.5	85.3 - 93.7	9,500	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.4 *	0.8 - 4.0	300	3.2	2.4 - 4.0	8,100
Hypertension†	♦	4.4 *	1.8 - 7.1	500	2.5	2.0 - 3.1	6,400
Asthma†	♦	9.1	5.0 - 13.3	1,000	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	26.6	19.6 - 33.5	2,800	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.1	21.1 - 35.0	2,900	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	26.6	19.8 - 33.4	2,700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	14.7	9.0 - 20.3	1,300	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	42.9	34.9 - 50.9	3,900	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	21.9	15.8 - 27.9	2,300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.4	5.4 - 13.3	1,000	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	15.0	10.1 - 20.0	1,600	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	13.0	8.1 - 17.8	1,400	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	31.1	24.3 - 37.9	3,200	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.6 *	1.6 - 7.5	500	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	12.6	7.6 - 17.6	1,300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	17.6	11.8 - 23.5	1,900	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.5	11.5 - 21.6	1,700	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.9	7.6 - 16.3	1,300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.4 *	1.5 - 7.4	500	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	16.5	11.0 - 22.0	1,700	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	3.2 *	1.1 - 5.4	300	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	10.7	6.2 - 15.3	1,100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	14.5	9.3 - 19.8	1,500	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.0 *	0.8 - 5.2	300	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	40.7	33.3 - 48.2	4,300	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	18.1	12.8 - 23.5	1,900	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	80.6	75.0 - 86.1	8,000	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	77.6	71.7 - 83.4	8,100	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	39.4	32.2 - 46.7	4,100	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	90.5	86.2 - 94.8	9,500	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	67.9	60.9 - 74.9	7,100	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	79.7	73.9 - 85.5	8,400	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	50.5	43.0 - 58.0	5,100	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	61.3	53.4 - 69.1	5,200	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	26.5	19.2 - 33.8	2,200	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Sacramento County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Sacramento County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	62.6	55.3 - 69.8	6,600	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	86.6	80.9 - 92.3	9,000	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	80.0	74.6 - 85.5	8,500	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	17.3	11.6 - 23.0	1,800	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	55.2	47.8 - 62.6	5,800	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	47.8	40.6 - 55.1	5,000	40.3	38.0 - 42.5	104,200
Uninsured	↓	26.7	20.0 - 33.4	2,800	37.2	34.9 - 39.5	96,200
Private	♦	22.4	16.1 - 28.7	2,400	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	76.8	70.2 - 83.3	8,100	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	18.4	12.3 - 24.5	1,900	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	65.5	58.4 - 72.7	6,900	59.9	57.6 - 62.2	153,800
Uninsured	↓	14.9	9.7 - 20.2	1,600	22.5	20.5 - 24.5	57,700
Private	♦	16.3	10.6 - 22.1	1,700	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	80.2	74.1 - 86.3	8,400	84.6	82.9 - 86.3	214,500
Uninsured	♦	2.0 *	0.3 - 3.7	200	3.0	2.2 - 3.9	7,700
Private	♦	13.3	7.9 - 18.6	1,400	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	8.0	3.8 - 12.1	800	9.8	8.4 - 11.2	25,400
20-34	♦	80.5	74.7 - 86.2	8,600	77.9	76.1 - 79.8	202,100
35+	♦	11.6	7.2 - 15.9	1,200	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↓	16.9	11.3 - 22.5	1,700	28.0	25.9 - 30.2	71,900
Unmarried	♦	56.8	49.4 - 64.2	6,000	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	37.4	30.4 - 44.4	4,000	70.8	68.9 - 72.6	181,600
Black	↑	17.0	13.8 - 20.3	1,800	7.7	7.1 - 8.3	19,700
White	↑	29.2	22.4 - 35.9	3,100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↑	15.8	9.8 - 21.8	1,700	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	34.8	28.0 - 41.7	3,700	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	30.5	23.8 - 37.3	3,200	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	56.1	48.7 - 63.6	5,800	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	65.6	58.0 - 73.2	6,600	69.6	67.5 - 71.8	168,400
101-200%	♦	30.3	22.8 - 37.8	3,000	26.3	24.2 - 28.3	63,500
> 200%	♦	4.1 *	1.3 - 6.9	400	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Sacramento County was 256.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants San Bernardino County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Bernardino County Prenatal WIC Participants			California Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.2	83.0 - 93.4	16,200	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.1 *	0.1 - 4.1	400	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.9 *	0.5 - 5.3	500	2.5	2.0 - 3.1	6,400
Asthma†	♦	9.8	5.7 - 13.9	1,800	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	20.7	14.2 - 27.2	3,800	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	29.8	21.7 - 37.9	5,300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	23.7	16.6 - 30.9	4,200	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	14.1	7.7 - 20.5	2,200	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	44.1	35.1 - 53.1	6,700	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	26.5	19.1 - 33.9	4,900	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.5	7.0 - 18.1	2,300	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.3	13.8 - 26.7	3,700	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	13.7	8.5 - 18.9	2,500	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	30.9	23.5 - 38.3	5,500	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.1 *	1.3 - 6.9	800	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	11.4	6.1 - 16.7	2,100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	21.3	14.6 - 28.1	3,900	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	14.8	9.0 - 20.6	2,700	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	13.4	8.0 - 18.9	2,500	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	6.6	2.8 - 10.5	1,200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	15.3	9.6 - 21.0	2,800	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	4.1 *	0.8 - 7.4	800	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	10.8	5.8 - 15.9	2,000	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	17.8	11.4 - 24.2	3,200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	6.4 *	1.9 - 10.9	1,200	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	45.8	37.5 - 54.1	8,300	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	17.0	10.6 - 23.5	3,100	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	78.3	71.1 - 85.6	13,800	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	76.0	69.4 - 82.6	13,900	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	35.7	28.0 - 43.4	6,500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	86.6	80.9 - 92.3	15,900	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	58.9	50.9 - 66.9	10,800	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	73.5	66.1 - 80.8	13,400	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	34.0	25.9 - 42.0	6,100	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	49.5	40.3 - 58.7	7,200	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	22.1	13.9 - 30.4	3,100	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Bernardino County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Bernardino County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	60.0	51.9 - 68.1	11,000	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	80.4	73.5 - 87.3	14,600	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↓	76.0	68.6 - 83.5	13,800	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	16.1	10.3 - 21.9	2,900	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	51.2	42.9 - 59.4	9,400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	39.9	32.0 - 47.9	7,300	40.3	38.0 - 42.5	104,200
Uninsured	♦	37.1	29.0 - 45.1	6,800	37.2	34.9 - 39.5	96,200
Private	♦	19.1	12.3 - 25.9	3,500	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	82.5	76.2 - 88.7	15,100	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	11.8	6.8 - 16.8	2,200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	64.9	57.1 - 72.6	11,900	59.9	57.6 - 62.2	153,800
Uninsured	♦	16.9	11.2 - 22.6	3,100	22.5	20.5 - 24.5	57,700
Private	♦	16.5	10.3 - 22.7	3,000	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	90.2	86.0 - 94.3	16,500	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	↓	5.1	2.1 - 8.1	900	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.6	6.6 - 16.6	2,100	9.8	8.4 - 11.2	25,400
20-34	♦	77.6	71.2 - 84.1	14,300	77.9	76.1 - 79.8	202,100
35+	♦	10.8	6.2 - 15.4	2,000	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	24.1	17.0 - 31.2	4,400	28.0	25.9 - 30.2	71,900
Unmarried	↑	70.9	63.5 - 78.2	13,000	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	72.4	65.5 - 79.2	13,300	70.8	68.9 - 72.6	181,600
Black	↑	10.8	8.3 - 13.3	2,000	7.7	7.1 - 8.3	19,700
White	♦	15.5	9.0 - 22.0	2,800	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	27.1	19.7 - 34.5	5,000	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	22.0	15.4 - 28.6	4,000	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	59.8	51.6 - 68.1	10,700	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	73.1	65.7 - 80.6	12,700	69.6	67.5 - 71.8	168,400
101-200%	♦	23.0	15.9 - 30.0	4,000	26.3	24.2 - 28.3	63,500
> 200%	♦	3.9 *	0.7 - 7.1	700	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Bernardino County was 229.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants San Diego County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Diego County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	91.0	86.3 - 95.8	17,200	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	5.7 *	1.7 - 9.7	1,100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.8 *	0.2 - 5.4	500	2.5	2.0 - 3.1	6,400
Asthma†	♦	7.7 *	2.7 - 12.7	1,500	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	24.7	16.3 - 33.1	4,700	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	29.9	20.9 - 38.9	5,200	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	22.9	15.0 - 30.8	4,000	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	24.7	14.1 - 35.3	3,500	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	34.4	24.7 - 44.1	4,900	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	28.4	19.1 - 37.7	5,400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.5	5.5 - 19.4	2,400	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	19.0	10.9 - 27.1	3,600	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	14.7	7.5 - 21.9	2,800	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✗	40.8	31.2 - 50.4	7,500	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep		--			3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	9.7 *	3.4 - 15.9	1,800	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	20.5	12.6 - 28.5	3,800	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.4	9.7 - 23.2	3,100	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	10.8 *	4.0 - 17.6	2,000	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.4 *	1.1 - 7.7	800	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	13.7	7.8 - 19.6	2,600	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	3.0 *	0.3 - 5.8	600	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	5.4 *	2.1 - 8.6	1,000	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	17.1	10.6 - 23.7	3,100	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	8.1 *	1.6 - 14.6	1,500	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	40.7	31.3 - 50.1	7,700	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	18.5	10.7 - 26.4	3,500	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	85.4	77.7 - 93.2	15,700	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	83.0	76.1 - 89.9	15,500	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	34.3	25.7 - 43.0	6,400	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.2 *	87.3 - 97.1	17,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	62.5	53.3 - 71.6	11,700	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	84.1	76.5 - 91.6	15,700	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	50.2	40.6 - 59.9	9,100	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	58.6	47.5 - 69.6	8,400	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	20.2	12.3 - 28.1	2,800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Diego County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

	San Diego County			California			
	Prenatal WIC Participants			Prenatal WIC Participants			
	%	95% CI	Population Estimate	%	95% CI	Population Estimate	
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↑	71.0	63.2 - 78.8	13,300	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	85.4	79.1 - 91.7	16,000	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	89.3 *	82.7 - 95.8	16,800	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	15.9	8.6 - 23.3	3,000	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	37.9	28.4 - 47.4	7,000	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	33.8	24.8 - 42.9	6,400	40.3	38.0 - 42.5	104,200
Uninsured	♦	39.6	30.2 - 49.1	7,500	37.2	34.9 - 39.5	96,200
Private	♦	15.9	9.7 - 22.0	3,000	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	75.6	68.3 - 83.0	14,200	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	9.2	4.4 - 13.9	1,700	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	53.7	44.4 - 62.9	10,100	59.9	57.6 - 62.2	153,800
Uninsured	♦	23.2	15.2 - 31.2	4,400	22.5	20.5 - 24.5	57,700
Private	♦	11.9	6.3 - 17.4	2,200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↓	76.4	69.2 - 83.6	14,200	84.6	82.9 - 86.3	214,500
Uninsured	↑	6.8 *	2.0 - 11.7	1,300	3.0	2.2 - 3.9	7,700
Private	♦	6.7	2.8 - 10.6	1,200	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	8.9	3.7 - 14.0	1,700	9.8	8.4 - 11.2	25,400
20-34	♦	76.5	69.1 - 83.9	14,500	77.9	76.1 - 79.8	202,100
35+	♦	14.7	8.7 - 20.7	2,800	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	21.5	12.9 - 30.1	4,000	28.0	25.9 - 30.2	71,900
Unmarried	♦	58.3	49.1 - 67.6	10,900	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	66.1	57.0 - 75.1	11,800	70.8	68.9 - 72.6	181,600
Black	♦	7.7	5.3 - 10.2	1,400	7.7	7.1 - 8.3	19,700
White	↑	20.5	12.1 - 28.8	3,700	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	5.0 *	0.4 - 9.6	900	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	39.0	29.8 - 48.2	7,400	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	34.7	25.5 - 43.9	6,500	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	52.2	42.7 - 61.7	9,400	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	64.6	55.2 - 73.9	11,200	69.6	67.5 - 71.8	168,400
101-200%	♦	31.3	22.1 - 40.4	5,400	26.3	24.2 - 28.3	63,500
> 200%	♦	4.2 *	1.1 - 7.2	700	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Diego County was 227.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants San Francisco County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Francisco County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	91.4	86.9 - 95.9	2,500	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	5.2 *	1.7 - 8.6	100	3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	6.6	2.8 - 10.4	200	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	27.9	20.2 - 35.7	800	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	32.0	21.6 - 42.5	800	28.5	26.2 - 30.7	68,100
Obese before pregnancy	✓	14.8	8.6 - 21.0	400	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	14.3	7.7 - 20.8	300	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	38.0	27.3 - 48.6	800	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	20.8	14.3 - 27.2	600	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.8	7.1 - 18.6	300	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	✗	28.5	19.0 - 38.1	800	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	23.3	14.3 - 32.2	600	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	27.3	18.5 - 36.1	700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	5.9 *	2.3 - 9.4	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	6.0	2.7 - 9.3	200	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	17.5	9.4 - 25.7	500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	12.1	6.3 - 17.9	300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	8.6	4.4 - 12.9	200	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.3 *	1.2 - 7.3	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	9.9	5.0 - 14.7	300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	3.7 *	1.4 - 6.1	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	6.7 *	2.7 - 10.6	200	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	10.0	4.5 - 15.6	300	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	7.0 *	1.5 - 12.5	200	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	27.4	19.3 - 35.5	700	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	18.1	11.1 - 25.1	500	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	78.8	70.3 - 87.3	2,100	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	82.4	75.5 - 89.2	2,200	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	43.9	34.0 - 53.8	1,200	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.5 *	87.8 - 97.2	2,400	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✗	45.2	35.4 - 55.0	1,200	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	85.3	79.2 - 91.3	2,200	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	33.0	23.9 - 42.0	800	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	61.5	50.2 - 72.8	1,200	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	14.2	7.6 - 20.8	300	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Francisco County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Francisco County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	67.2	58.1 - 76.3	1,800	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	85.1	78.8 - 91.4	2,300	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	88.4	83.1 - 93.7	2,400	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	12.1	7.1 - 17.1	300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↓	27.9	20.8 - 34.9	800	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	40.6	31.4 - 49.8	1,100	40.3	38.0 - 42.5	104,200
Uninsured	↓	26.6	18.4 - 34.9	700	37.2	34.9 - 39.5	96,200
Private	♦	25.4	15.6 - 35.2	700	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	80.8	72.7 - 89.0	2,200	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	12.9	5.6 - 20.2	400	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	61.6	52.0 - 71.3	1,700	59.9	57.6 - 62.2	153,800
Uninsured	♦	16.3	8.3 - 24.2	400	22.5	20.5 - 24.5	57,700
Private	♦	15.5	7.9 - 23.1	400	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	85.9	78.1 - 93.7	2,300	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	10.5 *	3.3 - 17.7	300	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	↓	3.3 *	0.7 - 6.0	100	9.8	8.4 - 11.2	25,400
20-34	♦	79.7	70.3 - 89.2	2,200	77.9	76.1 - 79.8	202,100
35+	♦	16.9	7.5 - 26.3	500	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)							
Unmarried	♦	23.7	16.2 - 31.1	600	28.0	25.9 - 30.2	71,900
Race/Ethnicity	↓	51.6	41.8 - 61.4	1,400	61.5	59.2 - 63.8	158,600
Hispanic							
Black	↓	39.7	30.3 - 49.1	1,100	70.8	68.9 - 72.6	181,600
White	↑	12.9	9.3 - 16.5	300	7.7	7.1 - 8.3	19,700
Asian/Pacific Islander	↓	6.0 *	2.0 - 10.1	200	13.6	12.2 - 15.0	35,000
Nativity and Language							
Born outside the U.S.	↑	40.9	30.8 - 50.9	1,100	7.3	6.0 - 8.7	18,800
Speaks non-English language at home	↑	69.1	61.4 - 76.8	1,900	42.8	40.5 - 45.1	111,000
Lives in a high poverty neighborhood	↑	62.8	54.1 - 71.5	1,600	38.0	35.8 - 40.3	97,500
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	22.2	13.9 - 30.6	600	56.4	54.1 - 58.7	139,200
101-200%	↓	53.7	43.6 - 63.9	1,400	69.6	67.5 - 71.8	168,400
> 200%	♦	31.0	21.4 - 40.6	800	26.3	24.2 - 28.3	63,500
	↑	15.3 *	5.4 - 25.3	400	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

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† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Francisco County was 190.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants San Joaquin County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Joaquin County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	89.4	84.9 - 93.9	5,600	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.4 *	0.4 - 4.3	100	3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	9.6	5.7 - 13.6	600	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	22.3	16.2 - 28.3	1,400	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	24.9	18.6 - 31.3	1,500	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	28.1	21.2 - 35.0	1,700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	18.2	11.8 - 24.5	900	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	40.0	31.9 - 48.2	2,000	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	23.1	16.3 - 29.9	1,500	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.4	7.5 - 17.3	800	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.7	14.3 - 27.1	1,300	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	21.7	15.1 - 28.3	1,400	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	30.8	23.8 - 37.8	1,900	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.7 *	1.6 - 7.8	300	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	12.8	7.9 - 17.8	800	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	21.8	15.3 - 28.4	1,400	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.5	10.7 - 22.2	1,000	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	10.4	6.4 - 14.5	600	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	8.0	3.6 - 12.4	500	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	13.5	8.3 - 18.7	800	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	5.9	2.6 - 9.3	400	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	7.7	4.1 - 11.4	500	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	14.0	8.4 - 19.6	900	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.0 *	0.2 - 5.7	200	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	45.8	38.2 - 53.4	2,900	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	15.2	9.6 - 20.8	1,000	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	80.3	74.5 - 86.1	4,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	82.7	77.1 - 88.3	5,100	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	48.1	40.4 - 55.7	3,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	90.1	85.6 - 94.6	5,600	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	51.1	43.4 - 58.9	3,200	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	75.2	68.7 - 81.7	4,600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	36.3	28.9 - 43.8	2,200	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✗	48.0	39.0 - 57.0	2,200	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	18.8	12.2 - 25.3	800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Joaquin County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Joaquin County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	57.7	50.1 - 65.2	3,600	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	87.4	81.8 - 93.1	5,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	84.1	78.5 - 89.6	5,300	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.2	12.4 - 26.0	1,200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	52.7	45.1 - 60.3	3,300	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	48.8	41.2 - 56.4	3,100	40.3	38.0 - 42.5	104,200
Uninsured	♦	34.2	26.9 - 41.6	2,200	37.2	34.9 - 39.5	96,200
Private	♦	15.0	9.9 - 20.1	900	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	85.2	80.0 - 90.5	5,400	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	12.3	7.4 - 17.2	800	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	68.1	61.0 - 75.2	4,300	59.9	57.6 - 62.2	153,800
Uninsured	♦	16.4	10.5 - 22.3	1,000	22.5	20.5 - 24.5	57,700
Private	♦	14.1	8.9 - 19.2	900	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	84.2	78.0 - 90.5	5,100	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	11.0	5.6 - 16.3	700	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.4	5.6 - 15.1	700	9.8	8.4 - 11.2	25,400
20-34	♦	79.2	72.6 - 85.8	5,000	77.9	76.1 - 79.8	202,100
35+	♦	10.4	5.2 - 15.7	700	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	28.6	21.5 - 35.7	1,800	28.0	25.9 - 30.2	71,900
Unmarried	♦	64.7	57.3 - 72.1	4,100	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	58.6	51.3 - 65.8	3,700	70.8	68.9 - 72.6	181,600
Black	↑	10.2	8.6 - 11.8	600	7.7	7.1 - 8.3	19,700
White	♦	15.3	9.5 - 21.0	1,000	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↑	15.2	9.2 - 21.2	1,000	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	36.1	28.7 - 43.5	2,300	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	34.7	27.3 - 42.2	2,200	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	63.3	56.1 - 70.6	3,800	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	72.4	65.2 - 79.6	4,400	69.6	67.5 - 71.8	168,400
101-200%	♦	23.6	16.7 - 30.5	1,400	26.3	24.2 - 28.3	63,500
> 200%	♦	4.0 *	1.2 - 6.7	200	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Joaquin County was 239.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants San Luis Obispo County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Luis Obispo County Prenatal WIC Participants			California Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	85.8	78.7 - 92.9	800	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	5.9 *	1.9 - 10.0	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	18.4	11.6 - 25.2	200	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	31.5	21.5 - 41.5	300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	22.9	15.0 - 30.8	200	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	19.6	11.3 - 28.0	200	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	45.6	35.5 - 55.6	400	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	30.3	21.7 - 38.8	300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	8.5	4.4 - 12.5	100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	16.4	9.7 - 23.1	200	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	12.6	6.8 - 18.4	100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	39.5	30.3 - 48.8	400	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.0 *	0.8 - 7.1	< 100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	7.5 *	3.0 - 11.9	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	19.1	12.0 - 26.3	200	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	19.6	12.2 - 26.9	200	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	8.5 *	2.9 - 14.1	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	9.7	5.0 - 14.5	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	17.4	10.2 - 24.6	200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	2.9 *	0.4 - 5.4	< 100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	11.1	4.9 - 17.4	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✗	22.4	15.0 - 29.8	200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.1 *	0.4 - 5.8	< 100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	36.3	27.2 - 45.4	400	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	16.7	9.0 - 24.5	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	89.7	84.1 - 95.3	800	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	74.5	66.3 - 82.7	700	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	44.2	34.8 - 53.5	400	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✓	97.0 *	94.3 - 99.6	900	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	70.6	61.5 - 79.7	700	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	90.0	84.9 - 95.2	800	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	53.2	43.5 - 62.9	500	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	63.0	51.7 - 74.3	400	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	32.0	21.6 - 42.4	200	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Luis Obispo County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Luis Obispo County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	55.0	45.6 - 64.4	500	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	88.1	82.6 - 93.6	800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	92.2	87.8 - 96.7	900	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	16.4	8.9 - 23.8	200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	43.7	34.5 - 52.9	400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	34.8	26.2 - 43.3	300	40.3	38.0 - 42.5	104,200
Uninsured	♦	43.7	34.2 - 53.2	400	37.2	34.9 - 39.5	96,200
Private	♦	18.9	11.8 - 26.0	200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	87.0	80.6 - 93.5	800	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	8.7 *	3.2 - 14.3	100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	63.3	54.2 - 72.5	600	59.9	57.6 - 62.2	153,800
Uninsured	♦	22.5	14.1 - 30.9	200	22.5	20.5 - 24.5	57,700
Private	♦	11.0	5.7 - 16.3	100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	90.1 *	83.8 - 96.3	900	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	4.8 *	0.9 - 8.6	< 100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.2	5.2 - 17.3	100	9.8	8.4 - 11.2	25,400
20-34	♦	79.1	71.2 - 87.1	800	77.9	76.1 - 79.8	202,100
35+	♦	9.7 *	3.7 - 15.6	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	22.6	14.9 - 30.2	200	28.0	25.9 - 30.2	71,900
Unmarried	♦	54.4	45.2 - 63.6	500	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	63.7	55.0 - 72.4	600	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	33.6	24.9 - 42.2	300	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	37.8	28.7 - 46.9	400	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	36.7	27.6 - 45.9	400	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	18.2	10.8 - 25.7	200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	59.2	49.7 - 68.6	500	69.6	67.5 - 71.8	168,400
101-200%	↑	37.4	28.0 - 46.7	300	26.3	24.2 - 28.3	63,500
> 200%	♦	3.5 *	0.4 - 6.6	< 100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Luis Obispo County was 136.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants San Mateo County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

	San Mateo County			California		
	Prenatal WIC Participants			Prenatal WIC Participants		
	%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy						
In good to excellent health	♦ 91.4 *	85.8 - 96.9	2,500	88.7	87.2 - 90.2	229,700
Chronic conditions						
Diabetes†	♦ 4.2 *	0.3 - 8.1	100	3.2	2.4 - 4.0	8,100
Hypertension†	--			2.5	2.0 - 3.1	6,400
Asthma†	--			8.4	7.2 - 9.5	21,100
Nutrition and Weight						
Daily folic acid use, month before pregnancy	♦ 28.6	18.0 - 39.2	800	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦ 20.3	11.4 - 29.2	500	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦ 30.2	18.6 - 41.8	700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦ 28.9	17.7 - 40.1	600	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦ 35.5	22.5 - 48.5	700	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦ 34.1	22.9 - 45.3	900	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms						
Physical or psychological IPV during pregnancy	♦ 11.0 *	4.0 - 18.0	300	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦ 14.2	7.2 - 21.1	400	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦ 12.1	5.2 - 18.9	300	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy						
Experienced two or more hardships during childhood	♦ 29.6	18.8 - 40.3	800	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦ 6.1 *	0.2 - 12.0	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦ 12.8 *	4.5 - 21.0	300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦ 18.4	9.2 - 27.6	500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦ 19.5	9.7 - 29.2	500	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦ 11.9 *	4.7 - 19.1	300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	✗ 14.9 *	6.1 - 23.7	400	6.3	5.1 - 7.6	16,400
Substance Use						
Any smoking, 3 months before pregnancy	♦ 15.3	7.6 - 23.1	400	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum	--			6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦ 12.3	5.1 - 19.5	300	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning						
Mistimed or unwanted pregnancy	♦ 44.6	33.4 - 55.9	1,200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦ 9.3 *	3.0 - 15.6	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦ 89.4	83.1 - 95.6	2,300	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding						
Placed infant on back to sleep	♦ 81.5	71.4 - 91.5	2,100	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦ 38.4	27.0 - 49.9	1,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦ 91.4 *	84.5 - 98.3	2,400	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦ 51.4	40.0 - 62.7	1,400	56.5	54.2 - 58.9	143,700
Breastfeeding practices						
Any breastfeeding, 1 month after delivery	♦ 86.1	78.0 - 94.1	2,300	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦ 46.1	34.5 - 57.7	1,200	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦ 68.6	57.0 - 80.1	1,500	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦ 29.2	17.2 - 41.1	600	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Mateo County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Mateo County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	67.9	57.4 - 78.3	1,800	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	89.7 *	83.0 - 96.4	2,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	81.0	71.9 - 90.1	2,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	13.7	6.8 - 20.6	400	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	33.5	22.8 - 44.1	900	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	36.1	25.4 - 46.9	1,000	40.3	38.0 - 42.5	104,200
Uninsured	♦	27.4	17.1 - 37.6	700	37.2	34.9 - 39.5	96,200
Private	↑	29.9	19.2 - 40.6	800	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	75.2	65.2 - 85.2	2,000	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↑	24.2	14.3 - 34.2	700	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	42.2	31.0 - 53.4	1,100	59.9	57.6 - 62.2	153,800
Uninsured	♦	20.6	11.1 - 30.2	500	22.5	20.5 - 24.5	57,700
Private	↑	26.3	16.1 - 36.5	700	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	83.3	74.7 - 91.9	2,200	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	13.0 *	5.2 - 20.8	300	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	↓	3.9 *	0.5 - 7.2	100	9.8	8.4 - 11.2	25,400
20-34	♦	76.7	67.6 - 85.9	2,100	77.9	76.1 - 79.8	202,100
35+	♦	19.4	10.7 - 28.2	500	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)							
Unmarried	↑	76.7	67.6 - 85.8	2,100	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	72.5	62.3 - 82.8	1,900	70.8	68.9 - 72.6	181,600
Black	↓	3.2	2.0 - 4.4	100	7.7	7.1 - 8.3	19,700
White		--			13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↑	19.4	9.9 - 28.8	500	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	70.1	59.5 - 80.6	1,900	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	61.8	50.5 - 73.1	1,700	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood							
	↓	13.8	6.0 - 21.6	400	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	60.4	48.5 - 72.2	1,400	69.6	67.5 - 71.8	168,400
101-200%	♦	34.8	23.2 - 46.4	800	26.3	24.2 - 28.3	63,500
> 200%	♦	4.8 *	0.4 - 9.3	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Mateo County was 115.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Santa Barbara County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Santa Barbara County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	84.4	79.7 - 89.1	2,900	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	3.6 *	1.1 - 6.2	100	3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	8.0	3.8 - 12.1	300	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	26.4	20.5 - 32.2	900	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	31.1	24.2 - 38.1	900	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	25.7	19.1 - 32.3	700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	23.2	16.6 - 29.7	600	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	37.4	29.5 - 45.2	900	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	28.1	22.1 - 34.2	1,000	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	10.2	6.5 - 13.9	400	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	16.6	11.9 - 21.4	600	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	14.5	10.0 - 19.0	500	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	30.9	24.8 - 37.0	1,000	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.6	2.0 - 7.2	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	✓	5.0	2.3 - 7.7	200	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	17.8	12.6 - 23.1	600	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	13.2	8.5 - 17.9	500	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	9.8	5.6 - 14.0	300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	6.6	3.5 - 9.7	200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	9.4	5.5 - 13.3	300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†		--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✓	2.9 *	1.1 - 4.6	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	11.7	7.0 - 16.4	400	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.9 *	0.2 - 5.6	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	37.9	31.5 - 44.3	1,300	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	15.3	10.2 - 20.4	500	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	88.7	84.5 - 92.8	3,000	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	77.7	71.9 - 83.5	2,700	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	49.9	43.2 - 56.6	1,700	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	91.2	87.4 - 95.0	3,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	57.1	50.5 - 63.6	2,000	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	85.9	81.3 - 90.5	2,900	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	39.0	32.3 - 45.6	1,300	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	72.0	64.9 - 79.1	2,000	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	24.3	17.7 - 30.9	700	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Santa Barbara County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Santa Barbara County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	58.1	51.5 - 64.7	2,000	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↓	79.7	74.2 - 85.1	2,800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	84.5	79.5 - 89.6	2,900	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.7	14.2 - 25.2	700	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	39.7	33.1 - 46.3	1,400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	35.0	28.7 - 41.3	1,200	40.3	38.0 - 42.5	104,200
Uninsured	↑	47.7	41.0 - 54.4	1,600	37.2	34.9 - 39.5	96,200
Private	↓	13.0	8.6 - 17.4	400	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	85.8	81.0 - 90.7	3,000	81.7	79.9 - 83.5	211,300
Uninsured	↑	4.2 *	0.9 - 7.5	100	1.6	1.0 - 2.2	4,100
Private	↓	6.6	3.3 - 9.8	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	56.3	49.6 - 63.0	2,000	59.9	57.6 - 62.2	153,800
Uninsured	↑	34.6	28.1 - 41.1	1,200	22.5	20.5 - 24.5	57,700
Private	↓	6.2	3.1 - 9.3	200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	91.2	87.5 - 95.0	3,100	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	↓	3.7 *	1.1 - 6.4	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.8	6.4 - 13.2	300	9.8	8.4 - 11.2	25,400
20-34	♦	78.8	73.3 - 84.3	2,800	77.9	76.1 - 79.8	202,100
35+	♦	11.4	6.6 - 16.2	400	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	41.1	34.6 - 47.7	1,400	28.0	25.9 - 30.2	71,900
Unmarried	♦	63.3	56.9 - 69.7	2,200	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	88.3	83.7 - 93.0	3,100	70.8	68.9 - 72.6	181,600
Black	↓	1.4 *	0.6 - 2.3	100	7.7	7.1 - 8.3	19,700
White	♦	8.9	4.4 - 13.5	300	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↓	1.0 *	0.1 - 1.9	< 100	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	59.1	52.5 - 65.7	2,100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	54.8	48.2 - 61.4	1,900	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	59.4	52.4 - 66.3	1,900	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	73.5	67.4 - 79.5	2,400	69.6	67.5 - 71.8	168,400
101-200%	♦	24.8	18.9 - 30.7	800	26.3	24.2 - 28.3	63,500
> 200%	♦	1.7 *	0.2 - 3.3	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Santa Barbara County was 259.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Santa Clara County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Santa Clara County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	87.6	82.1 - 93.0	5,900	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	7.0	3.3 - 10.8	500	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	23.8	15.3 - 32.3	1,600	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.2	19.0 - 37.3	1,700	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	24.0	15.7 - 32.2	1,400	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	20.6	11.3 - 29.8	1,000	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	40.2	29.5 - 50.9	2,000	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	27.2	19.2 - 35.1	1,800	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	6.2	2.6 - 9.8	400	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	22.6	14.7 - 30.5	1,500	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	15.6	8.6 - 22.6	1,000	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	26.3	18.4 - 34.1	1,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	3.2 *	0.8 - 5.5	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	8.8	4.4 - 13.2	600	9.8	8.4 - 11.2	25,300
Woman or partner lost job	✓	11.8	6.5 - 17.1	800	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.5	9.7 - 23.3	1,100	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	7.3 *	2.5 - 12.2	500	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	8.3 *	2.5 - 14.2	600	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	12.2	5.9 - 18.6	800	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†		--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	5.6 *	2.0 - 9.2	400	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	15.0	8.2 - 21.8	1,000	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	41.7	32.5 - 51.0	2,800	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	18.3	11.6 - 25.1	1,200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	88.3	82.5 - 94.1	5,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	71.5	62.2 - 80.7	4,800	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	37.0	28.0 - 46.1	2,500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	93.5 *	88.1 - 98.9	6,300	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	59.3	50.0 - 68.5	4,000	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	82.4	75.1 - 89.6	5,500	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	46.2	36.5 - 55.8	3,000	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	68.0	58.8 - 77.3	4,300	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	25.0	16.4 - 33.5	1,600	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Santa Clara County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Santa Clara County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	64.8	55.9 - 73.7	4,400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	79.8	72.4 - 87.1	5,200	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	92.0 *	86.9 - 97.1	6,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.1	12.2 - 26.0	1,300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	34.2	25.3 - 43.1	2,300	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	45.5	36.3 - 54.8	3,000	40.3	38.0 - 42.5	104,200
Uninsured	♦	35.5	26.7 - 44.3	2,400	37.2	34.9 - 39.5	96,200
Private	♦	16.7	9.0 - 24.4	1,100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	81.1	73.0 - 89.1	5,500	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	15.7	8.0 - 23.5	1,100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	65.4	56.1 - 74.7	4,300	59.9	57.6 - 62.2	153,800
Uninsured	♦	19.8	12.4 - 27.3	1,300	22.5	20.5 - 24.5	57,700
Private	♦	14.0	6.5 - 21.6	900	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	81.3	73.0 - 89.6	5,400	84.6	82.9 - 86.3	214,500
Uninsured	♦	3.2 *	0.1 - 6.4	200	3.0	2.2 - 3.9	7,700
Private	♦	10.2 *	3.0 - 17.4	700	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.8	5.8 - 15.9	700	9.8	8.4 - 11.2	25,400
20-34	♦	73.4	64.8 - 81.9	4,900	77.9	76.1 - 79.8	202,100
35+	♦	15.8	8.0 - 23.6	1,100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	25.1	17.2 - 33.1	1,700	28.0	25.9 - 30.2	71,900
Unmarried	↑	72.2	63.9 - 80.6	4,800	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	81.3	74.2 - 88.4	5,400	70.8	68.9 - 72.6	181,600
Black	↓	3.4	2.4 - 4.4	200	7.7	7.1 - 8.3	19,700
White	↓	5.7 *	0.5 - 10.9	400	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	9.5	4.3 - 14.8	600	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	50.8	41.4 - 60.2	3,400	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	58.1	48.9 - 67.4	3,900	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	28.7	20.3 - 37.2	1,800	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	62.6	53.3 - 71.9	4,000	69.6	67.5 - 71.8	168,400
101-200%	♦	27.8	19.8 - 35.9	1,800	26.3	24.2 - 28.3	63,500
> 200%	↑	9.6 *	2.5 - 16.6	600	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Santa Clara County was 195.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Santa Cruz County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Santa Cruz County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✗	82.1	76.1 - 88.0	1,300	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	3.3 *	0.9 - 5.6	< 100	3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	5.6	2.8 - 8.3	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✓	30.9	23.8 - 37.9	500	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.2	20.9 - 35.5	300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	29.9	22.6 - 37.2	400	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	22.7	15.5 - 29.9	200	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	43.3	34.9 - 51.8	500	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	✗	33.5	26.7 - 40.3	500	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	10.9	6.3 - 15.4	200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	19.4	13.6 - 25.2	300	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	17.4	11.8 - 23.0	300	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✓	22.0	16.2 - 27.8	300	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	7.0	3.3 - 10.7	100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	8.1	4.3 - 11.9	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.7	13.2 - 24.1	300	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	17.3	11.9 - 22.6	300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	8.1	4.2 - 12.0	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	8.8	4.9 - 12.7	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✓	5.8	2.6 - 9.1	100	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†					3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✓	1.8 *	0.2 - 3.4	< 100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	10.0	5.9 - 14.2	200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.3 *	0.4 - 4.2	< 100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	35.8	29.0 - 42.6	600	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.6	9.6 - 19.7	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	88.5	83.9 - 93.0	1,300	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	81.2	75.8 - 86.5	1,200	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	56.0	48.9 - 63.2	800	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✓	97.0 *	94.8 - 99.1	1,500	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	62.5	55.6 - 69.4	1,000	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	91.6	87.4 - 95.9	1,400	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	46.5	39.2 - 53.7	700	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	77.0	69.9 - 84.2	900	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	24.5	18.0 - 30.9	300	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Santa Cruz County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Santa Cruz County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↑	73.4	67.3 - 79.4	1,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	86.5	81.7 - 91.4	1,300	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	85.4	80.5 - 90.2	1,300	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	20.5	14.7 - 26.4	300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	45.7	38.6 - 52.8	700	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	37.3	30.5 - 44.1	600	40.3	38.0 - 42.5	104,200
Uninsured	♦	39.2	32.3 - 46.0	600	37.2	34.9 - 39.5	96,200
Private	♦	18.8	12.5 - 25.1	300	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	87.7	82.7 - 92.8	1,300	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	9.0	4.4 - 13.6	100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	55.8	48.8 - 62.9	800	59.9	57.6 - 62.2	153,800
Uninsured	↑	33.3	26.7 - 39.9	500	22.5	20.5 - 24.5	57,700
Private	♦	10.5	5.8 - 15.3	200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	89.4	84.6 - 94.1	1,400	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	5.0 *	1.3 - 8.7	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.0	6.3 - 15.7	200	9.8	8.4 - 11.2	25,400
20-34	♦	73.1	66.8 - 79.4	1,100	77.9	76.1 - 79.8	202,100
35+	♦	15.9	10.9 - 21.0	200	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	40.3	33.3 - 47.3	600	28.0	25.9 - 30.2	71,900
Unmarried	♦	59.7	52.6 - 66.8	900	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	91.2	87.9 - 94.5	1,400	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↓	7.0	3.9 - 10.0	100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	58.2	51.2 - 65.2	900	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	59.6	52.6 - 66.5	900	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	48.5	41.2 - 55.8	700	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	70.0	63.4 - 76.6	1,000	69.6	67.5 - 71.8	168,400
101-200%	♦	27.6	21.2 - 34.0	400	26.3	24.2 - 28.3	63,500
> 200%	♦	2.4 *	0.4 - 4.3	< 100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Santa Cruz County was 223.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Shasta County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Shasta County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	86.7	81.5 - 92.0	1,000	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†		--			2.5	2.0 - 3.1	6,400
Asthma†	♦	10.5	6.5 - 14.4	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	22.8	15.8 - 29.9	300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	23.1	16.4 - 29.8	300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	26.9	20.1 - 33.6	300	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	16.2	10.2 - 22.3	200	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	51.2	42.5 - 59.9	500	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	27.2	19.9 - 34.4	300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	✗	17.9	11.5 - 24.3	200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	✗	28.6	21.0 - 36.2	300	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	✗	22.9	15.9 - 30.0	300	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✗	49.5	41.5 - 57.6	600	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	10.2	5.3 - 15.2	100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	9.7	5.5 - 13.9	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	21.3	15.0 - 27.7	300	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	✗	22.3	15.9 - 28.7	300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	12.8	7.2 - 18.4	200	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	✓	2.4 *	0.5 - 4.4	< 100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	42.2	34.3 - 50.0	500	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✗	20.7	13.8 - 27.6	200	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	30.5	23.0 - 38.1	400	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✗	22.3	15.6 - 29.0	300	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.0 *	0.7 - 5.3	< 100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	48.0	40.2 - 55.8	600	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	15.8	9.9 - 21.7	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	81.3	74.6 - 88.1	1,000	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	73.2	66.2 - 80.1	900	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	40.9	33.4 - 48.4	500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.6 *	88.0 - 97.2	1,100	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	78.2	71.7 - 84.7	900	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	81.0	74.8 - 87.1	1,000	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	48.3	40.2 - 56.3	600	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	68.7	60.8 - 76.5	700	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	33.2	24.4 - 42.0	300	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Shasta County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Shasta County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	57.9	50.3 - 65.6	700	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↓	77.4	69.8 - 85.1	900	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	78.9	72.0 - 85.9	900	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	12.9	7.9 - 18.0	200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	55.7	48.0 - 63.4	700	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	54.7	47.1 - 62.3	700	40.3	38.0 - 42.5	104,200
Uninsured	↓	25.2	18.4 - 32.0	300	37.2	34.9 - 39.5	96,200
Private	♦	14.9	10.1 - 19.8	200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	90.7	86.8 - 94.7	1,100	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↓	6.2	2.9 - 9.5	100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	75.3	68.9 - 81.6	900	59.9	57.6 - 62.2	153,800
Uninsured	↓	11.7	6.7 - 16.7	100	22.5	20.5 - 24.5	57,700
Private	♦	10.0	5.8 - 14.3	100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	90.0	85.7 - 94.3	1,100	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	5.7 *	2.3 - 9.2	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	12.8	7.3 - 18.3	200	9.8	8.4 - 11.2	25,400
20-34	♦	79.8	73.1 - 86.5	1,000	77.9	76.1 - 79.8	202,100
35+	♦	7.4 *	2.9 - 11.8	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↓	16.7	10.6 - 22.8	200	28.0	25.9 - 30.2	71,900
Unmarried	♦	64.2	56.7 - 71.7	800	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	10.4	5.5 - 15.4	100	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	74.5	68.6 - 80.4	900	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↓	3.5 *	1.1 - 6.0	< 100	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	7.0 *	2.8 - 11.3	100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	6.1 *	2.0 - 10.1	100	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	44.4	36.6 - 52.2	500	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	73.9	67.3 - 80.5	800	69.6	67.5 - 71.8	168,400
101-200%	♦	20.0	14.1 - 25.9	200	26.3	24.2 - 28.3	63,500
> 200%	♦	6.1	2.5 - 9.6	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Shasta County was 207.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Solano County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Solano County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	90.6	86.3 - 95.0	2,100	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†	♦	5.2 *	1.2 - 9.2	100	2.5	2.0 - 3.1	6,400
Asthma†	♦	11.8	6.5 - 17.1	300	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	20.8	14.1 - 27.5	500	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	30.0	22.2 - 37.8	700	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	26.1	19.1 - 33.0	600	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	14.0	8.4 - 19.6	300	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	55.0	46.4 - 63.6	1,100	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	31.8	24.0 - 39.7	700	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.1	4.8 - 13.4	200	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	21.3	15.0 - 27.5	500	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	21.0	14.1 - 28.0	500	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✗	41.3	33.0 - 49.6	900	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	10.3	5.7 - 15.0	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	✗	18.2	11.7 - 24.7	400	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	23.9	17.5 - 30.3	600	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	✗	24.0	17.4 - 30.7	600	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.9	6.0 - 17.8	300	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	8.0 *	2.7 - 13.4	200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	20.4	13.9 - 26.9	500	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✗	6.7	3.4 - 10.0	200	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	14.6	9.1 - 20.1	300	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	15.8	9.6 - 22.1	400	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.8 *	0.6 - 7.0	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	42.6	34.5 - 50.6	1,000	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	19.3	12.3 - 26.3	400	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	84.3	78.4 - 90.3	1,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	69.7	62.1 - 77.4	1,600	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	49.4	41.3 - 57.5	1,100	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	94.5	91.2 - 97.7	2,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	70.7	63.7 - 77.7	1,600	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	82.7	77.2 - 88.2	1,900	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	48.0	39.8 - 56.2	1,100	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	65.9	57.3 - 74.6	1,100	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	29.8	21.2 - 38.5	500	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Solano County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Solano County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	62.0	54.0 - 70.0	1,400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	85.1	79.9 - 90.4	2,000	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	86.8	81.8 - 91.8	2,000	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	↑	24.6	17.5 - 31.7	600	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	42.4	34.7 - 50.2	1,000	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	36.6	29.1 - 44.2	900	40.3	38.0 - 42.5	104,200
Uninsured	↓	25.2	18.5 - 31.9	600	37.2	34.9 - 39.5	96,200
Private	↑	26.9	19.2 - 34.7	600	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↓	71.9	64.2 - 79.7	1,700	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	17.6	11.2 - 24.0	400	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	57.7	49.6 - 65.8	1,300	59.9	57.6 - 62.2	153,800
Uninsured	↓	14.2	9.0 - 19.5	300	22.5	20.5 - 24.5	57,700
Private	♦	20.3	13.4 - 27.2	500	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↓	76.4	68.8 - 83.9	1,800	84.6	82.9 - 86.3	214,500
Uninsured	♦	4.6 *	0.6 - 8.5	100	3.0	2.2 - 3.9	7,700
Private	♦	13.2	7.2 - 19.2	300	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.2	5.1 - 13.3	200	9.8	8.4 - 11.2	25,400
20-34	♦	80.6	73.9 - 87.3	1,900	77.9	76.1 - 79.8	202,100
35+	♦	10.2	4.4 - 16.0	200	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	21.8	14.8 - 28.9	500	28.0	25.9 - 30.2	71,900
Unmarried	♦	61.2	53.3 - 69.1	1,400	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	46.1	38.3 - 53.9	1,100	70.8	68.9 - 72.6	181,600
Black	↑	19.8	16.0 - 23.5	500	7.7	7.1 - 8.3	19,700
White	↑	22.0	14.9 - 29.0	500	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	10.8	5.1 - 16.5	300	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	32.7	25.0 - 40.5	800	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	26.9	19.6 - 34.3	600	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	37.4	29.8 - 45.1	800	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	62.9	54.6 - 71.3	1,400	69.6	67.5 - 71.8	168,400
101-200%	♦	33.0	24.8 - 41.3	700	26.3	24.2 - 28.3	63,500
> 200%	♦	4.0 *	0.6 - 7.4	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Solano County was 189.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Sonoma County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Sonoma County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	90.3	85.6 - 95.0	2,000	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	4.5 *	1.5 - 7.5	100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	4.4 *	1.2 - 7.6	100	2.5	2.0 - 3.1	6,400
Asthma†	♦	12.8	7.0 - 18.6	300	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✓	30.4	22.6 - 38.2	700	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	23.2	15.6 - 30.9	400	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	27.5	19.5 - 35.5	500	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	21.9	13.4 - 30.3	400	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	49.2	39.1 - 59.3	800	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	25.9	18.2 - 33.5	600	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	12.0	5.6 - 18.5	300	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.3	13.1 - 27.5	400	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	16.5	10.4 - 22.5	400	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	31.8	23.9 - 39.7	700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	8.6 *	2.6 - 14.6	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	10.1 *	3.8 - 16.4	200	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	20.2	12.9 - 27.6	400	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	✗	23.0	15.3 - 30.8	500	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	9.9	4.2 - 15.5	200	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	6.9 *	2.1 - 11.7	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	14.0	7.7 - 20.3	300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†		--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	5.9 *	0.8 - 11.0	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	17.1	9.7 - 24.4	400	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	35.6	27.2 - 44.0	800	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.8	9.5 - 20.2	300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	88.5	83.6 - 93.5	1,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	✓	83.9	78.0 - 89.9	1,800	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	47.0	38.5 - 55.5	1,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	93.7 *	89.3 - 98.1	2,000	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	74.0	66.7 - 81.3	1,600	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	90.1	85.3 - 94.8	1,900	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	59.3	50.6 - 67.9	1,200	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	75.1	66.6 - 83.5	1,400	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	44.1	34.4 - 53.8	800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Sonoma County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Sonoma County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↑	74.6	66.9 - 82.3	1,600	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	89.8	84.6 - 95.0	1,900	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	94.9 *	91.0 - 98.8	2,000	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	12.3	6.0 - 18.6	300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	38.8	30.6 - 46.9	800	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	33.0	25.4 - 40.6	700	40.3	38.0 - 42.5	104,200
Uninsured	♦	40.0	31.8 - 48.2	900	37.2	34.9 - 39.5	96,200
Private	♦	23.2	15.4 - 31.0	500	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	86.6	81.0 - 92.2	1,900	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	9.7	4.7 - 14.7	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	49.3	40.7 - 57.9	1,000	59.9	57.6 - 62.2	153,800
Uninsured	↑	33.8	25.8 - 41.7	700	22.5	20.5 - 24.5	57,700
Private	♦	15.2	8.8 - 21.6	300	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	86.8	80.6 - 93.0	1,800	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	8.0 *	2.8 - 13.2	200	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	7.6 *	3.0 - 12.2	200	9.8	8.4 - 11.2	25,400
20-34	♦	75.4	68.2 - 82.6	1,600	77.9	76.1 - 79.8	202,100
35+	♦	17.0	10.9 - 23.1	400	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	30.0	22.1 - 37.9	600	28.0	25.9 - 30.2	71,900
Unmarried	↓	52.8	44.4 - 61.2	1,100	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	70.7	62.7 - 78.7	1,500	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	22.7	15.1 - 30.3	500	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	53.0	44.6 - 61.4	1,100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	51.2	42.8 - 59.6	1,100	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	26.4	19.3 - 33.6	600	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	56.0	47.2 - 64.9	1,100	69.6	67.5 - 71.8	168,400
101-200%	↑	36.7	28.0 - 45.3	700	26.3	24.2 - 28.3	63,500
> 200%	♦	7.3 *	2.9 - 11.7	100	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Sonoma County was 167.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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MIHA Data Snapshot, Prenatal WIC Participants Stanislaus County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Stanislaus County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	90.3	86.5 - 94.0	4,300	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	4.6 *	1.5 - 7.7	200	3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.4 *	1.1 - 5.7	200	2.5	2.0 - 3.1	6,400
Asthma†	♦	10.8	6.4 - 15.2	500	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	28.7	22.0 - 35.3	1,300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	27.0	20.6 - 33.4	1,200	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	28.2	21.5 - 35.0	1,300	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	20.4	13.7 - 27.0	800	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	45.6	37.6 - 53.6	1,800	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	29.3	22.4 - 36.3	1,400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	14.8	8.9 - 20.6	700	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	22.6	15.9 - 29.2	1,100	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	✗	22.7	16.1 - 29.3	1,100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	37.4	30.1 - 44.7	1,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.2 *	1.7 - 6.8	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	10.1	5.3 - 14.9	500	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	23.5	16.8 - 30.2	1,100	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	18.6	12.6 - 24.7	900	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	13.5	8.3 - 18.6	600	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.5 *	0.9 - 8.1	200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	15.3	10.0 - 20.6	700	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	6.3 *	2.4 - 10.3	300	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	12.1	7.1 - 17.0	600	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	18.5	12.7 - 24.3	900	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.2 *	0.7 - 5.7	100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	37.8	30.5 - 45.2	1,800	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	19.9	14.1 - 25.7	900	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	81.2	75.1 - 87.3	3,700	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	74.0	67.7 - 80.2	3,300	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	33.1	26.1 - 40.0	1,500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	88.9	84.6 - 93.3	4,000	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	54.5	47.0 - 61.9	2,400	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	73.3	66.7 - 79.9	3,200	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	41.3	33.8 - 48.7	1,800	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	49.6	41.2 - 58.1	1,700	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	14.4	8.6 - 20.2	500	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Stanislaus County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Stanislaus County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	66.4	59.3 - 73.5	3,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	81.5	75.0 - 87.9	3,800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	81.5	75.5 - 87.4	3,800	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	17.8	11.7 - 23.9	800	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	49.8	42.4 - 57.2	2,400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	44.1	36.7 - 51.5	2,100	40.3	38.0 - 42.5	104,200
Uninsured	♦	32.1	25.2 - 39.0	1,500	37.2	34.9 - 39.5	96,200
Private	♦	22.8	16.8 - 28.7	1,100	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	85.4	80.3 - 90.5	4,000	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	13.3	8.3 - 18.2	600	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	65.0	57.8 - 72.2	3,100	59.9	57.6 - 62.2	153,800
Uninsured	♦	18.0	12.0 - 23.9	800	22.5	20.5 - 24.5	57,700
Private	♦	16.3	10.9 - 21.8	800	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	88.1	83.3 - 93.0	3,900	84.6	82.9 - 86.3	214,500
Uninsured	♦	3.1 *	0.5 - 5.6	100	3.0	2.2 - 3.9	7,700
Private	♦	6.6	2.9 - 10.2	300	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.3	5.6 - 15.0	500	9.8	8.4 - 11.2	25,400
20-34	♦	78.2	71.6 - 84.7	3,700	77.9	76.1 - 79.8	202,100
35+	♦	11.5	6.3 - 16.8	500	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	24.9	18.5 - 31.3	1,100	28.0	25.9 - 30.2	71,900
Unmarried	♦	60.1	52.8 - 67.4	2,800	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	71.1	64.6 - 77.6	3,400	70.8	68.9 - 72.6	181,600
Black	↓	2.5	1.7 - 3.3	100	7.7	7.1 - 8.3	19,700
White	↑	22.7	16.7 - 28.7	1,100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	3.7 *	0.4 - 7.1	200	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	36.4	29.2 - 43.6	1,700	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	28.1	21.5 - 34.7	1,300	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	72.6	66.1 - 79.2	3,400	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	69.4	62.3 - 76.5	3,100	69.6	67.5 - 71.8	168,400
101-200%	♦	26.0	19.2 - 32.8	1,100	26.3	24.2 - 28.3	63,500
> 200%	♦	4.6 *	1.6 - 7.7	200	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Stanislaus County was 242.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Tulare County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Tulare County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.1	83.7 - 92.6	4,700	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	4.1 *	1.5 - 6.7	200	3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.1 *	0.7 - 5.5	200	2.5	2.0 - 3.1	6,400
Asthma†	♦	5.7	2.4 - 9.1	300	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	22.4	16.3 - 28.4	1,200	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	30.4	23.5 - 37.2	1,500	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	31.4	24.5 - 38.3	1,500	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	13.5	7.9 - 19.0	500	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	45.3	37.3 - 53.3	1,800	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	✓	17.9	12.5 - 23.3	1,000	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.4	5.7 - 13.1	500	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	13.4	8.9 - 18.0	700	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	11.6	7.0 - 16.2	600	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	28.1	21.7 - 34.5	1,500	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	3.1 *	0.9 - 5.3	200	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	7.5	3.7 - 11.3	400	9.8	8.4 - 11.2	25,300
Woman or partner lost job	✓	14.9	10.0 - 19.8	800	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	✓	9.0	4.9 - 13.0	500	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.8	7.2 - 16.5	600	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.7	2.0 - 7.5	300	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✓	6.9	3.5 - 10.2	400	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	2.5 *	0.1 - 4.8	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	4.3 *	1.6 - 7.0	200	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	11.7	7.1 - 16.4	600	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	37.8	30.9 - 44.7	2,000	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	11.1	7.2 - 15.0	600	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	85.6	80.8 - 90.5	4,500	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	70.6	64.1 - 77.2	3,600	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	44.3	37.1 - 51.4	2,300	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	85.3	80.4 - 90.2	4,400	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✗	46.5	39.3 - 53.7	2,400	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✗	63.1	56.1 - 70.1	3,300	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	34.7	27.8 - 41.7	1,800	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✗	42.0	33.8 - 50.3	1,700	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	16.4	10.2 - 22.5	600	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Tulare County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Tulare County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↑	71.3	64.8 - 77.9	3,800	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↑	91.5	87.5 - 95.4	4,800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	84.8	79.7 - 89.8	4,500	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	↓	11.9	7.6 - 16.3	600	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	64.2	57.5 - 71.0	3,400	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	54.9	47.8 - 62.0	2,900	40.3	38.0 - 42.5	104,200
Uninsured	♦	32.1	25.4 - 38.7	1,700	37.2	34.9 - 39.5	96,200
Private	↓	10.3	6.2 - 14.3	500	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	93.7 *	89.8 - 97.6	5,000	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	↓	3.5 *	1.1 - 6.0	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	73.4	67.3 - 79.5	3,900	59.9	57.6 - 62.2	153,800
Uninsured	♦	18.9	13.5 - 24.4	1,000	22.5	20.5 - 24.5	57,700
Private	↓	6.4	3.4 - 9.4	300	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	93.8	90.6 - 97.0	4,900	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	↓	2.6 *	0.7 - 4.5	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	12.9	8.1 - 17.7	700	9.8	8.4 - 11.2	25,400
20-34	♦	75.8	69.7 - 81.9	4,000	77.9	76.1 - 79.8	202,100
35+	♦	11.2	6.8 - 15.7	600	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	30.4	23.8 - 37.0	1,600	28.0	25.9 - 30.2	71,900
Unmarried	♦	57.9	50.9 - 64.8	3,100	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	86.7	82.5 - 91.0	4,600	70.8	68.9 - 72.6	181,600
Black	↓	1.6	1.2 - 2.0	100	7.7	7.1 - 8.3	19,700
White	♦	8.9	5.0 - 12.7	500	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	38.6	31.8 - 45.4	2,100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	37.1	30.5 - 43.8	2,000	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↑	82.8	77.0 - 88.6	4,000	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↑	76.6	70.5 - 82.8	3,900	69.6	67.5 - 71.8	168,400
101-200%	♦	20.2	14.4 - 26.1	1,000	26.3	24.2 - 28.3	63,500
> 200%	♦	3.1 *	0.7 - 5.6	200	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Tulare County was 263.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Ventura County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Ventura County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.8	83.1 - 94.5	4,200	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†		--			3.2	2.4 - 4.0	8,100
Hypertension†	♦	4.4 *	0.1 - 8.6	200	2.5	2.0 - 3.1	6,400
Asthma†	♦	12.4	6.0 - 18.8	600	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	26.4	18.7 - 34.2	1,300	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	25.8	17.6 - 34.0	1,000	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	26.9	17.8 - 36.1	1,100	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	17.6	10.3 - 24.8	600	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	44.8	34.7 - 54.9	1,500	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	29.7	21.4 - 38.1	1,400	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	15.0	7.4 - 22.6	700	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	18.9	11.5 - 26.4	900	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	18.0	10.5 - 25.4	900	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	37.3	28.2 - 46.4	1,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	7.4 *	2.6 - 12.1	300	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	12.6	6.3 - 19.0	600	9.8	8.4 - 11.2	25,300
Woman or partner lost job	✗	30.0	21.3 - 38.8	1,400	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	19.1	12.0 - 26.2	900	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	9.9	4.1 - 15.7	500	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	5.2 *	1.3 - 9.0	200	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	8.1	3.5 - 12.8	400	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†		--			3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	6.4 *	1.5 - 11.3	300	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	17.2	10.0 - 24.3	800	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	35.8	27.1 - 44.5	1,700	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.9	9.1 - 20.8	700	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	85.2	78.9 - 91.6	4,000	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	✓	85.7	79.2 - 92.2	4,000	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	42.9	33.7 - 52.1	2,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	90.0	84.3 - 95.6	4,200	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	49.3	40.1 - 58.6	2,300	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	79.8	72.3 - 87.3	3,600	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	39.2	30.0 - 48.4	1,700	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	61.9	51.9 - 72.0	2,300	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	24.2	15.5 - 32.8	900	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Ventura County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Ventura County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	65.1	56.8 - 73.4	3,100	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	82.4	75.5 - 89.4	3,800	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	83.1	76.0 - 90.1	3,900	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	18.8	10.9 - 26.6	900	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	40.1	31.3 - 48.9	1,900	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↓	25.7	18.2 - 33.3	1,200	40.3	38.0 - 42.5	104,200
Uninsured	↑	52.8	43.6 - 61.9	2,500	37.2	34.9 - 39.5	96,200
Private	♦	16.8	9.8 - 23.9	800	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	86.1	79.8 - 92.5	4,100	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	10.4	4.5 - 16.4	500	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	41.1	32.0 - 50.1	1,900	59.9	57.6 - 62.2	153,800
Uninsured	↑	41.3	32.1 - 50.5	1,900	22.5	20.5 - 24.5	57,700
Private	♦	14.6	7.7 - 21.6	700	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	87.2	80.8 - 93.6	4,100	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	8.2 *	2.4 - 14.0	400	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.6 *	4.3 - 17.0	500	9.8	8.4 - 11.2	25,400
20-34	♦	77.4	69.3 - 85.4	3,700	77.9	76.1 - 79.8	202,100
35+	♦	12.0	6.0 - 18.0	600	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	32.0	23.6 - 40.5	1,500	28.0	25.9 - 30.2	71,900
Unmarried	♦	59.1	49.9 - 68.3	2,800	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	86.1	79.9 - 92.3	4,000	70.8	68.9 - 72.6	181,600
Black	↓	1.1	0.5 - 1.7	100	7.7	7.1 - 8.3	19,700
White	♦	11.1	5.3 - 16.9	500	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander		--			7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	53.4	44.2 - 62.5	2,500	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	51.6	42.4 - 60.8	2,400	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	25.3	17.8 - 32.9	1,200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	75.6	67.6 - 83.6	3,200	69.6	67.5 - 71.8	168,400
101-200%	♦	21.9	14.1 - 29.7	900	26.3	24.2 - 28.3	63,500
> 200%		--			4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Ventura County was 153.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Yolo County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Yolo County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	92.5	88.5 - 96.5	1,100	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	1.8 *	0.1 - 3.6	< 100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.3 *	0.2 - 4.3	< 100	2.5	2.0 - 3.1	6,400
Asthma†	♦	9.3	4.3 - 14.3	100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	21.3	14.1 - 28.6	200	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	27.2	20.1 - 34.3	300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	31.7	24.2 - 39.1	300	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	12.5	7.7 - 17.2	100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	50.4	41.8 - 58.9	500	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	25.1	17.3 - 32.8	300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	11.5	6.0 - 17.1	100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	✓	12.1	6.9 - 17.3	100	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	10.6	5.8 - 15.4	100	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	27.1	19.9 - 34.2	300	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.6 *	1.3 - 8.0	100	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	6.4 *	2.5 - 10.3	100	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	26.0	18.3 - 33.7	300	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.2	10.3 - 22.1	200	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	6.6	2.9 - 10.4	100	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.9 *	1.4 - 8.3	100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	14.6	9.1 - 20.1	200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	4.8 *	1.1 - 8.5	100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	8.2	3.4 - 12.9	100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	13.6	8.2 - 19.0	200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†		--			4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	31.5	24.2 - 38.7	400	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.5	9.0 - 20.0	200	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	88.1	83.2 - 93.0	1,000	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	78.6	71.7 - 85.4	900	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	47.0	38.5 - 55.5	500	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.8 *	87.8 - 97.9	1,000	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	65.5	57.3 - 73.7	700	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	85.8	79.8 - 91.8	900	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	48.8	40.2 - 57.4	500	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	66.3	57.0 - 75.7	600	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	28.9	20.1 - 37.7	200	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Yolo County, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Yolo County			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	54.8	46.3 - 63.3	600	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	86.8	81.4 - 92.3	1,000	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	90.6	85.9 - 95.4	1,000	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	23.5	15.8 - 31.2	300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	43.2	35.5 - 51.0	500	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	38.5	30.9 - 46.1	400	40.3	38.0 - 42.5	104,200
Uninsured	♦	36.1	28.4 - 43.7	400	37.2	34.9 - 39.5	96,200
Private	♦	22.6	15.5 - 29.7	300	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	82.4	76.3 - 88.5	900	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	14.6	9.0 - 20.3	200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	53.7	45.3 - 62.2	600	59.9	57.6 - 62.2	153,800
Uninsured	♦	25.2	18.1 - 32.4	300	22.5	20.5 - 24.5	57,700
Private	♦	21.1	14.1 - 28.0	200	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	88.3	83.0 - 93.6	1,000	84.6	82.9 - 86.3	214,500
Uninsured		--			3.0	2.2 - 3.9	7,700
Private	♦	9.8	4.7 - 14.8	100	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	8.2	3.5 - 12.8	100	9.8	8.4 - 11.2	25,400
20-34	♦	80.6	74.1 - 87.2	900	77.9	76.1 - 79.8	202,100
35+	♦	11.2	6.2 - 16.1	100	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	27.6	20.0 - 35.3	300	28.0	25.9 - 30.2	71,900
Unmarried	↓	47.3	38.9 - 55.7	500	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	60.4	51.9 - 69.0	700	70.8	68.9 - 72.6	181,600
Black		--			7.7	7.1 - 8.3	19,700
White	↑	24.3	17.2 - 31.4	300	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	12.0	5.6 - 18.4	100	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	♦	41.9	34.1 - 49.8	500	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	41.6	33.7 - 49.6	500	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	44.4	36.0 - 52.8	500	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	65.0	56.7 - 73.2	700	69.6	67.5 - 71.8	168,400
101-200%	♦	32.1	23.9 - 40.3	300	26.3	24.2 - 28.3	63,500
> 200%		--			4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Yolo County was 177.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the county in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the county was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

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Regional Data Snapshots of Prenatal WIC Participants

“If it had not been for my WIC vouchers there were times when myself and my family would not have had enough food to eat. WIC helped me to eat healthy foods during my pregnancy”

— MIHA 2013 Respondent

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MIHA Data Snapshot, Prenatal WIC Participants Central Coast Region, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Central Coast Region			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	✗	85.7	83.0 - 88.3	13,000	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	3.6	2.3 - 5.0	500	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.6 *	1.0 - 4.1	400	2.5	2.0 - 3.1	6,400
Asthma†	♦	7.6	5.2 - 10.1	1,100	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	24.0	20.8 - 27.2	3,700	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	29.7	25.9 - 33.5	3,700	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	27.5	23.5 - 31.4	3,400	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	19.6	16.3 - 22.9	2,100	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	43.1	38.7 - 47.6	4,700	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	✗	29.8	26.2 - 33.3	4,500	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	11.5	8.7 - 14.3	1,700	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	18.3	15.2 - 21.3	2,800	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	16.4	13.4 - 19.4	2,500	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	30.5	26.8 - 34.2	4,500	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	5.3	3.6 - 7.1	800	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	8.5	6.1 - 10.8	1,300	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	23.1	19.6 - 26.6	3,500	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.8	13.8 - 19.8	2,500	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	9.4	7.1 - 11.8	1,400	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	6.1	4.4 - 7.8	900	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✓	7.8	5.9 - 9.8	1,200	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✓	1.8 *	0.6 - 3.1	300	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✓	3.7	2.1 - 5.4	600	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	13.5	10.7 - 16.4	2,000	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.6	1.3 - 4.0	400	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	✓	35.9	32.2 - 39.6	5,400	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	14.9	12.2 - 17.6	2,300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	86.9	84.2 - 89.6	13,000	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	✓	80.7	77.8 - 83.7	12,200	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	47.9	44.0 - 51.8	7,200	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	92.4	90.2 - 94.6	13,900	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	54.9	51.0 - 58.8	8,300	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	84.3	81.3 - 87.3	12,400	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	41.1	37.2 - 44.9	5,900	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	66.5	62.2 - 70.8	7,800	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	23.2	19.5 - 26.8	2,700	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Central Coast Region, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Central Coast Region			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	62.1	58.4 - 65.8	9,400	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	83.6	80.6 - 86.5	12,300	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	85.8	82.9 - 88.6	13,000	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	18.4	15.2 - 21.6	2,700	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	39.8	36.1 - 43.6	6,000	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↓	33.9	30.4 - 37.4	5,100	40.3	38.0 - 42.5	104,200
Uninsured	↑	45.5	41.7 - 49.4	6,900	37.2	34.9 - 39.5	96,200
Private	♦	15.9	13.0 - 18.8	2,400	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	86.1	83.4 - 88.8	13,000	81.7	79.9 - 83.5	211,300
Uninsured	♦	2.1	1.1 - 3.2	300	1.6	1.0 - 2.2	4,100
Private	↓	8.2	5.9 - 10.4	1,200	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↓	51.7	47.9 - 55.6	7,800	59.9	57.6 - 62.2	153,800
Uninsured	↑	34.3	30.6 - 38.1	5,100	22.5	20.5 - 24.5	57,700
Private	↓	10.8	8.2 - 13.5	1,600	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	88.2	85.5 - 90.9	13,200	84.6	82.9 - 86.3	214,500
Uninsured	↓	1.6	0.7 - 2.4	200	3.0	2.2 - 3.9	7,700
Private	↓	5.8	3.6 - 7.9	900	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.4	7.9 - 13.0	1,600	9.8	8.4 - 11.2	25,400
20-34	♦	77.0	73.6 - 80.4	11,700	77.9	76.1 - 79.8	202,100
35+	♦	12.6	10.0 - 15.2	1,900	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↑	37.8	34.1 - 41.4	5,700	28.0	25.9 - 30.2	71,900
Unmarried	♦	59.7	55.9 - 63.6	9,000	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	87.5	84.9 - 90.0	13,300	70.8	68.9 - 72.6	181,600
Black	↓	1.2	0.9 - 1.6	200	7.7	7.1 - 8.3	19,700
White	↓	9.7	7.4 - 12.1	1,500	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↓	1.4 *	0.3 - 2.4	200	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	56.9	53.1 - 60.8	8,700	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	55.1	51.2 - 59.0	8,400	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	41.4	37.7 - 45.1	6,000	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	71.6	68.0 - 75.1	10,000	69.6	67.5 - 71.8	168,400
101-200%	♦	25.5	22.1 - 28.9	3,600	26.3	24.2 - 28.3	63,500
> 200%	♦	3.0	1.7 - 4.2	400	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Central Coast Region was 1,042.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the region in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the region was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Greater Sacramento Region, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Greater Sacramento Region Prenatal WIC Participants			California Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	89.5	86.3 - 92.7	13,300	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.1 *	0.9 - 3.4	300	3.2	2.4 - 4.0	8,100
Hypertension†	♦	4.0	1.8 - 6.2	600	2.5	2.0 - 3.1	6,400
Asthma†	♦	9.5	6.3 - 12.8	1,400	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	26.6	21.2 - 31.9	3,900	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	29.1	23.7 - 34.6	4,100	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	26.0	20.8 - 31.3	3,700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	15.2	10.6 - 19.9	1,900	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	43.5	37.4 - 49.7	5,500	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	22.7	17.9 - 27.4	3,300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	10.6	7.3 - 13.8	1,500	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	15.0	11.2 - 18.8	2,200	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	13.3	9.5 - 17.0	2,000	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	32.2	27.0 - 37.5	4,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.6	2.3 - 6.9	700	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	12.0	8.2 - 15.8	1,800	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.5	14.0 - 23.0	2,700	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	15.7	11.9 - 19.6	2,300	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.4	8.0 - 14.7	1,700	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.8	2.4 - 7.2	700	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	18.5	14.1 - 22.9	2,700	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	4.3	2.5 - 6.1	600	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	12.0	8.2 - 15.7	1,800	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	14.3	10.4 - 18.3	2,100	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	2.7 *	1.1 - 4.3	400	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	40.0	34.2 - 45.7	5,900	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	17.4	13.3 - 21.5	2,600	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	82.9	78.8 - 87.0	11,700	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	78.7	74.2 - 83.2	11,400	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	39.4	33.7 - 45.0	5,800	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	90.0	86.5 - 93.4	13,100	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	67.2	61.8 - 72.6	9,800	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	80.4	75.9 - 84.9	11,700	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	47.9	42.1 - 53.8	6,700	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	62.0	55.8 - 68.2	7,000	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	27.0	21.3 - 32.8	3,000	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Greater Sacramento Region, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		Greater Sacramento Region			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	62.5	57.0 - 68.1	9,200	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	86.0	81.6 - 90.3	12,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	81.9	77.7 - 86.0	12,100	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.1	14.5 - 23.8	2,700	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	53.0	47.3 - 58.8	7,800	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	46.3	40.7 - 51.9	6,800	40.3	38.0 - 42.5	104,200
Uninsured	↓	28.5	23.4 - 33.7	4,200	37.2	34.9 - 39.5	96,200
Private	♦	22.4	17.5 - 27.3	3,300	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	78.6	73.7 - 83.5	11,600	81.7	79.9 - 83.5	211,300
Uninsured		--			1.6	1.0 - 2.2	4,100
Private	♦	16.9	12.4 - 21.4	2,500	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	64.6	59.1 - 70.1	9,500	59.9	57.6 - 62.2	153,800
Uninsured	↓	16.6	12.4 - 20.9	2,400	22.5	20.5 - 24.5	57,700
Private	♦	16.3	12.0 - 20.6	2,400	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	82.9	78.3 - 87.4	12,100	84.6	82.9 - 86.3	214,500
Uninsured	♦	1.9 *	0.7 - 3.2	300	3.0	2.2 - 3.9	7,700
Private	♦	11.7	7.8 - 15.7	1,700	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	7.7	4.5 - 10.8	1,100	9.8	8.4 - 11.2	25,400
20-34	♦	81.3	76.9 - 85.7	12,100	77.9	76.1 - 79.8	202,100
35+	♦	11.0	7.8 - 14.3	1,600	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↓	18.6	14.1 - 23.0	2,700	28.0	25.9 - 30.2	71,900
Unmarried	♦	56.9	51.2 - 62.7	8,500	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	40.6	35.1 - 46.1	6,000	70.8	68.9 - 72.6	181,600
Black	↑	12.9	10.5 - 15.3	1,900	7.7	7.1 - 8.3	19,700
White	↑	31.0	25.8 - 36.2	4,600	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↑	14.5	9.8 - 19.2	2,100	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	35.0	29.7 - 40.4	5,200	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	31.9	26.6 - 37.2	4,600	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	52.9	47.2 - 58.6	7,600	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	66.8	61.0 - 72.6	9,300	69.6	67.5 - 71.8	168,400
101-200%	♦	29.2	23.4 - 34.9	4,100	26.3	24.2 - 28.3	63,500
> 200%	♦	4.0	1.9 - 6.2	600	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Greater Sacramento Region was 689.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the region in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the region was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants North/Mountain Region, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		North/Mountain Region Prenatal WIC Participants			California Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	85.9	81.8 - 90.0	6,400	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	3.7	1.7 - 5.6	300	3.2	2.4 - 4.0	8,100
Hypertension†	✗	4.7	2.4 - 6.9	300	2.5	2.0 - 3.1	6,400
Asthma†	✗	11.5	8.3 - 14.7	800	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	25.5	20.5 - 30.4	1,900	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	23.8	19.1 - 28.5	1,700	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	24.1	19.4 - 28.8	1,700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	✓	14.6	10.3 - 19.0	900	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	50.3	44.4 - 56.2	3,200	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	27.4	22.6 - 32.3	2,100	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	✗	14.3	10.4 - 18.2	1,100	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	20.2	15.9 - 24.5	1,500	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	✗	20.6	16.1 - 25.1	1,500	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	✗	39.5	34.2 - 44.9	2,900	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	8.0	4.9 - 11.1	600	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	10.5	7.4 - 13.7	800	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	19.3	15.0 - 23.6	1,400	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	16.3	12.7 - 19.8	1,200	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.9	8.4 - 15.5	900	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	✓	3.7	1.9 - 5.6	300	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	✗	31.4	26.6 - 36.2	2,300	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	✗	14.9	11.1 - 18.6	1,100	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	✗	20.5	16.4 - 24.6	1,500	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	✗	20.9	16.5 - 25.3	1,600	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.9	2.3 - 5.4	300	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	38.0	32.5 - 43.4	2,800	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	17.2	13.4 - 20.9	1,300	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	83.1	79.1 - 87.1	6,100	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	76.6	71.9 - 81.2	5,700	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	44.9	39.4 - 50.3	3,300	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	90.7	87.0 - 94.5	6,700	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✓	74.9	70.0 - 79.8	5,600	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	82.1	78.0 - 86.3	6,100	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	54.7	49.2 - 60.2	3,900	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	68.1	62.3 - 73.9	3,800	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	35.9	29.9 - 42.0	2,000	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants North/Mountain Region, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		North/Mountain Region			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	61.4	56.1 - 66.6	4,600	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	81.5	76.8 - 86.1	6,100	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	82.4	78.1 - 86.7	6,200	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	15.3	11.4 - 19.3	1,100	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	51.4	46.0 - 56.8	3,900	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	51.1	45.7 - 56.6	3,800	40.3	38.0 - 42.5	104,200
Uninsured	↓	28.3	23.3 - 33.3	2,100	37.2	34.9 - 39.5	96,200
Private	♦	16.2	12.3 - 20.1	1,200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	90.4	87.7 - 93.2	6,800	81.7	79.9 - 83.5	211,300
Uninsured					1.6	1.0 - 2.2	4,100
Private	↓	6.2	4.0 - 8.5	500	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	76.2	71.9 - 80.5	5,700	59.9	57.6 - 62.2	153,800
Uninsured	↓	11.4	8.3 - 14.5	800	22.5	20.5 - 24.5	57,700
Private	↓	10.8	7.6 - 13.9	800	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	92.6	90.1 - 95.0	6,800	84.6	82.9 - 86.3	214,500
Uninsured	↓	1.0 *	0.2 - 1.8	100	3.0	2.2 - 3.9	7,700
Private	↓	4.5	2.6 - 6.5	300	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	9.4	6.3 - 12.5	700	9.8	8.4 - 11.2	25,400
20-34	♦	82.0	77.7 - 86.2	6,200	77.9	76.1 - 79.8	202,100
35+	♦	8.6	5.4 - 11.8	600	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	↓	19.1	14.8 - 23.4	1,400	28.0	25.9 - 30.2	71,900
Unmarried	♦	62.3	57.0 - 67.5	4,600	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	26.2	21.0 - 31.3	2,000	70.8	68.9 - 72.6	181,600
Black	↓	1.7	1.2 - 2.2	100	7.7	7.1 - 8.3	19,700
White	↑	61.8	56.5 - 67.1	4,600	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↓	3.9	1.9 - 6.0	300	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	17.6	13.1 - 22.1	1,300	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	16.4	11.9 - 20.9	1,200	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	49.1	43.4 - 54.8	3,300	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	67.8	62.7 - 72.8	4,900	69.6	67.5 - 71.8	168,400
101-200%	♦	28.7	23.7 - 33.6	2,100	26.3	24.2 - 28.3	63,500
> 200%	♦	3.6	2.1 - 5.0	300	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in North/Mountain Region was 758.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the region in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the region was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants San Francisco Bay Area, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Francisco Bay Area Prenatal WIC Participants			California Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	90.3	88.5 - 92.1	27,600	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	3.2	2.3 - 4.2	1,000	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.5	1.7 - 3.4	800	2.5	2.0 - 3.1	6,400
Asthma†	♦	8.3	6.5 - 10.1	2,500	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	✓	26.2	23.0 - 29.4	8,000	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	28.3	24.8 - 31.7	7,800	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	25.1	21.9 - 28.3	7,000	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	22.2	18.7 - 25.7	5,300	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	41.5	37.5 - 45.5	10,000	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	26.7	23.7 - 29.7	8,100	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.3	7.5 - 11.1	2,800	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	21.1	18.1 - 24.2	6,500	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	16.9	14.3 - 19.6	5,200	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	29.2	26.0 - 32.3	8,700	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	✗	6.1	4.6 - 7.5	1,800	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	9.5	7.7 - 11.4	2,900	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.4	15.9 - 21.0	5,600	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	✗	17.9	15.1 - 20.6	5,400	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	9.0	7.1 - 10.9	2,700	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	6.6	4.7 - 8.4	2,000	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	12.5	10.3 - 14.6	3,800	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	4.0	2.9 - 5.2	1,200	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	7.3	5.7 - 8.8	2,200	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	12.4	9.8 - 14.9	3,700	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	3.5	2.3 - 4.8	1,100	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	37.6	34.1 - 41.1	11,500	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	16.9	14.4 - 19.3	5,100	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	86.1	83.9 - 88.4	25,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	76.3	73.0 - 79.7	23,000	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	42.7	39.2 - 46.2	12,800	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	93.6	91.8 - 95.5	28,100	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	59.6	56.0 - 63.2	17,900	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✓	83.4	80.7 - 86.0	24,900	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✓	45.6	41.9 - 49.3	13,300	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✓	67.4	63.6 - 71.2	16,600	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✓	27.9	24.3 - 31.5	6,800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Francisco Bay Area, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Francisco Bay Area			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	↑	69.1	65.8 - 72.4	21,200	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	84.6	82.0 - 87.2	25,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	↑	88.1	85.9 - 90.3	26,900	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	17.7	14.9 - 20.4	5,300	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↓	35.9	32.6 - 39.2	11,000	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	41.8	38.4 - 45.3	12,700	40.3	38.0 - 42.5	104,200
Uninsured	↓	29.7	26.5 - 32.9	9,000	37.2	34.9 - 39.5	96,200
Private	↑	23.7	20.4 - 26.9	7,200	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↓	78.2	75.0 - 81.4	23,900	81.7	79.9 - 83.5	211,300
Uninsured	♦	1.7	0.9 - 2.6	500	1.6	1.0 - 2.2	4,100
Private	↑	17.9	14.9 - 21.0	5,500	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	57.3	53.7 - 60.9	17,400	59.9	57.6 - 62.2	153,800
Uninsured	↓	18.2	15.6 - 20.8	5,500	22.5	20.5 - 24.5	57,700
Private	↑	20.7	17.3 - 24.0	6,300	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	82.2	79.1 - 85.3	24,600	84.6	82.9 - 86.3	214,500
Uninsured	♦	3.0	1.6 - 4.4	900	3.0	2.2 - 3.9	7,700
Private	↑	12.0	9.2 - 14.7	3,600	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	7.6	5.8 - 9.5	2,300	9.8	8.4 - 11.2	25,400
20-34	♦	77.2	74.1 - 80.2	23,600	77.9	76.1 - 79.8	202,100
35+	↑	15.2	12.6 - 17.8	4,700	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	26.3	23.2 - 29.4	8,000	28.0	25.9 - 30.2	71,900
Unmarried	♦	60.1	56.7 - 63.6	18,300	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↓	61.1	57.8 - 64.4	18,200	70.8	68.9 - 72.6	181,600
Black	↑	11.1	9.9 - 12.2	3,300	7.7	7.1 - 8.3	19,700
White	♦	12.3	9.9 - 14.8	3,700	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↑	15.0	12.3 - 17.8	4,500	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↑	53.8	50.3 - 57.3	16,500	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↑	50.9	47.4 - 54.5	15,400	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	↓	34.3	31.0 - 37.6	10,200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↓	61.8	58.1 - 65.5	17,600	69.6	67.5 - 71.8	168,400
101-200%	♦	29.2	25.9 - 32.5	8,300	26.3	24.2 - 28.3	63,500
> 200%	↑	9.0	6.2 - 11.8	2,600	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Francisco Bay Area was 1,612.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the region in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the region was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants San Joaquin Valley, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		San Joaquin Valley			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	87.7	85.5 - 90.0	38,500	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	2.5	1.8 - 3.3	1,100	3.2	2.4 - 4.0	8,100
Hypertension†	♦	2.4	1.5 - 3.3	1,100	2.5	2.0 - 3.1	6,400
Asthma†	♦	8.5	6.6 - 10.3	3,700	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	25.5	22.4 - 28.5	11,200	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	27.7	24.6 - 30.7	11,300	28.5	26.2 - 30.7	68,100
Obese before pregnancy	✗	28.9	25.8 - 32.0	11,800	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	18.7	15.5 - 21.9	6,500	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	✗	43.5	39.8 - 47.2	15,100	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	23.5	20.7 - 26.4	10,300	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	10.1	8.4 - 11.9	4,400	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	17.4	14.9 - 20.0	7,700	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	16.4	14.0 - 18.8	7,200	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	32.2	29.0 - 35.4	13,800	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	3.6	2.4 - 4.7	1,600	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	8.5	6.8 - 10.1	3,700	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	18.3	15.7 - 20.9	8,000	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	14.0	11.6 - 16.4	6,100	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	11.1	9.1 - 13.0	4,800	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	4.7	3.3 - 6.1	2,100	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	13.5	11.2 - 15.8	5,900	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	5.2	3.7 - 6.6	2,300	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	7.9	6.2 - 9.6	3,500	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	14.2	11.8 - 16.6	6,200	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	✓	2.0	1.3 - 2.8	900	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	37.9	34.7 - 41.1	16,500	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	17.1	14.5 - 19.7	7,500	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	82.2	79.6 - 84.8	35,100	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	75.2	72.4 - 78.1	32,300	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	✗	42.0	38.7 - 45.3	18,000	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	✗	87.2	84.9 - 89.4	37,400	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	✗	50.3	46.9 - 53.7	21,600	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	✗	70.9	67.9 - 74.0	30,100	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	✗	34.1	31.0 - 37.3	14,300	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	✗	48.5	44.6 - 52.4	15,800	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	✗	16.2	13.5 - 18.9	5,200	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants San Joaquin Valley, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

		San Joaquin Valley			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	63.8	60.5 - 67.0	28,000	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	♦	84.2	81.8 - 86.7	36,400	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	82.3	79.7 - 84.8	36,100	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	↓	13.2	10.9 - 15.4	5,600	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	↑	53.6	50.2 - 56.9	23,500	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	↑	51.0	47.6 - 54.3	22,400	40.3	38.0 - 42.5	104,200
Uninsured	↓	32.6	29.3 - 35.8	14,300	37.2	34.9 - 39.5	96,200
Private	↓	14.3	12.2 - 16.5	6,300	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	↑	87.4	85.3 - 89.4	38,300	81.7	79.9 - 83.5	211,300
Uninsured	♦	2.1	1.0 - 3.1	900	1.6	1.0 - 2.2	4,100
Private	↓	8.7	7.0 - 10.3	3,800	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	↑	69.0	65.8 - 72.1	30,200	59.9	57.6 - 62.2	153,800
Uninsured	↓	17.7	15.0 - 20.5	7,800	22.5	20.5 - 24.5	57,700
Private	↓	11.6	9.6 - 13.7	5,100	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	↑	88.6	86.5 - 90.6	37,600	84.6	82.9 - 86.3	214,500
Uninsured	♦	2.1	1.1 - 3.1	900	3.0	2.2 - 3.9	7,700
Private	↓	6.9	5.4 - 8.5	2,900	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	11.5	9.4 - 13.6	5,100	9.8	8.4 - 11.2	25,400
20-34	♦	78.3	75.4 - 81.1	34,400	77.9	76.1 - 79.8	202,100
35+	♦	10.2	8.0 - 12.4	4,500	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)							
Unmarried	♦	28.1	25.0 - 31.2	12,100	28.0	25.9 - 30.2	71,900
Unmarried	♦	62.4	59.2 - 65.7	27,400	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	↑	74.3	71.6 - 77.1	32,700	70.8	68.9 - 72.6	181,600
Black	↓	5.4	4.9 - 6.0	2,400	7.7	7.1 - 8.3	19,700
White	♦	13.9	11.6 - 16.2	6,100	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	♦	5.7	3.9 - 7.6	2,500	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	36.5	33.2 - 39.8	16,100	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	♦	35.1	31.8 - 38.4	15,300	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood							
Lives in a high poverty neighborhood	↑	75.3	72.5 - 78.2	31,200	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	↑	73.9	70.8 - 76.9	30,600	69.6	67.5 - 71.8	168,400
101-200%	↓	22.6	19.6 - 25.6	9,400	26.3	24.2 - 28.3	63,500
> 200%	♦	3.5	2.4 - 4.6	1,500	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in San Joaquin Valley was 2,022.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the region in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the region was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.



MIHA Data Snapshot, Prenatal WIC Participants Southeastern California, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

✓ better than rest of California ✗ worse than rest of California ♦ no statistical difference

		Southeastern California			California		
		Prenatal WIC Participants			Prenatal WIC Participants		
		%	95% CI	Population Estimate	%	95% CI	Population Estimate
Health Status Before Pregnancy							
In good to excellent health	♦	88.2	84.7 - 91.8	33,400	88.7	87.2 - 90.2	229,700
Chronic conditions							
Diabetes†	♦	3.3	1.4 - 5.3	1,300	3.2	2.4 - 4.0	8,100
Hypertension†	♦	3.1	1.5 - 4.6	1,200	2.5	2.0 - 3.1	6,400
Asthma†	♦	10.8	7.7 - 13.8	4,000	8.4	7.2 - 9.5	21,100
Nutrition and Weight							
Daily folic acid use, month before pregnancy	♦	20.0	15.7 - 24.4	7,500	22.9	21.0 - 24.8	59,100
Overweight before pregnancy	♦	27.2	22.1 - 32.4	9,900	28.5	26.2 - 30.7	68,100
Obese before pregnancy	♦	26.8	21.8 - 31.9	9,700	25.6	23.5 - 27.7	61,200
Inadequate weight gain during pregnancy	♦	17.8	13.0 - 22.5	5,600	20.8	18.5 - 23.1	43,400
Excessive weight gain during pregnancy	♦	40.1	34.2 - 46.0	12,700	39.0	36.5 - 41.5	81,300
Food insecurity during pregnancy	♦	28.3	23.3 - 33.4	10,700	25.5	23.5 - 27.6	65,600
Intimate Partner Violence (IPV) and Depressive Symptoms							
Physical or psychological IPV during pregnancy	♦	9.6	6.4 - 12.9	3,600	10.0	8.6 - 11.4	25,900
Prenatal depressive symptoms	♦	18.1	14.0 - 22.2	6,800	18.6	16.7 - 20.4	48,000
Postpartum depressive symptoms	♦	15.8	11.9 - 19.8	5,900	15.8	14.1 - 17.5	40,800
Hardships and Support during Pregnancy							
Experienced two or more hardships during childhood	♦	30.9	25.8 - 36.0	11,400	30.8	28.7 - 33.0	78,300
Homeless or did not have a regular place to sleep	♦	4.4	2.5 - 6.4	1,700	3.8	3.1 - 4.5	9,800
Moved due to problems paying rent or mortgage	♦	12.4	8.7 - 16.1	4,700	9.8	8.4 - 11.2	25,300
Woman or partner lost job	♦	23.6	18.8 - 28.4	8,900	20.8	18.9 - 22.7	53,200
Woman or partner had pay or hours cut back	♦	14.9	11.1 - 18.8	5,600	14.7	13.1 - 16.2	37,600
Became separated or divorced	♦	12.5	9.1 - 15.9	4,700	11.2	9.7 - 12.7	28,800
Had no practical or emotional support	♦	5.3	3.0 - 7.6	2,000	6.3	5.1 - 7.6	16,400
Substance Use							
Any smoking, 3 months before pregnancy	♦	13.4	9.9 - 16.9	5,000	13.0	11.5 - 14.5	33,600
Any smoking, 3rd trimester†	♦	3.4	1.5 - 5.4	1,300	3.9	3.0 - 4.7	10,100
Any smoking, postpartum	♦	8.3	5.3 - 11.3	3,100	6.8	5.8 - 7.8	17,500
Any binge drinking, 3 months before pregnancy	♦	16.0	12.0 - 20.1	6,000	14.1	12.5 - 15.7	36,100
Any alcohol use, 3rd trimester†	♦	4.8	2.3 - 7.3	1,800	4.1	3.0 - 5.2	10,600
Pregnancy Intention and Family Planning							
Mistimed or unwanted pregnancy	♦	40.5	35.1 - 46.0	15,200	41.0	38.7 - 43.4	105,800
Unsure of pregnancy intentions	♦	18.0	13.6 - 22.3	6,800	15.8	14.1 - 17.4	40,700
Postpartum birth control use†	♦	81.7	77.3 - 86.1	29,900	84.2	82.6 - 85.8	211,900
Infant Sleep and Breastfeeding							
Placed infant on back to sleep	♦	76.4	71.9 - 80.9	28,300	76.5	74.5 - 78.5	194,800
Infant always or often shared bed	♦	38.2	32.9 - 43.6	14,200	38.4	36.2 - 40.6	97,700
Intended to breastfeed, before birth	♦	89.6	86.2 - 92.9	33,600	91.5	90.3 - 92.6	232,400
Intended to breastfeed exclusively, before birth	♦	55.4	49.9 - 60.9	20,800	56.5	54.2 - 58.9	143,700
Breastfeeding practices							
Any breastfeeding, 1 month after delivery	♦	75.3	70.5 - 80.2	27,800	78.6	76.7 - 80.5	198,500
Exclusive breastfeeding, 1 month after delivery	♦	34.7	29.3 - 40.2	12,500	37.8	35.5 - 40.0	93,600
Any breastfeeding, 3 months after delivery	♦	52.9	46.5 - 59.2	15,100	58.0	55.3 - 60.7	116,900
Exclusive breastfeeding, 3 months after delivery	♦	20.6	15.2 - 26.0	5,800	20.1	18.0 - 22.1	40,000



MIHA Data Snapshot, Prenatal WIC Participants Southeastern California, 2013-2014

Maternal and Infant Health Assessment (MIHA) Survey

↑ higher than rest of California ↓ lower than rest of California ♦ no statistical difference

	Southeastern California			California			
	Prenatal WIC Participants			Prenatal WIC Participants			
	%	95% CI	Population Estimate	%	95% CI	Population Estimate	
Health Care Utilization and Public Program Participation							
Had a usual source of pre-pregnancy care	♦	60.1	54.6 - 65.5	22,700	62.1	59.9 - 64.4	160,700
Initiated prenatal care in 1st trimester	↓	81.2	76.8 - 85.6	30,200	85.6	84.1 - 87.2	218,500
Had a postpartum medical visit	♦	79.0	74.3 - 83.7	29,700	82.9	81.1 - 84.7	214,100
Mom or infant needed but couldn't afford care postpartum	♦	19.3	14.9 - 23.7	7,200	17.8	15.9 - 19.7	44,900
Received CalFresh (food stamps) during pregnancy	♦	44.8	39.3 - 50.2	16,900	42.0	39.7 - 44.3	108,300
Health Insurance Coverage							
Pre-pregnancy insurance							
Medi-Cal	♦	35.9	30.7 - 41.2	13,600	40.3	38.0 - 42.5	104,200
Uninsured	♦	39.0	33.6 - 44.4	14,800	37.2	34.9 - 39.5	96,200
Private	♦	20.5	15.9 - 25.1	7,800	18.5	16.7 - 20.3	47,800
Prenatal insurance							
Medi-Cal	♦	80.8	76.6 - 85.1	30,500	81.7	79.9 - 83.5	211,300
Uninsured	♦	2.0 *	0.1 - 4.0	800	1.6	1.0 - 2.2	4,100
Private	♦	13.4	9.8 - 17.1	5,100	13.1	11.5 - 14.8	34,000
Maternal postpartum insurance							
Medi-Cal	♦	59.5	54.0 - 65.0	22,300	59.9	57.6 - 62.2	153,800
Uninsured	♦	20.1	15.5 - 24.7	7,500	22.5	20.5 - 24.5	57,700
Private	♦	17.1	12.8 - 21.5	6,400	14.8	13.2 - 16.5	38,000
Infant health insurance							
Medi-Cal	♦	84.8	81.0 - 88.7	31,300	84.6	82.9 - 86.3	214,500
Uninsured	♦	1.9 *	0.7 - 3.1	700	3.0	2.2 - 3.9	7,700
Private	♦	8.7	5.6 - 11.9	3,200	9.0	7.6 - 10.3	22,700
Maternal Demographics							
Age							
15-19	♦	10.7	7.4 - 14.0	4,100	9.8	8.4 - 11.2	25,400
20-34	♦	78.8	74.4 - 83.3	29,800	77.9	76.1 - 79.8	202,100
35+	♦	10.5	7.1 - 13.9	4,000	12.3	10.8 - 13.7	31,900
Did not complete high school (or GED)	♦	24.5	19.5 - 29.5	9,100	28.0	25.9 - 30.2	71,900
Unmarried	♦	63.4	58.0 - 68.7	23,700	61.5	59.2 - 63.8	158,600
Race/Ethnicity							
Hispanic	♦	73.6	69.1 - 78.0	27,800	70.8	68.9 - 72.6	181,600
Black	↑	9.1	7.6 - 10.5	3,400	7.7	7.1 - 8.3	19,700
White	♦	15.1	11.1 - 19.1	5,700	13.6	12.2 - 15.0	35,000
Asian/Pacific Islander	↓	2.0 *	0.3 - 3.6	700	7.3	6.0 - 8.7	18,800
Nativity and Language							
Born outside the U.S.	↓	31.1	25.8 - 36.4	11,800	42.8	40.5 - 45.1	111,000
Speaks non-English language at home	↓	24.9	20.2 - 29.6	9,300	38.0	35.8 - 40.3	97,500
Lives in a high poverty neighborhood	♦	52.0	46.3 - 57.7	18,700	56.4	54.1 - 58.7	139,200
Income as a percent of the Federal Poverty Guideline							
0-100%	♦	70.7	65.6 - 75.9	25,500	69.6	67.5 - 71.8	168,400
101-200%	♦	25.4	20.5 - 30.3	9,200	26.3	24.2 - 28.3	63,500
> 200%	♦	3.9	1.6 - 6.1	1,400	4.1	3.2 - 4.9	9,900

-- Estimate not shown because the relative standard error (RSE) is greater than 50% or fewer than 5 women reported.

* Estimate should be interpreted with caution due to low statistical reliability (RSE is between 30% and 50%).

† Measure/definition changed for this indicator and is not comparable to prior years (see Technical Notes).

Notes: MIHA is an annual population-based survey of California resident women with a live birth. Data from MIHA 2013-2014 were combined, resulting in a statewide sample size of 13,963. More than half, 7,571 of MIHA respondents were prenatal WIC participants. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. The sample size of prenatal WIC participants in Southeastern California was 680.

Percent (%), 95% confidence interval (95% CI) and estimated number of women in the population with the health indicator/characteristic (i.e., numerator of the percent rounded to the nearest hundred) are weighted to represent all women with a live birth who resided in California and the region in 2013-2014. Population estimate is a two-year average. Symbols indicate whether the health indicator in the region was statistically different from the rest of the state (p-value < 0.05, chi-square test). See the Technical Notes for information on weighting, comparability to prior years and technical definitions. Visit the MIHA website at www.cdph.ca.gov/MIHA.

Table Citation: Maternal and Infant Health Assessment (MIHA) Survey Data Snapshots of Prenatal WIC Participants, 2013-2014. California Department of Public Health. 2017.

A close-up photograph of a woman with dark hair, looking down at a baby. The woman has a gentle smile and her eyes are closed. The baby is lying down, also with eyes closed. The background is softly blurred, suggesting an indoor setting with light-colored walls. A dark green horizontal bar is overlaid on the right side of the image, containing the text 'Technical Notes' in white.

Technical Notes

“Pregnancy is the most beautiful process. The time when you think more about your body and taking care of yourself for somebody really special inside you.”

— MIHA 2013 Respondent

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Definition of Indicators

Indicators are based on self-reported data from the MIHA survey and refer to the most recent birth, or pregnancy for the most recent birth, unless otherwise indicated. Unless noted, the denominator for each indicator includes all women with a live birth. The question number corresponding to the MIHA 2014 survey is listed after each definition. Any changes to the survey question or indicator compared to prior years are noted in the definition. The questionnaires can be found at www.cdph.ca.gov/MIHA/Questionnaires.

Prior Poor Birth Outcomes

Prior low birth weight or preterm delivery (2010-2012 only): Prior to the most recent birth, ever had a baby weighing <2,500 grams at birth or born <37 weeks gestation. (Q2, 3)

Prior delivery by c-section (2010-2012 only): Ever had a cesarean section prior to the most recent birth. (Birth certificate)

Health Status

In good to excellent health before pregnancy: Self-rated health just before pregnancy. In 2010, the indicator was self-rated *physical* health. In 2011, the survey question was changed from two separate questions on physical health and mental health to one question on “health.” An additional response of “Very good” also was added between response categories “Excellent” and “Good.” Starting in 2011, the indicator is not comparable with prior years. (Q7)

Chronic Conditions

Diabetes or gestational diabetes: Told by a health care worker that she had diabetes (high blood sugar). Starting in 2014, the question on gestational diabetes during this pregnancy was dropped, therefore the indicator measures only diabetes before pregnancy. Starting with 2013-2014 Snapshots, the indicator is not comparable with prior years. (Q16A)

Hypertension, preeclampsia, or eclampsia: Told by a health care worker that she had hypertension (high blood pressure) before or during this pregnancy. Starting in 2014, preeclampsia, eclampsia, or toxemia during this pregnancy was dropped, therefore the indicator measures only hypertension before pregnancy. Starting with 2013-2014 Snapshots, the indicator is not comparable with prior years. (Q16B)

Asthma: Told by a health care worker that she had asthma before or during this pregnancy. Starting in 2014, asthma during pregnancy was dropped, therefore the indicator measures only hypertension before pregnancy. Starting with 2013-2014 Snapshots, the indicator is not comparable with prior years. (Q16C)

Nutrition and Weight

Daily folic acid use, month before pregnancy: Took a multivitamin, prenatal vitamin, or folic acid vitamin every day of the week during the month before pregnancy. (Q9)

Overweight/obese before pregnancy: Body Mass Index (BMI) calculated from self-reported weight and height, classified as overweight (25-29.99) or obese (30+). BMI calculated only for women reporting height within 48-83 inches and weight within 75-399 pounds. Starting in 2011, BMI values outside 13-69.99 were also excluded. Because the number of additional women excluded was small, the indicator in 2010 is comparable to subsequent years. (Q10, 13)

Inadequate/excessive weight gain during pregnancy: Adequacy of total weight gained during pregnancy, given pre-pregnancy BMI, was based on the National Academies of Science, Engineering and Medicine guidelines and restricted to women who delivered at 37-42 weeks gestation, singletons and twins, prenatal weight gain within 0-97 pounds, height within 48-83 inches, pre-pregnancy weight within 75-399 pounds, and BMI values within 13-69.99. See guidelines for more detail www.nationalacademies.org/hmd/Reports/2009/Weight-Gain-During-Pregnancy-Reexamining-the-Guidelines.aspx . (Q10, 11, 13; data on singletons/twins and gestational age from birth certificate)

Food insecurity during pregnancy: Calculated from the modified U.S. Department of Agriculture (USDA) Food Security Module Six Item Short Form and categorized as food secure (0-1) or food insecure (2-6). Responses with one or two missing values were imputed. See USDA guidelines for more detail: http://www.ers.usda.gov/datafiles/Food_Security_in_the_United_States/Food_Security_Survey_Modules/short2012.pdf. (Q74-77)

Intimate Partner Violence (IPV) and Depressive Symptoms

Physical IPV in the year before pregnancy (2010 and 2011 only): Pushed, hit, slapped, kicked, choked, or physically hurt in any way by current or former partner during the 12 months before pregnancy.

Physical or psychological IPV during pregnancy: During pregnancy, experienced any of the following: pushed, hit, slapped, kicked, choked, or physically hurt in any way by current or former partner; frightened for safety of self, family, or friends because of current or former partner's anger/threats; current or former partner tried to control most/all daily activities. (Q33-35)

Prenatal depressive symptoms: During pregnancy, experienced both of the following for two weeks or longer: felt sad, empty or depressed for most of the day; lost interest in most things she usually enjoyed. (Q27, 28)

Postpartum depressive symptoms: Since most recent birth, experienced both of the following for two weeks or longer: felt sad, empty or depressed for most of the day; lost interest in most things she usually enjoyed. (Q56, 57)

Hardships and Support During Pregnancy

Experienced two or more hardships during childhood: Composite indicator measuring 2 or more hardships experienced during the woman's childhood (from birth through age 13). Hardships included: a parent or guardian she lived with got divorced or separated; she moved because of problems paying the rent or mortgage; someone in her family went hungry because family could not afford enough food; her parent or guardian got in trouble with the law or went to jail; a parent or guardian she lived with had a serious drinking or drug problem; she was in foster care (removed from her home by the court of child welfare agency), and very often or somewhat often her family experienced difficulty paying for basic needs like food or housing. (Q31A-G, Q32)

Had "a lot" of unpaid bills (2010 only): Had a lot of bills she couldn't pay during pregnancy.

Homeless or did not have a regular place to sleep: Did not have a regular place to sleep at night (moved from house to house) or was homeless (had to sleep outside, in a car or in a shelter) during pregnancy. (Q30C-D)

Moved due to problems paying rent or mortgage: Had to move to a new address during pregnancy because of problems paying the rent or mortgage. Starting in 2011, the indicator is not comparable to prior years, which measured whether a woman moved to a new address for any reason. (Q30B)

Woman or partner lost job: Lost job even though wanted to go on working, or husband or partner lost their job during pregnancy. (Q30E-F)

Woman or partner had pay or hours cut back: Had pay or hours cut back or partner had pay or hours cut back during pregnancy. (Q30G).

Became separated or divorced: Became separated or divorced from partner during pregnancy. (Q30A)

Had no practical or emotional support: During pregnancy, had neither someone to turn to for practical help, like getting a ride somewhere, or help with shopping or cooking a meal; nor someone to turn to if she needed someone to comfort or listen to her. (Q29A-B)

Substance Use

Any smoking, 3 months before pregnancy: Smoked any cigarettes on an average day during the three months before pregnancy. (Q36, 37A)

Any smoking, 1st or 3rd trimester (2010-2012 only): Smoked any cigarettes on an average day during the first or last three months of pregnancy. In 2011, the phrase in italics was added to the question on smoking during the first trimester of pregnancy: “During the first 3 months of your pregnancy (*including before you knew you were pregnant for sure*), how many cigarettes or packs of cigarettes did you smoke on an average day? (A pack has 20 cigarettes.)” Starting in 2011, the indicator is not comparable with prior years.

Any smoking, 3rd trimester: Smoked any cigarettes on an average day during the last three months of pregnancy. In 2014, the question on smoking during the first trimester was taken off of the survey and the indicator was modified starting with 2013-2014 Snapshots. (Q36, 37B)

Any smoking, postpartum: Smoked any cigarettes at the time of the survey. (Q36, 38)

Any binge drinking, 3 months before pregnancy: Drank four or more alcoholic drinks in one sitting (within about two hours) at least one time during the three months before pregnancy. (Q39, 41)

Any alcohol use, 1st or 3rd trimester (2010-2012 only): Drank any alcoholic drinks in an average week during the first or last three months of pregnancy. In 2011, the phrase in italics was added to the question on drinking during the first trimester of pregnancy: “During the first 3 months of your pregnancy (*including before you knew you were pregnant for sure*), about how many drinks with alcohol did you have in an average week?” Starting in 2011, the indicator is not comparable with prior years.

Any alcohol use, 3rd trimester: Drank any alcoholic drinks in an average week during the last three months of pregnancy. In 2014, the question on drinking alcohol during the first trimester was taken off of the survey and the indicator was modified starting with 2013-2014 Snapshots. (Q39, 42)

Pregnancy Intention and Family Planning

Mistimed or unwanted pregnancy: Just before pregnancy, felt that she did not want to get pregnant or wanted to get pregnant later. This indicator is not comparable with the unintended pregnancy indicator reported before 2011. (Q14)

Unsure of pregnancy intentions: Just before pregnancy, felt that she was not sure if she wanted to get pregnant. (Q14)

Postpartum birth control use: Woman or husband/partner was doing something at the time of the survey to keep from getting pregnant; excluded from the denominator were women who were currently pregnant or had a hysterectomy/oophorectomy. Starting with 2013-2014 Snapshots, the indicator definition changed and is not comparable with prior years. (Q52, 53, 54)

Infant Sleep and Breastfeeding

Placed infant on back to sleep: Put baby down to sleep on his or her back most of the time, excluding from the denominator women whose infant did not reside with them at the time of the survey. (Q63)

Infant always or often shared bed: Baby always or often slept in the same bed with her or someone else, excluding from the denominator women whose infant did not reside with them at the time of the survey. (Q64)

Intended to breastfeed, before birth: Before delivery, planned to breastfeed only or to breastfeed and use formula, excluding from the denominator women whose infant did not reside with them at the time of the survey. (Q59)

Intended to breastfeed exclusively, before birth: Before delivery, planned to breastfeed only, excluding from the denominator women whose infant did not reside with them at the time of the survey. (Q59)

Any breastfeeding, 1 month after delivery: Fed infant breast milk for at least one month after delivery with or without formula, other liquids or food; excluding from the denominator women whose infant did not reside with them at the time of the survey. The infant feeding questions changed in 2011. Starting in 2011, the indicator is not comparable with prior years. (Q60, 61A, 61B; infant age calculated from date of birth on the birth certificate)

Exclusive breastfeeding, 1 month after delivery: Fed infant only breast milk (no supplementation with formula, other liquids or food) for at least one month after delivery; excluding from the denominator women whose infant did not reside with them at the time of the survey. The infant feeding questions changed in 2011. Starting in 2011, the indicator is not comparable with prior years. (Q60, 61A, 61B, 62A, B, C; infant age calculated from date of birth on the birth certificate)

Any breastfeeding, 3 months after delivery: Fed infant breast milk for at least three months after delivery with or without supplementing with formula, other liquids or food; excluding from the denominator women whose infant did not reside with them or whose infant was not yet three months old at the time of the survey. The infant feeding questions changed in 2011. Starting in 2011, the indicator is not comparable with prior years. (Q60, 61A, 61B; infant age calculated from date of birth on the birth certificate)

Exclusive breastfeeding, 3 months after delivery: Fed infant only breast milk (no supplementation with formula, other liquids or food) for at least three months after delivery; excluding from the denominator women whose infant did not reside with them or whose infant was not yet three months old at the time of the survey. The infant feeding questions changed in 2011. Starting in 2011, the indicator is not comparable with prior years. (Q60, 61A, 61B, 62A, B, C; infant age calculated from date of birth on the birth certificate)

Health Care Utilization and Public Program Participation

Had a usual source of pre-pregnancy care: Just before pregnancy, had a particular doctor, nurse, or clinic that she usually went to for health care. (Q6)

Initiated prenatal care in 1st trimester: Had first prenatal care visit in the first 3 months or 13 weeks of pregnancy, not counting a visit for just a pregnancy test or a WIC visit. In 2011, the phrases in italics were added to the questions: “Did you get any prenatal care during your most recent pregnancy? (Please do not count a visit just for a pregnancy test *or only for WIC, the Women, Infants and Children supplemental nutrition program.*)” and “How many weeks or months pregnant were you when you had your first prenatal care visit? (Please do not count a visit just for a pregnancy test *or only for WIC.*)” In 2012, the filter question, “Did you get any prenatal care during your most recent pregnancy?” was dropped. The MIHA indicator is not comparable across 2010, 2011, and 2012. However, this indicator is comparable for 2012 and beyond. (Q19)

Had a dental visit during pregnancy (2012 only): Visited a dentist, dental clinic, or got dental care at a health clinic.

Had a postpartum medical visit: Had a postpartum check-up for herself (the medical check-up 4-6 weeks after a woman gives birth). (Q51)

Mom or infant needed but couldn't afford care postpartum: Since her most recent birth, there was a time when she needed to see a doctor or nurse for her own medical care or for her infant, but didn't go because she couldn't afford to pay for it. (Q50, 66)

WIC status during pregnancy (2013-2014 Statewide Snapshots subgroup – WIC products only): WIC is the Special Supplemental Nutrition Program for Women, Infants, and Children. WIC status during pregnancy was categorized as prenatal WIC participant, eligible nonparticipant, or ineligible for WIC based on: self-reported participation in the WIC program during pregnancy, household income, and type of insurance coverage for prenatal care or delivery reported on the birth certificate. Prenatal WIC participants were women who self-reported that they were on WIC at any time during their most recent pregnancy. Those not on WIC during pregnancy were categorized as WIC eligible nonparticipants if they had Medi-Cal for prenatal care or delivery on the birth certificate or if they had self-reported income at or below 185% of the Federal Poverty Guideline (FPG). Respondents were categorized as ineligible for WIC if they had another source or no insurance for prenatal care or delivery, and self-reported income above 185% FPG.

Participated in WIC during pregnancy: WIC is the Special Supplemental Nutrition Program for Women, Infants, and Children. In 2010 and 2013-2014, participation in WIC during pregnancy was based on self-report on the MIHA survey. In 2012, participation in WIC during pregnancy was based on WIC client records obtained from WIC Management Information System (WIC MIS) and linked to the MIHA survey. This indicator is not available for 2011.

Received CalFresh (food stamps) during pregnancy: CalFresh, formerly known as food stamps, is the California Supplemental Nutrition Assistance Program. (Q78)

Health Insurance Coverage

Pre-pregnancy/postpartum insurance: During the month before pregnancy/at the time of the survey, had Medi-Cal or a health plan paid for by Medi-Cal; private insurance through her or her husband's/partner's job, her parents, or purchased directly; or was uninsured. Women with both Medi-Cal and private insurance were categorized as Medi-Cal. Starting in 2011, women with "Other" insurance, such as military, Healthy Families, Medicare, or international are not shown (the 2010 indicator combined the "Other" and "Private" insurance categories); and women were asked to provide the name of their health insurance plan, which was used to categorize insurance with greater precision. Starting in 2011, the indicator is not comparable with prior years. (Q8, Q49)

Prenatal insurance: During pregnancy, had Medi-Cal or a health plan paid for by Medi-Cal; private insurance through her or her husband's/partner's job, her parents, or purchased directly; or was uninsured. Women with both Medi-Cal and private insurance categorized as Medi-Cal. Starting in 2011, women with "Other" insurance, such as military, Healthy Families, Medicare, or international are not shown; (the 2010 indicator combined the "Other" and "Private" insurance categories); and the prenatal insurance question changed in order to distinguish between Medi-Cal and a plan paid for by Medi-Cal, as well as to identify how women obtained private insurance. Women also were asked to provide the name of their health insurance plan, which was used to categorize insurance with greater precision. Starting in 2011, the indicator is not comparable with prior years. (Q44)

Infant health insurance: Infant had Medi-Cal or a health plan paid for by Medi-Cal; private insurance through parent's job or purchased directly; Healthy Families; or was uninsured. Starting in 2011, infants with "Other" insurance, such as military, California Children's Services, or Medicare are not shown (the 2010 indicator combined the "Other" and "Private" insurance categories); and, women were asked to provide the name of their infant's health insurance plan, which was used to categorize insurance with greater precision. Women whose infant did not reside with them at the time of the survey were excluded from the denominator. Starting in 2011, the indicator is not comparable with prior years. (Q65)

Maternal Demographics

Age: Age of mother at time of birth. (Birth certificate)

Did not complete high school (or GED): At the time of the survey, had completed no school; 8th grade or less; or some high school, but did not graduate. (Q69)

Unmarried: At the time of birth, was single (never married); separated, divorced, or widowed; or living with someone like they were married, but not legally married. (Q67)

Race/Ethnicity: Mother's Hispanic origin and first race code, if multiple race codes indicated. (Birth certificate)

Born outside the U.S.: Mother's place of birth. (Birth certificate)

Speaks non-English language at home: Usually speaks Spanish, or an Asian or other language at home (if more than one language spoken, the one used most often; women who speak English and Spanish equally are not included in this group). (Q71)

Neighborhood Poverty (Statewide Snapshots subgroup): The percent of people living below the federal poverty threshold in a given neighborhood, as defined by census tract of residence. The estimated percent of people below poverty by census tract is obtained from American Community Survey 5-year estimates from the most recent year <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>. (Linked Birth certificate-American Community Survey)

Lives in a high poverty neighborhood: Lives in a neighborhood, as defined by census tract of residence, in which 20% or more of people are living below the federal poverty threshold. The estimated percent of people below poverty by census tract is obtained from American Community Survey 5-year estimates from the most recent year <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>. (Linked Birth certificate-American Community Survey)

Income as a percent of the Federal Poverty Guideline: Calculated from monthly family income, before taxes from all sources, including jobs, welfare, disability, unemployment, child support, interest, dividends, and support from family members, and the number of people living on that income. See the annual Poverty Guidelines published by the U.S. Department of Health and Human Services for more detail: aspe.hhs.gov/poverty/index.cfm. (Q83, 84, 85)

Total Live Births (Statewide Snapshots subgroup): The number of live births the mother delivered, inclusive of the recent birth. Twins and triplets are considered one birth (Birth Certificate).

Geographical Area (Statewide Snapshots subgroup): Urban and rural/frontier designations are based on the population size or densities of Medical Service Study Areas (MSSAs). MSSAs are sub-county geographic units composed of one or more census tracts. Women are classified as living in an urban area if their MSSA ranges in population from 75,000 to 125,000; a rural area if their MSSA has a population density of less than 250 persons per square mile and a frontier area if their MSSA has a population density of less than 11 persons per square mile. (Birth Certificate)

Data Annotation and Suppression Criteria

Most MIHA publications using data from 2010-2012 suppressed estimates when the number of events (sample numerator) was less than 10.

Revised data suppression criteria were implemented with the 2013-2014 MIHA publications (and were also applied to the 2010-2012 County and Regional MIHA Snapshots by Maternal Characteristics). Current criteria require estimates to be suppressed when:

1. The sample numerator is less than 5,
2. The number of women in the population of interest (population denominator) is less than 100,
3. The relative standard error (RSE) is greater than 50%, or
4. A measure has been determined to address a sensitive topic and the prevalence is greater than 80% and the unweighted population divided by the weighted population is greater than 50%.

Additionally, estimates are annotated and users are warned to interpret with caution if the RSE is between 30% and 50%. The RSE is a commonly used measure of reliability, or precision, of survey estimates and is calculated using the following formulas:

For estimates with a prevalence $\leq 50\%$:

$$\text{Standard error} \div \text{estimate}$$

For estimates with a prevalence $> 50\%$:

$$\text{Standard error} \div (1 - \text{estimate})$$

Weighting Methods

Sampling weights are created in MIHA to account for the stratified design, oversampling of specific groups, non-response among the women sampled, and non-coverage of women who could not be sampled because their births were not in the sampling frame. When the final MIHA sample is weighted each year, it is designed to be representative of all mothers who delivered live-born infants in California during the calendar year that the survey was conducted, and who met other inclusion criteria: the mother resided in California, was at least 15 years of age, and had a singleton, twin or triplet birth. Although MIHA data are weighted to the entire birthing population, minus exclusions, the survey is only administered in English and Spanish and results may not be generalizable to women who speak other languages. The population represented by MIHA is referred to as the “target” population and is defined using the Birth Statistical Master File (BSMF), the final compilation of California birth data released annually by the Office of Vital Statistics.

In 2010 through 2012, African Americans and women who were not on WIC but had Medi-Cal for prenatal care or delivery were oversampled, meaning their probability of selection was greater than the proportion of births they represent in the state. Starting in 2012, American Indians and Alaska Natives were also oversampled. From 2010 through 2012, the sample was stratified by county to provide sufficient numbers for estimates for the 20 counties with the most births. Starting in 2013, the number of counties included in this stratification increased to 35, and while African Americans and American Indian/Alaska Natives continued to be oversampled, WIC eligible nonparticipants were no longer oversampled.

Every woman who responded to MIHA is assigned a weight, which stands for the number of mothers in California like herself that she represents. Starting in 2010, this State Weight has consisted of 4 components (see below) calculated within strata. Additional steps have been added in subsequent years to create a Final Weight and improve the ability of the sample to represent the target population. Starting in 2011, raking was added to the weighting process to adjust the State Weights to more accurately represent the BSMF, particularly at the county level. Starting in 2013, trimming of weights was implemented to reduce the influence of excessively large survey weights. Raking and trimming were retroactively applied to datasets to create Final Weights starting with year 2010, but previously published MIHA products were not revised with the new Final Weights (2010 products had used unraked and untrimmed weights (State Weight only); 2011-2012 products used raked but untrimmed weights).

Calculation of the State Weight

The components of the State Weight are as follows:

Non-Coverage Weight

The non-coverage weight accounts for differences between the frame from which the sample was drawn and the target population to which generalizations are made. The MIHA sample is drawn from birth certificate data for births occurring from February through May of each year. This is referred to as the “sampling frame.” Birth certificate data files from which the MIHA sample is drawn are provided in monthly batches by the Office of Vital Statistics. The non-coverage weight accounts for the difference between the number of births in the sampling frame (February through May) and the number in the calendar year. The non-coverage weight also accounts for changes that might be made to the birth file after the sample is taken (e.g., births may not be in the frame files for sampling if they are reported late, but these late reported births would eventually be included in the calendar year BSMF). The non-coverage weight is defined, within stratum S , as:

$$\text{Number in the Target Population}_s \div \text{Number in the Sampling Frame}_s$$

Inverse of Sampling Fraction

The sampling fraction is the probability of selection, or the ratio of the number of women sampled to the number of women in the sampling frame. Therefore, the inverse of the sampling fraction within stratum S is:

$$\text{Number in the Sampling Frame } _s \div \text{Number Sampled } _s$$

Non-Response Weight

This weight adjusts for non-response to the survey by women who were sampled. The non-response weight is calculated within stratum S as:

$$\text{Number Sampled } _s \div \text{Number of Respondents } _s$$

Post-stratification Weight for Non-response (Propensity Score Adjustment)

The non-response weight described above accounts for non-response on factors used to define the strata (e.g., African American or American Indian/Alaska Native race, WIC status, and county/region of residence). Additional individual level factors may also predict whether a woman is likely to respond to the MIHA survey. Therefore, another adjustment for non-response is calculated to make the MIHA survey more representative of the target population from which the sample was taken. The probability of responding (versus not responding) is calculated using a logistic regression model among all women sampled in each sampling region (county or group of counties). Variables in the logistic regression model come from the BSMF and include maternal race/ethnicity, US or foreign birthplace, age, education, reported principal source of delivery payment, total children born alive, and month prenatal care began. A predicted probability (p) of being a respondent, or propensity score, is output for every woman sampled. The score is then re-scaled, which means that p is multiplied by a constant factor for all respondents, so that the sum of p over all respondents now adds to the number of respondents.

Starting in 2014, the post-stratification weight was capped at the 99th percentile of the post-stratification weight for that year (i.e., 2.56 in 2014).

Formula for State Weight

The State Weight is calculated using the four components defined above:

$$\text{NON-COVERAGE} * \text{INVERSE SAMPLING FRACTION} * \text{NON-RESPONSE} * \text{POST-STRATIFICATION}$$

Adjustments to Create the Final Weight

Raking Survey Weights (or Iterative Proportional Fitting)

Raking is a process by which the weighted prevalence of a selected variable is aligned with the known prevalence in a target population. In MIHA, the State Weights are raked so that weighted birth certificate variable estimates reflect the BSMF as closely as possible at the level of the respondent's sampling region (county or group of counties). Raking is conducted over a series of predetermined variables (see table below), one at a time, in an iterative process. The weight assigned to each woman who falls in category C of raking variable V is multiplied by a factor of:

$$\text{Number in the Target Population } vc \div \text{Weighted Number of MIHA Respondents } vc$$

The first adjustment occurs to the State Weight calculated in the previous section. This results in a different weight value, which is adjusted using the next variable and the process continues for each variable.

After this is done for all desired variables, the data are checked to ensure the percentages for each raking variable are as close as possible to the BSMF within the sampling region or group. If results can be adjusted to be more similar to the BSMF, the process starts again with the first raking variable, using the weight from the last iteration.

After the raking process is complete, the resulting weight is rescaled (e.g., multiplied by a constant factor), so that the sum of the raked weights over all respondents adds to the number of women in the BSMF who meet MIHA's inclusion criteria in that county/region. MIHA data were raked on the following variables or combination of variables each year from 2010-2014:

Variables Used for Raking, 2010-2014

2010	2011	2012	2013	2014
Race by age	Race by age	Race by age	Race by age	Race by age
Race by foreign born	Race by foreign born	Race by foreign born	Race by foreign born	Race by foreign born
Age by foreign born	Age by foreign born	Age by foreign born	Age by foreign born	Age by foreign born
Prior C-section	Prior C-section	Prior C-section		
Low birth weight	Low birth weight	Low birth weight	Low birth weight	Low birth weight
Preterm birth	Preterm birth	Preterm birth	Preterm birth	Preterm birth
Prior live birth	Prior live birth	Prior live birth	Prior live birth	Prior live birth
Delivery payer	Delivery payer	Delivery payer	Delivery payer	Delivery payer
Delivery method	Delivery method	Delivery method	Delivery method	Delivery method
			BMI before pregnancy	BMI before pregnancy
			Education	Education
				Race by preterm birth

After raking, differences between county-level and regional-level MIHA data and the BSMF are small. Only about 1% of estimates in the largest 20-35 counties are greater than 3 percentage points different from the BSMF after raking. The median difference between the weighted/trimmed MIHA value and the BSMF in 2014 for raking variables was 0.33%, and over 82% of estimates were within 1 percentage point of the BSMF value. Differences between MIHA and the target population are sometimes greater in the smaller sampling regions, such as San Benito County, than in the counties that have more births.

Rationale for Raking

The weighting method used before raking was introduced produced weighted data that were very close to the BSMF at the state level and for most counties/regions. However, using this method, there were some remaining discrepancies between the weighted MIHA data and the BSMF within subgroups of women and at the county and regional levels. For example, when the 2011 MIHA data were weighted using the 2010 method (no raking), an estimated 39.0% of women with a live birth in Kern County were White compared with 28.5% in the BSMF, a difference of 10.5 percentage points.

After raking, the MIHA estimate was adjusted to 28.8%, much closer to the BSMF estimate. The use of the raked weight produces estimates that are closer to the BSMF for subgroups, and at the county and regional level.

Trimming Survey Weights

Trimming is the process by which survey weights are reset to a predetermined upper limit, which reduces the occurrence of uniquely high weights that may skew survey results. The following method is used to trim raked survey weights:

1. A standardized distance is calculated between each respondent's raked weight and the median weight in her stratum S . The formula for calculating this standardized distance is:
(respondent's raked weight – median raked weight in the respondent's stratum S) ÷ statewide interquartile range of raked weights
2. Strata with respondents who have distances in the top 1% of the overall distribution of distances from the median are identified.
3. Weights for women in these strata are trimmed at the third standard deviation, or the 99.73rd percentile, of raked weights (i.e., no weights in the identified strata would exceed the 99.73rd percentile (1046) in 2014). Trimmed weights are also constrained to being no higher than 5 * the initial State Weight, and no lower than 1/5 of the State Weight.
4. As larger weights are trimmed, smaller weights are modified so that the sum of the weights in the state and each county/region match the population totals in the BSMF.

For example, the four steps above can be applied to a woman in 2014 with an individual raked weight of 1900, from a stratum that had a median weight of 500 (numbers are simulated):

1. Calculate standardized distance for her weight from the median weight in the stratum:
(1900–500) ÷ 50 = 28
2. After calculating distances for each respondent, her standardized distance (28) is in the top 1% of distances. Therefore, her stratum would be among those identified for trimming.
3. During the final step of weight creation, her raked weight (1900) would be trimmed to 1046.
4. Weights for other women within her county would also be modified during this process so that the sum of the weights continued to match state and county totals.

Rationale for Trimming

On occasion, analyses of MIHA data have produced unexpected results. While some variation in results is to be expected in survey data, at times it has appeared that unusual results were primarily due to as few as one individual with a uniquely high survey weight value. Because MIHA data are stratified and differentially sampled by county or sampling region, respondents from some counties with a lower sampling fraction sometimes have survey weight values that are high when compared to other respondents in the sample. When those women had unusual responses to certain variables, these extremely high weights had a disproportionate effect on estimates for those variables.

The difference between estimates using weights that have been raked and trimmed and weights that have only been raked is small. Comparing all estimates included in the MIHA Data Snapshots from 2010-2014, the largest difference between the two estimates was 3.7 percentage points. The median of the difference ranged from a high of 0.1 (2010-2012) to a low of 0.02 (2013-2014).

Comparability across Years

Updated weighting methods are retroactively applied to datasets starting with year 2010. MIHA publications for 2010-2012 that have been produced using earlier methods (i.e., without the raking or trimming steps) have not been updated using the new weights, but all future analyses will apply the raked and trimmed weights for 2010 onward. The difference between the estimates using the old and new weighting methods is small. Therefore, users may compare the 2010, 2011, and 2012 estimates to 2013-2014 and all future years, in spite of the changes to the weighting methods.



“Muchas Gracias! Es bueno que alguien tenga el tiempo de escuchar o que ser saber sobre la salud de madres hispanas. Gracias.”

— MIHA 2014 Respondedora

Translation

“Thank you so much! It is good that someone takes the time to listen or to know about the health of Hispanic mothers. Thank you.”

— MIHA 2014 Respondent