

# Maternal and Child Health in San Antonio 2001 - 2010 San Antonio Metropolitan Health District, 2011

This report provides information regarding the health of mothers and young children in San Antonio and Bexar County between 2001 and 2010.

Certain health measures were chosen to assess prenatal risk factors and birth outcomes using data captured by the Texas Department of Health Services (DSHS) vital records registry for this time period. County level data from 2009 and 2010 is advance data, which may vary from final numbers reported by DSHS as it becomes available.

The purpose of this publication is to identify risk factors which adversely impact the health of mothers and young children, as well as assess the effectiveness of programs in place to tackle these issues.

This report will address the following issues:

- Who is having babies in Bexar County?
- What are key trends for Bexar County births?
- How healthy are the mothers and babies born in Bexar County?

## INDICATORS

The health indicators used in this report to assess the health status of mothers and babies come from National Institutes of Health Publication "Healthy People 2010". Specifically the health outcomes measures used focus on two key areas; infant and child health indicators and maternal health indicators.

### Infants and child indicators:

- Low birth weight
- Very low birth weight
- Preterm birth
- Infant mortality

In many instances these health indicators are predictive of health and developmental problems that are associated with high cost medical care and special services. Taken as a whole they can be viewed as a proxy measure used to assess the effectiveness of health care systems ability to address the needs of vulnerable populations.

### Maternal health indicators

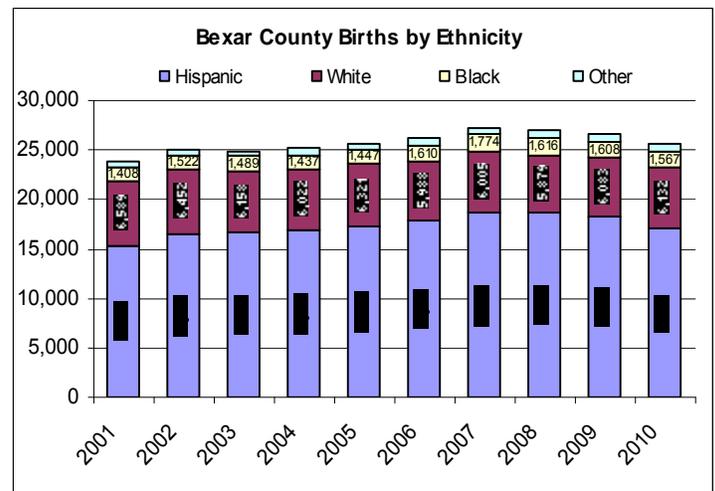
- Adolescent births
- Appropriate sequencing of subsequent births
- Mother's marital status at birth
- Prenatal care
- Smoking in the perinatal period

These maternal indicators are indicative of the effectiveness and accessibility of financial, emotional and community resources available to mothers and children. These factors play a significant role in the health development and growth of Bexar County children.

# Childbearing Trends in Bexar County

Bexar County experienced a 12 percent increase in the number of births since 2001. The total number of births increased between 2001 and 2007, with a peak occurring in 2007 with 27,156 births. A decline in total births occurred in the succeeding years 2008-2010. The highest birth rate by racial category occurred in the group "Other", which has experienced a 66 percent increase in births since 2001. Only White females have experienced a net decline in total births during this period.

## Bexar County Births 2001 - 2010



### Births by Ethnicity

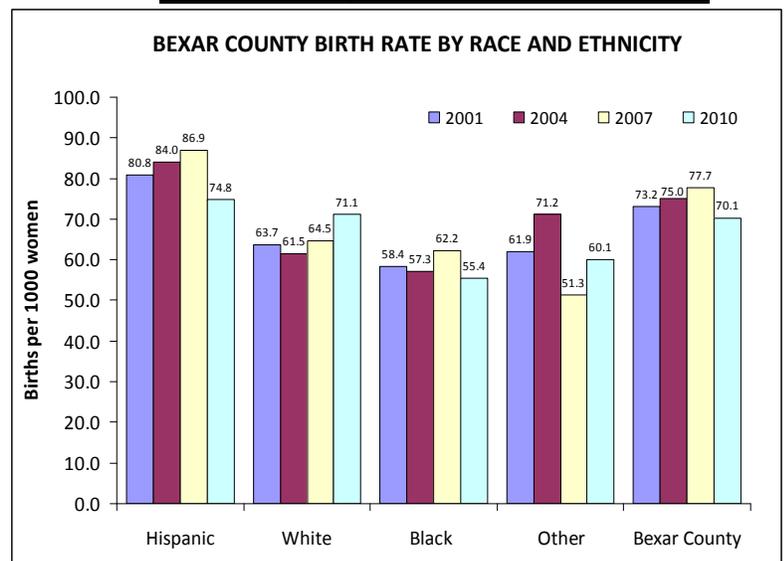
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hispanic	15,216	16,499	16,716	16,956	17,274	17,901	18,748	18,631	18,179	17,101
White	6,589	6,452	6,158	6,022	6,321	5,988	6,005	5,879	6,083	6,132
Black	1,408	1,522	1,489	1,437	1,447	1,610	1,774	1,616	1,608	1,567
Other	529	550	564	721	540	695	629	814	817	880
<b>Total</b>	<b>23,742</b>	<b>25,023</b>	<b>24,927</b>	<b>25,136</b>	<b>25,582</b>	<b>26,194</b>	<b>27,156</b>	<b>26,940</b>	<b>26,687</b>	<b>25,680</b>

### Change in Birth Rates by Ethnicity

	2001	2010	% Change	
Hispanic	80.8	74.8	-7.4%	▼
White	63.7	71.1	11.5%	▲
Black	58.4	55.4	-5.1%	▼
Other	61.9	60.1	-3.0%	▼
<b>Bexar County</b>	<b>73.2</b>	<b>70.1</b>	<b>-4.2%</b>	<b>▼</b>

The 2010 Bexar County birth rate dropped to its lowest level in 10 years to 70.1 per 1,000, for women 15-44. Bexar County remains above the 2009 national birth rate of 66.7 per 1,000 but below the Texas rate of 77.6 per 1,000.

## Bexar County Birth Rate 2001 - 2010

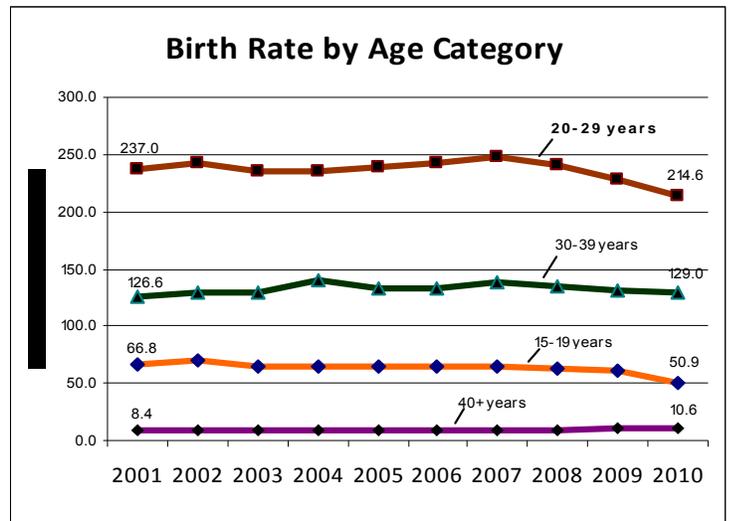


### Birth Rates by Ethnicity

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hispanic	80.8	85.2	84.6	84.0	83.9	84.9	86.9	83.9	80.0	74.8
White	63.7	63.3	61.7	61.5	65.9	63.3	64.5	63.9	67.2	71.1
Black	58.4	62.0	60.0	57.3	57.1	57.5	62.2	55.5	54.3	55.4
Other	61.9	60.5	58.8	71.2	50.4	60.0	51.3	62.4	59.1	60.1
<b>Bexar County</b>	<b>73.2</b>	<b>76.0</b>	<b>75.1</b>	<b>75.0</b>	<b>75.7</b>	<b>75.9</b>	<b>77.7</b>	<b>75.6</b>	<b>73.9</b>	<b>70.1</b>

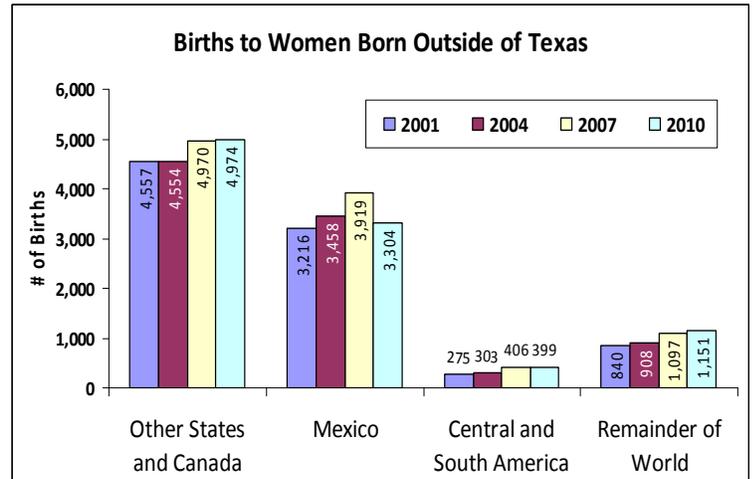
## Births by Age of Mother

Birth rates for Bexar County women under age 30 declined during the 10 year period 2001 - 2010, with only slight increase in birth rates for women over 30. The biggest decline in birth rates was seen in 15-19 year old girls who showed a 24 percent decline in births since 2001.



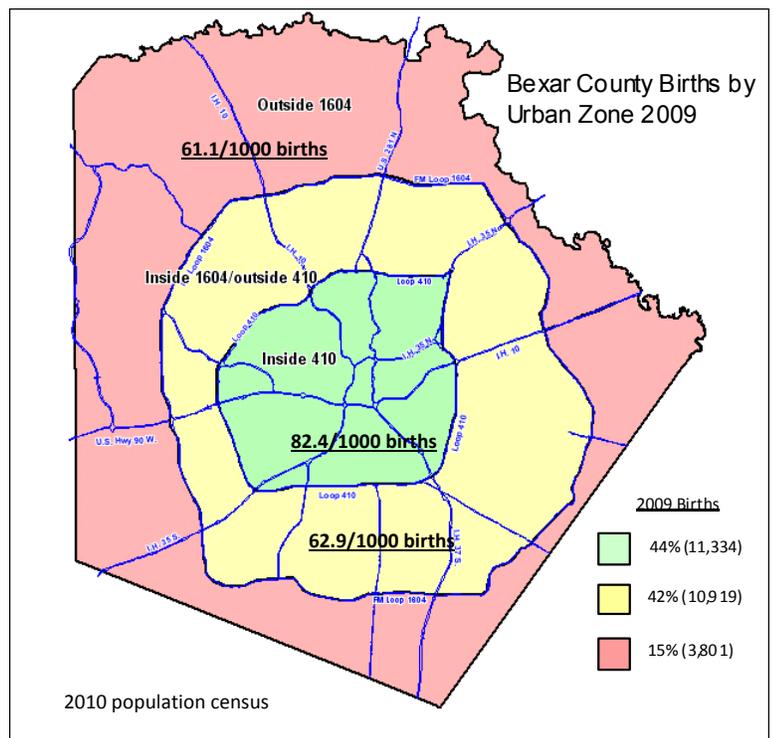
## Births to Foreign Born Residents

Nearly 20% of 2010 Bexar County births to mothers born in other U.S. States or Territories and Canada. California, Illinois, and Florida were there most common states represented in out of state residents who gave birth in 2010. Of women born outside the U.S, Mexico was the most frequent country of origin accounting for 13% of Bexar County births in 2010.



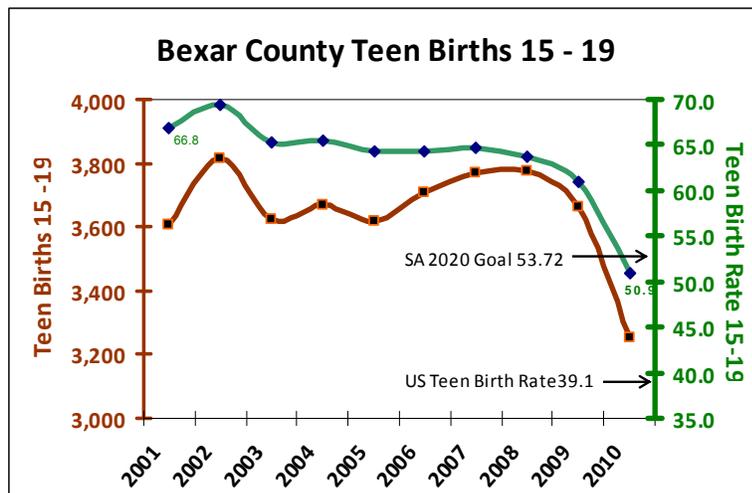
## Where are Babies Born in Bexar County?

In 2009 the majority of Bexar County births (44 percent) occurred to residents living inside the geographic boundaries of Loop 410. A slight decrease (42 percent) occurred outside Loop 410 but within the geographic boundary of Loop 1604. Only 15 percent of Bexar County births occurred to residents outside 1604.



## Teen Births in Bexar County

Bexar County, like the rest of the country saw dramatic declines in the number of teen births since 2001. The teen birth rate for 15-19 year old girls reached a ten-year low of 50.9 in 2010. While the rate is below the goal set out in San Antonio's SA 2020, it remains well above the national rate of 39.1, the lowest rate ever recorded since record keeping began 70 years ago at the CDC.

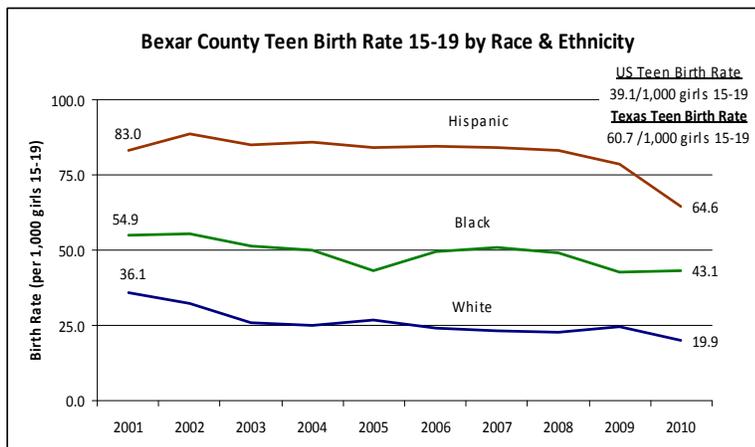


Mother's Age 15-19	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of Births	3,605	3,813	3,625	3,667	3,619	3,707	3,767	3,778	3,665	3,252
Bexar Co. Rate / 1,000 ♀	66.8	69.4	65.3	65.6	64.2	64.3	64.7	63.7	61.0	50.9
National Rate / 1,000 ♀	45.3	43.0	41.6	41.1	40.5	41.9	42.5	41.5	39.1	38.4*

\*Projected rate

## Teen Births by Ethnicity

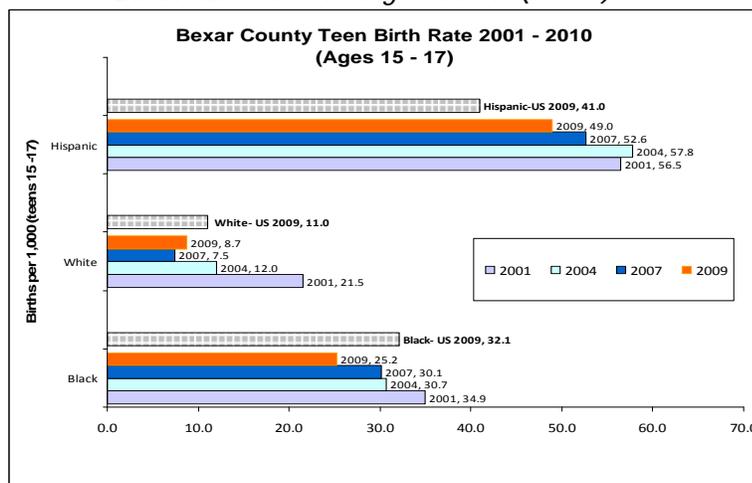
The 18% decline in Hispanic teen births (15-19) seen between 2009 and 2010 for Bexar County was the largest single year decline of all racial and ethnic groups. Similarly, the US rate of Hispanic teen births (15-19) in 2009 was the lowest ever recorded.



## Teen Births by Age Category

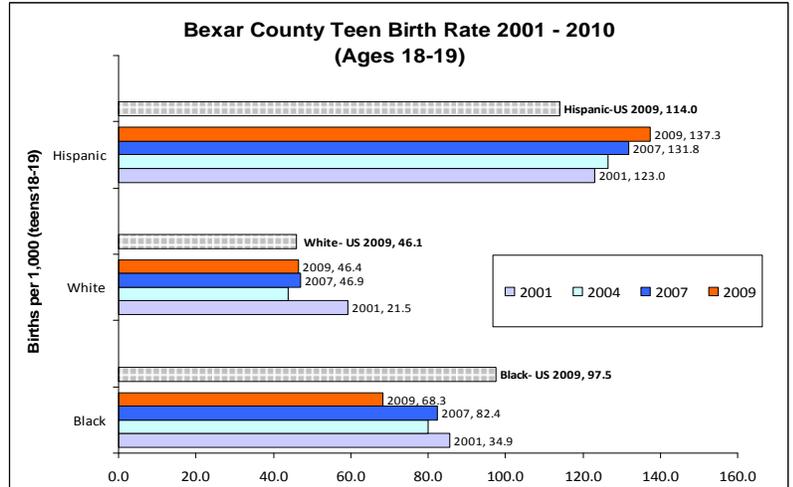
The 2009 Bexar County teen birth rates for white and African-American teens, 15 to 17 years of age, fell below national averages in 2009. The birth rate for Bexar County Hispanic teens 15 to 17 remains higher than the national average for Hispanic teens. The overall national teen birth rate for girls 15-17 was 20.1, the lowest rate ever recorded and the largest single year drop since 2001.

### Birth Rates for Younger Teens (15-17)

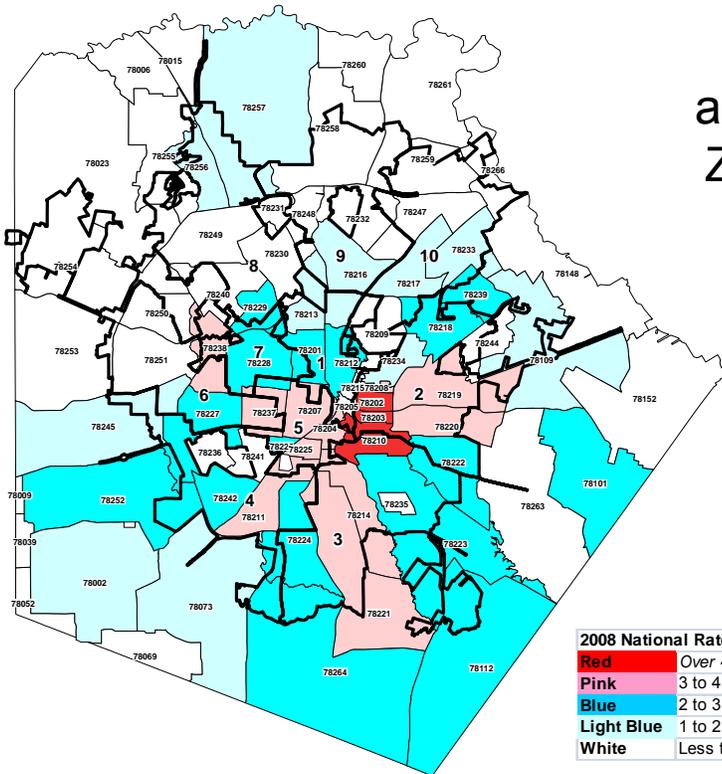


## Birth Rates for Older Teens (18-19)

Teen birth rate for 18 and 19 year olds is consistently higher than that of 15 to 17 year olds. The long term declines in birth rates for older teens were much lower than younger teens. In 2009, only African-American Bexar County teens 18 to 19 year olds were below national and state averages for racial and ethnic groups of this age category.



Where are Teen Births Occurring in Bexar County?



## 2008 Birth rates ages 15 to 17 years by Zip code and Council District

- 86.8 or more
- 65.1 to 86.7
- 43.4 to 65
- 21.8 to 43.3
- 21.7 or less

2008 National Rate 21.7 per 1000 Females ages 15-17	
<span style="color: red;">■</span> Red	Over 4 times the National Rate: over 86.8 per thousand
<span style="color: pink;">■</span> Pink	3 to 4 times the National Rate: 65.1 to 86.7 per thousand
<span style="color: cyan;">■</span> Blue	2 to 3 times the National Rate: 43.4 to 65.0 per thousand
<span style="color: lightblue;">■</span> Light Blue	1 to 2 times the National Rate: 21.8 to 43.3 per thousand
<span style="color: white;">■</span> White	Less than or equal to the 2008 National Rate: 21.7 per thousand

### Rate calculations for each zip code:

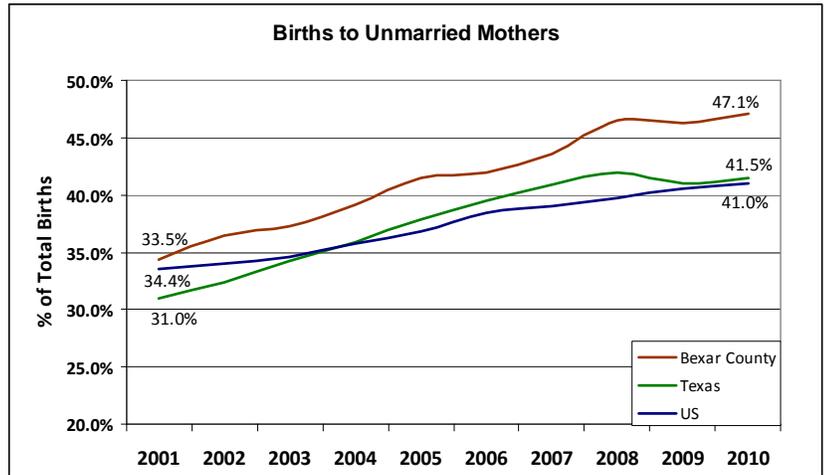
2008 births to females 15-17 x 1000

Claritas estimate of 2008 female population age 15 to 17

## Trends in Maternal Behavioral Risk Factors

### Births to Unmarried Mothers

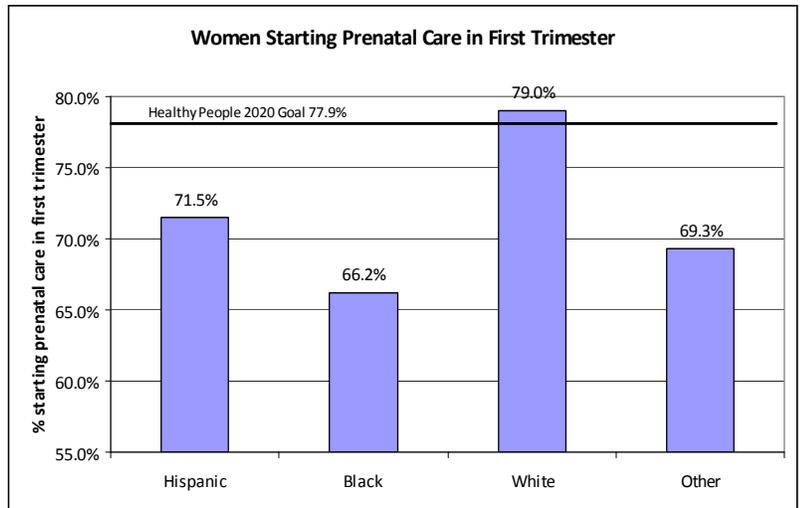
Bexar County, like the rest of the country, saw a dramatic rise in the proportion of births to unmarried mothers. Bexar County birth rate for unmarried mothers remains significantly higher than that of U.S. and other Texas residents giving birth over the last decade.



**Timely Prenatal Care in First Trimester by Ethnicity**

Significant differences exist among ethnic and racial groups in how and when they access prenatal care.

In 2010, only white women met or exceeded the goal set in Healthy People 2020 of 77.9% of women accessing prenatal care in the first trimester.



## Women who Smoke during Pregnancy

### Smoking during Pregnancy

	2001	2002	2003	2004	2005	2006	2007	2008
Bexar Co Births	3.9%	3.4%	3.3%	2.8%	2.9%	2.8%	2.7%	2.3%
Texas Births	6.4%	6.2%	5.9%	5.6%	6.1%	6.0%	5.6%	5.4%
US Births	11.9%	11.4%	10.7%	10.9%	10.7%	13.2%*	10.4%	10.7%

\* 2006 change in questionnaire format may result in higher reported smoking rates (some states' data missing).

## Low Birth Weight Delivery

### Low Birth Weight Delivery (< 2,500 grams)

	2001	2002	2003	2004	2005	2006	2007	2008
Bexar Co Births	8.1%	8.2%	8.8%	8.9%	9.1%	9.7%	9.4%	9.3%
Texas Births	7.6%	7.7%	7.9%	7.9%	8.3%	8.5%	8.4%	8.4%
US Births	7.7%	7.8%	7.9%	8.1%	8.2%	8.3%	8.2%	8.2%

## Very Low Birth Weight Delivery

### Very Low Birth Weight Delivery (1,500 grams)

	2001	2002	2003	2004	2005	2006	2007	2008
Bexar Co Births	1.4%	1.5%	1.4%	1.5%	1.4%	1.6%	1.5%	1.5%
Texas Births	1.3%	1.3%	1.4%	1.4%	1.5%	1.5%	1.5%	1.5%
US Births	1.4%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%

## Babies Born Premature (<37 weeks gestation)

### Babies Born Premature (< 37 weeks gestation)

	2001	2002	2003	2004	2005	2006	2007	2008
Bexar Co Births	9.5%	10.8%	11.8%	13.8%	14.7%	16.2%	15.6%	15.9%
Texas Births	9.8%	10.3%	10.8%	12.7%	13.7%	13.8%	13.7%	13.4%
US Births	12.0%	12.1%	12.3%	12.5%	12.7%	12.8%	12.7%	12.3%

## Births to Mothers with Four or More Prior Births

### 4 or more prior births

	2001	2002	2003	2004	2005	2006	2007	2008
Bexar Co Births	4.5%	4.9%	4.9%	5.1%	5.0%	5.3%	5.2%	5.5%
Texas Births	4.1%	4.2%	4.2%	4.3%	4.3%	4.4%	4.4%	4.6%
US Births	4.6%	4.5%	4.5%	4.5%	4.7%	4.7%	4.9%	4.9%

## Infant Mortality (per 1,000 live births)

### Infant Mortality

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Bexar County Infant Mortality Rate	6.2	7.1	7.4	6.2	7.0	6.3	5.9	6.5	5.58	6.27
Texas Infant Mortality Rate	6.0	6.4	6.6	6.3	6.5	6.2	6.2	6.1	NA	NA
US Infant Mortality Rate	6.84	6.95	6.84	6.78	6.86	6.71	6.75	6.59	6.42	6.06