

# Alamosa 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: Alamosa County residents, 2009

Characteristic	Number	Percent
Total Live Births	256	100.0
Age of Mother		
10-17	8	3.1
18-19	28	10.9
20-29	165	64.5
30+	55	21.5
Low Weight Births (<2,500 Grams)	36	14.1
Very Low Weight Births (<1,500 Grams)	*	*
Prenatal Care Later than 1st Trimester/No Care	37	14.6
No Prenatal Care	*	*
Preterm Births (<37 Weeks)	20	7.8
Education of Mother <High School Diploma/GED	49	19.8
Live Births to Unmarried Women	64	25.1
Smoking During Pregnancy	29	11.3

*"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: Alamosa County residents, 2009

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>	256	100.0	8	100.0	28	100.0	165	100.0	55	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	99	64.3	4	80.0	7	50.0	63	60.0	25	83.3
White, Hispanic	31	20.1	0	0.0	4	28.6	25	23.8	*	*
Black	*	*	0	0.0	*	*	*	*	0	0.0
Asian American/Pacific Islander	8	5.2	*	*	*	*	5	4.8	*	*
American Indian/Native Alaskan	11	7.1	0	0.0	*	*	9	8.6	*	*
Other	3	1.9	0	0.0	0	0.0	*	*	*	*
Unknown	102		3		14		60		25	
<b>Low Weight Births (&lt;2,500 Grams)</b>	36	14.1	0	0.0	4	14.3	26	15.8	6	10.9
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>	37	14.6	*	*	3	10.7	24	14.7	9	16.4
No Prenatal Care	*	*	0	0.0	0	0.0	0	0.0	*	*
<b>Preterm Births (&lt;37 Weeks)</b>	20	7.8	0	0.0	*	*	17	10.3	*	*
<b>Education of Mother &lt;High School Diploma/GED</b>	49	19.8	3	37.5	9	34.6	28	17.3	9	17.3
<b>Live Births to Unmarried Women</b>	64	25.0	4	50.0	8	28.6	44	26.7	8	14.5
<b>Smoking During Pregnancy</b>	29	11.3	0	0.0	4	14.3	18	10.9	7	12.7

*"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 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: Alamosa 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>	99	100.0	31	100.0	*	*	8	100.0	11	100.0
<b>Age of Mother</b>										
<b>10-17</b>	4	4.0	0	0.0	0	0.0	*	*	0	0.0
<b>18-19</b>	7	7.1	4	12.9	*	*	*	*	*	*
<b>20-29</b>	63	63.6	25	80.6	*	*	5	62.5	9	81.8
<b>30+</b>	25	25.3	*	*	0	0.0	*	*	*	*
<b>Low Weight Births (&lt;2,500 Grams)</b>	10	10.1	8	25.8	*	*	0	0.0	3	27.3
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	*	*	*	*	0	0.0	0	0.0	0	0.0
<b>Prenatal Care Later than 1st Trimester/No Care</b>	20	20.2	*	*	0	0.0	*	*	0	0.0
<b>No Prenatal Care</b>	*	*	0	0.0	0	0.0	0	0.0	0	0.0
<b>Preterm Births (&lt;37 Weeks)</b>	8	8.1	5	16.1	0	0.0	0	0.0	*	*
<b>Education of Mother &lt;High School Diploma/GED</b>	7	7.1	7	22.6	0	0.0	5	62.5	0	0.0
<b>Live Births to Unmarried Women</b>	22	22.2	8	25.8	*	*	*	*	4	36.4
<b>Smoking During Pregnancy</b>	18	18.2	*	*	*	*	*	*	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: Alamosa County residents, 2009**

<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>	256	3,512	72.9	64.2	81.6
<b>Teen Age Groups</b>					
<b>13-14</b>	0	187	0.0	0.0	0.0
<b>15-17</b>	8	340	23.5	5.9	41.1
<b>18-19</b>	28	449	62.4	38.9	85.8
<b>10-17</b>	8	787	10.2	2.5	17.8
<b>10-19</b>	36	1,236	29.1	19.3	38.9
<b>All Age Groups</b>					
<b>10-14</b>	0	447	0.0	0.0	0.0
<b>15-19</b>	36	789	45.6	30.4	60.8
<b>20-24</b>	88	891	98.8	78.6	118.9
<b>25-29</b>	77	487	158.1	124.7	191.5
<b>30-34</b>	34	509	66.8	44.1	89.5
<b>35-39</b>	18	395	45.6	23.7	67.4
<b>40-49</b>	3	945	3.2	0.6	7.8

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

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Total Population</b>	14,825	15,714	15,737	15,738	15,858	15,880	15,785
<b>Total Births</b>							
Number	201	246	243	256	274	256	255
Birth Rate	13.6	15.7	15.4	16.3	17.3	16.1	16.2
General Fertility Rate	56.7	68.6	68.1	72.8	77.7	72.9	72.0
<b>Age of Mother 10-17</b>							
Number	14	10	20	19	18	8	15
Percent of Total Births	7.0	4.1	8.2	7.4	6.6	3.1	5.9
Fertility Rate	15.5	11.0	22.6	22.6	21.5	10.2	17.6
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	23	29	25	23	31	36	29
Percent	11.4	11.8	10.3	9.0	11.3	14.1	11.3
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	42	71	73	74	60	37	63
Percent	21.4	28.9	30.0	29.1	22.3	14.6	24.9
<b>Births to Unmarried Women</b>							
Number	62	105	93	68	78	64	
Percent	30.8	42.7	38.3	26.6	28.5	25.0	
<b>Mother's Education &lt;12 Years</b>							
Number	53	62	55	52	61	49	
Percent	26.9	25.6	23.0	21.4	22.6	19.8	
<b>Infant Deaths</b>							
Number	3	*	0	*	3	*	*
Rate	14.9	*	0.0	*	10.9	*	*
<b>Neonatal Deaths</b>							
Number	*	*	0	0	*	*	*
Rate	*	*	0.0	0.0	*	*	*
<b>Total Deaths</b>							
Number	107	112	102	112	107	104	107
Crude Rate	721.8	712.7	648.2	711.7	674.7	654.9	680.4
Age-Adjusted Rate	894.1	821.1	715.7	798.2	734.4	719.5	756.4
<b>Cardiovascular Disease</b>							
Number	37	40	29	30	22	21	28
Age-Adjusted Rate	316.5	295.2	214.5	224.4	155.9	143.0	204.7
<b>Heart Disease</b>							
Number	29	30	26	21	17	19	23
Age-Adjusted Rate	245.7	225.9	190.3	163.1	120.4	126.6	164.0

(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: Alamosa County residents, 1999, 2005-2009

	1999	2005	2006	2007	2008	2009	2005-2009 Annual Average
<b>Cerebrovascular Disease</b>							
Number	6	9	3	6	4	*	5
Age-Adjusted Rate	52.4	62.3	24.2	41.7	29.2	*	34.1
<b>Malignant Neoplasms</b>							
Number	18	14	18	23	22	19	19
Age-Adjusted Rate	150.3	100.1	124.5	162.1	160.3	135.5	136.9
<b>Lung Cancer</b>							
Number	3	*	3	4	*	4	*
Age-Adjusted Rate	24.6	*	23.2	28.9	*	26.2	*
<b>Breast Cancer</b>							
Number	3	*	*	3	0	*	*
Age-Adjusted Rate	23.9	*	*	21.0	0.0	*	*
<b>Total Unintentional Injuries</b>							
Number	7	7	4	10	8	8	7
Age-Adjusted Rate	50.2	44.8	25.8	59.8	46.7	56.6	46.4
<b>Motor Vehicle</b>							
Number	*	*	*	4	3	4	*
Age-Adjusted Rate	*	*	*	18.6	17.4	28.3	*
<b>Other Unintentional Injuries</b>							
Number	6	5	3	6	5	4	5
Age-Adjusted Rate	43.1	29.9	19.5	41.2	29.3	28.3	29.4
<b>Chronic Lower Respiratory Diseases</b>							
Number	6	13	10	5	10	10	10
Age-Adjusted Rate	56.0	102.5	72.4	37.7	75.8	71.9	72.0
<b>Suicide</b>							
Number	*	*	3	5	*	4	3
Age-Adjusted Rate	*	*	20.8	36.7	*	29.5	22.0
<b>Homicide and Legal Intervention</b>							
Number	*	*	0	*	*	*	*
Age-Adjusted Rate	*	*	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: Alamosa 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>	104	100.0	61	100.0	43	100.0	0	0.0	0	0.0	0	0.0
<b>Cardiovascular Disease</b>	21	20.2	9	14.8	12	27.9	0	0.0	0	0.0	0	0.0
Heart Disease	19	18.3	8	13.1	11	25.6	0	0.0	0	0.0	0	0.0
Cerebrovascular Disease	*	*	*	*	*	*	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>	19	18.3	11	18.0	8	18.6	0	0.0	0	0.0	0	0.0
Lung Cancer	4	3.8	*	*	*	*	0	0.0	0	0.0	0	0.0
Breast Cancer	*	*	0	0.0	*	*	0	0.0	0	0.0	0	0.0
<b>Chronic Lower Respiratory Disease</b>	10	9.6	7	11.5	3	7.0	0	0.0	0	0.0	0	0.0
<b>Unintentional Injuries</b>	8	7.7	4	6.6	4	9.3	0	0.0	0	0.0	0	0.0
Motor Vehicle	4	3.8	*	*	3	7.0	0	0.0	0	0.0	0	0.0
Other Unintentional Injuries	4	3.8	3	4.9	*	*	0	0.0	0	0.0	0	0.0
<b>Pneumonia and Influenza</b>	5	4.8	4	6.6	*	*	0	0.0	0	0.0	0	0.0
<b>Suicide</b>	4	3.8	3	4.9	*	*	0	0.0	0	0.0	0	0.0
<b>Diabetes Mellitus</b>	*	*	*	*	*	*	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	2.9	0	0.0	3	7.0	0	0.0	0	0.0	0	0.0
<b>Alzheimer's Disease</b>	8	7.7	7	11.5	*	*	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>	3	2.9	*	*	*	*	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>	18	17.3	11	18.0	7	16.3	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>	3	2.9	*	*	*	*	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: Alamosa County residents, 2009

Age Group	Deaths	Population	Age-Specific Death Rate
	Age Group	Age Group	Age Group
All Ages	104	15,880	6.5
Infant	*	256	*
Neonatal	*	256	*
1-4	0	976	0.0
5-9	*	1,092	*
10-14	0	983	0.0
15-19	0	1,621	0.0
20-24	*	1,726	*
25-29	0	1,016	0.0
30-34	0	979	0.0
35-39	*	858	*
40-44	*	869	*
45-49	5	976	5.1
50-54	8	1,088	7.4
55-59	7	980	7.1
60-64	7	760	9.2
65-69	3	513	5.8
70-74	8	388	20.6
75-79	15	310	48.4
80-84	17	237	71.7
85+	26	249	104.4
1-14	*	3,051	*
15-24	*	3,347	*
25-64	31	7,526	4.1
65+	69	1,697	40.7

*\* 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: Alamosa 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	*	*	*	*	*	*	4	1.1	27	7.1	69	40.7
Cardiovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	7	1.8	14	8.2
Heart Disease	0	0.0	0	0.0	0	0.0	0	0.0	7	1.8	12	7.1
Cerebrovascular Disease	0	0.0	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
Malignant Neoplasms	0	0.0	0	0.0	0	0.0	0	0.0	6	1.6	13	7.7
Lung Cancer	0	0.0	0	0.0	0	0.0	0	0.0	*	*	*	*
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	*	*	8	4.7
Unintentional Injuries	*	*	*	*	0	0.0	*	*	*	*	3	1.8
Motor Vehicle	0	0.0	*	*	0	0.0	0	0.0	*	*	*	*
Other Unintentional Injuries	*	*	0	0.0	0	0.0	*	*	0	0.0	*	*
Pneumonia and Influenza	0	0.0	0	0.0	0	0.0	*	*	0	0.0	4	2.4
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	*	*
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	8	4.7
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	*	*	*	*
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	0	0.0	0	0.0	4	1.1	14	8.2
Injury by Firearm	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	*	*	*	*
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:  
Alamosa County residents, 2009**

Cause of Death	N	Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	104	654.9	719.5	582.5	856.5
Cardiovascular Disease	21	132.2	143.0	81.6	204.5
Heart Disease	19	119.6	126.6	69.5	183.8
Cerebrovascular Disease	*	*	*	*	*
Atherosclerosis	0	0.0	0.0	0.0	0.0
Malignant Neoplasms	19	119.6	135.5	74.1	197.0
Lung Cancer	4	25.2	26.2	7.1	57.4
Breast Cancer	*	*	*	*	*
Chronic Lower Respiratory Diseases	10	63.0	71.9	36.3	119.6
Unintentional Injuries	8	50.4	56.6	25.6	99.6
Motor Vehicle	4	25.2	28.3	8.2	60.5
Other Unintentional Injuries	4	25.2	28.3	8.2	60.5
Pneumonia and Influenza	5	31.5	36.3	12.7	72.0
Suicide	4	25.2	29.5	8.8	62.3
Diabetes Mellitus	*	*	*	*	*
HIV Infection	0	0.0	0.0	0.0	0.0
Chronic Liver Disease and Cirrhosis	3	18.9	21.3	4.6	50.0
Alzheimer's Disease	8	50.4	56.8	25.8	99.9
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	*	*	*
Homicide and Legal Intervention	*	*	*	*	*
Septicemia	3	18.9	16.3	2.5	42.1
Congenital Anomalies	0	0.0	0.0	0.0	0.0
Perinatal Period Conditions	*	*	*	*	*
All Other	18	113.4	117.3	62.8	171.9
Injury by Firearm	*	*	*	*	*
Drug-Induced Deaths	*	*	*	*	*
Alcohol-Induced Deaths	3	18.9	19.7	3.9	47.9
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).