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This report provides data on live births delivered in 2014. The report was created by the Office of Vital Records and the Maternal, Child, and Adolescent Health Unit, two programs in the Public Health Division of the Santa Cruz County Health Services Agency.

## In Summary:

- In 2014, there were 3,069 live births to mothers who reside in Santa Cruz County, which is $203(7.1 \%)$ more births than in 2013.
- The General Fertility Rate in 2014 was 55.9 births per 1,000 females of typical childbearing age (15-44 years) among Santa Cruz County residents, compared to 51.1 in 2013. The U.S. rate was 62.9 per 1,000 women - the first increase for the United States since 2007 (CDC, Births: Preliminary Data for 2014).
- An additional 477 births were delivered in Santa Cruz County to mothers who are residents of other counties, primarily Monterey County ( $81 \%$ ).


## TEEN BIRTHS (19 and Under)

- Births to teens as a percentage of all births decreased from $6.3 \%$ in 2013 to $5.6 \%$ in 2014, and the number of teen births fell again (171 births, compared to 179 in 2013, 224 in 2012, and 256 in 2011).
- In 2014, $88 \%$ of births to teens were to Latina teens, and $75 \%$ of all teen mothers lived in South Santa Cruz County (see definition on page 2 ).
- In 2014 there were 2 births to 14-year-old females, similar to recent years; there have been no births to county residents under 14 years old since 2011.
- Among teen births in 2014, $15 \%$ of mothers were delivering their second (or more) birth, the same as in 2013.


## MEDI-CAL

- $53 \%$ of all deliveries to residents in 2014 were funded by Medi-Cal, essentially the same as in 20112013.


## DEFINITIONS AND TECHNICAL NOTES

## DEFINITIONS

For the purposes of this report, the following terms are defined as shown below:

| TERM | MEANING |
| :--- | :--- |
| Residents | All mothers who self-identify as residing in Santa Cruz County, regardless of where they <br> delivered. A small number of women identify as living in Santa Cruz County, but actually live in <br> another county, usually Monterey. They are counted as Santa Cruz County residents, in <br> accordance with the county shown on the birth certificate. |
| Occurrence | All mothers who delivered in Santa Cruz County, regardless of where they reside |
| Mid-County | Aptos, Capitola, La Selva Beach, Rio del Mar, Seascape, and Soquel |
| Santa Cruz Mountains | Ben Lomond, Boulder Creek, Brookdale, Felton, Lompico, Los Gatos, and Mt. Hermon |
| Santa Cruz | Bonny Doon, Davenport, and Santa Cruz |
| South County | Corralitos, Freedom, and Watsonville |
| Ethnicity |  |
| (includes Race) | In this report, ethnicity categories combine the concepts of race and ethnicity, which are <br> collected separately on the birth certificate. The combination defines "Latino" to mean Latino <br> ethnicity regardless of race chosen, and the remaining categories reflect a non-Latino ethnicity <br> (e.g., "White" means non-Latino White). All categories are mutually exclusive. Note, "Pac. Isl." or <br> "Pac. Islander" = Pacific Islander and includes Native Hawaiian, but not Filipino. |
| Low Birthweight | Less than 2500 grams or 5.5 pounds |
| Very Low Birthweight | Less than 1500 grams or 3.3 pounds |
| Preterm | Less than 37 completed weeks of gestation |
| Very Preterm | Less than 32 completed weeks of gestation |
| VBAC | Vaginal Birth after Cesarean |
| General Fertility Rate | The number of live births per 1,000 women ages 15-44 (typical childbearing age) |
| This measure is a ratio of actual prenatal visits compared to the number of visits recommended |  |
| by the American College of Obstetricians and Gynecologists (i.e., one visit per month through 28 |  |
| weeks, one visit every 2 weeks through 36 weeks, and one visit per week thereafter, adjusted |  |
| for date of initiation of prenatal care); "Adequate or Better" is defined as attending 80\% or more |  |
| of recommended prenatal care visits, and "Less than Adequate" is a score of less than 80\% of |  |
| recommended visits. The Kotelchuck Index was defined by Milton Kotelchuck in 1994 in an |  |
| attempt to measure appropriate utilization of prenatal care. |  |$|$| Adequacy of Prenatal Care |
| :--- |
| Utilization <br> (Kotelchuck Index) |

## TECHNICAL NOTES

The term "significant difference," as used in this report, means there is a statistically significant difference, based on $95 \%$ confidence limits (that is, the probability is less than $5 \%$ that the difference was due to normal variation), assuming a normal distribution. Statistical significance tests do not necessarily imply meaningful significance. Missing data are not included in the denominators of proportions, but they are included in totals unless otherwise noted. As missing data increases, the remaining rates become increasingly unreliable.

## DATA SOURCES

All of the Santa Cruz County birth data in this report (unless otherwise noted) are directly extracted from the Santa Cruz County Automated Vital Statistics System where birth certificate records are maintained, and should be considered provisional until they have gone through data cleaning by the State, which often takes two years to complete. The 2014 data were accessed on March 8, 2015.

Population data is from the State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 2010-2060. Sacramento, California, accessed April 21, 2015
(http://www.dof.ca.gov/research/demographic/reports/projections/P-3/).
California birth data is from the California Department of Public Health Vital Statistics Query System
(http://www.apps.cdph.ca.gov/vsq/default.asp). United States data is from the Centers for Disease Control and Prevention, National Center for Health Statistics (http://www.cdc.gov/nchs/index.htm).

## 1. OVERALL COUNTY DEMOGRAPHICS

The California Department of Finance estimated the total population in Santa Cruz County to be 272,210 in 2014 (see Table 1.1). The Department of Finance data was chosen instead of Census data because it provides annual population counts by sex, age, and race/ethnicity, which allows for rate calculations.

## GENDER

Nearly equal numbers of males and females reside in Santa Cruz County, with slightly more females than males.

## AGE \& ETHNICITY

Over $90 \%$ of the county's population is either White ( $57.8 \%$ ) or Latino ( $33.7 \%$ ). The remaining groups (Asians and Pacific Islanders, Blacks, American Indians, and multiple ethnicities) account for much smaller fractions of the population (Table 1.1).

In Santa Cruz County, the Latino population is much younger than the White population (Figure 1.1). For example, in 2014, $68 \%$ of the Latino population was under age 40 , compared to just $42 \%$ of the White population.

Table 1.1: Demographics, Santa Cruz County Residents, 2014

|  |  | Number |
| :--- | ---: | ---: |
| Percent |  |  |
| FENDER | 136,133 | $50.0 \%$ |
| Female | 136,077 | $50.0 \%$ |
| Male | 15,636 | $5.7 \%$ |
| AGE (Years) | 50,580 | $18.6 \%$ |
| 4 and Under | 93,596 | $34.4 \%$ |
| $5-19$ | 75,177 | $27.6 \%$ |
| $20-44$ | 37,221 | $13.7 \%$ |
| $45-64$ | 1,027 | $0.4 \%$ |
| 65 and Over | 12,194 | $4.5 \%$ |
| ETHNICITY | 2,355 | $0.9 \%$ |
| American Indian | 91,785 | $33.7 \%$ |
| Asian / Pacific Islander | 157,453 | $57.8 \%$ |
| Black | 7,396 | $2.7 \%$ |
| Latino | $\mathbf{2 7 2 , 2 1 0}$ | $\mathbf{1 0 0 \%}$ |
| White |  |  |

Figure 1.1: Age Distribution, by White or Latino Ethnicity, Santa Cruz County Residents, 2014


## 2. BIRTHS BY DEMOGRAPHICS OF MOTHERS

TABLE 2.1: Characteristics of Mothers, by Age Group, Santa Cruz County Residents, 2014

|  |  |  |  |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19 and Under |  | 20-24 |  | 25-34 |  | 35 and Over |  | Number | Percent |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |  |  |
| ETHNICITY |  |  |  |  |  |  |  |  |  |  |
| Asian \& Pac. Islander | 0 | 0\% | 8 | 2\% | 48 | 3\% | 39 | 5\% | 95 | 3\% |
| Black | 1 | 1\% | 1 | 0\% | 9 | 1\% | 3 | 0\% | 14 | 0\% |
| Latina | 150 | 88\% | 407 | 81\% | 838 | 51\% | 293 | 40\% | 1,688 | 56\% |
| White | 17 | 10\% | 69 | 14\% | 687 | 42\% | 371 | 51\% | 1,144 | 38\% |
| Other | 3 | 2\% | 15 | 3\% | 49 | 3\% | 27 | 4\% | 94 | 3\% |
| AREA OF RESIDENCE |  |  |  |  |  |  |  |  |  |  |
| Mid-County | 12 | 7\% | 40 | 8\% | 216 | 13\% | 111 | 15\% | 379 | 12\% |
| Santa Cruz Mountains | 3 | 2\% | 19 | 4\% | 157 | 10\% | 74 | 10\% | 253 | 8\% |
| Santa Cruz | 26 | 15\% | 104 | 21\% | 431 | 26\% | 290 | 39\% | 851 | 28\% |
| Scotts Valley | 1 | 1\% | 4 | 1\% | 74 | 4\% | 34 | 5\% | 113 | 4\% |
| South County | 129 | 75\% | 337 | 67\% | 772 | 47\% | 235 | 32\% | 1,473 | 48\% |
| PARITY |  |  |  |  |  |  |  |  |  |  |
| 1st Child | 147 | 86\% | 253 | 50\% | 613 | 37\% | 204 | 27\% | 1,217 | 40\% |
| 2nd - 3rd Child | 23 | 13\% | 236 | 47\% | 834 | 51\% | 390 | 52\% | 1,483 | 48\% |
| 4th+Child | 1 | 1\% | 14 | 3\% | 201 | 12\% | 150 | 20\% | 366 | 12\% |

PRENATAL CARE INITIATION AND UTILIZATION

| Early (1st Trimester) | 99 | 60\% | 357 | 72\% | 1,379 | 85\% | 619 | 85\% | 2,454 | 82\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Late (2nd or 3rd Trimester) | 63 | 38\% | 137 | 28\% | 233 | 14\% | 111 | 15\% | 544 | 18\% |
| No Prenatal Care | 2 | 1.2\% | 2 | 0.4\% | 6 | 0.4\% | 1 | 0.1\% | 11 | 0.4\% |
| Adequate or Better | 110 | 68\% | 383 | 79\% | 1,417 | 89\% | 649 | 90\% | 2,559 | 86\% |
| Less than Adequate | 52 | 32\% | 101 | 21\% | 182 | 11\% | 71 | 10\% | 406 | 14\% |
| Early and Adequate | 88 | 54\% | 329 | 68\% | 1,295 | 81\% | 587 | 82\% | 2,299 | 78\% |
| BIRTH OUTCOMES |  |  |  |  |  |  |  |  |  |  |
| Low Birthweight | 10 | 5.8\% | 17 | 3.4\% | 78 | 4.7\% | 47 | 6.3\% | 152 | 5.0\% |
| Very Low Birthweight | 0 | 0.0\% | 2 | 0.4\% | 15 | 0.9\% | 15 | 2.0\% | 32 | 1.0\% |
| Preterm | 13 | 7.6\% | 18 | 3.6\% | 111 | 6.7\% | 56 | 7.5\% | 198 | 6.5\% |
| Very Preterm | 2 | 1.2\% | 2 | 0.4\% | 22 | 1.3\% | 15 | 2.0\% | 41 | 1.3\% |
| DELIVERY METHOD |  |  |  |  |  |  |  |  |  |  |
| Primary Cesarean | 31 | 18\% | 66 | 13\% | 242 | 15\% | 143 | 19\% | 482 | 16\% |
| Repeat Cesarean | 3 | 2\% | 51 | 10\% | 258 | 16\% | 141 | 19\% | 453 | 15\% |
| Vaginal | 137 | 80\% | 385 | 76\% | 1,131 | 69\% | 447 | 60\% | 2,100 | 68\% |
| VBAC | 0 | 0\% | 2 | 0\% | 19 | 1\% | 13 | 2\% | 34 | 1\% |

PAYMENT FOR DELIVERY

| Medi-Cal | 147 | 86\% | 416 | 83\% | 786 | 48\% | 274 | 37\% | 1,623 | 53\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private Insurance | 20 | 12\% | 81 | 16\% | 826 | 50\% | 445 | 60\% | 1,372 | 45\% |
| Other Insurance | 1 | 0.6\% | 2 | 0.4\% | 3 | 0.2\% | 3 | 0.4\% | 9 | 0.3\% |
| No Insurance | 3 | 2\% | 5 | 1\% | 35 | 2\% | 22 | 3\% | 65 | 2\% |
| TOTAL | 171 | 6\% | 504 | 16\% | 1,650 | 54\% | 744 | 24\% | 3,069 | 100\% |

[^0]
## 2. BIRTHS BY DEMOGRAPHICS OF MOTHERS

## AGE OF MOTHER

The selected demographics shown in Figure 2.1 all differ significantly by age group. The percentages of mothers who were Latinas, who were South County residents, and who had Medi-Cal-funded deliveries were all highest among mothers age 19 and under, and lowest among mothers age 35 and over. The demographics shown were selected because of their well-known associations with age.

The five-year age category with the largest number of births was ages 30-34 years. That age group also had the highest age-specific birth rate (the number of births per population in a specific age category), 109.3 births per 1,000 women (Table 2.2 and Figure 2.2). For more information on teen births, go to page 9 .


Figure 2.2: Age-Specific Birth Rates (Births per 1,000 Females in Age Group), Santa Cruz County Residents, 2014


Figure 2.1: Frequency of Selected Demographic Characteristics among Mothers of Different Age Groups, Santa Cruz County Residents, 2014

Note: In the <20, 20-34, and >34 age groups, respectively: .
ercentages are calculated from known data.

Table 2.2: Births by Mother's Age Group and Age-Specific Birth Rates per 1,000 Females, Santa Cruz County Residents, 2014

| Mother's Age <br> Group | Number <br> of <br> Births | Percent of <br> Births | Total Female <br> Population <br> (per age group) | Birth Rate <br> per 1,000 <br> Popl'n |
| :---: | ---: | ---: | ---: | ---: |
| $10-14$ | 2 | $0.1 \%$ | 7,445 | 0.3 |
| $15-19$ | 169 | $5.5 \%$ | 9,427 | 17.9 |
| $20-24$ | 504 | $16.4 \%$ | 11,820 | 42.6 |
| $25-29$ | 722 | $23.5 \%$ | 9,172 | 78.7 |
| $30-34$ | 928 | $30.2 \%$ | 8,492 | 109.3 |
| $35-39$ | 589 | $19.2 \%$ | 7,943 | 74.2 |
| $40-44$ | 148 | $4.8 \%$ | 8,059 | 18.4 |
| $45-49$ | 7 | $0.2 \%$ | 8,703 | 0.8 |
| TOTAL | 3,069 | $100 \%$ | 54,913 | 55.9 |

[^1]
## 2. BIRTHS BY DEMOGRAPHICS OF MOTHERS

## ETHNICITY OF MOTHER

Among the "primary childbearing age" population (defined as females ages 15-44) in Santa Cruz County, approximately $38 \%$ are Latina and $51 \%$ are White. However, Latina mothers delivered $55 \%$ of the babies in 2014, while White mothers delivered only $37 \%$ of the babies.

The difference by ethnicities can also be seen by comparing ethnicity-specific fertility rates (Table 2.3 and Figure 2.4). The fertility rate (births per 1,000 women ages 15 to 44 ) was much higher among Latinas ( 80.6 per 1,000 ) than among Whites (41.1 per 1,000).

[^2]Figure 2.3: Percentage of Births by Ethnicity of Mother ( $\mathrm{n}=3,069$ ), Santa Cruz County Residents, 2014


Figure 2.4: Fertility Rate (Births per 1,000 Females Age 15-44) by Ethnicity of Mother, Santa Cruz County Residents, 2014


## 3. KEY HEALTH MEASURES

## AGE OF MOTHER

In 2014, younger mothers were significantly more likely to under-utilize prenatal care than their older counterparts (Figure 3.1). Teenage mothers (age 19 and under) had the highest proportion of mothers with less-than-adequate utilization of prenatal care, with $32 \%$ receiving a less than adequate number of prenatal care visits.

Low birthweight data in Figures 2.1-2.4 is shown both for all births and for "singletons only" (excluding multiple births, such as twins), because multiple births have much higher rates of low birthweight. In 2014, there were 81 multiple births, and 39 of them (48\%) were low birthweight. A high rate of multiple births among mothers over age 35 largely explains the high rate of low birthweight in that age group (Table 3.1).

## ETHNICITY OF MOTHER

Rates of less-than-adequate prenatal care were significantly higher among Latina mothers than among White mothers; the rate for mothers of other ethnicities was intermediate (Figure 3.2). Preterm delivery rates were also lowest among Whites. The "other ethnicities" group is small, so rates vary considerably from year to year; for example, that group had the lowest rate of low birthweight in 2014, after having had the highest rate in 2013.

Figure 3.1: Key Health Measures, by Age of Mother, Santa Cruz County Residents, 2014

(1) At least one component of the Adequate PNC Visits measure was missing for 9, 71, and 24 births to mothers in age
groups $<20,20-34$, \& $35+$, respectively. Births with missing data are excluded
(2) Multiple births represented $2.3 \%, 1.4 \%$, and $6.2 \%$ of births to mothers in the respective age groups $<20,20-34$, \& 35+

Figure 3.2: Key Health Measures, by Ethnicity of Mother, Santa Cruz County Residents, 2014


Ethnicity was unknown or withheld for 34 births; they have been excluded from the above calculations. "Other ethnicity" here includes Asian, Black, Native American, Pacific Islander, and those who identify as Other.

1) At least one component of the Adequate PNC Visits measure was missing for 46,44 , and 12 births to White, Latina, and Other ethnicity mothers, respectively. Births with missing data are excluded.
(2) Multiple births represented $4.3 \%, 1.4 \%$, and $3.9 \%$ of births to White, Latina and Other ethnicity mothers, respectively.

## 2. KEY HEALTH MEASURES

## EDUCATION OF MOTHER

In 2014, $21 \%$ of new mothers ages 25 and older did not have a high school diploma or equivalent. Of those mothers, $16.2 \%$ received a less than adequate number of prenatal care visits, which was significantly worse than the rate among mothers who obtained a high school diploma or a higher degree (Figure 2.3).

In 2014, mothers with a higher degree were significantly less likely to have a low birthweight baby than mothers with only a high school diploma or no diploma - unlike 2013, when the more educated mothers had a higher rate of low birthweight. These rates have varied substantially over the last decade.

Figure 2.3: Key Health Measures, by Education of Mother (Age 25 and Older), Santa Cruz County Residents, 2014


GED = General Equivalency Degree (or diploma)
Education status was unknown or withheld for 110 out of 2394 births to mothers age 25 and over; they have been excluded from the above calculations.

1) A component of the Adequate PNC measure was missing for 12, 30, and 28 births to mothers in the <HS Diploma, HS/GED (including some college), and Higher Degree Obtained (including Associate, Bachelor's, Master's, Doctorate, and Professional School) groups, respectively; they have been excluded from the above calculations.
(2) Multiple births represented 2.8\%, 2.7\%, and 3.6\% of births to mothers age 25 and over with <H.S. Diploma, H.S./GED (including some college), and Higher Degree Obtained, respectively.

Figure 2.4: Key Health Measures, by Delivery Payment Source, Santa Cruz County Residents, 2014

(1) A component of the Adequate PNC measure was missing for 60 and 42 deliveries funded by Medi-Cal and Private insurance, respectively
(2) Among deliveries funded by Medi-Cal and Private Insurance, 1.7\% and 3.9\% respectively were multiple births.

## 4. TEEN BIRTHS (AGE 19 AND UNDER), RESIDENTS

TABLE 4.1: Characteristics of Teenage Mothers, by Age Group, Santa Cruz County Residents, 2014

|  | AGE OF MOTHER (Years) |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 14 and Under |  | 15-17 |  | 18-19 |  | Number | Percent |
|  | Number | Percent | Number | Percent | Number | Percent |  |  |
| ETHNICITY |  |  |  |  |  |  |  |  |
| Asian \& Pacific Islander | 0 | 0\% | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| Black | 0 | 0\% | 0 | 0\% | 1 | 1\% | 1 | 1\% |
| Latina | 2 | 100\% | 49 | 92\% | 99 | 85\% | 150 | 88\% |
| White | 0 | 0\% | 2 | 4\% | 15 | 13\% | 17 | 10\% |
| Other | 0 | 0\% | 2 | 4\% | 1 | 1\% | 3 | 2\% |
| AREA OF RESIDENCE |  |  |  |  |  |  |  |  |
| Mid-County | 0 | 0\% | 5 | 9\% | 7 | 6\% | 12 | 7\% |
| Santa Cruz Mountains | 0 | 0\% | 1 | 2\% | 2 | 2\% | 3 | 2\% |
| Santa Cruz | 0 | 0\% | 6 | 11\% | 20 | 17\% | 26 | 15\% |
| Scotts Valley | 0 | 0\% | 0 | 0\% | 1 | 1\% | 1 | 1\% |
| South County | 2 | 100\% | 41 | 77\% | 86 | 74\% | 129 | 75\% |
| PRENATAL CARE INITIATION AND UTILIZATION |  |  |  |  |  |  |  |  |
| Early (1st Trimester) | 1 | 50\% | 27 | 54\% | 71 | 63\% | 99 | 60\% |
| Late (2nd or 3rd Trimester) | 1 | 50\% | 22 | 44\% | 40 | 36\% | 63 | 38\% |
| No Prenatal Care | 0 | 0\% | 1 | 2\% | 1 | 1\% | 2 | 1\% |
| Adequate or Better | 1 | 50\% | 29 | 58\% | 80 | 73\% | 110 | 68\% |
| Less than Adequate | 1 | 50\% | 21 | 42\% | 30 | 27\% | 52 | 32\% |
| Early \& Adequate | 1 | 50\% | 23 | 46\% | 64 | 58\% | 88 | 54\% |
| PARITY |  |  |  |  |  |  |  |  |
| 1st Child | 2 | 100\% | 49 | 92\% | 96 | 83\% | 147 | 86\% |
| 2nd Child | 0 | 0\% | 4 | 8\% | 14 | 12\% | 18 | 11\% |
| 3rd+ Child | 0 | 0\% | 0 | 0\% | 6 | 5\% | 6 | 4\% |
| BIRTH OUTCOMES |  |  |  |  |  |  |  |  |
| Low Birthweight | 0 | 0\% | 1 | 1.9\% | 9 | 7.8\% | 10 | 5.8\% |
| Very Low Birthweight | 0 | 0\% | 0 | 0\% | 0 | 0.0\% | 0 | 0.0\% |
| Preterm | 0 | 0\% | 4 | 7.5\% | 7 | 6.0\% | 11 | 6.4\% |
| Very Preterm | 0 | 0\% | 0 | 0\% | 2 | 1.7\% | 2 | 1.2\% |
| METHOD OF DELIVERY |  |  |  |  |  |  |  |  |
| Primary Cesarean | 1 | 50\% | 11 | 21\% | 19 | 16\% | 31 | 18\% |
| Repeat Cesarean | 0 | 0\% | 0 | 0\% | 3 | 3\% | 3 | 2\% |
| Vaginal | 1 | 50\% | 42 | 79\% | 94 | 81\% | 137 | 80\% |
| VBAC | 0 | 0\% | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| PAYMENT FOR DELIVERY |  |  |  |  |  |  |  |  |
| Medi-Cal | 2 | 100\% | 45 | 85\% | 100 | 86\% | 147 | 86\% |
| Private Insurance | 0 | 0\% | 5 | 9\% | 15 | 13\% | 20 | 12\% |
| Other Insurance | 0 | 0\% | 3 | 6\% | 1 | 1\% | 4 | 2\% |
| No Insurance | 0 | 0\% | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| TOTAL | 2 | 1\% | 53 | 31\% | 116 | 68\% | 171 | 100\% |

[^3]
## 4. TEEN BIRTHS (AGE 19 AND UNDER), RESIDENTS

The birth rate among Santa Cruz County teens has dropped rapidly in recent years (Figure 4.1), in line with a continuing statewide and nationwide trend of decreasing teen birth rates. However, the birth rate in 2014 among county women aged $15-19$ was 17.9 births per 1000 women, slightly higher than the $16.6 / 1000$ rate in 2013.


## AREA OF RESIDENCE

The distribution of births by place of residence often differs for teens compared to all age groups (Table 4.2). For example, in 2014, residents in ZIP Codes 95076-7 accounted for $69 \%$ of all teen births, but only $44 \%$ of all births. One notable limitation of this table is that it does not adjust for the differing age distributions within the female populations in different ZIP Codes.

TABLE 4.2: Teen Births and Overall Births, by Area of Residence, Santa Cruz County Residents, 2014

| Mother's Area of Residence | ZIP Code(s) | Teen Births (19 and Under) |  | Total Births (All Ages) |  | Percent of Births to Teens $\%$ of Teen Births among Total Births in ZIP Code |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | $\begin{gathered} \% \text { of Teen Births } \\ \text { in ZIP code } \end{gathered}$ | Number | $\begin{array}{r} \% \text { of Total Births } \\ \text { in ZIP code } \end{array}$ |  |
| Aptos | 95001,3 | 7 | 4\% | 202 | 7\% | 3.5\% |
| Capitola | 95010 | 3 | 2\% | 73 | 2\% | 4.1\% |
| Davenport | 95017 | 1 | 1\% | 7 | 0\% | 14.3\% |
| Freedom | 95019 | 9 | 5\% | 127 | 4\% | 7.1\% |
| Los Gatos | 95033 | 0 | 0\% | 25 | 1\% | 0.0\% |
| San Lorenzo Valley | 95005-7,18,41 | 3 | 2\% | 228 | 7\% | 1.3\% |
| Santa Cruz | 95060-5 | 25 | 15\% | 842 | 27\% | 3.0\% |
| Scotts Valley | 95066 | 1 | 1\% | 114 | 4\% | 0.9\% |
| Soquel | 95073 | 2 | 1\% | 92 | 3\% | 2.2\% |
| Watsonville | 95076,7 | 120 | 70\% | 1,359 | 44\% | 8.8\% |
| TOTAL |  | 171 | 100\% | 3,069 | 100\% | 5.6\% |

## 4. TEEN BIRTHS (AGE 19 AND UNDER), RESIDENTS

The percentage of total births that were births to teens dropped from $6.2 \%$ in 2013 to $5.6 \%$ in 2014. The rate of births per 1,000 teen female population (age 15-19 years) has been declining locally, statewide, and nationwide for over 20 years, although Santa Cruz County's rate rose from 16.6 per 1,000 population in 2013 to 18.1 per thousand. The national rate ( 24.2 per thousand) remains about 2-15 times higher than rates in most developed countries.


Figure 4.3 shows the number of teen mothers who delivered their second (or more) birth. In 2014, five teenage mothers each delivered their third child, and one her fourth. In 2013 the repeat teen birth rate was $17.0 \%$ in the U.S., compared to $11.7 \%$ in Santa Cruz County. In 2014, the rate in Santa Cruz County rose slightly to $14.0 \%$.

Figure 4.3: Number of Teens (Ages 15-19) Delivering their 2nd or More Birth, Santa Cruz County Residents, 2003-2014


## 5. MOTHER'S WEIGHT GAIN \& SMOKING STATUS

In 2009, the Institute of Medicine released a report recommending new guidelines for weight gain during pregnancy. In 2013, the American College of Obstetricians and Gynecologists added weight gain recommendations for mothers carrying twins. The recommended total weight gain range for each category of pre-pregnancy BMI is as follows:

| Pre-pregnan | MI ( $\mathrm{kg} / \mathrm{m}^{2}$ ) | Weight Gain for Singletons | Weight Gain for Twins |
| :---: | :---: | :---: | :---: |
| Underweight | < 18.5 | 28-40 lbs. | -- |
| Normal | 18.5-24.9 | 25-35 lbs. | 37-54 lbs. |
| Overweight | 25.0-29.9 | 15-25 lbs. | 31-50 lbs. |
| Obese | $\geq 30.0$ | 11-20 lbs. | 25-42 lbs. |

In 2014, $46 \%$ of mothers to singletons gained more weight than recommended during their pregnancy. This calculation excludes mothers with preterm births and mothers with missing pre- or post-pregnancy weight data. Mothers whose pre-pregnancy body mass index (BMI) was categorized as overweight or obese exceeded the weight gain recommendation significantly more often than mothers with normal or underweight BMI levels. In 2014, nearly half ( $49.7 \%$ ) of all mothers began pregnancy as overweight or obese.

Figure 5.1: Percentage of Mothers to Singletons in Actual Weight Gain Categories Compared to Recommendations, by Pre-Pregnancy Body Mass Index (BMI), Santa Cruz County Residents, 2014


Note: The data above exclude preterm births (< 37 weeks gestation) and mothers with either unknown pre-pregnancy weight or unknown weight gain.

## SMOKING STATUS

The number and percentage of females who self-reported smoking at least one cigarette a day during different time periods before and during pregnancy are shown below in Table 5.1. The percentage who said they smoked before pregnancy had dropped from $2.5 \%$ in 2011 to $1.4 \%$ in 2012 and 2013, but in 2014 the rate rebounded to $2.6 \%$. However, since about $12-15 \%$ of California adults are smokers, there is reason to believe that birth certificate data do not accurately capture the percentage of mothers who smoked before or during pregnancy.

TABLE 5.1: Mother's Smoking Status during Pregnancy, by Trimester, Santa Cruz County Residents, 2014

| Mother's Smoking Status | 3 Months Before Conception |  | During 1st <br> Trimester |  | During 2nd Trimester |  | During 3rd Trimester |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Smoked at least 1 cigarette per day |  |  |  |  |  |  |  |  |
| Yes | 80 | 2.6\% | 69 | 2.2\% | 62 | 2.0\% | 57 | 1.9\% |
| No | 2,989 | 97.4\% | 3,000 | 97.8\% | 3,007 | 98.0\% | 3,012 | 98.1\% |
| TOTAL | 3,069 | 100\% | 3,069 | 100\% | 3,069 | 100\% | 3,069 | 100\% |

[^4]
## 6. BIRTHS BY AGE OF FATHER (RESIDENT MOTHERS)

TABLE 6.1: Characteristics of Fathers, by Age Group, Santa Cruz County Resident Mothers, 2014

|  | AGE OF FATHER (Years) |  |  |  |  |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 17 and Under |  | 18-19 |  | 20-24 |  | 25-34 |  | 35 and Over |  | Number | Percent |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |  |  |
| AGE OF MOTHER (Years) |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 and Under | 12 | 60\% | 16 | 31\% | 9 | 3\% | 1 | 0\% | 1 | 0\% | 39 | 1\% |
| 18-19 | 5 | 25\% | 29 | 56\% | 49 | 14\% | 16 | 1\% | 3 | 0\% | 102 | 4\% |
| 20-24 | 2 | 10\% | 6 | 12\% | 224 | 64\% | 217 | 16\% | 13 | 1\% | 462 | 16\% |
| 25-34 | 1 | 5\% | 1 | 2\% | 65 | 19\% | 1,018 | 74\% | 491 | 45\% | 1,576 | 54\% |
| 35 and Over | 0 | 0\% | 0 | 0\% | 3 | 1\% | 133 | 10\% | 584 | 53\% | 720 | 25\% |
| ETHNICITY OF FATHER |  |  |  |  |  |  |  |  |  |  |  |  |
| Asian \& Pacific Islander | 0 | 0\% | 0 | 0\% | 3 | 1\% | 37 | 3\% | 54 | 5\% | 94 | 3\% |
| Black | 0 | 0\% | 0 | 0\% | 1 | 0\% | 16 | 1\% | 20 | 2\% | 37 | 1\% |
| Latino | 18 | 90\% | 47 | 90\% | 298 | 85\% | 790 | 57\% | 438 | 40\% | 1,591 | 55\% |
| White | 2 | 10\% | 5 | 10\% | 40 | 11\% | 528 | 38\% | 553 | 51\% | 1,128 | 39\% |
| Other | 0 | 0\% | 0 | 0\% | 4 | 1\% | 4 | 0\% | 8 | 1\% | 16 | 1\% |
| Unknown | 0 | 0\% | 0 | 0\% | 4 | 1\% | 10 | 1\% | 19 | 2\% | 33 | 1\% |
| EDUCATION OF FATHER |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade \& Under | 2 | 10\% | 7 | 13\% | 55 | 16\% | 185 | 13\% | 164 | 15\% | 413 | 14\% |
| Some High School | 13 | 65\% | 15 | 29\% | 84 | 24\% | 169 | 12\% | 82 | 8\% | 363 | 13\% |
| HS Diploma or GED ${ }^{(1)}$ | 5 | 25\% | 28 | 54\% | 173 | 49\% | 598 | 43\% | 321 | 29\% | 1,125 | 39\% |
| Higher Degree Obtained | 0 | 0\% | 1 | 2\% | 23 | 7\% | 360 | 26\% | 467 | 43\% | 851 | 29\% |
| Withheld or Unknown | 0 | 0\% | 1 | 2\% | 15 | 4\% | 73 | 5\% | 58 | 5\% | 147 | 5\% |
| TOTAL | 20 | 1\% | 52 | 2\% | 350 | 12\% | 1,385 | 48\% | 1,092 | 38\% | 2,899 | 100\% |

Note: 170 fathers (5.5\%) without age information are not included in this table.
(1) GED = General Equivalency Degree (or diploma); includes those with some college

## 7. BIRTHS BY DELIVERY LOCATION

TABLE 7.1: Characteristics of Births, by Delivery Location, Santa Cruz County Occurrence or Residence, 2014

|  | DELIVERY LOCATION |  |  |  |  |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dominican |  | Sutter |  | Watsonville |  | Non-Hospital |  | Out of County |  | Number | Percent |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |  |  |
| AGE OF MOTHER (Years) |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 and Under | 12 | 1\% | 8 | 1\% | 41 | 3\% | 0 | 0\% | 2 | 1\% | 63 | 2\% |
| 18-19 | 22 | 2\% | 24 | 2\% | 95 | 7\% | 0 | 0\% | 2 | 1\% | 143 | 4\% |
| 20-24 | 141 | 16\% | 96 | 9\% | 335 | 25\% | 5 | 7\% | 23 | 10\% | 600 | 17\% |
| 25-34 | 477 | 53\% | 630 | 61\% | 637 | 48\% | 43 | 61\% | 126 | 55\% | 1,913 | 54\% |
| 35 and Over | 243 | 27\% | 276 | 27\% | 210 | 16\% | 23 | 32\% | 75 | 33\% | 827 | 23\% |


| ETHNICITY OF MOTHER |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Asian \& Pacific Islander | 34 | $4 \%$ | 35 | $3 \%$ | 9 | $1 \%$ | 3 | $4 \%$ | 22 | $10 \%$ | 103 | $3 \%$ |
| Black | 7 | $1 \%$ | 5 | $0 \%$ | 3 | $0 \%$ | 0 | $0 \%$ | 0 | $0 \%$ | 15 | $0 \%$ |
| Latina | 373 | $43 \%$ | 298 | $29 \%$ | 1,255 | $95 \%$ | 7 | $10 \%$ | 85 | $38 \%$ | 2,018 | $58 \%$ |
| White | 434 | $50 \%$ | 634 | $62 \%$ | 45 | $3 \%$ | 52 | $76 \%$ | 110 | $50 \%$ | 1,275 | $36 \%$ |
| Other | 27 | $3 \%$ | 54 | $5 \%$ | 5 | $0 \%$ | 6 | $9 \%$ | 4 | $2 \%$ | 96 | $3 \%$ |

## EDUCATION OF MOTHER

| 8th Grade \& Under | 32 | $4 \%$ | 11 | $1 \%$ | 386 | $29 \%$ | 0 | $0 \%$ | 15 | $7 \%$ | 444 | $13 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Some High School | 71 | $9 \%$ | 18 | $2 \%$ | 336 | $26 \%$ | 0 | $0 \%$ | 18 | $8 \%$ | 443 | $13 \%$ |
| HS Diploma or GED ${ }^{(1)}$ | 367 | $45 \%$ | 398 | $41 \%$ | 445 | $34 \%$ | 15 | $22 \%$ | 57 | $26 \%$ | 1,282 | $38 \%$ |
| Higher Degree Obtained | 352 | $43 \%$ | 542 | $56 \%$ | 150 | $11 \%$ | 52 | $78 \%$ | 127 | $59 \%$ | 1,223 | $36 \%$ |

PRENATAL CARE INITIATION AND UTILIZATION

| Early (1st Trimester) | 779 | $88 \%$ | 889 | $88 \%$ | 889 | $69 \%$ | 51 | $72 \%$ | 204 | $90 \%$ | 2,812 | $81 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Late (2nd or 3rd Trimester) | 96 | $11 \%$ | 116 | $12 \%$ | 402 | $31 \%$ | 19 | $27 \%$ | 23 | $10 \%$ | 656 | $19 \%$ |
| No Prenatal Care | 7 | $1 \%$ | 0 | $0 \%$ | 5 | $0 \%$ | 1 | $1 \%$ | 0 | $0 \%$ | 13 | $0 \%$ |
| Adequate or Better | 739 | $87 \%$ | 933 | $95 \%$ | 1,032 | $80 \%$ | 55 | $79 \%$ | 180 | $80 \%$ | 2,939 | $86 \%$ |
| Less than Adequate | 108 | $13 \%$ | 53 | $5 \%$ | 262 | $20 \%$ | 15 | $21 \%$ | 46 | $20 \%$ | 484 | $14 \%$ |
| Early \& Adequate | 688 | $81 \%$ | 866 | $88 \%$ | 864 | $67 \%$ | 46 | $66 \%$ | 171 | $76 \%$ | 2,635 | $77 \%$ |


| BIRTH OUTCOMES ${ }^{(2)}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Low Birthweight | 67 | $7.5 \%$ | 12 | $1.2 \%$ | 59 | $4.5 \%$ | 1 | $1 \%$ | 42 | $18.4 \%$ | 181 | $5.1 \%$ |
| Very Low Birthweight | 13 | $1.5 \%$ | 0 | $0.0 \%$ | 6 | $0.5 \%$ | 1 | $1 \%$ | 16 | $7.0 \%$ | 36 | $1.0 \%$ |
| Preterm | 79 | $8.8 \%$ | 23 | $2.2 \%$ | 47 | $3.6 \%$ | 0 | $0.0 \%$ | 33 | $14.5 \%$ | 182 | $5.1 \%$ |
| Very Preterm | 16 | $1.8 \%$ | 0 | $0 \%$ | 10 | $0.8 \%$ | 1 | $1 \%$ | 19 | $8.3 \%$ | 46 | $1.3 \%$ |
| DELIVERY METHOD |  |  |  |  |  |  |  |  |  |  |  |  |
| Primary Cesarean | 138 | $15 \%$ | 127 | $12 \%$ | 215 | $16 \%$ | 0 | $0 \%$ | 64 | $28 \%$ | 544 | $15 \%$ |
| Repeat Cesarean | 128 | $14 \%$ | 99 | $9 \%$ | 254 | $19 \%$ | 0 | $0 \%$ | 33 | $14 \%$ | 514 | $14 \%$ |
| Vaginal | 629 | $69 \%$ | 808 | $76 \%$ | 849 | $64 \%$ | 71 | $100 \%$ | 131 | $57 \%$ | 2,488 | $69 \%$ |
| VBAC | 15 | $2 \%$ | 26 | $2 \%$ | 11 | $1 \%$ | 0 | $0 \%$ | 1 | $0 \%$ | 53 | $1 \%$ |

PAYMENT FOR DELIVERY

| Medi-Cal | 395 | $44 \%$ | 289 | $28 \%$ | 1,156 | $88 \%$ | 4 | $6 \%$ | 57 | $25 \%$ | 1,901 | $54 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Private Insurance | 489 | $55 \%$ | 740 | $72 \%$ | 152 | $12 \%$ | 19 | $27 \%$ | 164 | $72 \%$ | 1,564 | $44 \%$ |
| Other Insurance | 3 | $0 \%$ | 4 | $0 \%$ | 0 | $0 \%$ | 2 | $3 \%$ | 3 | $1 \%$ | 12 | $0 \%$ |
| No Insurance | 8 | $1 \%$ | 1 | $0 \%$ | 10 | $1 \%$ | 46 | $65 \%$ | 4 | $2 \%$ | 69 | $2 \%$ |
| TOTAL | $\mathbf{8 9 5}$ | $\mathbf{2 5 \%}$ | $\mathbf{1 , 0 3 4}$ | $\mathbf{2 9 \%}$ | $\mathbf{1 , 3 1 8}$ | $\mathbf{3 7 \%}$ | $\mathbf{7 1}$ | $\mathbf{2 \%}$ | $\mathbf{2 2 8}$ | $\mathbf{6 \%}$ | $\mathbf{3 , 5 4 6}$ | $\mathbf{1 0 0 \%}$ |

[^5]Education categories include mothers of all ages, unlike Figure 2.3 on page 5, which excludes mothers under age 25 years to compare key health measures. All ages have been included in Table 7.1 to describe the entire patient population by delivery location.
Low Birthweight includes Very Low Birthweight.
(1) GED = General Equivalency Degree (or diploma); includes "some college." (2) Outcomes are among all births and do not exclude multiple births.

## 7. BIRTHS BY DELIVERY LOCATION

This table provides more details about where Santa Cruz County residents and non-residents deliver. The great majority of non-residents who deliver in Santa Cruz County are residents of Monterey County, and the majority of non-resident births are delivered at Watsonville Community Hospital.

TABLE 7.2: Mother's Area of Residence, by Delivery Location, Santa Cruz County Occurrence or Residence, 2014

|  | DELIVERY LOCATION |  |  |  |  |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dominican |  | Sutter |  | Watsonville |  | Non-Hospital |  | Out of County |  | Number | Percent |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |  |  |
| AREA OF RESIDENCE |  |  |  |  |  |  |  |  |  |  |  |  |
| SANTA CRUZ COUNTY | 819 | 92\% | 906 | 88\% | 1,050 | 80\% | 66 | 93\% | 228 | 100\% | 3,069 | 87\% |
| Mid-County | 137 | 17\% | 185 | 20\% | 16 | 2\% | 10 | 15\% | 31 | 14\% | 379 | 12\% |
| Santa Cruz Mountains | 90 | 11\% | 93 | 10\% | 3 | 0\% | 17 | 26\% | 50 | 22\% | 253 | 8\% |
| Santa Cruz | 383 | 47\% | 377 | 42\% | 6 | 1\% | 35 | 53\% | 50 | 22\% | 851 | 28\% |
| Scotts Valley | 39 | 5\% | 55 | 6\% | 1 | 0\% | 1 | 2\% | 17 | 7\% | 113 | 4\% |
| South County | 170 | 21\% | 196 | 22\% | 1,024 | 98\% | 3 | 5\% | 80 | 35\% | 1,473 | 48\% |
| MONTEREY COUNTY | 44 | 4.9\% | 91 | 8.8\% | 252 | 19.1\% | 1 | - | - | - | 388 | 10.9\% |
| SAN BENITO COUNTY | 7 | 0.8\% | 15 | 1.5\% | 12 | 0.9\% | - | - | - | - | 34 | 1.0\% |
| SANTA CLARA COUNTY | 13 | 1.5\% | 13 | 1.3\% | 2 | 0.2\% | 1 | - | - |  | 29 | 0.8\% |
| OTHER COUNTIES | 12 | 1.3\% | 9 | 0.9\% | 2 | 0.2\% | 3 | - | - | - | 26 | 0.7\% |
| TOTAL | 895 | 25\% | 1,034 | 29\% | 1,318 | 37\% | 71 | 2\% | 228 | 6\% | 3,546 | 100\% |

Figure 7.1: Percentage of Births, by Delivery Location, Santa Cruz County Occurrence or Residence, 2014


## 7. BIRTHS BY DELIVERY LOCATION

The medical capability to handle high-risk births varies by hospital. Oftentimes when a resident travels out of county, it is to deliver at a hospital that is designated as having the ability to deliver very high-risk births. In Santa Cruz County, Dominican Hospital has the only Level 3 Neonatal Intensive Care Unit-which greatly influences their outcome data, since other hospitals may send high-risk pregnant women to Dominican Hospital for delivery.


## CESAREAN BIRTHS

Below are figures on the percentage of cesarean births among low-risk births to females either without a prior cesarean birth (Figure 7.3) or with a prior cesarean birth (Figure 7.4); low-risk births are defined in the figure notes.


## 8. TRENDS

## EARLY PRENATAL CARE

The percentage of mothers who received early prenatal care (1st trimester) was $80.0 \%$ in 2014 , compared to $80.7 \%$ in 2013 (Figure 10.1). The Healthy People objective was lowered from $90 \%$ in 2010 to $77.9 \%$ for 2020; the 2020 objective has been met or nearly met countywide and statewide for over ten years. Figure 10.2 compares early prenatal care for deliveries paid by Medi-Cal versus those paid by private insurance. Medi-Cal patients represented most of the decline that occurred in 2007. In 2007 Medi-Cal replaced the in-person application process with a call center and began requiring a birth certificate for mothers who were not born in California.

Figure 10.1: Percentage of Births Receiving Early Prenatal Care (1st Trimester) Healthy People 2020 Objective (HP 2020), California 2003-2013, and Santa Cruz County Residents 2003-2014


Figure 10.2: Percentage of Births Receiving Early Prenatal Care (1st Trimester), by Delivery Payment Source, Santa Cruz County Residents, 2003-2014


## 8. TRENDS

## ADEQUACY OF PRENATAL CARE UTILIZATION

The percentage of mothers who adequately utilized prenatal care (Kotelchuck Index, see Definitions on page 2) was $86.3 \%$ in 2014, compared to $74.9 \%$ in 2003 (Figure 10.3). The county trend is improving, and we have met the Healthy People 2020 target, but there is still room for improvement. Publicly available California data more recent than 2008 is not comparable to this Santa Cruz County data. However, similar data in the County Health Status Profiles consistently shows Santa Cruz County rates to be among the ten best county rates in the state.


## MEDI-CAL FUNDED DELIVERIES

Figure 10.4 shows the trend in the percentage of deliveries funded by Medi-Cal. In 2014, 53\% of Santa Cruz County residents' deliveries were funded by Medi-Cal, compared to $44 \%$ in 2003.



[^0]:    Note: The sum of column categories does not always equal the overall column total, either because of missing information (percentages are out of known data) or because of the nature of the column, such as "Birth Outcomes," which does not detail the comprehensive list of mutually exclusive categories.
    HP2020 Targets: Reduce low birthweight (< 5.5 lbs ) to $7.8 \%$; reduce very low birthweight ( $<3.3 \mathrm{lbs}$ ) to $1.4 \%$; reduce preterm ( $<37$ weeks) to $11.4 \%$; reduce very preterm ( $<32$ weeks) to $1.8 \%$

[^1]:    Rates are age-specific and are calculated by dividing the total number of births to females in an age group by the total female population in that age group. The "TOTAL" birth rate in this table is also known as the general fertility rate, which is the number of births divided by the Total Female Population (females of "childbearing age," ages 15-44).

[^2]:    "Other" includes American Indian / Alaska Native and Multiple Race Categories. The ethnicityspecific "Fertility Rate" is the number of births per ethnicity divided by the female population (ages 15-44) per ethnicity.

[^3]:    Note: The sum of column categories does not always equal the overall column total either because of missing information (percentages are out of known data) or because of the nature of the column, such as "Birth Outcomes," which does not detail the comprehensive list of mutually exclusive categories.

[^4]:    Note: This table does not include births for whom the mother's cigarette smoking status was missing.
    Healthy People 2020 Objective: Increase abstinence from cigarettes to $98.6 \%$ or more of all pregnant women (MICH-11.3).

[^5]:    Note: Mothers with missing data are omitted and are not included in calculations of percentages.

