

# Garfield 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: Garfield County residents, 2009

Characteristic	Number	Percent
Total Live Births	964	100.0
Age of Mother		
10-17	29	3.0
18-19	59	6.1
20-29	523	54.3
30+	353	36.6
Low Weight Births (<2,500 Grams)	52	5.4
Very Low Weight Births (<1,500 Grams)	5	0.5
Prenatal Care Later than 1st Trimester/No Care	316	33.0
No Prenatal Care	10	1.0
Preterm Births (<37 Weeks)	55	5.7
Education of Mother <High School Diploma/GED	279	29.7
Live Births to Unmarried Women	245	25.5
Smoking During Pregnancy	54	5.6

*"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: Garfield 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	964	100.0	29	100.0	59	100.0	523	100.0	353	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	507	53.5	10	34.5	18	32.7	275	53.6	204	58.3
White, Hispanic	232	24.5	11	37.9	20	36.4	127	24.8	74	21.1
Black	5	0.5	0	0.0	0	0.0	5	1.0	0	0.0
Asian American/Pacific Islander	10	1.1	0	0.0	0	0.0	3	0.6	7	2.0
American Indian/Native Alaskan	5	0.5	0	0.0	0	0.0	4	0.8	*	*
Other	188	19.9	8	27.6	17	30.9	99	19.3	64	18.3
Unknown	17		0	0.0	4		10		3	
Low Weight Births (<2,500 Grams)	52	5.4	3	10.3	6	10.2	23	4.4	20	5.7
Very Low Weight Births (<1,500 Grams)	5	0.5	*	*	0	0.0	3	0.6	*	*
Prenatal Care Later than 1st Trimester/No Care	316	33.0	13	44.8	27	45.8	184	35.3	92	26.3
No Prenatal Care	10	1.0	0	0.0	*	*	5	1.0	3	0.9
Preterm Births (<37 Weeks)	55	5.7	*	*	4	6.8	25	4.8	24	6.8
Education of Mother <High School Diploma/GED	279	29.7	24	85.7	25	43.1	144	28.6	86	24.6
Live Births to Unmarried Women	245	25.4	19	65.5	31	52.5	152	29.1	43	12.2
Smoking During Pregnancy	54	5.6	*	*	3	5.1	41	7.9	9	2.5

*"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: Garfield 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
<b>Total Live Births</b>	507	100.0	232	100.0	5	100.0	10	100.0	5	100.0
<b>Age of Mother</b>										
<b>10-17</b>	10	2.0	11	4.7	0	0.0	0	0.0	0	0.0
<b>18-19</b>	18	3.6	20	8.6	0	0.0	0	0.0	0	0.0
<b>20-29</b>	275	54.2	127	54.7	5	100.0	3	30.0	4	80.0
<b>30+</b>	204	40.2	74	31.9	0	0.0	7	70.0	*	*
<b>Low Weight Births (&lt;2,500 Grams)</b>	26	5.1	17	7.3	0	0.0	0	0.0	0	0.0
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	*	*	3	1.3	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	118	23.4	105	45.5	4	80.0	*	*	*	*
<b>No Prenatal Care</b>	*	*	4	1.7	0	0.0	*	*	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	26	5.1	17	7.3	0	0.0	0	0.0	0	0.0
<b>Education of Mother &lt;High School Diploma/GED</b>	48	9.5	126	55.3	*	*	*	*	*	*
<b>Live Births to Unmarried Women</b>	91	17.9	72	31.0	3	60.0	0	0.0	*	*
<b>Smoking During Pregnancy</b>	45	8.9	4	1.7	*	*	*	*	*	*

*"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: Garfield County residents, 2009**

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	964	11,506	83.8	78.7	88.9
<b>Teen Age Groups</b>					
13-14	*	773	*	*	*
15-17	28	1,212	23.1	14.2	32.0
18-19	59	769	76.7	57.3	96.2
10-17	29	3,157	9.2	5.7	12.7
10-19	88	3,926	22.4	17.7	27.2
<b>All Age Groups</b>					
10-14	*	1,945	*	*	*
15-19	87	1,981	43.9	34.6	53.2
20-24	250	1,719	145.4	128.5	162.4
25-29	273	1,665	164.0	145.9	182.0
30-34	220	1,973	111.5	97.4	125.6
35-39	111	2,188	50.7	41.3	60.2
40-49	22	4,202	5.2	2.9	7.5

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

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	42,694	50,379	52,506	54,345	56,185	57,645	54,212
<b>Total Births</b>							
Number	688	816	945	991	992	964	942
Birth Rate	16.1	16.2	18.0	18.2	17.7	16.7	17.4
General Fertility Rate	71.9	78.9	87.9	89.1	87.2	83.8	85.4
<b>Age of Mother 10-17</b>							
Number	30	24	31	30	32	29	29
Percent of Total Births	4.4	2.9	3.3	3.0	3.2	3.0	3.1
Fertility Rate	11.9	8.4	10.4	9.9	10.3	9.2	9.6
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	50	57	69	69	77	52	65
Percent	7.3	7.0	7.3	7.0	7.8	5.4	6.9
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	188	266	346	330	342	316	320
Percent	27.4	32.7	36.7	33.4	34.8	33.0	34.2
<b>Births to Unmarried Women</b>							
Number	184	255	259	241	252	245	
Percent	26.7	31.3	27.4	24.3	25.4	25.4	
<b>Mother's Education &lt;12 Years</b>							
Number	200	270	273	299	311	279	
Percent	29.1	33.3	29.2	30.5	31.8	29.7	
<b>Infant Deaths</b>							
Number	*	3	3	5	*	*	3
Rate	*	3.7	3.2	5.0	*	*	3.2
<b>Neonatal Deaths</b>							
Number	*	3	*	3	*	*	*
Rate	*	3.7	*	3.0	*	*	*
<b>Total Deaths</b>							
Number	238	268	289	277	258	292	277
Crude Rate	557.5	532.0	550.4	509.7	459.2	506.5	510.6
Age-Adjusted Rate	763.8	721.6	750.0	719.8	644.1	695.0	705.3
<b>Cardiovascular Disease</b>							
Number	84	81	82	75	65	71	75
Age-Adjusted Rate	283.0	231.5	218.8	211.3	175.1	181.5	202.8
<b>Heart Disease</b>							
Number	57	54	64	58	48	59	57
Age-Adjusted Rate	191.8	151.7	167.9	166.6	127.3	147.7	151.8

(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: Garfield County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Cerebrovascular Disease</b>							
Number	23	19	17	9	13	8	13
Age-Adjusted Rate	77.1	57.5	47.7	25.0	37.4	22.6	37.6
<b>Malignant Neoplasms</b>							
Number	52	67	54	54	56	60	58
Age-Adjusted Rate	167.9	180.1	142.3	134.0	124.2	140.5	144.1
<b>Lung Cancer</b>							
Number	8	18	16	14	14	12	15
Age-Adjusted Rate	25.4	45.3	41.1	37.0	34.7	31.4	37.5
<b>Breast Cancer</b>							
Number	5	3	4	5	3	5	4
Age-Adjusted Rate	14.3	7.9	11.0	11.4	7.1	11.1	9.8
<b>Total Unintentional Injuries</b>							
Number	20	28	32	21	20	34	27
Age-Adjusted Rate	53.4	61.2	63.7	44.9	39.5	64.9	54.9
<b>Motor Vehicle</b>							
Number	7	12	11	11	9	13	11
Age-Adjusted Rate	17.0	22.1	21.1	21.2	17.0	25.1	21.2
<b>Other Unintentional Injuries</b>							
Number	13	16	21	10	11	21	16
Age-Adjusted Rate	36.4	39.1	42.6	23.7	22.4	39.8	33.7
<b>Chronic Lower Respiratory Diseases</b>							
Number	10	15	16	23	20	19	19
Age-Adjusted Rate	34.8	42.8	45.0	61.7	59.0	49.8	51.6
<b>Suicide</b>							
Number	9	6	9	8	11	12	9
Age-Adjusted Rate	20.2	12.5	15.8	15.5	21.0	20.3	17.2
<b>Homicide and Legal Intervention</b>							
Number	0	*	3	*	*	*	*
Age-Adjusted Rate	0.0	*	5.6	*	*	*	*
<b>Work-Related Injury</b>							
Number	0	0	7	3	0	*	*
Age-Adjusted Rate	0.0	0.0	15.4	5.0	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: Garfield 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>	292	100.0	275	100.0	14	100.0	0	0.0	*	*	*	*
<b>Cardiovascular Disease</b>	71	24.3	69	25.1	0	0.0	0	0.0	*	*	*	*
<b>Heart Disease</b>	59	20.2	57	20.7	0	0.0	0	0.0	*	*	*	*
<b>Cerebrovascular Disease</b>	8	2.7	8	2.9	0	0.0	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>	60	20.5	58	21.1	*	*	0	0.0	0	0.0	*	*
<b>Lung Cancer</b>	12	4.1	12	4.4	0	0.0	0	0.0	0	0.0	0	0.0
<b>Breast Cancer</b>	5	1.7	5	1.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	19	6.5	19	6.9	0	0.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	34	11.6	29	10.5	5	35.7	0	0.0	0	0.0	0	0.0
<b>Motor Vehicle</b>	13	4.5	9	3.3	4	28.6	0	0.0	0	0.0	0	0.0
<b>Other Unintentional Injuries</b>	21	7.2	20	7.3	*	*	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	12	4.1	9	3.3	3	21.4	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	12	4.1	10	3.6	*	*	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	5	1.7	4	1.5	*	*	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>	7	2.4	7	2.5	0	0.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	14	4.8	14	5.1	0	0.0	0	0.0	0	0.0	0	0.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	*	*	*	*	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
<b>Septicemia</b>	0	0.0	0	0.0	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>	55	18.8	53	19.3	*	*	0	0.0	0	0.0	0	0.0
<b>Injury by Firearm</b>	5	1.7	5	1.8	0	0.0	0	0.0	0	0.0	0	0.0
<b>Drug-Induced Deaths</b>	12	4.1	11	4.0	*	*	0	0.0	0	0.0	0	0.0
<b>Alcohol-Induced Deaths</b>	8	2.7	8	2.9	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

\* 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: Garfield County residents, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	292	57,645	5.1
Infant	*	964	*
Neonatal	*	964	*
1-4	*	3,825	*
5-9	*	4,629	*
10-14	0	4,049	0.0
15-19	3	3,985	0.8
20-24	5	3,573	1.4
25-29	*	3,412	*
30-34	7	4,050	1.7
35-39	*	4,617	*
40-44	10	4,283	2.3
45-49	6	4,510	1.3
50-54	14	4,414	3.2
55-59	17	3,781	4.5
60-64	20	2,779	7.2
65-69	17	1,389	12.2
70-74	28	1,222	22.9
75-79	24	973	24.7
80-84	41	614	66.8
85+	92	550	167.3
1-14	3	12,503	0.2
15-24	8	7,558	1.1
25-64	77	31,846	2.4
65+	202	4,748	42.5

\* 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: Garfield 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	*	*	3	0.2	8	1.1	20	1.2	57	3.7	202	42.5
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	*	*	10	0.6	60	12.6
Heart Disease	0	0.0	0	0.0	0	0.0	*	*	10	0.6	48	10.1
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	1.7
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	*	*	16	1.0	42	8.8
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	11	2.3
Breast Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	3	0.6
Chronic Lower Respiratory Diseases	0	0.0	0	0.0	0	0.0	0	0.0	*	*	18	3.8
Unintentional Injuries	*	*	*	*	6	0.8	8	0.5	10	0.6	8	1.7
Motor Vehicle	0	0.0	0	0.0	4	0.5	6	0.4	*	*	*	*
Other Unintentional Injuries	*	*	*	*	*	*	*	*	9	0.6	6	1.3
Pneumonia and Influenza	0	0.0	*	*	0	0.0	0	0.0	*	*	10	2.1
Suicide	0	0.0	0	0.0	*	*	4	0.2	6	0.4	*	*
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	0	0.0	*	*	4	0.8
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	*	*	*	*	3	0.2	*	*
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	*	*	13	2.7
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Homicide and Legal Intervention	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	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	4	0.2	8	0.5	42	8.8
Injury by Firearm	0	0.0	0	0.0	0	0.0	0	0.0	3	0.2	*	*
Drug-Induced Deaths	0	0.0	*	*	*	*	4	0.2	6	0.4	0	0.0
Alcohol-Induced Deaths	0	0.0	0	0.0	*	*	*	*	5	0.3	0	0.0
Work-Related Injury (Y/N Check Death Certificate)	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:  
Garfield County residents, 2009**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	292	506.5	695.0	616.5	773.6
Cardiovascular Disease	71	123.2	181.5	139.2	223.9
Heart Disease	59	102.4	147.7	109.6	185.7
Cerebrovascular Disease	8	13.9	22.6	12.0	36.5
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	60	104.1	140.5	103.9	177.1
Lung Cancer	12	20.8	31.4	13.5	49.3
Breast Cancer	5	8.7	11.1	4.2	21.4
Chronic Lower Respiratory Diseases	19	33.0	49.8	27.3	72.3
Unintentional Injuries	34	59.0	64.9	42.4	87.5
Motor Vehicle	13	22.6	25.1	11.3	39.0
Other Unintentional Injuries	21	36.4	39.8	22.0	57.6
Pneumonia and Influenza	12	20.8	30.1	12.8	47.3
Suicide	12	20.8	20.3	8.5	32.1
Diabetes Mellitus	5	8.7	12.6	5.1	23.4
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	7	12.1	13.7	5.8	24.9
Alzheimer's Disease	14	24.3	37.7	17.9	57.6
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*
Homicide and Legal Intervention	*	*	*	*	*
Septicemia	0	0.0	0.0	0.0	0.0
Congenital Anomalies	0	0.0	0.0	0.0	0.0
Perinatal Period Conditions	*	*	*	*	*
All Other	55	95.4	137.2	100.6	173.7
Injury by Firearm	5	8.7	9.5	3.2	19.3
Drug-Induced Deaths	12	20.8	19.3	8.3	30.4
Alcohol-Induced Deaths	8	13.9	12.9	5.2	23.9
Work-Related Injury (Y/N Check Death Certificate)	*	*	*	*	*

*\* 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).