

# Logan County Births and Deaths 2009

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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: Logan County residents, 2009

Characteristic	Number	Percent
Total Live Births	237	100.0
Age of Mother		
10-17	*	*
18-19	27	11.4
20-29	154	65.0
30+	54	22.8
Low Weight Births (<2,500 Grams)	21	8.9
Very Low Weight Births (<1,500 Grams)	5	2.1
Prenatal Care Later than 1st Trimester/No Care	34	14.4
No Prenatal Care	3	1.3
Preterm Births (<37 Weeks)	23	9.7
Education of Mother <High School Diploma/GED	34	14.4
Live Births to Unmarried Women	79	33.5
Smoking During Pregnancy	47	19.8

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected 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: Logan County residents, 2009

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	237	100.0	*	*	27	100.0	154	100.0	54	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	191	80.6	*	*	21	77.8	127	82.5	42	77.8
White, Hispanic	42	17.7	0	0.0	6	22.2	25	16.2	11	20.4
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	0	0.0	0	0.0	0	0.0
Other	*	*	*	*	0	0.0	*	*	0	0.0
Unknown	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Low Weight Births (<2,500 Grams)	21	8.9	0	0.0	4	14.8	10	6.5	7	13.0
Very Low Weight Births (<1,500 Grams)	5	2.1	0	0.0	0	0.0	*	*	3	5.6
Prenatal Care Later than 1st Trimester/No Care	34	14.4	0	0.0	5	18.5	21	13.7	8	14.8
No Prenatal Care	3	1.3	0	0.0	0	0.0	*	*	*	*
Preterm Births (<37 Weeks)	23	9.7	0	0.0	4	14.8	14	9.1	5	9.3
Education of Mother <High School Diploma/GED	34	14.4	*	*	9	33.3	18	11.8	5	9.3
Live Births to Unmarried Women	79	33.3	*	*	18	66.7	53	34.4	6	11.1
Smoking During Pregnancy	47	19.8	0	0.0	11	40.7	31	20.1	5	9.3

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected 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: Logan County residents, 2009

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
Total Live Births	191	100.0	42	100.0	*	*	*	*	0	0.0
Age of Mother										
10-17	*	*	0	0.0	0	0.0	0	0.0	0	0.0
18-19	21	11.0	6	14.3	0	0.0	0	0.0	0	0.0
20-29	127	66.5	25	59.5	*	*	0	0.0	0	0.0
30+	42	22.0	11	26.2	0	0.0	*	*	0	0.0
Low Weight Births (<2,500 Grams)	15	7.9	6	14.3	0	0.0	0	0.0	0	0.0
Very Low Weight Births (<1,500 Grams)	4	2.1	*	*	0	0.0	0	0.0	0	0.0
Prenatal Care Later than 1st Trimester/No Care	21	11.0	13	31.7	0	0.0	0	0.0	0	0.0
No Prenatal Care	*	*	*	*	0	0.0	0	0.0	0	0.0
Preterm Births (<37 Weeks)	17	8.9	5	11.9	0	0.0	*	*	0	0.0
Education of Mother <High School Diploma/GED	19	9.9	14	34.1	0	0.0	0	0.0	0	0.0
Live Births to Unmarried Women	58	30.4	18	42.9	*	*	0	0.0	0	0.0
Smoking During Pregnancy	39	20.4	8	19.0	0	0.0	0	0.0	0	0.0

*"Education of Mother," "Births to Unmarried Women," and "Smoking During Pregnancy" are among items collected 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: Logan County residents, 2009**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	237	3,543	66.9	58.5	75.3
<b>Teen Age Groups</b>					
13-14	0	282	0.0	0.0	0.0
15-17	*	402	*	*	*
18-19	27	238	113.4	71.1	155.8
10-17	*	1,112	*	*	*
10-19	29	1,350	21.5	13.4	29.6
<b>All Age Groups</b>					
10-14	0	710	0.0	0.0	0.0
15-19	29	640	45.3	28.4	62.2
20-24	82	572	143.4	113.8	172.9
25-29	72	679	106.0	82.1	129.9
30-34	36	479	75.2	50.5	99.8
35-39	16	561	28.5	13.9	43.2
40-49	*	1,421	*	*	*

*\* 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: Logan County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	20,294	21,517	21,582	21,611	21,423	21,510	21,529
<b>Total Births</b>							
Number	265	223	249	224	236	237	234
Birth Rate	13.1	10.4	11.5	10.4	11.0	11.0	10.9
General Fertility Rate	69.2	58.8	66.8	60.7	65.8	66.9	63.7
<b>Age of Mother 10-17</b>							
Number	24	9	12	9	11	*	9
Percent of Total Births	9.1	4.0	4.8	4.0	4.7	*	3.7
Fertility Rate	20.4	8.1	10.7	8.0	10.0	*	7.7
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	16	14	15	18	20	21	18
Percent	6.0	6.3	6.0	8.0	8.5	8.9	7.5
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	93	50	70	49	40	34	49
Percent	35.1	22.7	28.2	22.3	17.1	14.4	21.0
<b>Births to Unmarried Women</b>							
Number	86	73	99	70	73	79	
Percent	32.5	32.7	39.8	31.3	30.9	33.3	
<b>Mother's Education &lt;12 Years</b>							
Number	55	37	40	45	42	34	
Percent	20.8	17.0	16.5	20.2	17.9	14.4	
<b>Infant Deaths</b>							
Number	*	3	0	*	*	*	*
Rate	*	13.5	0.0	*	*	*	*
<b>Neonatal Deaths</b>							
Number	*	*	0	*	*	*	*
Rate	*	*	0.0	*	*	*	*
<b>Total Deaths</b>							
Number	198	217	187	190	200	199	199
Crude Rate	975.7	1008.5	866.5	879.2	933.6	925.2	922.5
Age-Adjusted Rate	851.7	895.7	767.9	763.3	795.3	776.7	799.0
<b>Cardiovascular Disease</b>							
Number	90	77	54	84	63	64	68
Age-Adjusted Rate	383.0	310.2	220.9	334.7	241.4	237.7	268.7
<b>Heart Disease</b>							
Number	72	57	40	57	51	49	51
Age-Adjusted Rate	304.0	228.6	165.1	228.8	195.9	181.9	200.0

(Continued)

**HIGHLIGHTED ROWS:** Denotes data items collected 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: Logan County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Cerebrovascular Disease</b>							
Number	13	16	8	19	11	12	13
Age-Adjusted Rate	57.1	65.3	31.6	75.0	41.5	44.3	51.5
<b>Malignant Neoplasms</b>							
Number	36	40	48	38	52	44	44
Age-Adjusted Rate	156.4	167.2	198.0	153.8	207.3	168.8	179.3
<b>Lung Cancer</b>							
Number	9	11	14	12	10	10	11
Age-Adjusted Rate	39.0	46.0	57.5	49.3	39.6	37.0	45.9
<b>Breast Cancer</b>							
Number	*	0	3	3	*	0	*
Age-Adjusted Rate	*	0.0	11.8	11.9	*	0.0	*
<b>Total Unintentional Injuries</b>							
Number	13	19	12	10	9	9	12
Age-Adjusted Rate	60.4	81.7	53.3	41.7	43.9	43.6	52.2
<b>Motor Vehicle</b>							
Number	9	9	3	*	3	5	4
Age-Adjusted Rate	41.5	41.0	15.6	*	16.3	25.7	20.9
<b>Other Unintentional Injuries</b>							
Number	4	10	9	8	6	4	7
Age-Adjusted Rate	18.9	40.7	37.7	34.3	27.6	17.9	31.2
<b>Chronic Lower Respiratory Diseases</b>							
Number	12	20	14	7	14	15	14
Age-Adjusted Rate	51.1	82.0	57.3	28.2	54.5	60.5	56.3
<b>Suicide</b>							
Number	*	3	*	*	3	*	*
Age-Adjusted Rate	*	13.2	*	*	13.5	*	*
<b>Homicide and Legal Intervention</b>							
Number	0	0	*	0	0	0	*
Age-Adjusted Rate	0.0	0.0	*	0.0	0.0	0.0	*
<b>Work-Related Injury</b>							
Number	*	*	*	0	0	0	*
Age-Adjusted Rate	*	*	*	0.0	0.0	0.0	*

**HIGHLIGHTED ROWS:** Denotes data items collected 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: Logan County residents, 2009

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>	199	100.0	182	100.0	16	100.0	0	0.0	*	*	0	0.0
<b>Cardiovascular Disease</b>	64	32.2	58	31.9	5	31.3	0	0.0	*	*	0	0.0
<b>Heart Disease</b>	49	24.6	45	24.7	3	18.8	0	0.0	*	*	0	0.0
<b>Cerebrovascular Disease</b>	12	6.0	10	5.5	*	*	0	0.0	0	0.0	0	0.0
<b>Atherosclerosis</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Malignant Neoplasms</b>	44	22.1	43	23.6	*	*	0	0.0	0	0.0	0	0.0
<b>Lung Cancer</b>	10	5.0	10	5.5	0	0.0	0	0.0	0	0.0	0	0.0
<b>Breast Cancer</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	15	7.5	13	7.1	*	*	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	9	4.5	8	4.4	*	*	0	0.0	0	0.0	0	0.0
<b>Motor Vehicle</b>	5	2.5	4	2.2	*	*	0	0.0	0	0.0	0	0.0
<b>Other Unintentional Injuries</b>	4	2.0	4	2.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	*	*	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	*	*	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	6	3.0	5	2.7	*	*	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>	3	1.5	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	3	1.5	3	1.6	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	4	2.0	3	1.6	*	*	0	0.0	0	0.0	0	0.0
<b>Homicide and Legal Intervention</b>	0	0.0	0	0.0	0	0.0	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>	44	22.1	42	23.1	*	*	0	0.0	0	0.0	0	0.0
<b>Injury by Firearm</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	*	*	*	*	*	*	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: Logan County residents, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	199	21,510	9.3
Infant	*	237	*
Neonatal	*	237	*
1-4	0	960	0.0
5-9	0	1,369	0.0
10-14	0	1,464	0.0
15-19	5	1,323	3.8
20-24	*	1,127	*
25-29	3	1,460	2.1
30-34	4	1,228	3.3
35-39	0	1,450	0.0
40-44	0	1,454	0.0
45-49	*	1,847	*
50-54	8	1,839	4.4
55-59	8	1,514	5.3
60-64	14	1,143	12.2
65-69	17	791	21.5
70-74	14	732	19.1
75-79	33	677	48.7
80-84	26	449	57.9
85+	63	441	142.9
1-14	0	3,793	0.0
15-24	7	2,450	2.9
25-64	38	11,935	3.2
65+	153	3,090	49.5

\* 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: Logan County residents, 2009

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	*	*	0	0.0	7	2.9	7	1.3	31	4.9	153	49.5
Cardiovascular Disease	0	0.0	0	0.0	*	*	*	*	12	1.9	49	15.9
Heart Disease	0	0.0	0	0.0	*	*	*	*	9	1.4	38	12.3
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	*	*	3	0.5	8	2.6
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	0	0.0	11	1.7	33	10.7
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	5	0.8	5	1.6
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	*	*	14	4.5
Unintentional Injuries	0	0.0	0	0.0	3	1.2	3	0.5	*	*	*	*
Motor Vehicle	0	0.0	0	0.0	3	1.2	*	*	*	*	0	0.0
Other Unintentional Injuries	0	0.0	0	0.0	0	0.0	*	*	0	0.0	*	*
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	0	0.0	*	*
Suicide	0	0.0	0	0.0	*	*	0	0.0	0	0.0	0	0.0
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	0	0.0	*	*	5	1.6
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	0	0.0	*	*	*	*
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	1.0
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	1.3
Homicide and Legal Intervention	0	0.0	0	0.0	0	0.0	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	0	0.0	*	*	*	*	3	0.5	39	12.6
Injury by Firearm	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Drug-Induced Deaths	0	0.0	0	0.0	0	0.0	*	*	0	0.0	0	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	0	0.0	*	*	0	0.0
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:  
Logan County residents, 2009**

<b>Cause of Death</b>	<b>N</b>	<b>Rate</b>	<b>Age-Adjusted Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Causes</b>	199	925.2	776.7	670.9	882.5
<b>Cardiovascular Disease</b>	64	297.5	237.7	180.2	295.2
<b>Heart Disease</b>	49	227.8	181.9	131.4	232.4
<b>Cerebrovascular Disease</b>	12	55.8	44.3	19.1	69.5
<b>Atherosclerosis</b>	0	0.0	0.0	0.0	0.0
<b>Malignant Neoplasms</b>	44	204.6	168.8	118.9	218.7
<b>Lung Cancer</b>	10	46.5	37.0	15.7	67.1
<b>Breast Cancer</b>	0	0.0	0.0	0.0	0.0
<b>Chronic Lower Respiratory Diseases</b>	15	69.7	60.5	29.8	91.1
<b>Unintentional Injuries</b>	9	41.8	43.6	20.2	76.0
<b>Motor Vehicle</b>	5	23.2	25.7	8.7	51.6
<b>Other Unintentional Injuries</b>	4	18.6	17.9	4.5	40.3
<b>Pneumonia and Influenza</b>	*	*	*	*	*
<b>Suicide</b>	*	*	*	*	*
<b>Diabetes Mellitus</b>	6	27.9	22.3	6.8	46.7
<b>HIV Infection</b>	0	0.0	0.0	0.0	0.0
<b>Chronic Liver Disease and Cirrhosis</b>	3	13.9	10.5	1.3	28.7
<b>Alzheimer's Disease</b>	3	13.9	11.0	1.5	29.5
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	4	18.6	15.8	3.5	37.1
<b>Homicide and Legal Intervention</b>	0	0.0	0.0	0.0	0.0
<b>Septicemia</b>	*	*	*	*	*
<b>Congenital Anomalies</b>	0	0.0	0.0	0.0	0.0
<b>Perinatal Period Conditions</b>	*	*	*	*	*
<b>All Other</b>	44	204.6	172.9	121.9	223.8
<b>Injury by Firearm</b>	0	0.0	0.0	0.0	0.0
<b>Drug-Induced Deaths</b>	*	*	*	*	*
<b>Alcohol-Induced Deaths</b>	*	*	*	*	*
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	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).