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For more information about these tables, please contact the Health Statistics Section of the Colorado Department of Public Health and Environment by telephone at **(303) 692-2160** or by email at [health.statistics@state.co.us](mailto:health.statistics@state.co.us).

## Selected birth characteristics: Las Animas County residents, 2010

Characteristic	Number	Percent
Total Live Births	147	100.0
Age of Mother		
10-17	11	7.5
18-19	14	9.6
20-29	91	62.3
30+	30	20.5
Low Weight Births (<2,500 Grams)	26	17.7
Very Low Weight Births (<1,500 Grams)	*	*
Prenatal Care Later than 1st Trimester/No Care	42	37.5
No Prenatal Care	0	0.0
Preterm Births (<37 Weeks)	23	15.6
Education of Mother <High School Diploma/GED	30	20.8
Live Births to Unmarried Women	75	51.4
Smoking During Pregnancy	27	18.9

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected starting in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Selected birth characteristics by age group of mother: Las Animas County residents, 2010

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	147	100.0	11	100.0	14	100.0	91	100.0	30	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	65	45.5	*	*	5	38.5	41	46.6	17	56.7
White, Hispanic	64	44.8	7	63.6	8	61.5	40	45.5	8	26.7
Black	*	*	0	0.0	0	0.0	0	0.0	*	*
Asian American/Pacific Islander	*	*	0	0.0	0	0.0	0	0.0	*	*
American Indian/Native Alaskan	*	*	0	0.0	0	0.0	*	*	*	*
Other	10	7.0	*	*	0	0.0	6	6.8	*	*
Unknown	4		0	0.0	*	*	3		0	0.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	26	17.7	3	27.3	3	21.4	17	18.7	3	10.0
Very Low Weight Births (<1,500 Grams)	*	*	0	0.0	0	0.0	*	*	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	42	37.5	6	85.7	6	46.2	24	32.9	6	31.6
No Prenatal Care	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	23	15.6	3	27.3	*	*	14	15.4	5	16.7
<b>Education of Mother &lt;High School Diploma/GED</b>	30	20.8	10	90.9	6	46.2	12	13.5	*	*
<b>Live Births to Unmarried Women</b>	75	51.0	11	100.0	11	78.6	46	50.5	6	20.0
<b>Smoking During Pregnancy</b>	27	18.9	0	0.0	4	28.6	16	18.0	7	23.3

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected starting in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*Percentage not computed for cells shaded in light gray.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

**Selected birth characteristics by race/ethnicity of mother: Las Animas County residents, 2010**

Characteristic	White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	65	100.0	64	100.0	*	*	*	*	*	*
<b>Age of Mother</b>										
<b>10-17</b>	*	*	7	10.9	0	0.0	0	0.0	0	0.0
<b>18-19</b>	5	7.7	8	12.5	0	0.0	0	0.0	0	0.0
<b>20-29</b>	41	63.1	40	62.5	0	0.0	0	0.0	*	*
<b>30+</b>	17	26.2	8	12.5	*	*	*	*	*	*
<b>Low Weight Births (&lt;2,500 Grams)</b>	9	13.8	12	18.8	0	0.0	0	0.0	0	0.0
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	15	27.8	16	37.2	*	*	0	0.0	0	0.0
<b>No Prenatal Care</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	10	15.4	10	15.6	0	0.0	0	0.0	0	0.0
<b>Education of Mother &lt;High School Diploma/GED</b>	11	16.9	16	25.0	0	0.0	0	0.0	0	0.0
<b>Live Births to Unmarried Women</b>	22	33.8	42	65.6	0	0.0	0	0.0	*	*
<b>Smoking During Pregnancy</b>	10	15.6	15	24.6	0	0.0	0	0.0	0	0.0

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected starting in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. See notes page at end of report for details of these revised data items.*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age or race/ethnicity of mother unknown.*

*Percentages are of total births, excluding cases with specific characteristics unknown.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

**Live births and fertility rates with 95% confidence limits by age group of mother: Las Animas County residents, 2010**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	147	2,418	60.8	51.1	70.5
<b>Teen Age Groups</b>					
13-14	0	180	0.0	0.0	0.0
15-17	11	301	36.5	13.7	59.4
18-19	14	221	63.3	29.0	97.7
10-17	11	765	14.4	5.3	23.5
10-19	25	986	25.4	15.0	35.7
<b>All Age Groups</b>					
10-14	0	464	0.0	0.0	0.0
15-19	25	522	47.9	28.6	67.2
20-24	56	377	148.5	111.3	185.8
25-29	35	379	92.3	61.9	122.8
30-34	18	347	51.9	27.1	76.6
35-39	10	373	26.8	9.1	44.5
40-49	*	958	*	*	*

*\* indicates one or two events in the category.*

*Sums may not add to total due to cases with age of mother unknown.*

*Rates are live births per 1,000 female population in each age group.*

*Population data for 'all ages' are females ages 15-44.*

*See technical notes at [www.cdphe.state.co.us/hs](http://www.cdphe.state.co.us/hs) for definitions of data items.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Vital statistics summary: Las Animas County residents, 2000, 2006-2010

	2000	2006	2007	2008	2009	2010	2006-2010 Annual Average
<b>Total Population</b>	15,207	15,552	15,525	15,486	15,477	15,507	15,509
<b>Total Births</b>							
Number	173	189	176	187	173	147	174
Birth Rate	11.4	12.2	11.3	12.1	11.2	9.5	11.2
General Fertility Rate	63.0	73.9	70.2	77.1	72.2	60.8	70.9
<b>Age of Mother 10-17</b>							
Number	8	15	10	5	10	11	10
Percent of Total Births	4.6	7.9	5.7	2.7	5.8	7.5	5.8
Fertility Rate	9.1	18.6	12.6	6.3	13.1	14.4	13.0
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	14	21	24	18	12	26	20
Percent	8.1	11.1	13.6	9.6	6.9	17.7	11.6
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	43	68	65	55	50	42	56
Percent	24.9	36.4	37.4	41.4	43.1	37.5	38.8
<b>Births to Unmarried Women</b>							
Number	62	88	73	87	93	75	
Percent	35.8	46.6	41.5	46.5	53.8	51.0	
<b>Mother's Education &lt;12 Years</b>							
Number	38	47	32	37	32	30	
Percent	22.0	24.9	20.4	20.0	18.8	20.8	
<b>Infant Deaths</b>							
Number	3	*	0	0	*	*	*
Rate	17.3	*	0.0	0.0	*	*	*
<b>Neonatal Deaths</b>							
Number	*	*	0	0	0	*	*
Rate	*	*	0.0	0.0	0.0	*	*
<b>Total Deaths</b>							
Number	180	161	160	178	168	187	171
Crude Rate	1183.7	1035.2	1030.6	1149.4	1085.5	1205.9	1101.3
Age-Adjusted Rate	869.5	779.9	768.2	824.5	823.0	918.2	823.0
<b>Cardiovascular Disease</b>							
Number	70	61	42	55	58	56	54
Age-Adjusted Rate	309.8	280.3	191.4	248.0	285.6	251.2	251.5
<b>Heart Disease</b>							
Number	50	50	30	40	45	35	40
Age-Adjusted Rate	224.2	224.4	139.1	178.9	220.1	158.6	184.3

(Continued)

**HIGHLIGHTED ROWS:** Denotes data items collected starting in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. Due to this incomparability, 5-year averages for these data items are not presented in this report. See notes page at end of report for details of these revised data items.

\* indicates one or two events in the category.

Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females ages 15-44.

Fertility rates for mothers ages 10-17 are births per 1,000 females of this age group.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 100,000 population.

Age-adjusted rates are adjusted to the 2000 U.S. population using the direct method applied to 10-year age groups.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Vital statistics summary: Las Animas County residents, 2000, 2006-2010

	2000	2006	2007	2008	2009	2010	2006-2010 Annual Average
<b>Cerebrovascular Disease</b>							
Number	15	5	8	12	9	16	10
Age-Adjusted Rate	64.9	27.5	36.2	54.6	41.8	69.6	46.2
<b>Malignant Neoplasms</b>							
Number	36	32	34	41	35	29	34
Age-Adjusted Rate	183.5	150.6	157.7	178.5	162.9	136.5	157.2
<b>Lung Cancer</b>							
Number	8	7	9	8	12	5	8
Age-Adjusted Rate	38.5	34.2	38.8	37.4	55.9	22.1	37.7
<b>Breast Cancer</b>							
Number	*	*	*	*	0	3	*
Age-Adjusted Rate	*	*	*	*	0.0	13.4	*
<b>Total Unintentional Injuries</b>							
Number	9	9	16	15	6	16	12
Age-Adjusted Rate	51.7	58.7	84.8	81.5	34.2	99.4	71.6
<b>Motor Vehicle</b>							
Number	7	3	6	10	*	6	5
Age-Adjusted Rate	42.2	21.0	34.5	55.8	*	39.0	31.8
<b>Other Unintentional Injuries</b>							
Number	*	6	10	5	5	10	7
Age-Adjusted Rate	*	37.7	50.3	25.7	26.2	60.4	39.8
<b>Chronic Lower Respiratory Diseases</b>							
Number	4	6	11	4	5	12	8
Age-Adjusted Rate	19.2	26.5	49.0	16.1	22.2	56.2	34.0
<b>Suicide</b>							
Number	*	*	*	0	6	5	3
Age-Adjusted Rate	*	*	*	0.0	41.8	35.5	20.6
<b>Homicide and Legal Intervention</b>							
Number	*	*	*	4	*	3	*
Age-Adjusted Rate	*	*	*	28.4	*	20.1	*
<b>Work-Related Injury</b>							
Number	0	0	0	*	0	0	*
Age-Adjusted Rate	0.0	0.0	0.0	*	0.0	0.0	*

**HIGHLIGHTED ROWS:** Denotes data items collected starting in 2007, using the revised birth certificate, that are not directly comparable to data collected before 2007. Due to this incomparability, 5-year averages for these data items are not presented in this report. See notes page at end of report for details of these revised data items.

\* indicates one or two events in the category.

Birth rates are per 1,000 total population. General fertility rates are births per 1,000 females ages 15-44.

Fertility rates for mothers ages 10-17 are births per 1,000 females of this age group.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 100,000 population.

Age-adjusted rates are adjusted to the 2000 U.S. population using the direct method applied to 10-year age groups.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths from selected causes by race/ethnicity: Las Animas County residents, 2010

Cause of Death	All Races		White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	N	%	N	%	N	%	N	%	N	%	N	%
<b>Total</b>	187	100.0	109	100.0	77	100.0	0	0.0	0	0.0	*	*
<b>Cardiovascular Disease</b>	56	29.9	31	28.4	25	32.5	0	0.0	0	0.0	0	0.0
Heart Disease	35	18.7	21	19.3	14	18.2	0	0.0	0	0.0	0	0.0
Cerebrovascular Disease	16	8.6	10	9.2	6	7.8	0	0.0	0	0.0	0	0.0
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	29	15.5	18	16.5	11	14.3	0	0.0	0	0.0	0	0.0
Lung Cancer	5	2.7	*	*	4	5.2	0	0.0	0	0.0	0	0.0
Breast Cancer	3	1.6	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	12	6.4	8	7.3	4	5.2	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	16	8.6	7	6.4	8	10.4	0	0.0	0	0.0	*	*
Motor Vehicle	6	3.2	*	*	4	5.2	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	10	5.3	5	4.6	4	5.2	0	0.0	0	0.0	*	*
<b>Pneumonia and Influenza</b>	4	2.1	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	5	2.7	4	3.7	*	*	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	3	1.6	3	2.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>HIV Infection</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	9	4.8	4	3.7	5	6.5	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	7	3.7	4	3.7	3	3.9	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	3	1.6	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	3	1.6	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Septicemia</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Congenital Anomalies</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Perinatal Period Conditions</b>	*	*	0	0.0	*	*	0	0.0	0	0.0	0	0.0
<b>All Other</b>	38	20.3	23	21.1	15	19.5	0	0.0	0	0.0	0	0.0
<b>Injury by Firearm</b>	5	2.7	4	3.7	0	0.0	0	0.0	0	0.0	*	*
<b>Drug-Induced Deaths</b>	3	1.6	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	6	3.2	*	*	4	5.2	0	0.0	0	0.0	0	0.0
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

\* indicates one or two events in the category.

Percentages are of total deaths of each race/ethnicity category.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and age-specific death rates: Las Animas County residents, 2010

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	187	15,507	12.1
Infant	*	147	*
Neonatal	*	147	*
1-4	0	719	0.0
5-9	*	882	*
10-14	*	891	*
15-19	0	1,071	0.0
20-24	6	920	6.5
25-29	0	850	0.0
30-34	5	762	6.6
35-39	4	831	4.8
40-44	*	869	*
45-49	*	1,114	*
50-54	4	1,257	3.2
55-59	13	1,278	10.2
60-64	14	1,165	12.0
65-69	13	856	15.2
70-74	15	663	22.6
75-79	24	434	55.3
80-84	25	409	61.1
85+	55	386	142.5
1-14	3	2,492	1.2
15-24	6	1,991	3.0
25-64	44	8,126	5.4
65+	132	2,748	48.0

\* indicates one or two events in the category.

Infant death is death in the first year of life. Neonatal death is death occurring prior to the 28th day of life.

Infant and neonatal mortality rates are per 1,000 live births. Other death rates are per 1,000 population of the age group. Population figures for infant and neonatal groups are live births.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

## Deaths and age-specific death rates from selected causes: Las Animas County residents, 2010

Cause of Death	<1		1-14		15-24		25-44		45-64		65+	
	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
All Causes	*	*	3	1.2	6	3.0	11	3.3	33	6.9	132	48.0
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	*	*	7	1.5	48	17.5
Heart Disease	0	0.0	0	0.0	0	0.0	*	*	5	1.0	29	10.6
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	14	5.1
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Malignant Neoplasms	0	0.0	0	0.0	0	0.0	*	*	6	1.2	22	8.0
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	3	1.1
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.1
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	*	*	11	4.0
Unintentional Injuries	0	0.0	*	*	3	1.5	3	0.9	3	0.6	5	1.8
Motor Vehicle	0	0.0	0	0.0	*	*	*	*	*	*	0	0.0
Other Unintentional Injuries	0	0.0	*	*	*	*	*	*	*	*	5	1.8
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	0	0.0	3	1.1
Suicide	0	0.0	0	0.0	*	*	*	*	*	*	0	0.0
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.1
HIV Infection	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	*	*	5	1.0	3	1.1
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	2.5
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.1
Homicide and Legal Intervention	0	0.0	0	0.0	*	*	*	*	*	*	0	0.0
Septicemia	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Congenital Anomalies	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Perinatal Period Conditions	*	*	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	*	*	*	*	0	0.0	*	*	9	1.9	26	9.5
Injury by Firearm	0	0.0	*	*	*	*	*	*	0	0.0	0	0.0
Drug-Induced Deaths	0	0.0	0	0.0	*	*	*	*	0	0.0	0	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	4	0.8	*	*
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

\* indicates one or two events in the category.  
 Infant (<1 year) mortality rates are per 1,000 live births.  
 Other rates are deaths per 1,000 population of the age group.  
 Source: Health Statistics Section, Colorado Department of Public Health and Environment.

**Deaths, crude death rates and age-adjusted death rates with 95% confidence limits from selected causes:  
Las Animas County residents, 2010**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	187	1,205.9	918.2	784.1	1,052.3
Cardiovascular Disease	56	361.1	251.2	185.2	317.2
Heart Disease	35	225.7	158.6	105.4	211.8
Cerebrovascular Disease	16	103.2	69.6	35.3	103.9
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	29	187.0	136.5	85.6	187.4
Lung Cancer	5	32.2	22.1	4.9	51.7
Breast Cancer	3	19.3	13.4	1.4	37.7
Chronic Lower Respiratory Diseases	12	77.4	56.2	24.2	88.3
Unintentional Injuries	16	103.2	99.4	48.1	150.8
Motor Vehicle	6	38.7	39.0	14.1	76.3
Other Unintentional Injuries	10	64.5	60.4	27.9	105.2
Pneumonia and Influenza	4	25.8	21.8	4.7	51.2
Suicide	5	32.2	35.5	12.0	71.3
Diabetes Mellitus	3	19.3	12.4	1.1	36.1
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	9	58.0	45.7	18.2	85.5
Alzheimer's Disease	7	45.1	31.1	9.5	65.0
Nephritis, Nephrosis, Nephrotic Syndrome	3	19.3	12.4	1.1	36.1
Homicide and Legal Intervention	3	19.3	20.1	4.0	48.6
Septicemia	*	*	*	*	*
Congenital Anomalies	0	0.0	0.0	0.0	0.0
Perinatal Period Conditions	*	*	*	*	*
All Other	38	245.1	181.5	121.9	241.1
Injury by Firearm	5	32.2	40.1	14.7	78.0
Drug-Induced Deaths	3	19.3	26.1	6.8	57.9
Alcohol-Induced Deaths	6	38.7	32.4	10.2	67.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0.0	0.0	0.0

*\* indicates one or two events in the category.*

*Rates are deaths per 100,000 population.*

*Crude death rates are calculated without age-adjustment.*

*Age-adjusted rates are adjusted to the 2000 U.S. standard population using the direct method applied to 10-year age groups.*

*Age-adjusted rates provide a better basis for comparison among different geographical areas or time periods.*

*Source: Health Statistics Section, Colorado Department of Public Health and Environment.*

## Notes Regarding Colorado's Revised Certificate of Live Birth

These tables contain Colorado birth data that were collected using the 1989 Revision of the U.S. Standard Certificate of Live Birth (unrevised) and the 2003 Revision of the U.S. Standard Certificate of Live Birth (revised)<sup>1,2,3</sup>. Colorado's birth registration system used the unrevised certificate for births through calendar year 2006; while births in 2007 through the present were registered using the revised certificate. Among the differences in the revised birth certificate are changes to the following data items:

- Mother's and father's race, captures multiple race identification instead of single race identification
- Mother's and father's education, captures highest degree attained instead of total years of education
- Mother's marital status at time of birth, captures never married, married, widowed, separated, and divorced instead of just married or unmarried
- Cigarette smoking before and during pregnancy, captures levels of smoking in each trimester instead of just smoking any time during pregnancy

And the addition of the following data items:

- Method of delivery includes fetal presentation and trial of labor prior to cesarean delivery
- Pre-pregnancy weight, weight at delivery and height, used to calculate Body Mass Index
- Congenital anomalies, certain conditions have been added or removed
- Fertility therapy
- Did mother get WIC food for herself during this pregnancy
- Infections during pregnancy
- Maternal morbidity
- Breast feeding
- Principal source of payment for the delivery

Data items noted above that were collected using both the unrevised certificate and the revised certificate are not directly comparable. Analyses of birth data for time periods that include both revised and unrevised data should be performed with caution.

To facilitate analyses of births by race, the multiple race identification in revised certificates has been bridged back to a single race using a system developed by the National Center for Health Statistics at the Centers for Disease Control and Prevention<sup>4</sup>. *Please note*, however, that there has been an increase in the number of births reported with "other" or "unknown" maternal and paternal race and/or Hispanic ethnicity beginning in 2007 compared to previous years. This is likely attributable to the change to the revised certificate.

The Health Statistics Section at the Colorado Department of Public Health and Environment is available to assist with analyses of these data, as well as to answer questions one might have regarding the revised certificate and the affected data items. For further information or assistance, please contact the Health Statistics Section at **(303) 692-2160** or by e-mail at [health.statistics@state.co.us](mailto:health.statistics@state.co.us).

### References:

- <sup>1</sup> National Center for Health Statistics. 2003 revision of the U.S. Standard Certificate of Live Birth. 2003. Available from: [http://www.cdc.gov/nchs/vital\\_certs\\_rev.htm](http://www.cdc.gov/nchs/vital_certs_rev.htm).
- <sup>2</sup> National Center for Health Statistics. Report of the Panel to Evaluate the U.S. Standard Certificates and Reports. National Center for Health Statistics. 2000. Available from: [http://www.cdc.gov/nchs/data/dvs/panelreport\\_acc.pdf](http://www.cdc.gov/nchs/data/dvs/panelreport_acc.pdf).
- <sup>3</sup> Martin JA, Hamilton BE, Sutton PD, et al. Births: Final data for 2004. National vital statistics reports; vol 55 no 1. Hyattsville, MD: National Center for Health Statistics. 2006.
- <sup>4</sup> NCHS Procedures for Multiple-Race and Hispanic Origin Data: Collection, Coding, Editing, and Transmittal. Division of Vital Statistics, National Center for Health Statistics, Centers for Disease Control and Prevention, May 7, 2004. Available from: [http://www.cdc.gov/nchs/data/dvs/Multiple\\_race\\_docu\\_5-10-04.pdf](http://www.cdc.gov/nchs/data/dvs/Multiple_race_docu_5-10-04.pdf).