

# BIRTH CERTIFICATE SUMMARY

&

# PERINATAL INDICATORS

2006



SANTA CRUZ COUNTY

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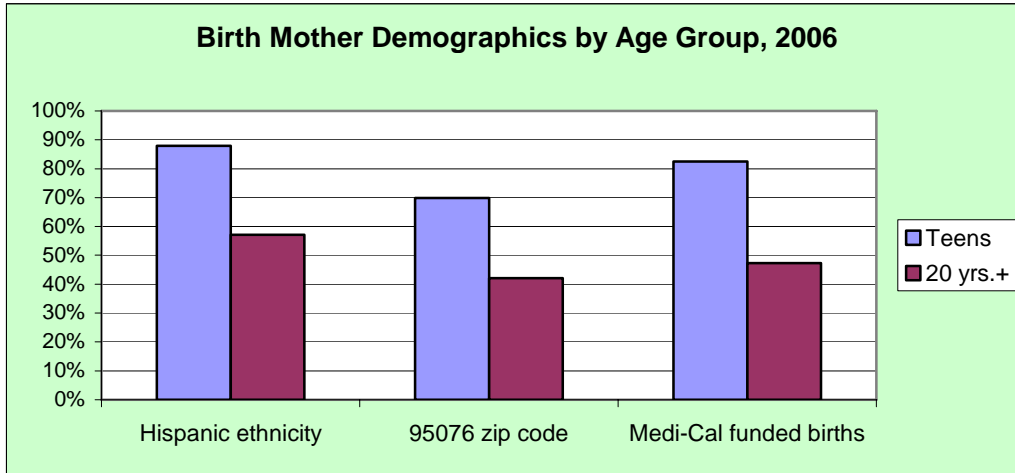
This report was compiled in March 2007 by Santa Cruz County Health Services Agency, Maternal, Child, and Adolescent Health Program staff. To obtain copies or discuss contents, contact the office at (831) 454-5477. The report can be obtained and downloaded from the HSA website at [www.santacruzhealth.org](http://www.santacruzhealth.org) in "Reports and Statistics".

## 2006 BIRTH CERTIFICATE SUMMARY & HIGHLIGHTS

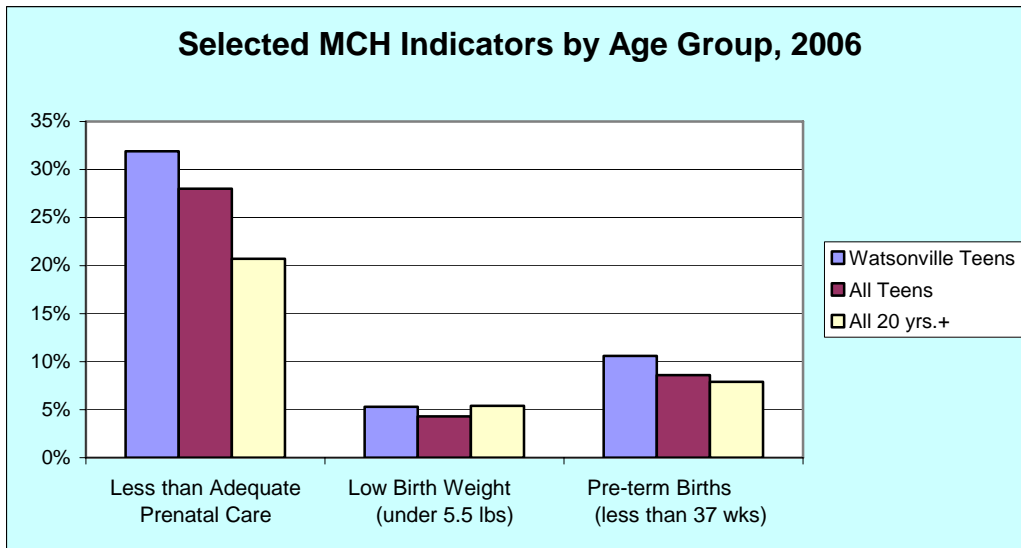
This year 2006 Birth Certificate Summary Report of 4,026 births includes all births to Santa Cruz County residents (3,592) and an additional 434 births to women who lived in other counties, but delivered in Santa Cruz County. Of the 3,592 county residents' births, 187 delivered outside of the county and the indicator data concerning their births is shown in the "Out-of-County" column in Table I. The 434 non-county residents' birth data included in this report are interspersed among the three delivery facilities in the county, with Watsonville Community Hospital delivering 70% of non-Santa Cruz County residents. 316 of the out-of-county residents live in Monterey County, with 37% of these births to Monterey County residents living in zip code 95076 (Watsonville/Pajaro area).

### KEY HEALTH INDICATORS

- ◆ **BIRTHS TO TEENS** were comparable to year 2005, and percent of teen births remained at 9%. Among the 349 teen births, 88% were to Latinas, 77% were to south county residents (70% within Watsonville/95076 zip code), and 83% of teen deliveries were paid by Medi-Cal. These percents are significantly higher than births to adults, see shown in the chart below.

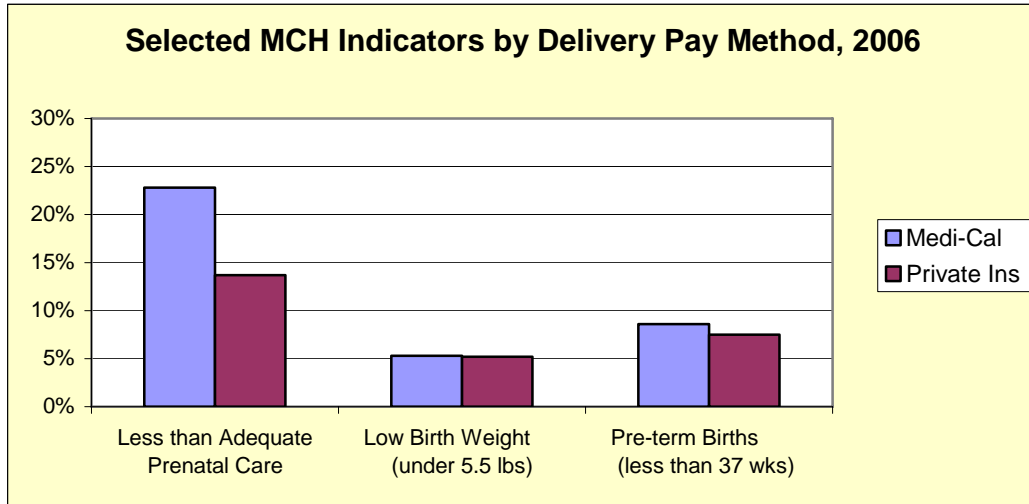


Fifteen percent of teen births had their second birth or more, compared to 17% in 2005. Teens, especially Watsonville teens, had higher rates of "less than adequate" prenatal care (Kotelchuck Index) and pre-term births, when compared to the over 20-year age birthing population.

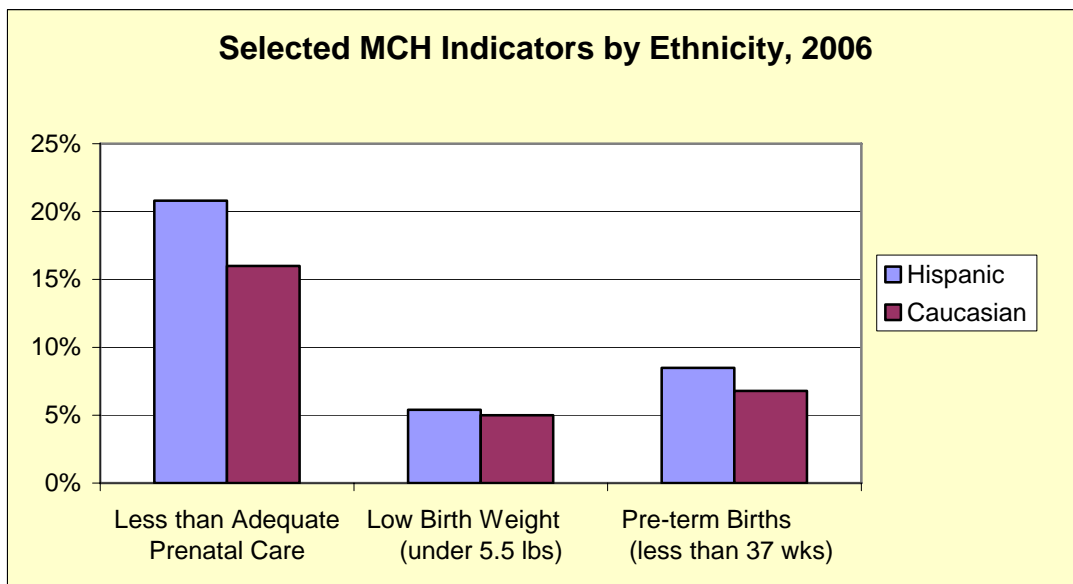


## KEY HEALTH INDICATORS, continued

- ◆ **MEDI-CAL BIRTHS** remained at 50% of total births in the county. Watsonville Community Hospital continues to have the highest number of its births funded through Medi-Cal (77%) and to deliver the majority of the county's Medi-Cal funded births (67%). Of the 434 births to out-of-county residents, 52% were funded by Medi-Cal. The graph below highlights key health indicators by delivery payer, the most notable being a higher rate of less than adequate prenatal care among women with Medi-Cal compared to those with private insurance (23% vs. 14%).



- ◆ **KEY INDICATORS BY ETHNICITY** are shown below. Hispanic mothers accounted for 60% of births vs. 36% Caucasian. Hispanic mothers had a higher rate of “less than adequate” prenatal care, 21% compared to their Caucasian counterparts at 16%. Percent of low birth weight babies was slightly higher among Hispanic mothers; overall percent of low birth weight babies did not change notably from 2005 to 2006 (5.6% to 5.4%), and remains below California’s 6.9% (2005, latest available). Pre-term births declined among Hispanics from 9.5% in 2005 to 8.5% in 2006, but remained higher than Caucasian at 6.8% (2006 figure). Birth indicators for other ethnicities/races (only 4% of births) appeared to have very good birth outcomes. Ethnicity data was missing for 85 (2% of) birth mothers.



**SANTA CRUZ COUNTY BIRTH CERTIFICATE SUMMARY  
BY OCCURRENCE AND RESIDENCE  
January 1, 2006 through December 31, 2006**

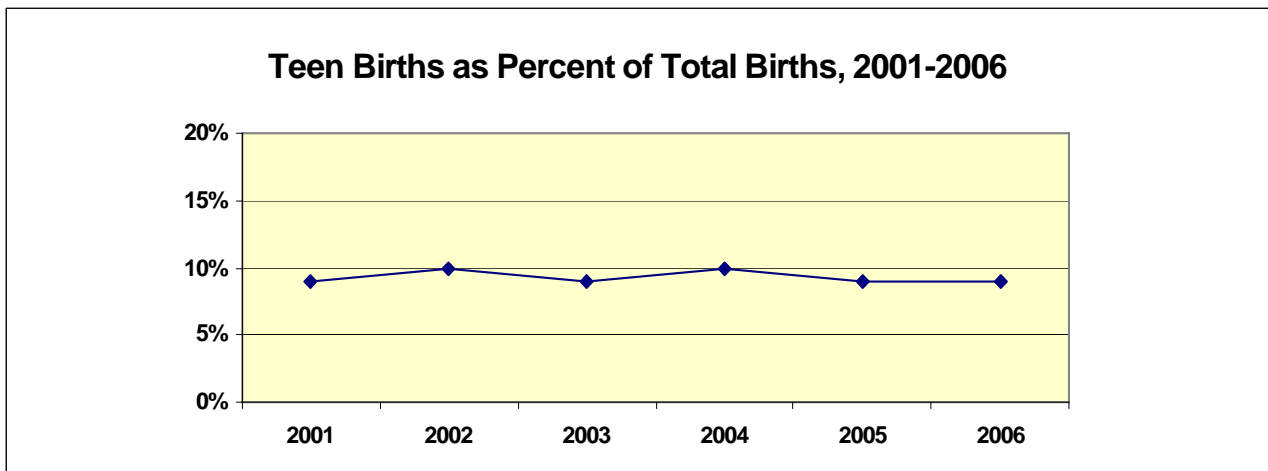
**Table I**

	Watsonville Hospital	Dominican Hospital	Sutter Maternity	Out of County	Non-Hospital	TOTAL	%
<b>AGE OF MOTHER:</b>							
14 years and younger	6	0	0	0	0	6	9%
15 – 17	99	14	11	0	0	124	
18 – 19	148	30	33	7	1	219	
20 – 34	1297	801	624	114	52	2888	
35 & older	216	270	215	66	21	788	20%
<b>ETHNICITY:</b>							
Caucasian non-Hispanic	111	583	567	113	43	1417	35%
Hispanic	1631	430	246	57	6	2370	59%
Black	4	8	14	2	0	28	<1%
Asian	19	59	45	6	0	129	3%
American Indian	1	7	4	1	0	12	<1%
Other or Missing Ethnicity data	1	28	7	1	25	62	2%
<b>PRENATAL CARE:</b>							
None	12	3	0	1	0	16	<1%
1 <sup>st</sup> Trimester	1425	1039	828	170	65	3527	88%
3 <sup>rd</sup> Trimester	55	6	13	4	1	79	2%
Less than Adequate PNC (Kotelchuk Index)	403	175	129	34	13	754	19%
Missing PNC Adequacy data	12	8	2	1	0	23	<1%
<b>MOTHER'S EDUCATION:</b>							
Missing data	495	555	765	155	69	2039	51%
1-8 years	553	111	7	10	0	681	34%
9 - 11 years	473	120	30	6	0	629	32%
12 & more years	246	329	81	21	5	677	34%
<b>BIRTHWEIGHT OF BABY:</b>							
Under 1500 gms / 3lbs, 5 oz.	5	9	0	12	0	26	<1%
1500-2499 gms / 3.5-5.7 lbs	76	68	18	24	0	186	5%
2500 grams / 5 lbs, 8 oz. or more	1686	1038	865	151	74	3814	95%
<b>DELIVERY FUNDED BY MEDI-CAL</b>	1352 (77%)	432 (39%)	215 (24%)	30	8	2028	50%
<b>TOTAL BIRTHS</b>	<b>1767</b>	<b>1115</b>	<b>883</b>	<b>187</b>	<b>74</b>	<b>4026</b>	<b>100%</b>

**SANTA CRUZ COUNTY TEEN BIRTH CERTIFICATE  
BY OCCURRENCE AND RESIDENCE  
January 1, 2006 through December 31, 2006**

**Table II**

<b>AGE OF MOTHER:</b>	<b>&lt;15</b>	<b>15-17</b>	<b>18-19</b>	<b>TOTAL TEENS</b>	<b>%</b>	<b>TOTAL BIRTHS</b>	<b>%</b>
<b>ETHNICITY:</b>							
Caucasian	0	7	27	34	10%	1417	36%
Hispanic	6	114	186	306	88%	2369	60%
Black	0	1	2	3		28	
Asian	0	1	2	3		129	2%
American Indian	0	1	1	2		12	
Other or Missing Data	0	0	1	1		71	2%
<b>PRENATAL CARE:</b>							
None	0	1	1	2		16	
3 <sup>rd</sup> Trimester	2	10	12	24	7%	79	2%
Inadequate (Kotelchuck Index)	3	30	34	67	19%	303	8%
Adequate/Adequate Plus	2	77	163	242	69%	3247	81%
1 <sup>st</sup> Trimester	3	80	174	257	74%	3526	88%
<b>BIRTHWEIGHT OF BABY:</b>							
Under 1500 grams/3 lbs. 5 oz.	0	3	0	3	1%	26	1%
1500 – 2499 grams/5 lbs. 8 oz.	0	8	4	12	3%	186	5%
2500 grams/5 lbs. 8 oz. and over	6	113	215	334	96%	3813	95%
<b>NUMBER OF BIRTHS AS A TEEN:</b>							
1st Birth	6	115	176	297	85%		
2 <sup>nd</sup> or more Birth	0	9	43	52	15%		
<b>PRE-TERM (&lt; 37 weeks)</b>	0	20	10	30	9%	320	8%
<b>DELIVERY FUNDED BY MEDI-CAL</b>	5	104	179	288	83%	2027	50%
<b>TOTAL BIRTHS</b>	<b>6</b>	<b>124</b>	<b>219</b>	<b>349</b>	<b>9%</b>	<b>4026</b>	<b>100%</b>

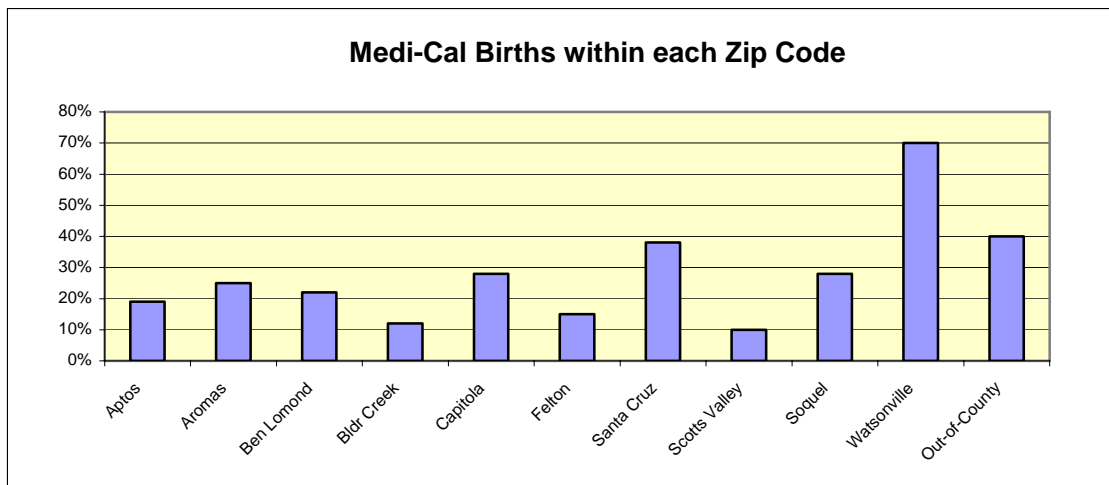


**SANTA CRUZ COUNTY 2006 BIRTHS  
BY ZIP CODE OF RESIDENCE AND MEDI-CAL PAYMENT**

**Table III**

<b>CITY</b>	<b>TOTAL BIRTHS</b>	<b>MEDI-CAL</b>	<b>% MEDI-CAL</b>
APTOS - 95003, 95001	211	41	19%
AROMAS - 95004	20	5	25%
BEN LOMOND - 95005	55	12	22%
BOULDER CREEK - 95006	83	10	12%
BROOKDALE - 95007	7	0	0% *
CAPITOLA - 95010	102	29	28%
DAVENPORT - 95017	6	5	83% *
FELTON - 95018	61	9	15%
FREEDOM - 95019	155	114	74%
MOUNT HERMON - 95041	6	2	33%*
SANTA CRUZ - 95060-65	965	369	38%
SCOTTS VALLEY - 95066-67	139	14	10%
SOQUEL - 95073	85	24	28%
WATSONVILLE - 95076-77	1796	1261	70%
OUT OF COUNTY	335	133	40%
<b>TOTALS</b>	<b>4026</b>	<b>2028</b>	<b>50%</b>

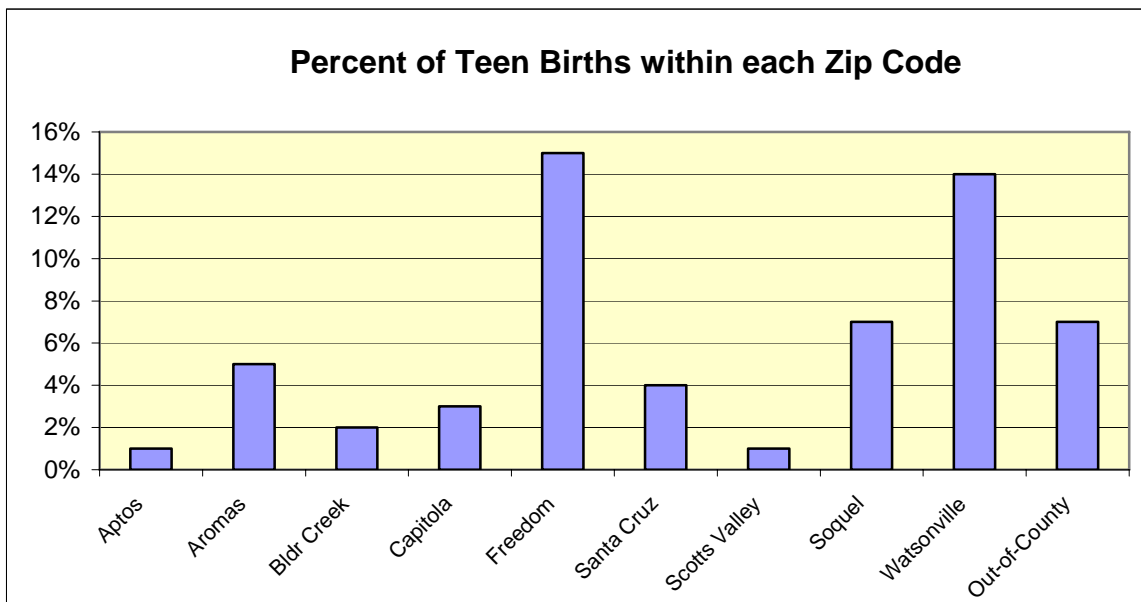
\* Zip code areas with less than 10 births not included in chart below.



**SANTA CRUZ COUNTY 2006  
TEEN BIRTHS BY ZIP CODE OF RESIDENCE**

**Table IV**

<b>CITY</b>	<b>TOTAL BIRTHS</b>	<b>TEEN BIRTHS</b>	<b>% TEEN BIRTHS</b>
APTOS - 95003, 95001	211	2	1%
AROMAS - 95004	20	1	5%
BEN LOMOND - 95005	55	0	0%
BOULDER CREEK - 95006	83	2	2%
BROOKDALE - 95007	7	0	---
CAPITOLA - 95010	102	3	3%
DAVENPORT - 95017	6	1	---
FELTON - 95018	61	0	0%
FREEDOM - 95019	155	24	15%
MOUNT HERMON - 95041	6	0	---
SANTA CRUZ - 95060-65	965	40	4%
SCOTTS VALLEY - 95066-67	139	2	1%
SOQUEL - 95073	85	6	7%
WATSONVILLE - 95076-77	1796	245	14%
OUT OF COUNTY	335	23	7%
<b>TOTALS</b>	<b>4026</b>	<b>349</b>	<b>9%</b>

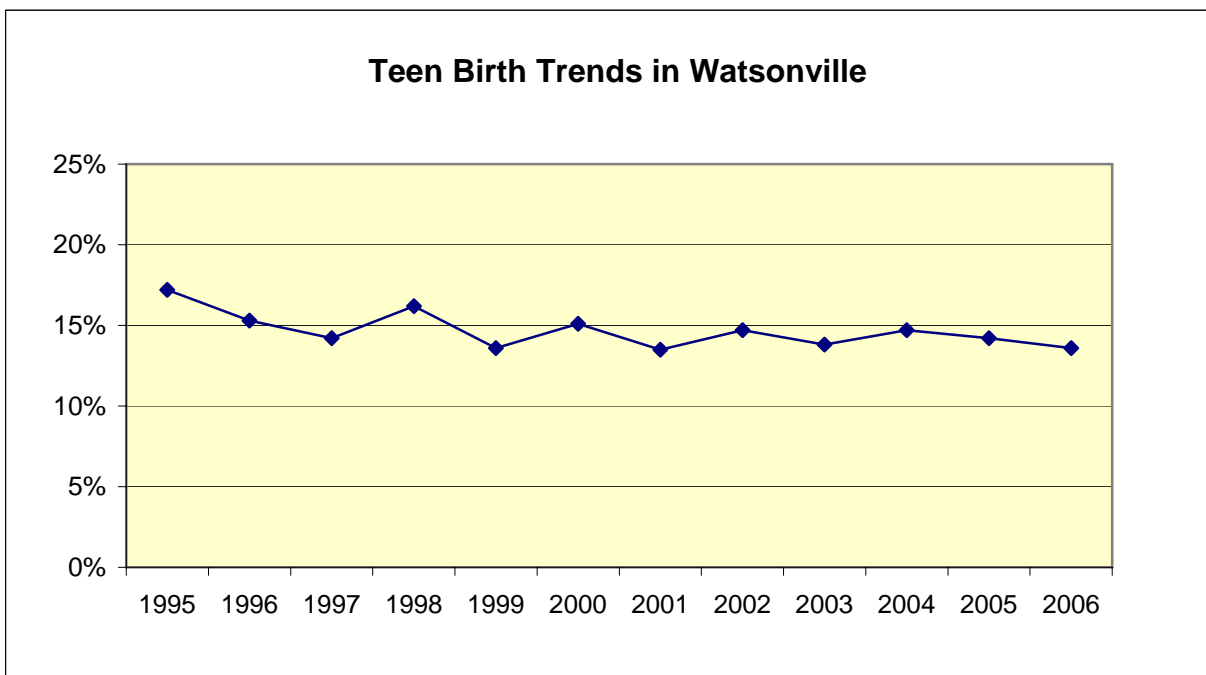




**TEEN BIRTHS TRENDS  
WATSONVILLE  
1995 - 2006**

**Table V**

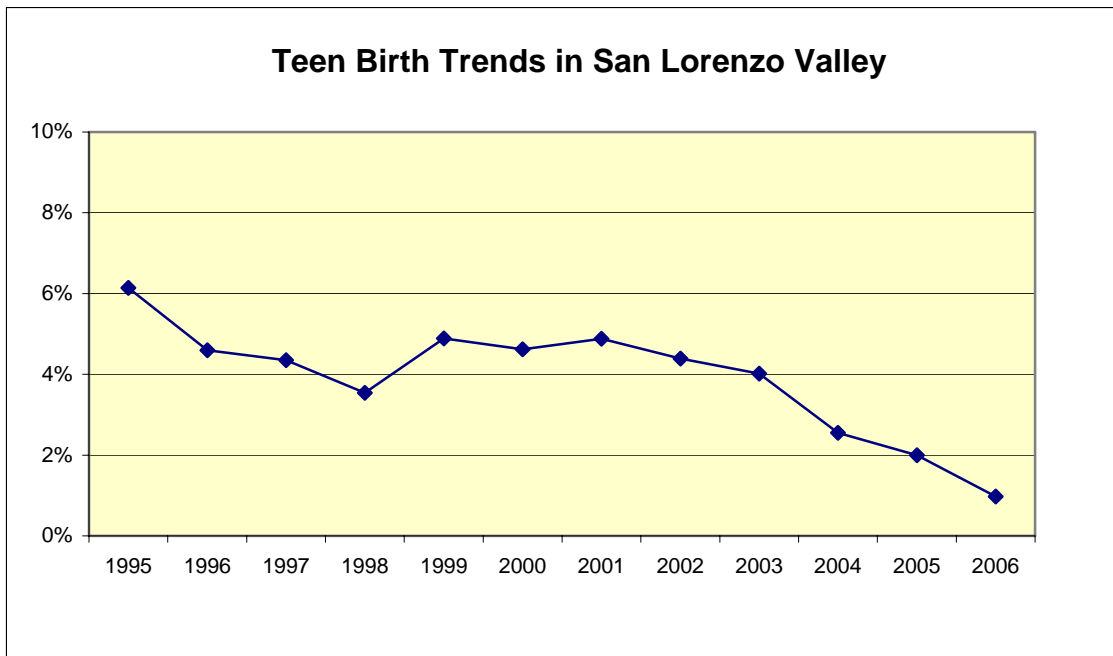
<b>YEAR</b>	<b>TOTAL BIRTHS</b>	<b>TEEN BIRTHS</b>	<b>PERCENT BIRTHS TO</b>
1995	1584	273	17%
1996	1605	246	15%
1997	1614	229	14%
1998	1601	259	16%
1999	1588	216	14%
2000	1604	242	15%
2001	1663	225	14%
2002	1656	244	15%
2003	1727	239	14%
2004	1682	247	15%
2005	1723	245	14%
2006	1795	245	14%



**TEEN BIRTH TRENDS**  
**San Lorenzo Valley**  
**Ben Lomond, Boulder Creek, Brookdale, Felton**  
**1995 - 2006**

**Table VI**

YEAR	TOTAL BIRTHS	TEEN BIRTHS	PERCENT BIRTHS TO TEENS
1995	293	18	6%
1996	283	13	5%
1997	276	12	4%
1998	254	9	4%
1999	266	13	5%
2000	238	11	5%
2001	246	12	5%
2002	228	10	4%
2003	224	9	4%
2004	235	6	3%
2005	250	5	2%
2006	206	2	1%



**Santa Cruz County  
SELECTED PERINATAL INDICATORS  
2001 - 2006 BIRTHS**

	<b>Santa Cruz County</b>						<b>CA State 2005</b>
	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	
<b>Total Births</b>	3870	3781	3964	3909	3899	4026	548,700
Santa Cruz County residents	3474	3316	3442	3391	3379	3591	
Out of county residents	396	465	522	518	520	434	
<b>Teen Births</b>							
Number	360	363	358	378	344	349	50,773
% of Total Births	9%	10%	9%	10%	9%	9%	9%
Rate/1000 teen female population*	33	32	31	32	31	30	37
<b>Infant Mortality</b> Rate /1,000 births	3.7	3.9	4.3	5.3**	N/A	N/A	5.2 (2004)
<b>Low Birth Weight</b> (under 5.5 pounds)	5%	6%	5%	5%	6%	6%	7%
<b>Number of Babies under 3.3 lbs.</b>							
Dominican	3	19	19	13	11	9	N/A
Watsonville	7	6	4	7	8	5	
Sutter Maternity	0	0	0	0	0	0	
Out of County	15	22	21	21	15	12	
<b>Deliveries Funded By Medi-Cal</b>							<b>%change over 6-yr period</b>
Dominican	33%	34%	36%	39%	39%	39%	+6%
Watsonville	71%	75%	70%	74%	77%	77%	+6%
Sutter Maternity	14%	15%	16%	18%	17%	24%	+10%
Total M/Cal, All Births	43%	46%	45%	49%	50%	50%	+7%

\* Rate/1000 female population includes ages 15-19 and, beginning in 2003, is based on the California Department of Finance estimates from the new 2000 Census. Rates are calculated to include only those teen births to Santa Cruz residents, and are compared to California residents.

\*\* Infant mortality numbers are small enough that there can be considerable variation in the rate from year to year. For example, one more or less death would alter the number by 0.3/1000.

**Santa Cruz County  
Comparison of Selected Perinatal Indicators  
2001- 2006**

	Santa Cruz County						CA State 2005
	2001	2002	2003	2004	2005	2006	
<b>Percent Births Receiving PN Care in 1<sup>st</sup> Trimester</b>							
Total Births	91%	91%	88%	90%	90%	88%	87%
Teens	86%	83%	76%	80%	79%	74%	
Watsonville Hosp	90%	90%	83%	86%	86%	81%	
Dominican Hosp	90%	92%	93%	92%	93%	93%	
Sutter Maternity	92%	93%	92%	93%	94%	94%	
Medi-Cal funded	86%	88%	82%	85%	85%	82%	
Private & other funded	94%	95%	93%	94%	95%	94%	
<b>3<sup>rd</sup> Trimester &amp; No PN Care</b>							
Total Births	2%	2%	3%	2%	2%	2%	3%
Teens	3%	4%	8%	5%	5%	7%	
Watsonville Hosp	3%	3%	5%	4%	3%	4%	
Dominican Hosp	1%	1%	2%	1%	1%	1%	
Sutter Maternity	1%	<1%	1%	1%	1%	1%	
Medi-Cal Funded:	4%	3%	5%	4%	3%	4%	
Private & other funded	1%	1%	2%	1%	2%	2%	
<b>Adequate PN Care by Kotelchuck Index*</b>							
Total Births	70%	73%	73%	76%	79%	81%	78%
Teens	63%	61%	60%	65%	72%	69%	
Watsonville Hosp	57%	59%	61%	69%	73%	77%	
Dominican Hosp	75%	78%	78%	79%	81%	84%	
Sutter Maternity	86%	86%	87%	85%	86%	85%	
Medi-Cal funded	59%	64%	65%	72%	74%	77%	
Private & other funded	78%	80%	79%	80%	83%	86%	

**Note:** The Kotelchuck Index of adequacy of care is based on the month prenatal care began and the number of visits attended as recommended by the American College of OB-GYN Standards of Care. Adequate and adequate-plus categories are included here, and represent care begun by the 4<sup>th</sup> month of pregnancy, with a total of 12 to 17 visits received.