

For more information about these tables contact the Health Statistics Section of the Colorado Department of Public Health and Environment at 303.692.2160.

# Logan County Births and Deaths 2007

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## Selected birth characteristics: Logan County residents, 2007

Characteristic	Number	Percent
Total Live Births	224	100.0
Age of Mother		
10-17	9	4.0
18-19	19	8.5
20-29	142	63.4
30+	54	24.1
Low Weight Births (<2,500 Grams)	18	8.0
Very Low Weight Births (<1,500 Grams)	0	0.0
Prenatal Care Later than 1st Trimester/No Care	49	22.3
No Prenatal Care	0	0.0
Preterm Births (<37 Weeks)	17	7.6
Education of Mother <High School Diploma/GED	45	20.2
Live Births to Unmarried Women	70	31.3
Smoking During Pregnancy	41	18.3

*"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.*

*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, 2007

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>	224	100.0	9	100.0	19	100.0	142	100.0	54	100.0
<b>Race/Ethnicity of Mother</b>										
White Non-Hispanic	187	83.5	6	66.7	16	84.2	117	82.4	48	88.9
White Hispanic	36	16.1	*	*	3	15.8	25	17.6	6	11.1
Black	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	18	8.0	*	*	4	21.1	10	7.0	3	5.6
Very Low Weight Births (<1,500 Grams)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	49	22.3	*	*	7	36.8	32	23.0	9	17.0
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>	17	7.6	*	*	5	26.3	7	4.9	4	7.4
<b>Education of Mother &lt;High School Diploma/GED</b>	45	20.2	9	100.0	8	42.1	24	17.0	4	7.4
<b>Live Births to Unmarried Women</b>	70	31.3	8	88.9	10	52.6	46	32.4	6	11.1
<b>Smoking During Pregnancy</b>	41	18.3	*	*	7	36.8	24	16.9	8	14.8

***"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 race/ethnicity of mother: Logan County residents, 2007

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>	187	100.0	36	100.0	0	0.0	0	0.0	*	*
<b>Age of Mother</b>										
<b>10-17</b>	6	3.2	*	*	0	0.0	0	0.0	*	*
<b>18-19</b>	16	8.6	3	8.3	0	0.0	0	0.0	0	0.0
<b>20-29</b>	117	62.6	25	69.4	0	0.0	0	0.0	0	0.0
<b>30+</b>	48	25.7	6	16.7	0	0.0	0	0.0	0	0.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	14	7.5	4	11.1	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	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	35	19.1	14	38.9	0	0.0	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>	14	7.5	3	8.3	0	0.0	0	0.0	0	0.0
<b>Education of Mother &lt;High School Diploma/GED</b>	22	11.8	22	61.1	0	0.0	0	0.0	*	*
<b>Live Births to Unmarried Women</b>	52	27.8	17	47.2	0	0.0	0	0.0	*	*
<b>Smoking During Pregnancy</b>	35	18.7	5	13.9	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, 2007**

<b>Age Group</b>	<b>Births</b>	<b>Population</b>	<b>Fertility Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Ages</b>	224	3,779	59.3	51.6	66.9
<b>Teen Age Groups</b>					
<b>13-14</b>	0	300	0.0	0.0	0.0
<b>15-17</b>	9	401	22.4	6.7	38.2
<b>18-19</b>	19	242	78.5	42.6	114.5
<b>10-17</b>	9	1,145	7.9	2.3	13.4
<b>10-19</b>	28	1,387	20.2	12.4	27.9
<b>All Age Groups</b>					
<b>10-14</b>	0	744	0.0	0.0	0.0
<b>15-19</b>	28	643	43.5	27.0	60.1
<b>20-24</b>	83	635	130.7	103.7	157.7
<b>25-29</b>	59	649	90.9	68.0	113.8
<b>30-34</b>	35	547	64.0	42.6	85.4
<b>35-39</b>	18	595	30.3	15.6	44.9
<b>40-49</b>	*	1,536	*	*	*

*\* 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, 1997, 2003-2007

	1997	2003	2004	2005	2006	2007	2003-2007 Annual Average
<b>Total Population</b>	20,006	22,033	21,736	21,558	21,675	21,883	21,777
<b>Total Births</b>							
Number	252	276	240	223	249	224	242
Birth Rate	12.6	12.5	11.0	10.3	11.5	10.2	11.1
General Fertility Rate	65.3	67.1	59.8	57.5	65.7	59.3	61.9
<b>Age of Mother 10-17</b>							
Number	13	9	11	9	12	9	10
Percent of Total Births	5.2	3.3	4.6	4.0	4.8	4.0	4.1
Fertility Rate	11.2	7.6	9.7	8.1	10.6	7.9	8.8
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	20	13	12	14	15	18	14
Percent	7.9	4.7	5.0	6.3	6.0	8.0	5.9
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	77	65	55	50	70	49	58
Percent	30.8	23.6	23.0	22.7	28.2	22.3	24.0
<b>Births to Unmarried Women</b>							
Number	62	89	89	73	99	70	
Percent	24.6	32.2	37.1	32.7	39.8	31.3	
<b>Mother's Education &lt;12 Years</b>							
Number	43	52	49	37	40	45	
Percent	17.1	19.1	21.2	17.0	16.5	20.1	
<b>Infant Deaths</b>							
Number	3	*	*	3	0	*	*
Rate	11.9	*	*	13.5	0.0	*	*
<b>Neonatal Deaths</b>							
Number	*	*	*	*	0	*	*
Rate	*	*	*	*	0.0	*	*
<b>Total Deaths</b>							
Number	185	209	194	217	187	190	199
Crude Rate	924.7	948.6	892.5	1006.6	862.7	868.3	915.6
Age-Adjusted Rate	817.4	865.4	803.7	898.9	766.5	761.7	818.9
<b>Cardiovascular Disease</b>							
Number	80	72	61	77	54	84	70
Age-Adjusted Rate	344.8	293.2	249.8	310.8	220.4	333.7	281.7
<b>Heart Disease</b>							
Number	68	47	37	57	40	57	48
Age-Adjusted Rate	292.8	190.9	152.1	229.0	164.7	228.0	193.2

(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, 1997, 2003-2007

	1997	2003	2004	2005	2006	2007	2003-2007 Annual Average
<b>Cerebrovascular Disease</b>							
Number	12	19	14	16	8	19	15
Age-Adjusted Rate	52.0	77.3	57.6	65.4	31.6	74.8	61.2
<b>Malignant Neoplasms</b>							
Number	48	39	37	40	48	38	40
Age-Adjusted Rate	216.9	165.6	155.9	167.4	197.6	153.5	167.6
<b>Lung Cancer</b>							
Number	6	11	8	11	14	12	11
Age-Adjusted Rate	28.7	46.1	34.2	46.1	57.4	49.2	46.5
<b>Breast Cancer</b>							
Number	6	5	4	0	3	3	3
Age-Adjusted Rate	29.3	20.7	17.3	0.0	11.8	11.8	12.4
<b>Total Unintentional Injuries</b>							
Number	6	12	12	19	12	10	13
Age-Adjusted Rate	30.7	51.8	52.6	81.7	53.0	41.7	56.1
<b>Motor Vehicle</b>							
Number	5	8	6	9	3	*	6
Age-Adjusted Rate	25.2	35.2	26.9	40.7	15.5	*	25.1
<b>Other Unintentional Injuries</b>							
Number	*	4	6	10	9	8	7
Age-Adjusted Rate	*	16.6	25.7	41.0	37.6	34.4	31.0
<b>Chronic Lower Respiratory Diseases</b>							
Number	8	14	11	20	14	7	13
Age-Adjusted Rate	34.2	57.7	44.9	82.2	57.3	28.1	53.7
<b>Suicide</b>							
Number	*	4	4	3	*	*	*
Age-Adjusted Rate	*	17.7	18.2	13.2	*	*	*
<b>Homicide and Legal Intervention</b>							
Number	0	0	*	0	*	0	*
Age-Adjusted Rate	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, 2007

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>	190	100.0	183	100.0	6	100.0	0	0.0	0	0.0	0	0.0
<b>Cardiovascular Disease</b>	84	44.2	82	44.8	*	*	0	0.0	0	0.0	0	0.0
Heart Disease	57	30.0	55	30.1	*	*	0	0.0	0	0.0	0	0.0
Cerebrovascular Disease	19	10.0	19	10.4	0	0.0	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>	38	20.0	37	20.2	*	*	0	0.0	0	0.0	0	0.0
Lung Cancer	12	6.3	12	6.6	0	0.0	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>	7	3.7	7	3.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	10	5.3	10	5.5	0	0.0	0	0.0	0	0.0	0	0.0
Motor Vehicle	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	8	4.2	8	4.4	0	0.0	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	7	3.7	7	3.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	5	2.6	3	1.6	*	*	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>	6	3.2	6	3.3	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	4	2.1	4	2.2	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	5	2.6	5	2.7	0	0.0	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>	4	2.1	4	2.2	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
<b>Perinatal Period Conditions</b>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
<b>All Other</b>	18	9.5	16	8.7	*	*	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
<b>Drug-Induced Deaths</b>	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	5	2.6	5	2.7	0	0.0	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, 2007

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	190	21,883	8.7
Infant	*	224	*
Neonatal	*	224	*
1-4	*	986	*
5-9	0	1,448	0.0
10-14	0	1,534	0.0
15-19	0	1,318	0.0
20-24	0	1,240	0.0
25-29	*	1,488	*
30-34	0	1,373	0.0
35-39	0	1,503	0.0
40-44	*	1,677	*
45-49	5	1,891	2.6
50-54	5	1,779	2.8
55-59	10	1,391	7.2
60-64	11	1,010	10.9
65-69	10	769	13.0
70-74	26	744	34.9
75-79	24	666	36.0
80-84	25	426	58.7
85+	68	410	165.9
1-14	*	3,968	*
15-24	0	2,558	0.0
25-64	33	12,112	2.7
65+	153	3,015	50.7

\* 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, 2007

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	*	*	31	5.1	153	50.7
Cardiovascular Disease	*	*	0	0.0	0	0.0	*	*	11	1.8	71	23.5
Heart Disease	*	*	0	0.0	0	0.0	*	*	10	1.6	45	14.9
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	18	6.0
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	4	0.7	34	11.3
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	11	3.6
Breast Cancer	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	*	*	6	2.0
Unintentional Injuries	0	0.0	*	*	0	0.0	*	*	3	0.5	5	1.7
Motor Vehicle	0	0.0	0	0.0	0	0.0	0	0.0	*	*	0	0.0
Other Unintentional Injuries	0	0.0	*	*	0	0.0	*	*	*	*	5	1.7
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	2.3
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	*	*	3	1.0
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	4	0.7	*	*
Alzheimer's Disease	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	5	1.7
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	*	*	3	1.0
Congenital Anomalies	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	0	0.0
All Other	*	*	0	0.0	0	0.0	0	0.0	4	0.7	13	4.3
Injury by Firearm	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	*	*
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	0	0.0	4	0.7	*	*
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, 2007**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	190	868.3	761.7	656.8	866.6
Cardiovascular Disease	84	383.9	333.7	263.7	403.8
Heart Disease	57	260.5	228.0	169.2	286.8
Cerebrovascular Disease	19	86.8	74.8	41.4	108.3
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	38	173.7	153.5	104.9	202.1
Lung Cancer	12	54.8	49.2	21.4	77.0
Breast Cancer	3	13.7	11.8	1.8	30.7
Chronic Lower Respiratory Diseases	7	32.0	28.1	10.3	54.7
Unintentional Injuries	10	45.7	41.7	19.0	73.1
Motor Vehicle	*	*	*	*	*
Other Unintentional Injuries	8	36.6	34.4	14.2	63.3
Pneumonia and Influenza	7	32.0	28.6	10.6	55.4
Suicide	*	*	*	*	*
Diabetes Mellitus	5	22.8	20.4	5.8	43.7
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	6	27.4	23.0	7.3	47.5
Alzheimer's Disease	4	18.3	15.0	3.2	35.6
Nephritis, Nephrosis, Nephrotic Syndrome	5	22.8	19.8	5.6	42.9
Homicide and Legal Intervention	0	0.0	0.0	0.0	0.0
Septicemia	4	18.3	15.9	3.6	37.0
Congenital Anomalies	*	*	*	*	*
Perinatal Period Conditions	0	0.0	0.0	0.0	0.0
All Other	18	82.3	72.3	38.7	105.8
Injury by Firearm	*	*	*	*	*
Drug-Induced Deaths	*	*	*	*	*
Alcohol-Induced Deaths	5	22.8	18.9	5.0	41.7
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 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 Transmitting. 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).