

PublicHealth
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## INTRODUCTION

This report provides data on live births delivered in 2013. 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 2013, there were 2,866 live births to mothers who reside in Santa Cruz County, which is 210 (6.8\%) fewer births than in 2012.
- The General Fertility Rate in 2013 was 51.1 births per 1,000 females of typical childbearing age (1544 years) among Santa Cruz County residents, compared to 54.8 in 2012. In 2012, the U.S. rate was 63.0 per 1,000 women - the lowest ever reported for the United States (CDC, Births: Final data for 2012).
- An additional 484 births were delivered in Santa Cruz County to mothers who are residents of other counties, primarily Monterey County ( $81 \%$ ).


## TEEN BIRTHS (19 and Under)

- In 2013, $92 \%$ of births to teens were to Latina teens, and $78 \%$ of all teen mothers lived in South Santa Cruz County (see definition on page 2).
- Births to teens as a percentage of all births decreased from $7.3 \%$ in 2012 to $6.3 \%$ in 2013, and the number of teen births fell substantially again (179 births, compared to 224 in 2012 and 256 in 2011).
- In 2013 there was 1 birth to a 14-year-old female, compared to 4 in 2011 and 2 in 2012; there were no births to 13-year-old females in 2012 or 2013, compared to 1 birth to a 13-year-old in 2011.
- Among teen births, $15 \%$ of mothers were delivering their second (or more) birth in 2013, compared to $12 \%$ in 2012.

MEDI-CAL
$\cdot 52 \%$ of all deliveries to residents were funded by Medi-Cal in 2013, essentially the same as in 2011 and 2012.

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For copies of the report:
Refer to our website, www.SantaCruzHealth.org, and go to the "Reports and Statistics" link.

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## 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 2013 data were accessed on September 22, 2014.

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 July 21, 2014
(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).

The California Department of Finance estimated the total population in Santa Cruz County to be 268,861 in 2013 (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 ( $57.5 \%$ ) or Latino ( $33.9 \%$ ). 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 2013, $70 \%$ of the Latino population was under age 40 , compared to just $42 \%$ of the White population.

Table 1.1: Demographics, Santa Cruz County Residents, 2013

|  |  | Number |
| :--- | ---: | ---: |
| GENDER | Percent |  |
| Female | 134,672 | $50.1 \%$ |
| Male | 134,189 | $49.9 \%$ |
| AGE (Years) | 15,711 | $5.8 \%$ |
| 4 and Under | 52,090 | $19.4 \%$ |
| $5-19$ | 92,887 | $34.5 \%$ |
| $20-44$ | 74,258 | $27.6 \%$ |
| $45-64$ | 33,915 | $12.6 \%$ |
| 65 and Over | 9 |  |
| ETHNICITY | 970 | $0.4 \%$ |
| American Indian | 2,410 | $4.6 \%$ |
| Asian / Pacific Islander | 91,087 | $33.9 \%$ |
| Black | 154,555 | $57.5 \%$ |
| Latino | 7,359 | $2.7 \%$ |
| White | $\mathbf{2 6 8 , 8 6 1}$ | $\mathbf{1 0 0 \%}$ |
| Multiple Races/Ethnicities |  |  |

Figure 1.1: Age Distribution, by White or Latino


## 2. KEY HEALTH MEASURES

## AGE OF MOTHER

In 2013, younger mothers were significantly more likely to under-utilize prenatal care than their older counterparts (Figure 2.1). Teenage mothers (age 19 and under) had the highest proportion of mothers with less-thanadequate utilization of prenatal care, with $30 \%$ receiving a less than adequate number of prenatal care visits.

Low birthweight data is shown both for all births and for "singletons only" (excluding multiple births, such as twins), because multiple births are known to have much higher rates of low birthweight. In 2013, there were 83 multiple births (one twin fetus was registered as a fetal death), and 44 of them, or $53 \%$, were low birthweight. A high rate of multiple births among mothers over age 35 explains the high overall rate of low birthweight in that group.

## ETHNICITY OF MOTHER

Latina mothers had significantly higher rates of less-than-adequate prenatal care than did White mothers and mothers of other ethnicity (Figure 2.2). Rates of low birthweight and premature delivery were lowest among Whites and highest among mothers of other ethnicity.

Figure 2.1: Key Health Measures, by Age of Mother, Santa Cruz County Residents, 2013

(1) At least one component of the Adequate PNC Visits measure was missing for 9, 79, and 31 births to mothers in age groups $<20,20-34, \& 35+$, respectively. Births with missing data are excluded.
(2) Multiple births represented $1.1 \%, 2.6 \%$, and $4.2 \%$ of births to mothers in the respective age groups $<20,20-34$, \& $35+$.

Figure 2.2: Key Health Measures, by Ethnicity of Mother, Santa Cruz County Residents, 2013


[^0] 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 50, 50, and 24 births to White, Latina, and Other ethnicity mothers, respectively. Births with missing data are excluded.
(2) Multiple births represented $4.6 \%, 1.5 \%$, and $3.6 \%$ of births to White, Latina and Other ethnicity mothers, respectively.

## 2. KEY HEALTH MEASURES

## EDUCATION OF MOTHER

In 2013, $20 \%$ of new mothers ages 25 and older did not have a high school diploma or equivalent. Of those mothers, $18.6 \%$ utilized 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).

Mothers with a higher degree were more likely to have a low birthweight baby compared to mothers who did not complete high school. However, there was no such difference for singleton births, indicating that the difference was due to multiple births, which are more common among mothers with a higher degree.

## DELIVERY PAYMENT SOURCE

In 2013, Medi-Cal funded 52\% of deliveries to county residents and private insurance funded $46 \%$ of deliveries; the remainder were otherwise insured or not insured. Mothers with Medi-Cal-funded deliveries were significantly more likely than mothers with privately insured deliveries to utilize less than adequate prenatal care visits.

Privately insured deliveries were more likely to be low birthweight, but this difference disappeared when twin births were excluded.

Figure 2.3: Key Health Measures, by Education of Mother (Age 25 and Older), Santa Cruz County Residents, 2013


GED = General Equivalency Degree (or diploma)
Education status was unknown or withheld for 102 out of 2184 births to mothers age 25 and over; they have been excluded from he above calculations
(1) A component of the Adequate PNC measure was missing for 6,35 , and 36 births to mothers in the $<$ HS Diploma, HS/GED (including some college), and Higher Degree Obtained (including Associate, Bachelor's, Master's, Doctorate, and Professiona School) groups, respectively
(2) Multiple births represented $0.5 \%, 2.5 \%$, and $5.3 \%$ 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, 2013


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

TABLE 3.1: Characteristics of Mothers, by Age Group, Santa Cruz County Residents, 2013

|  |  |  |  |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19 and Under |  | 20-24 |  | 25-34 |  | 35 and Over |  | Numb | Percen |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |  | Perce |
| ETHNICITY |  |  |  |  |  |  |  |  |  |  |
| Asian \& Pac. Islander | 1 | 1\% | 4 | 1\% | 60 | 4\% | 38 | 6\% | 103 | 4\% |
| Black | 1 | 1\% | 9 | 2\% | 11 | 1\% | 8 | 1\% | 29 | 1\% |
| Latina | 158 | 88\% | 394 | 80\% | 735 | 49\% | 235 | 36\% | 1,522 | 54\% |
| White | 13 | 7\% | 74 | 15\% | 663 | 44\% | 372 | 56\% | 1,122 | 40\% |
| Other | 6 | 3\% | 14 | 3\% | 25 | 2\% | 8 | 1\% | 53 | 2\% |
| AREA OF RESIDENCE |  |  |  |  |  |  |  |  |  |  |
| Mid-County | 7 | 4\% | 28 | 6\% | 195 | 13\% | 120 | 18\% | 350 | 12\% |
| Santa Cruz Mountains | 4 | 2\% | 22 | 4\% | 123 | 8\% | 73 | 11\% | 222 | 8\% |
| Santa Cruz | 28 | 16\% | 91 | 18\% | 424 | 28\% | 239 | 36\% | 782 | 27\% |
| Scotts Valley | 1 | 1\% | 5 | 1\% | 71 | 5\% | 40 | 6\% | 117 | 4\% |
| South County | 139 | 78\% | 356 | 71\% | 697 | 46\% | 201 | 30\% | 1,393 | 49\% |
| PARITY |  |  |  |  |  |  |  |  |  |  |
| 1st Child | 152 | 85\% | 256 | 51\% | 529 | 35\% | 197 | 29\% | 1,134 | 40\% |
| 2nd - 3rd Child | 27 | 15\% | 236 | 47\% | 822 | 54\% | 365 | 54\% | 1,450 | 51\% |
| 4th+ Child | 0 | 0\% | 11 | 2\% | 160 | 11\% | 111 | 16\% | 282 | 10\% |
| PRENATAL CARE INITIATION AND UTILIZATION |  |  |  |  |  |  |  |  |  |  |
| Early (1st Trimester) | 108 | 63\% | 356 | 72\% | 1,247 | 84\% | 603 | 91\% | 2,314 | 82\% |
| Late (2nd or 3rd Trimester) | 63 | 37\% | 134 | 27\% | 230 | 16\% | 55 | 8\% | 482 | 17\% |
| No Prenatal Care | 1 | 0.6\% | 3 | 0.6\% | 3 | 0.2\% | 2 | 0.3\% | 9 | 0.3\% |
| Adequate or Better | 119 | 70\% | 384 | 79\% | 1,262 | 87\% | 580 | 90\% | 2,345 | 85\% |
| Less than Adequate | 51 | 30\% | 102 | 21\% | 187 | 13\% | 62 | 10\% | 402 | 15\% |
| Early and Adequate | 98 | 58\% | 332 | 68\% | 1,158 | 80\% | 554 | 86\% | 2,142 | 78\% |
| BIRTH OUTCOMES |  |  |  |  |  |  |  |  |  |  |
| Low Birthweight | 14 | 7.8\% | 28 | 5.6\% | 69 | 4.6\% | 50 | 7.4\% | 161 | 5.6\% |
| Very Low Birthweight | 2 | 1.1\% | 8 | 1.6\% | 12 | 0.8\% | 8 | 1.2\% | 30 | 1.0\% |
| Preterm | 9 | 5.0\% | 32 | 6.4\% | 94 | 6.2\% | 62 | 9.2\% | 197 | 6.9\% |
| Very Preterm | 3 | 1.7\% | 10 | 2.0\% | 16 | 1.1\% | 9 | 1.3\% | 38 | 1.3\% |
| DELIVERY METHOD |  |  |  |  |  |  |  |  |  |  |
| Primary Cesarean | 34 | 19\% | 84 | 17\% | 200 | 13\% | 132 | 20\% | 450 | 16\% |
| Repeat Cesarean | 3 | 2\% | 41 | 8\% | 203 | 13\% | 126 | 19\% | 373 | 13\% |
| Vaginal | 142 | 79\% | 373 | 74\% | 1,082 | 72\% | 402 | 60\% | 1,999 | 70\% |
| VBAC | 0 | 0\% | 5 | 1\% | 26 | 2\% | 13 | 2\% | 44 | 2\% |
| PAYMENT FOR DELIVERY |  |  |  |  |  |  |  |  |  |  |
| Medi-Cal | 163 | 91\% | 410 | 82\% | 702 | 46\% | 202 | 30\% | 1,477 | 52\% |
| Private Insurance | 12 | 7\% | 77 | 15\% | 763 | 50\% | 451 | 67\% | 1,303 | 46\% |
| Other Insurance | 1 | 0.6\% | 4 | 0.8\% | 3 | 0.2\% | 0 | 0.0\% | 8 | 0.3\% |
| No Insurance | 3 | 2\% | 11 | 2\% | 43 | 3\% | 18 | 3\% | 75 | 3\% |
| TOTAL | 179 | 6\% | 503 | 18\% | 1,511 | 53\% | 673 | 23\% | 2,866 | 100\% |

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

## AGE OF MOTHER

The selected demographics shown in Figure 3.1 differ significantly by age group. For example, a larger proportion of mothers age 19 and under are Latina ( $91.6 \%$ ) compared to mothers age 35 and over ( $36.4 \%$ ). 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), 91.7 births per 1,000 women (Table 3.2 and Figure 3.2). For more information on teen births, go to page 9 .


Figure 3.2: Age-Specific Birth Rates (Births per 1,000 Females in Age Group), Santa Cruz County Residents, 2013


## 3. 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 $40 \%$ are Latina and $49 \%$ are White. However, Latina mothers delivered over $53 \%$ of the babies in 2013, while White mothers delivered only 39\% of the babies.

The difference by ethnicities can also be seen by comparing ethnicity-specific fertility rates (Table 3.3 and Figure 3.4). The fertility rate (births per 1,000 women ages 15 to 44) was much higher among Latinas ( 68.7 per 1,000 ) than among Whites (40.7 per 1,000).
"Other" includes American Indian / Alaska Native and Multiple Race Categories. The ethnicityspecific "Fertility Rates" are the number of births per ethnicity divided by the female population (ages 15-44) per ethnicity.

Figure 3.3: Percentage of Births by Ethnicity of Mother ( $\mathrm{n}=2,866$ ), Santa Cruz County Residents, 2013


Figure 3.4: Fertility Rate (Births per 1,000 Females Age 15-44) by Ethnicity of Mother, Santa Cruz County Residents, 2013


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

TABLE 4.1: Characteristics of Teenage Mothers, by Age Group, Santa Cruz County Residents, 2013

|  | 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\% | 1 | 1\% | 1 | 1\% |
| Black | 0 | 0\% | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| Latina | 1 | 100\% | 51 | 91\% | 112 | 92\% | 164 | 92\% |
| White | 0 | 0\% | 4 | 7\% | 9 | 7\% | 13 | 7\% |
| Other | 0 | 0\% | 1 | 2\% | 0 | 0\% | 1 | 1\% |
| AREA OF RESIDENCE |  |  |  |  |  |  |  |  |
| Mid-County | 0 | 0\% | 1 | 2\% | 6 | 5\% | 7 | 4\% |
| Santa Cruz Mountains | 0 | 0\% | 0 | 0\% | 4 | 3\% | 4 | 2\% |
| Santa Cruz | 0 | 0\% | 8 | 14\% | 20 | 16\% | 28 | 16\% |
| Scotts Valley | 0 | 0\% | 0 | 0\% | 1 | 1\% | 1 | 1\% |
| South County | 1 | 100\% | 47 | 84\% | 91 | 75\% | 139 | 78\% |
| PRENATAL CARE INITIATION AND UTILIZATION |  |  |  |  |  |  |  |  |
| Early (1st Trimester) | 0 | 0\% | 31 | 61\% | 77 | 64\% | 108 | 63\% |
| Late (2nd or 3rd Trimester) | 1 | 100\% | 20 | 39\% | 42 | 35\% | 63 | 37\% |
| No Prenatal Care | 0 | 0\% | 0 | 0\% | 1 | 1\% | 1 | 1\% |
| Adequate or Better | 0 | 0\% | 34 | 67\% | 85 | 72\% | 119 | 70\% |
| Less than Adequate | 1 | 100\% | 17 | 33\% | 33 | 28\% | 51 | 30\% |
| Early \& Adequate | 0 | 0\% | 30 | 59\% | 68 | 58\% | 98 | 58\% |
| PARITY |  |  |  |  |  |  |  |  |
| 1st Child | 1 | 100\% | 53 | 95\% | 98 | 80\% | 152 | 85\% |
| 2nd Child | 0 | 0\% | 3 | 5\% | 21 | 17\% | 24 | 13\% |
| 3rd+ Child | 0 | 0\% | 0 | 0\% | 3 | 2\% | 3 | 2\% |
| BIRTH OUTCOMES |  |  |  |  |  |  |  |  |
| Low Birthweight | 0 | 0\% | 4 | 7.1\% | 10 | 8.2\% | 14 | 7.8\% |
| Very Low Birthweight | 0 | 0\% | 0 | 0\% | 2 | 1.6\% | 2 | 1.1\% |
| Preterm | 0 | 0\% | 0 | 0\% | 9 | 7.4\% | 9 | 5.0\% |
| Very Preterm | 0 | 0\% | 0 | 0\% | 3 | 2.5\% | 3 | 1.7\% |
| METHOD OF DELIVERY |  |  |  |  |  |  |  |  |
| Primary Cesarean | 0 | 0\% | 14 | 25\% | 20 | 16\% | 34 | 19\% |
| Repeat Cesarean | 0 | 0\% | 1 | 2\% | 2 | 2\% | 3 | 2\% |
| Vaginal | 1 | 100\% | 41 | 73\% | 100 | 82\% | 142 | 79\% |
| VBAC | 0 | 0\% | 0 | 0\% | 0 | 0\% | 0 | 0\% |
| PAYMENT FOR DELIVERY |  |  |  |  |  |  |  |  |
| Medi-Cal | 1 | 100\% | 51 | 93\% | 111 | 91\% | 163 | 92\% |
| Private Insurance | 0 | 0\% | 3 | 5\% | 9 | 7\% | 12 | 7\% |
| Other Insurance | 0 | 0\% | 1 | 2\% | 0 | 0\% | 1 | 1\% |
| No Insurance | 0 | 0\% | 0 | 0\% | 2 | 2\% | 2 | 1\% |
| TOTAL * | 1 | 1\% | 56 | 31\% | 122 | 68\% | 179 | 100\% |

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

The birth rate among Santa Cruz County teens continues to drop rapidly (Figure 4.1), in line with a continuing statewide and nationwide trend of decreasing teen birth rates. In 2013, the birth rate among county women aged 15-19 was just 16.6 births per 1000 women, down $40 \%$ from the rate in 2009.


## 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 2013, residents in ZIP Code 95076 accounted for $69 \%$ of all teen births, but only $45 \%$ 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, 2013

| 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 | $\begin{array}{r} \% \text { of Teen Births } \\ \text { in ZIP code } \end{array}$ | Number | $\begin{array}{r} \% \text { of Total Births } \\ \text { in ZIP code } \end{array}$ |  |
| Aptos | 95001,3 | 3 | 2\% | 170 | 6\% | 1.8\% |
| Capitola | 95010 | 3 | 2\% | 85 | 3\% | 3.5\% |
| Davenport | 95017 | 0 | 0\% | 4 | 0\% | 0.0\% |
| Freedom | 95019 | 15 | 8\% | 128 | 4\% | 11.7\% |
| Los Gatos | 95033 | 0 | 0\% | 28 | 1\% | 0.0\% |
| San Lorenzo Valley | 95005-7,18,41 | 4 | 2\% | 195 | 7\% | 2.1\% |
| Santa Cruz | 95060-5 | 28 | 16\% | 779 | 27\% | 3.6\% |
| Scotts Valley | 95066 | 1 | 1\% | 117 | 4\% | 0.9\% |
| Soquel | 95073 | 1 | 1\% | 76 | 3\% | 1.3\% |
| Watsonville | 95076 | 124 | 69\% | 1,282 | 45\% | 9.7\% |
| TOTAL |  | 179 | 100\% | 2,866 | 100\% | 6.2\% |

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

The percentage of total births that were births to teens dropped from $7.3 \%$ in 2012 to $6.2 \%$ in 2013. The rate of births per 1,000 teen female population (age 15-19 years) continued its 20-year decline locally, statewide, and nationwide, although the national rate ( 26.6 per thousand) remains about 2-15 times higher than rates in almost all developed countries. In Santa Cruz County, the rate dropped from 20.7 per 1,000 population in 2012 to 16.6 per thousand.

Figure 4.2: Teen Birth Rate (Ages 15 to 19) per 1,000 Female Population, California, 2003-2012, and United States and Santa Cruz County Residents, 2003-2013


Rates may differ from previous editions of the report because the population data has been updated to reflect current and revised California Department of Finance Population Estimates and Projections. For years 2003 to 2009, "Race/Ethnic Population with Age and Sex Detail, 2000-2010 (Sept. 2012)" was used. For years 2010 to 2013, "State of California, Department of Finance, Report P-3: State and County Population Projections by Race/Ethnicity, Detailed Age, and Gender, 20102060. Sacramento, California" was used.

Figure 4.3 shows the number of teen mothers who delivered their second (or more) birth. In 2013, three teenage mothers each delivered their third child. The repeat teen birth rate in the U.S. in 2012 was $17.3 \%$, compared to $11.7 \%$ in Santa Cruz County that year. In 2013, the rate in Santa Cruz County was $15.2 \%$.

Figure 4.3: Number of Teens (Ages 15-19) Delivering their 2nd or More Birth, Santa Cruz County Residents, 2003-2013


## 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-pregnancy Weight \& $\mathbf{~ B M I}\left(\mathbf{k g} / \mathbf{m}^{2}\right)$ | Weight Gain for Singletons | Weight Gain for Twins |  |
| :--- | :---: | :---: | :---: |
| Underweight | $<18.5$ | $28-40 \mathrm{lbs}$ | -- |
| Normal | $18.5-24.9$ | $25-35 \mathrm{lbs}$. | $37-54 \mathrm{lbs}$. |
| Overweight | $25.0-29.9$ | $15-25 \mathrm{lbs}$ | $31-50 \mathrm{lbs}$. |
| Obese | $\geq 30.0$ | $11-20 \mathrm{lbs}$. | $25-42 \mathrm{lbs}$. |

In $2013,45 \%$ of mothers 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, which leaves 2,633 births, or $92 \%$ of all births. 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 2013, nearly half ( $48 \%$ ) of mothers began pregnancy as overweight or obese.


## 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 decreased from $2.5 \%$ in 2011 to $1.4 \%$ in 2012 and 2013. However, since about 12-15\% of Californians 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, 2013

| Mother's <br> Smoking Status | 3 Months Before <br> Conception |  | During 1st <br> Trimester |  | During 2nd <br> Trimester |  | During 3rd <br> Trimester |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Smoked at least 1 cigarette per day |  |  |  |  |  |  |  |  |
| Yes | 41 | $1.4 \%$ | 26 | $0.9 \%$ | 22 | $0.8 \%$ | 21 | $0.7 \%$ |
| No | 2,792 | $98.6 \%$ | 2,808 | $99.1 \%$ | 2,813 | $99.2 \%$ | 2,813 | $99.3 \%$ |
| TOTAL | $\mathbf{2 , 8 3 3}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{2 , 8 3 4}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{2 , 8 3 5}$ | $\mathbf{1 0 0 \%}$ | $\mathbf{2 , 8 3 4}$ | $\mathbf{1 0 0 \%}$ |

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

TABLE 6.1: Characteristics of Fathers, by Age Group, Santa Cruz County Resident Mothers, 2013

|  | 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 | 16 | 84\% | 13 | 25\% | 12 | 4\% | 2 | 0\% | 0 | 0\% | 43 | 2\% |
| 18-19 | 2 | 11\% | 27 | 51\% | 63 | 20\% | 14 | 1\% | 1 | 0\% | 107 | 4\% |
| 20-24 | 1 | 5\% | 12 | 23\% | 200 | 62\% | 215 | 16\% | 13 | 1\% | 441 | 16\% |
| 25-34 | 0 | 0\% | 1 | 2\% | 38 | 12\% | 963 | 73\% | 438 | 45\% | 1,440 | 54\% |
| 35 and Over | 0 | 0\% | 0 | 0\% | 9 | 3\% | 129 | 10\% | 516 | 53\% | 654 | 24\% |
| ETHNICITY OF FATHER |  |  |  |  |  |  |  |  |  |  |  |  |
| Asian \& Pacific Islander | 0 | 0\% | 0 | 0\% | 0 | 0\% | 42 | 3\% | 42 | 9\% | 84 | 4\% |
| Black | 0 | 0\% | 0 | 0\% | 7 | 2\% | 21 | 2\% | 25 | 5\% | 53 | 2\% |
| Latino | 19 | 100\% | 48 | 92\% | 279 | 87\% | 760 | 58\% | 351 | 72\% | 1,457 | 67\% |
| White | 0 | 0\% | 4 | 8\% | 33 | 10\% | 472 | 36\% | 55 | 11\% | 564 | 26\% |
| Other | 0 | 0\% | 0 | 0\% | 0 | 0\% | 10 | 1\% | 5 | 1\% | 15 | 1\% |
| Unknown | 0 | 0\% | 0 | 0\% | 0 | 0\% | 5 | 0\% | 7 | 1\% | 12 | 1\% |
| EDUCATION OF FATHER |  |  |  |  |  |  |  |  |  |  |  |  |
| 8th Grade \& Under | 1 | 5\% | 2 | 4\% | 45 | 16\% | 183 | 16\% | 121 | 14\% | 352 | 15\% |
| Some High School | 15 | 79\% | 15 | 32\% | 71 | 26\% | 178 | 16\% | 69 | 8\% | 348 | 15\% |
| HS Diploma or GED ${ }^{(1)}$ | 3 | 16\% | 29 | 62\% | 127 | 47\% | 350 | 31\% | 172 | 20\% | 681 | 29\% |
| Higher Degree Obtained | 0 | 0\% | 0 | 0\% | 14 | 5\% | 367 | 32\% | 426 | 50\% | 807 | 35\% |
| Withheld or Unknown | 0 | 0\% | 1 | 2\% | 16 | 6\% | 63 | 6\% | 61 | 7\% | 141 | 6\% |
| TOTAL | 19 | 1\% | 53 | 2\% | 322 | 12\% | 1,323 | 49\% | 968 | 36\% | 2,685 | 100\% |

Note: 181 fathers (6.3\%) 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, 2013

|  | 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\% | 2 | 0\% | 50 | 4\% | 0 | 0\% | 1 | 0\% | 65 | 2\% |
| 18-19 | 29 | 3\% | 11 | 1\% | 103 | 8\% | 0 | 0\% | 5 | 2\% | 148 | 4\% |
| 20-24 | 117 | 14\% | 100 | 11\% | 359 | 28\% | 6 | 8\% | 25 | 12\% | 607 | 18\% |
| 25-34 | 453 | 54\% | 569 | 62\% | 610 | 47\% | 44 | 61\% | 104 | 49\% | 1,780 | 53\% |
| 35 and Over | 234 | 28\% | 240 | 26\% | 177 | 14\% | 22 | 31\% | 77 | 36\% | 750 | 22\% |


| ETHNICITY OF MOTHER |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Asian \& Pacific Islander | 44 | 5\% | 44 | 5\% | 14 | 1\% | 0 | 0\% | 10 | 5\% | 112 | 3\% |
| Black | 14 | 2\% | 16 | 2\% | 4 | 0\% | 2 | 3\% | 1 | 1\% | 37 | 1\% |
| Latina | 320 | 39\% | 275 | 30\% | 1,228 | 95\% | 8 | 12\% | 78 | 39\% | 1,909 | 58\% |
| White | 448 | 54\% | 566 | 62\% | 52 | 4\% | 53 | 79\% | 108 | 54\% | 1,227 | 37\% |
| Other | 3 | 0\% | 15 | 2\% | 0 | 0\% | 4 | 6\% | 2 | 1\% | 24 | 1\% |

## EDUCATION OF MOTHER

| 8th Grade \& Under | 30 | $4 \%$ | 7 | $1 \%$ | 380 | $29 \%$ | 1 | $1 \%$ | 11 | $6 \%$ | 429 | $13 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Some High School | 59 | $8 \%$ | 13 | $2 \%$ | 328 | $25 \%$ | 0 | $0 \%$ | 11 | $6 \%$ | 411 | $13 \%$ |
| HS Diploma or GED ${ }^{(1)}$ | 325 | $42 \%$ | 351 | $41 \%$ | 494 | $38 \%$ | 18 | $26 \%$ | 65 | $34 \%$ | 1,253 | $39 \%$ |
| Higher Degree Obtained | 366 | $47 \%$ | 495 | $57 \%$ | 95 | $7 \%$ | 50 | $72 \%$ | 105 | $55 \%$ | 1,111 | $35 \%$ |

PRENATAL CARE INITIATION AND UTILIZATION

| Early (1st Trimester) | 759 | $91 \%$ | 775 | $89 \%$ | 900 | $70 \%$ | 54 | $76 \%$ | 184 | $87 \%$ | 2,672 | $81 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Late (2nd or 3rd Trimester) | 67 | $8 \%$ | 97 | $11 \%$ | 388 | $30 \%$ | 17 | $24 \%$ | 26 | $12 \%$ | 595 | $18 \%$ |
| No Prenatal Care | 6 | $1 \%$ | 0 | $0 \%$ | 4 | $0 \%$ | 0 | $0 \%$ | 2 | $1 \%$ | 12 | $0 \%$ |
| Adequate or Better | 703 | $88 \%$ | 797 | $95 \%$ | 998 | $77 \%$ | 61 | $86 \%$ | 168 | $79 \%$ | 2,727 | $85 \%$ |
| Less than Adequate | 99 | $12 \%$ | 46 | $5 \%$ | 291 | $23 \%$ | 10 | $14 \%$ | 44 | $21 \%$ | 490 | $15 \%$ |
| Early \& Adequate | 677 | $84 \%$ | 744 | $88 \%$ | 854 | $66 \%$ | 50 | $70 \%$ | 156 | $74 \%$ | 2,481 | $77 \%$ |

BIRTH OUTCOMES ${ }^{(2)}$

| Low Birthweight | 79 | 9.3\% | 17 | 1.8\% | 45 | 3.5\% | 0 | 0\% | 40 | 18.9\% | 181 | 5.4\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Very Low Birthweight | 8 | 0.9\% | 0 | 0.0\% | 4 | 0.3\% | 0 | 0\% | 19 | 9.0\% | 31 | 0.9\% |
| Preterm | 108 | 12.8\% | 19 | 2.1\% | 87 | 6.7\% | 1 | 1.4\% | 40 | 18.9\% | 255 | 7.6\% |
| Very Preterm | 11 | 1.3\% | 0 | 0\% | 8 | 0.6\% | 0 | 0\% | 20 | 9.4\% | 39 | 1.2\% |
| DELIVERY METHOD |  |  |  |  |  |  |  |  |  |  |  |  |
| Primary Cesarean | 152 | 18\% | 134 | 15\% | 191 | 15\% | 0 | 0\% | 43 | 20\% | 520 | 16\% |
| Repeat Cesarean | 104 | 12\% | 97 | 11\% | 213 | 17\% | 0 | 0\% | 35 | 17\% | 449 | 13\% |
| Vaginal | 573 | 68\% | 660 | 72\% | 877 | 68\% | 75 | 100\% | 130 | 62\% | 2,315 | 69\% |
| VBAC | 15 | 2\% | 27 | 3\% | 8 | 1\% | 0 | 0\% | 2 | 1\% | 52 | 2\% |

PAYMENT FOR DELIVERY

| Medi-Cal | 342 | $41 \%$ | 259 | $28 \%$ | 1,104 | $85 \%$ | 2 | $3 \%$ | 50 | $24 \%$ | 1,757 | $53 \%$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Private Insurance | 490 | $58 \%$ | 657 | $71 \%$ | 179 | $14 \%$ | 15 | $21 \%$ | 157 | $74 \%$ | 1,498 | $45 \%$ |
| Other Insurance | 2 | $0 \%$ | 4 | $0 \%$ | 5 | $0 \%$ | 0 | $0 \%$ | 3 | $1 \%$ | 14 | $0 \%$ |
| No Insurance | 4 | $0 \%$ | 0 | $0 \%$ | 10 | $1 \%$ | 55 | $76 \%$ | 1 | $0 \%$ | 70 | $2 \%$ |
| TOTAL | $\mathbf{8 4 5}$ | $\mathbf{2 5 \%}$ | $\mathbf{9 2 2}$ | $\mathbf{2 8} \%$ | $\mathbf{1 , 2 9 9}$ | $\mathbf{3 9 \%}$ | $\mathbf{7 2}$ | $\mathbf{2 \%}$ | $\mathbf{2 1 2}$ | $\mathbf{6 \%} \%$ | $\mathbf{3 , 3 5 0}$ | $\mathbf{1 0 0 \%}$ |

[^5]
## 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 those births are delivered at Watsonville Community Hospital.

TABLE 7.2: Mother's Area of Residence, by Delivery Location, Santa Cruz County Occurrence or Residence, 2013

|  | 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 | 764 | 90\% | 801 | 87\% | 1,017 | 78\% | 72 | 100\% | 212 | 100\% | 2,866 | 86\% |
| Mid-County | 143 | 19\% | 153 | 19\% | 18 | 2\% | 13 | 18\% | 22 | 10\% | 349 | 12\% |
| Santa Cruz Mountains | 74 | 10\% | 75 | 9\% | 1 | 0\% | 14 | 19\% | 58 | 27\% | 222 | 8\% |
| Santa Cruz | 351 | 46\% | 345 | 43\% | 5 | 0\% | 36 | 50\% | 45 | 21\% | 782 | 27\% |
| Scotts Valley | 52 | 7\% | 52 | 6\% | 0 | 0\% | 2 | 3\% | 11 | 5\% | 117 | 4\% |
| South County | 144 | 19\% | 174 | 22\% | 993 | 98\% | 7 | 10\% | 76 | 36\% | 1,394 | 49\% |
| MONTEREY COUNTY | 53 | 6.3\% | 78 | 8.5\% | 261 | 20.1\% | - | - |  |  | 392 | 11.7\% |
| SAN BENITO COUNTY | 10 | 1.2\% | 13 | 1.4\% | 18 | 1.4\% | - | - | - | - | 41 | 1.2\% |
| SANTA CLARA COUNTY | 14 | 1.7\% | 18 | 2.0\% | 1 | 0.1\% | - | - |  |  | 33 | 1.0\% |
| OTHER COUNTIES | 4 | 0.5\% | 12 | 1.3\% | 2 | 0.2\% | - | - | - | - | 18 | 0.5\% |
| TOTAL | 845 | 25\% | 922 | 28\% | 1,299 | 39\% | 72 | 2\% | 212 | 6\% | 3,350 | 100\% |

Figure 7.1: Percentage of Births, by Delivery Location, Santa Cruz County Occurrence or Residence, 2013


## 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 $82.5 \%$ in 2013 , compared to $82.1 \%$ in 2012 (Figure 10.1). The Healthy People objective was lowered to $77.9 \%$ for 2020 from $90 \%$ in 2010; 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, 2003-2012,


Figure 10.2: Percentage of Births Receiving Early Prenatal Care (1st Trimester), by Delivery Payment Source, Santa Cruz County Residents, 2003-2013


## 8. TRENDS

## ADEQUACY OF PRENATAL CARE UTILIZATION

The percentage of mothers who adequately utilized prenatal care (Kotelchuck Index, see Definitions on page 2) was $85.4 \%$ in 2013, compared to $74.9 \%$ in 2003 (Figure 10.3). The county trend is going in the desired direction, and we have met the Healthy People 2020 target, but there is still room for improvement. The 2008 California data is the most current year that is publicly available.


## MEDI-CAL FUNDED DELIVERIES

Figure 10.4 shows the trend in the percentage of deliveries funded by Medi-Cal. In 2013, 52\% of Santa Cruz County residents delivering in the county were funded by Medi-Cal, compared to $44 \%$ in 2003.



[^0]:    Ethnicity was unknown or withheld for 33 births; they have been excluded from the above calculations. "Other ethnicity"

[^1]:    (1) A component of the Adequate PNC measure was missing for 64 and 50 deliveries funded by Medi-Cal and Private Insurance respectively
    (2) Among deliveries funded by Medi-Cal and Private Insurance, $1.1 \%$ and $4.8 \%$ respectively were multiple births.

[^2]:     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 $1.8 \%$

[^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.

    * In 2013 one 15-17-year-old's delivery was unattended.

[^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.
    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.

