

# Colorado Births and Deaths 2014

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

## Selected birth characteristics: Colorado residents, 2014

Characteristic	Number	Percent
Total Live Births	65,816	100.0
Age of Mother		
10-17	903	1.4
18-19	2,484	3.8
20-29	31,705	48.2
30+	30,699	46.7
Low Weight Births (<2,500 Grams)	5,779	8.8
Very Low Weight Births (<1,500 Grams)	811	1.2
Prenatal Care Later than 1st Trimester/No Care	12,487	19.7
No Prenatal Care	1,359	2.1
Preterm Births (<37 Weeks)	5,516	8.4
Education of Mother <High School Diploma/GED	7,939	12.2
Live Births to Unmarried Women	14,957	22.7
Smoking During Pregnancy	4,400	6.7

*"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 Regarding Colorado Revised Certificate of Live Birth" at end of report for details.*

*\* 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.*

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

## Selected birth characteristics by age group of mother: Colorado residents, 2014

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>	65,816	100.0	903	100.0	2,484	100.0	31,705	100.0	30,699	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	40,495	63.3	282	32.5	947	39.7	17,960	58.4	21,292	71.1
White, Hispanic	14,378	22.5	445	51.2	1,010	42.3	8,094	26.3	4,827	16.1
Black	3,749	5.9	58	6.7	204	8.6	2,147	7.0	1,340	4.5
Asian American/Pacific Islander	2,933	4.6	18	2.1	48	2.0	1,168	3.8	1,699	5.7
American Indian/Native Alaskan	693	1.1	10	1.2	45	1.9	413	1.3	222	0.7
Other	1,741	2.7	56	6.4	131	5.5	973	3.2	581	1.9
Unknown	1,827		34		99		950		738	
<b>Low Weight Births (&lt;2,500 Grams)</b>	5,779	8.8	96	10.6	225	9.1	2,775	8.8	2,680	8.7
Very Low Weight Births (<1,500 Grams)	811	1.2	16	1.8	39	1.6	370	1.2	385	1.3
<b>Prenatal Care Later than 1st Trimester/No Care</b>	12,487	19.7	352	40.6	771	32.2	6,877	22.4	4,483	15.2
No Prenatal Care	1,359	2.1	30	3.5	81	3.4	758	2.5	489	1.7
<b>Preterm Births (&lt;37 Weeks)</b>	5,516	8.4	82	9.1	215	8.7	2,567	8.1	2,650	8.6
<b>Education of Mother &lt;High School Diploma/GED</b>	7,939	12.2	789	88.6	818	33.2	3,928	12.5	2,403	7.9
<b>Live Births to Unmarried Women</b>	14,957	22.7	813	90.0	1,612	64.9	9,059	28.6	3,470	11.3
<b>Smoking During Pregnancy</b>	4,400	6.7	66	7.3	253	10.2	2,813	8.9	1,265	4.1

*"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 Regarding Colorado Revised Certificate of Live Birth" at end of report for details.*

*\* 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.*

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

## Selected birth characteristics by race/ethnicity of mother: Colorado residents, 2014

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>	40,495	100.0	14,378	100.0	3,749	100.0	2,933	100.0	693	100.0
<b>Age of Mother</b>										
<b>10-17</b>	282	0.7	445	3.1	58	1.5	18	0.6	10	1.4
<b>18-19</b>	947	2.3	1,010	7.0	204	5.4	48	1.6	45	6.5
<b>20-29</b>	17,960	44.4	8,094	56.3	2,147	57.3	1,168	39.8	413	59.6
<b>30+</b>	21,292	52.6	4,827	33.6	1,340	35.7	1,699	57.9	222	32.0
<b>Low Weight Births (&lt;2,500 Grams)</b>	3,353	8.3	1,188	8.3	499	13.3	345	11.8	67	9.7
<b>Very Low Weight Births (&lt;1,500 Grams)</b>	428	1.1	168	1.2	101	2.7	38	1.3	8	1.2
<b>Prenatal Care Later than 1st Trimester/No Care</b>	6,369	16.3	3,502	25.0	1,043	28.9	546	19.5	204	30.9
<b>No Prenatal Care</b>	623	1.6	499	3.6	110	3.1	51	1.8	20	3.0
<b>Preterm Births (&lt;37 Weeks)</b>	3,208	7.9	1,197	8.3	421	11.2	284	9.7	64	9.2
<b>Education of Mother &lt;High School Diploma/GED</b>	1,896	4.7	4,179	29.3	569	15.4	300	10.3	120	17.5
<b>Live Births to Unmarried Women</b>	6,965	17.2	4,631	32.2	1,525	40.7	328	11.2	293	42.3
<b>Smoking During Pregnancy</b>	3,063	7.6	709	4.9	322	8.6	60	2.0	88	12.7

*"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 Regarding Colorado Revised Certificate of Live Birth" at end of report for details.*

*\* 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.*

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

## Selected birth characteristics by area-based poverty status of mother's residence: Colorado residents, 2014

Characteristic	<10%		10-19.9%		20-29.9%		30%+		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Total Live Births</b>	28,536	100.0	18,960	100.0	10,344	100.0	6,341	100.0	1,635	100.0
<b>Race/Ethnicity of Mother</b>										
White, Non-Hispanic	21,120	75.4	11,635	63.2	4,828	48.5	1,819	30.1	1,093	69.8
White, Hispanic	3,711	13.3	4,406	23.9	3,182	32.0	2,807	46.4	272	17.4
Black	982	3.5	938	5.1	1,005	10.1	778	12.9	46	2.9
Asian American/Pacific Islander	1,521	5.4	632	3.4	390	3.9	330	5.5	60	3.8
American Indian/Native Alaskan	156	0.6	248	1.3	143	1.4	94	1.6	52	3.3
Other	515	1.8	552	3.0	411	4.1	219	3.6	44	2.8
Unknown	531		549		385		294		68	
<b>Low Weight Births (&lt;2,500 Grams)</b>	2,357	8.3	1,681	8.9	969	9.4	611	9.6	161	9.9
Very Low Weight Births (<1,500 Grams)	313	1.1	243	1.3	142	1.4	92	1.5	21	1.3
<b>Prenatal Care Later than 1st Trimester/No Care</b>	4,241	15.4	3,769	20.6	2,428	24.3	1,675	27.2	374	24.4
No Prenatal Care	347	1.3	409	2.2	268	2.7	293	4.8	42	2.7
<b>Preterm Births (&lt;37 Weeks)</b>	2,293	8.0	1,593	8.4	909	8.8	565	8.9	156	9.6
<b>Education of Mother &lt;High School Diploma/GED</b>	1,425	5.0	2,517	13.4	1,951	19.1	1,849	29.5	197	12.3
<b>Live Births to Unmarried Women</b>	4,365	15.3	4,935	26.0	3,224	31.2	2,075	32.7	358	21.9
<b>Smoking During Pregnancy</b>	1,175	4.1	1,521	8.0	1,030	10.0	538	8.5	136	8.3

*Area-based poverty status represents the percentage of population in the census tract of maternal residence living at or below the federal poverty level, based on the 2013 5-Year American Community Survey.*

*Census tracts of maternal residence were determined by linking the maternal residence address at the time of infant birth to its respective census tract as defined by the 2010 U.S. census-designated boundaries. See "Notes Regarding Colorado Area-Based Poverty Estimates" at end of report for details.*

*"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 Regarding Colorado Revised Certificate of Live Birth" at end of report for details.*

*\* 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.*

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

## Live births and fertility rates with 95% confidence limits by age group of mother: Colorado residents, 2014

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	65,816	1,075,584	61.2	60.7	61.6
<b>Teen Age Groups</b>					
13-14	26	71,131	0.4	0.2	0.5
15-17	877	100,778	8.7	8.1	9.3
18-19	2,484	72,364	34.3	33.0	35.7
10-17	903	279,148	3.2	3.0	3.4
10-19	3,387	351,512	9.6	9.3	10.0
<b>All Age Groups</b>					
10-14	26	178,370	0.1	0.1	0.2
15-19	3,361	173,142	19.4	18.8	20.1
20-24	13,077	177,189	73.8	72.6	75.0
25-29	18,628	175,884	105.9	104.5	107.4
30-34	19,168	192,376	99.6	98.3	101.0
35-39	9,341	178,344	52.4	51.3	53.4
40-49	2,182	351,730	6.2	5.9	6.5

*\* 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.*

*Lower and upper limits represent the 95% confidence interval of the fertility rate.*

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

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

## Vital statistics summary: Colorado residents, 2004, 2010-2014

	2004	2010	2011	2012	2013	2014	2010-2014 Annual Average
<b>Total Population</b>	4,608,811	5,049,935	5,120,193	5,191,979	5,270,986	5,353,471	5,197,313
<b>Total Births</b>							
Number	68,475	66,346	65,052	65,188	65,004	65,816	65,481
Birth Rate	14.9	13.1	12.7	12.6	12.3	12.3	12.6
General Fertility Rate	68.7	64.5	62.7	62.2	61.3	61.2	62.4
<b>Age of Mother 10-17</b>							
Number	2,457	1,745	1,426	1,186	1,148	903	1,282
Percent of Total Births	3.6	2.6	2.2	1.8	1.8	1.4	2.0
Fertility Rate	9.7	6.7	5.4	4.4	4.2	3.2	4.8
<b>Low Weight Births (&lt;2,500 Grams)</b>							
Number	6,172	5,816	5,659	5,762	5,728	5,779	5,749
Percent	9.0	8.8	8.7	8.8	8.8	8.8	8.8
<b>Prenatal Care Later Than 1st Trimester/No Care</b>							
Number	13,296	13,657	13,071	12,465	12,039	12,487	12,744
Percent	19.8	21.0	20.6	19.8	19.2	19.7	20.1
<b>Births to Unmarried Women</b>							
Number	18,823	16,022	15,616	15,253	15,215	14,957	15,413
Percent	27.5	24.1	24.0	23.4	23.4	22.7	23.5
<b>Mother's Education &lt;12 Years</b>							
Number	15,469	12,119	10,540	9,368	8,690	7,939	9,731
Percent	22.8	18.5	16.4	14.5	13.5	12.2	15.0
<b>Infant Deaths</b>							
Number	432	392	362	298	331	315	340
Rate	6.3	5.9	5.6	4.6	5.1	4.8	5.2
<b>Neonatal Deaths</b>							
Number	304	287	257	212	239	238	247
Rate	4.4	4.3	4.0	3.3	3.7	3.6	3.8
<b>Total Deaths</b>							
Number	28,227	31,435	32,566	33,127	33,717	35,194	33,208
Crude Rate	612.5	622.5	636.0	638.0	639.7	657.4	638.9
Age-Adjusted Rate	738.0	676.8	675.1	661.5	649.4	657.3	663.6
<b>Cardiovascular Disease</b>							
Number	8,652	8,283	8,493	8,554	8,762	9,204	8,659
Age-Adjusted Rate	235.6	181.7	178.8	172.5	170.1	172.9	175.0
<b>Heart Disease</b>							

(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, comparisons of values from 2007-forward to pre-2007 values should be made with caution. See "Notes Regarding Colorado Revised Certificate of Live Birth" at end of report for details.

\* 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: Vital Statistics Program, Colorado Department of Public Health and Environment.

## Vital statistics summary: Colorado residents, 2004, 2010-2014

	2004	2010	2011	2012	2013	2014	2010-2014 Annual Average
<b>Number</b>	6,047	6,029	6,207	6,306	6,454	6,779	6,355
<b>Age-Adjusted Rate</b>	163.2	131.5	129.9	126.3	124.2	126.5	127.6
<b>Cerebrovascular Disease</b>							
<b>Number</b>	1,633	1,605	1,607	1,565	1,576	1,692	1,609
<b>Age-Adjusted Rate</b>	45.0	35.7	34.5	32.2	31.4	32.5	33.2
<b>Malignant Neoplasms</b>							
<b>Number</b>	6,185	7,029	7,037	7,314	7,364	7,289	7,207
<b>Age-Adjusted Rate</b>	159.2	148.2	142.8	142.6	138.3	133.0	140.7
<b>Lung Cancer</b>							
<b>Number</b>	1,499	1,635	1,588	1,590	1,558	1,564	1,587
<b>Age-Adjusted Rate</b>	39.0	34.9	32.5	31.3	29.5	28.5	31.2
<b>Breast Cancer</b>							
<b>Number</b>	511	534	553	585	537	553	552
<b>Age-Adjusted Rate</b>	12.5	11.0	10.8	11.1	9.9	9.9	10.5
<b>Total Unintentional Injuries</b>							
<b>Number</b>	1,791	2,102	2,317	2,404	2,423	2,413	2,332
<b>Age-Adjusted Rate</b>	41.7	43.1	46.1	46.9	46.2	45.0	45.5
<b>Motor Vehicle</b>							
<b>Number</b>	691	480	482	457	507	486	482
<b>Age-Adjusted Rate</b>	15.1	9.4	9.3	8.7	9.5	9.0	9.2
<b>Other Unintentional Injuries</b>							
<b>Number</b>	1,100	1,622	1,835	1,947	1,916	1,927	1,849
<b>Age-Adjusted Rate</b>	26.6	33.7	36.7	38.2	36.7	36.0	36.3
<b>Chronic Lower Respiratory Diseases</b>							
<b>Number</b>	1,899	2,199	2,161	2,237	2,294	2,419	2,262
<b>Age-Adjusted Rate</b>	52.1	49.3	46.4	46.3	45.5	46.2	46.7
<b>Suicide</b>							
<b>Number</b>	792	867	910	1,053	1,004	1,058	978
<b>Age-Adjusted Rate</b>	17.0	16.7	17.4	19.7	18.5	19.4	18.4
<b>Homicide and Legal Intervention</b>							
<b>Number</b>	231	190	202	208	194	181	195
<b>Age-Adjusted Rate</b>	4.9	3.8	3.9	4.0	3.8	3.4	3.8
<b>Work-Related Injury</b>							
<b>Number</b>	82	75	72	73	64	76	72
<b>Age-Adjusted Rate</b>	1.7	1.4	1.3	1.3	1.2	1.4	1.3

**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, comparisons of values from 2007-forward to pre-2007 values should be made with caution. See "Notes Regarding Colorado Revised Certificate of Live Birth" at end of report for details.

\* 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: Vital Statistics Program, Colorado Department of Public Health and Environment.



**Deaths, crude death rates and age-adjusted death rates with 95% confidence limits from selected causes: Colorado residents, 2014**

<b>Cause of Death</b>	<b>N</b>	<b>Crude Rate</b>	<b>Age-Adjusted Rate</b>	<b>Lower Limit</b>	<b>Upper Limit</b>
<b>All Causes</b>	35,188	657.3	657.2	650.4	664.0
<b>Cardiovascular Disease</b>	9,204	171.9	172.9	169.3	176.4
<b>Heart Disease</b>	6,779	126.6	126.5	123.5	129.6
<b>Cerebrovascular Disease</b>	1,692	31.6	32.5	30.9	34.1
<b>Atherosclerosis</b>	233	4.4	4.5	3.9	5.0
<b>Malignant Neoplasms</b>	7,289	136.2	133.0	129.9	136.1
<b>Lung Cancer</b>	1,564	29.2	28.5	27.1	29.9
<b>Breast Cancer</b>	553	10.3	9.9	9.1	10.7
<b>Chronic Lower Respiratory Diseases</b>	2,419	45.2	46.2	44.3	48.1
<b>Unintentional Injuries</b>	2,413	45.1	45.0	43.2	46.9
<b>Motor Vehicle</b>	486	9.1	9.0	8.2	9.8
<b>Other Unintentional Injuries</b>	1,903	35.5	35.6	34.0	37.3
<b>Pneumonia and Influenza</b>	691	12.9	12.9	12.0	13.9
<b>Suicide</b>	1,058	19.8	19.4	18.2	20.6
<b>Diabetes Mellitus</b>	826	15.4	15.2	14.2	16.3
<b>HIV Infection</b>	52	1.0	0.9	0.7	1.2
<b>Chronic Liver Disease and Cirrhosis</b>	730	13.6	12.4	11.5	13.4
<b>Alzheimer's Disease</b>	1,349	25.2	26.6	25.2	28.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	443	8.3	8.3	7.5	9.1
<b>Homicide and Legal Intervention</b>	181	3.4	3.4	2.9	3.9
<b>Septicemia</b>	444	8.3	8.3	7.5	9.0
<b>Congenital Anomalies</b>	154	2.9	2.9	2.4	3.3
<b>Perinatal Period Conditions</b>	155	2.9	3.2	2.7	3.7
<b>All Other</b>	7,780	145.3	146.4	143.2	149.7
<b>Injury by Firearm</b>	649	12.1	12.0	11.0	12.9
<b>Drug-Induced Deaths</b>	889	16.6	16.1	15.1	17.2
<b>Alcohol-Induced Deaths</b>	801	15.0	13.5	12.5	14.4
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	76	1.4	1.4	1.1	1.7

*\* 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.*

*Lower and upper limits represent the 95% confidence interval of the age-adjusted rate.*

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

## Deaths and age-specific death rates from selected causes: Colorado residents, 2014

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	315	4.8	151	0.2	468	0.6	1,986	1.3	7,122	5.1	25,151	36.9
Cardiovascular Disease	*	*	5	0.0	14	0.0	200	0.1	1,517	1.1	7,466	11.0
Heart Disease	0	0.0	*	*	9	0.0	158	0.1	1,234	0.9	5,376	7.9
Cerebrovascular Disease	*	*	3	0.0	3	0.0	34	0.0	181	0.1	1,469	2.2
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	10	0.0	223	0.3
Malignant Neoplasms	0	0.0	25	0.0	21	0.0	204	0.1	1,954	1.4	5,085	7.5
Lung Cancer	0	0.0	*	*	0	0.0	5	0.0	371	0.3	1,187	1.7
Breast Cancer	0	0.0	0	0.0	0	0.0	39	0.0	191	0.1	323	0.5
Chronic Lower Respiratory Diseases	0	0.0	*	*	*	*	11	0.0	310	0.2	2,096	3.1
Unintentional Injuries	19	0.3	31	0.0	186	0.3	547	0.4	615	0.4	1,015	1.5
Motor Vehicle	0	0.0	14	0.0	100	0.1	143	0.1	139	0.1	90	0.1
Other Unintentional Injuries	19	0.3	17	0.0	86	0.1	404	0.3	476	0.3	925	1.4
Pneumonia and Influenza	4	0.1	7	0.0	4	0.0	35	0.0	130	0.1	511	0.8
Suicide	0	0.0	19	0.0	125	0.2	362	0.2	375	0.3	177	0.3
Diabetes Mellitus	0	0.0	*	*	4	0.0	47	0.0	196	0.1	578	0.8
HIV Infection	0	0.0	0	0.0	3	0.0	10	0.0	36	0.0	3	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	0	0.0	107	0.1	423	0.3	200	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	9	0.0	1,340	2.0
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	0	0.0	*	*	3	0.0	57	0.0	380	0.6
Homicide and Legal Intervention	*	*	10	0.0	40	0.1	76	0.1	39	0.0	14	0.0
Septicemia	*	*	0	0.0	0	0.0	18	0.0	106	0.1	318	0.5
Congenital Anomalies	67	1.0	13	0.0	*	*	12	0.0	44	0.0	17	0.0
Perinatal Period Conditions	155	2.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	63	1.0	39	0.0	67	0.1	354	0.2	1,311	0.9	5,951	8.7
Injury by Firearm	0	0.0	7	0.0	103	0.1	212	0.1	191	0.1	136	0.2
Drug-Induced Deaths	*	*	*	*	68	0.1	380	0.3	378	0.3	61	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	4	0.0	149	0.1	501	0.4	147	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	3	0.0	27	0.0	35	0.0	11	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: Vital Statistics Program, Colorado Department of Public Health and Environment.

## Deaths from selected causes by race/ethnicity: Colorado residents, 2014

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>	35,194	100.0	28,735	100.0	3,879	100.0	1,278	100.0	499	100.0	292	100.0
<b>Cardiovascular Disease</b>	9,204	26.2	7,837	27.3	826	21.3	356	27.9	124	24.8	61	20.9
Heart Disease	6,779	19.3	5,821	20.3	562	14.5	259	20.3	87	17.4	50	17.1
Cerebrovascular Disease	1,692	4.8	1,413	4.9	183	4.7	59	4.6	30	6.0	7	2.4
Atherosclerosis	233	0.7	199	0.7	24	0.6	8	0.6	*	*	*	*
<b>Malignant Neoplasms</b>	7,289	20.7	6,132	21.3	746	19.2	262	20.5	104	20.8	43	14.7
Lung Cancer	1,564	4.4	1,363	4.7	113	2.9	59	4.6	18	3.6	11	3.8
Breast Cancer	553	1.6	453	1.6	71	1.8	21	1.6	5	1.0	3	1.0
<b>Chronic Lower Respiratory Disease</b>	2,419	6.9	2,167	7.5	163	4.2	50	3.9	22	4.4	16	5.5
<b>Unintentional Injuries</b>	2,413	6.9	1,911	6.7	357	9.2	71	5.6	39	7.8	34	11.6
Motor Vehicle	486	1.4	358	1.2	101	2.6	10	0.8	10	2.0	7	2.4
Other Unintentional Injuries	1,927	5.5	1,553	5.4	256	6.6	61	4.8	29	5.8	27	9.2
<b>Pneumonia and Influenza</b>	691	2.0	571	2.0	87	2.2	19	1.5	9	1.8	5	1.7
<b>Suicide</b>	1,058	3.0	891	3.1	118	3.0	18	1.4	24	4.8	5	1.7
<b>Diabetes Mellitus</b>	826	2.3	542	1.9	208	5.4	49	3.8	14	2.8	12	4.1
<b>HIV Infection</b>	52	0.1	26	0.1	12	0.3	11	0.9	*	*	*	*
<b>Chronic Liver Disease and Cirrhosis</b>	730	2.1	469	1.6	211	5.4	19	1.5	6	1.2	25	8.6
<b>Alzheimer's Disease</b>	1,349	3.8	1,196	4.2	94	2.4	39	3.1	16	3.2	3	1.0
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	443	1.3	332	1.2	73	1.9	18	1.4	14	2.8	6	2.1
<b>Homicide and Legal Intervention</b>	181	0.5	86	0.3	57	1.5	27	2.1	*	*	10	3.4
<b>Septicemia</b>	444	1.3	353	1.2	64	1.6	18	1.4	4	0.8	5	1.7
<b>Congenital Anomalies</b>	154	0.4	104	0.4	31	0.8	16	1.3	*	*	0	0.0
<b>Perinatal Period Conditions</b>	155	0.4	83	0.3	42	1.1	22	1.7	7	1.4	0	0.0
<b>All Other</b>	7,786	22.1	6,035	21.0	790	20.4	283	22.1	112	22.4	65	22.3
<b>Injury by Firearm</b>	649	1.8	526	1.8	84	2.2	27	2.1	4	0.8	7	2.4
<b>Drug-Induced Deaths</b>	889	2.5	684	2.4	134	3.5	42	3.3	8	1.6	20	6.8
<b>Alcohol-Induced Deaths</b>	801	2.3	567	2.0	178	4.6	26	2.0	3	0.6	26	8.9
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	76	0.2	57	0.2	17	0.4	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: Vital Statistics Program, Colorado Department of Public Health and Environment.

## Deaths from selected causes by area-based poverty status of decedent's residence: Colorado residents, 2014

Cause of Death	<10%		10-19.9%		20-29.9%		30%+		Unknown	
	N	%	N	%	N	%	N	%	N	%
<b>Total</b>	14,006	100.0	11,519	100.0	5,972	100.0	2,611	100.0	1,086	100.0
<b>Cardiovascular Disease</b>	3,656	26.1	3,053	26.5	1,575	26.4	681	26.1	239	22.0
Heart Disease	2,669	19.1	2,269	19.7	1,176	19.7	483	18.5	182	16.8
Cerebrovascular Disease	689	4.9	544	4.7	279	4.7	136	5.2	44	4.1
Atherosclerosis	96	0.7	73	0.6	40	0.7	21	0.8	3	0.3
<b>Malignant Neoplasms</b>	3,216	23.0	2,311	20.1	1,084	18.2	474	18.2	204	18.8
Lung Cancer	654	4.7	528	4.6	238	4.0	102	3.9	42	3.9
Breast Cancer	250	1.8	159	1.4	84	1.4	41	1.6	19	1.7
<b>Chronic Lower Respiratory Disease</b>	836	6.0	872	7.6	460	7.7	183	7.0	68	6.3
<b>Unintentional Injuries</b>	876	6.3	768	6.7	447	7.5	210	8.0	112	10.3
Motor Vehicle	186	1.3	159	1.4	87	1.5	40	1.5	14	1.3
Other Unintentional Injuries	690	4.9	609	5.3	360	6.0	170	6.5	98	9.0
<b>Pneumonia and Influenza</b>	268	1.9	219	1.9	113	1.9	70	2.7	21	1.9
<b>Suicide</b>	438	3.1	332	2.9	153	2.6	84	3.2	51	4.7
<b>Diabetes Mellitus</b>	251	1.8	290	2.5	170	2.8	90	3.4	25	2.3
<b>HIV Infection</b>	10	0.1	15	0.1	15	0.3	10	0.4	*	*
<b>Chronic Liver Disease and Cirrhosis</b>	232	1.7	237	2.1	135	2.3	101	3.9	25	2.3
<b>Alzheimer's Disease</b>	615	4.4	423	3.7	213	3.6	69	2.6	29	2.7
<b>Nephritis, Nephrosis, Nephrotic Syndrome</b>	157	1.1	156	1.4	80	1.3	35	1.3	15	1.4
<b>Homicide and Legal Intervention</b>	40	0.3	60	0.5	43	0.7	29	1.1	9	0.8
<b>Septicemia</b>	156	1.1	148	1.3	87	1.5	39	1.5	14	1.3
<b>Congenital Anomalies</b>	50	0.4	58	0.5	34	0.6	9	0.3	3	0.3
<b>Perinatal Period Conditions</b>	58	0.4	41	0.4	29	0.5	26	1.0	*	*
<b>All Other</b>	3,147	22.5	2,536	22.0	1,334	22.3	501	19.2	268	24.7
<b>Injury by Firearm</b>	270	1.9	200	1.7	93	1.6	56	2.1	30	2.8
<b>Drug-Induced Deaths</b>	285	2.0	289	2.5	173	2.9	100	3.8	42	3.9
<b>Alcohol-Induced Deaths</b>	250	1.8	246	2.1	163	2.7	107	4.1	35	3.2
<b>Work-Related Injury (Y/N Check Death Certificate)</b>	38	0.3	27	0.2	6	0.1	3	0.1	*	*

*Area-based poverty status represents the percentage of population in the census tract of decedent's residence living at or below the federal poverty level, based on the 2013 5-Year American Community Survey. Census tracts of decedent residence were determined by linking the decedent residence address at the time of death to its respective census tract as defined by the 2010 U.S. census-designated boundaries. See "Notes Regarding Colorado Area-Based Poverty Estimates" at end of report for details.*

*\* indicates one or two events in the category. Percentages are of total deaths of each race/ethnicity category.*

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

## Deaths and age-specific death rates: Colorado residents, 2014

Age Group	Deaths	Population	Age-Specific Death Rate
All Ages	35,188	5,353,471	6.6
Infant	315	65,816	4.8
Neonatal	238	65,816	3.6
1-4	59	268,689	0.2
5-9	34	360,607	0.1
10-14	57	362,260	0.2
15-19	159	356,266	0.4
20-24	309	372,810	0.8
25-29	374	358,696	1.0
30-34	435	393,558	1.1
35-39	488	365,104	1.3
40-44	687	366,438	1.9
45-49	895	349,466	2.6
50-54	1,496	377,955	4.0
55-59	2,121	362,540	5.9
60-64	2,609	311,680	8.4
65-69	2,942	245,029	12.0
70-74	3,227	162,833	19.8
75-79	3,476	110,510	31.5
80-84	4,468	78,919	56.6
85+	11,036	83,691	131.9
1-14	150	991,557	0.2
15-24	468	729,075	0.6
25-64	9,105	2,885,437	3.2
65+	25,149	680,982	36.9

*\* 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: Vital Statistics Program, 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 and Evaluation Branch at the Colorado Department of Public Health and Environment is available to assist with further 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 and Evaluation Branch at **(303) 692-2160** or by e-mail at [cdphe.healthstatistics@state.co.us](mailto:cdphe.healthstatistics@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).

## Notes Regarding Colorado's Area-Based Poverty Estimates

Poverty continues to be an important factor that increases the risk of adverse birth outcomes, disease, and mortality across all ages. The relationships between poverty and such outcomes are unsurprising given the socioeconomic differences in health behaviors, familial and other risk factors, access to appropriate prenatal and preventive health care and treatment for illness and disease. Consequently, considering poverty when exploring changes in the health status of Colorado's communities and the persistence of health disparities by poverty status are increasingly important<sup>1,2,3</sup>.

These summary tables now contain counts and proportions of births and deaths by area-based poverty status of place of residence. *Area-based poverty status represents the percentage of the population in the census tract of residence living at or below the federal poverty level.*

Place of residence is based on the maternal self-reported residence address at the time of an infant's birth for birth statistics, and the residence address of decedent at the time of death, collected from next of kin, for death statistics. Census tracts of residence are determined by linking these addresses to their respective census tracts as defined by the 2010 U.S. Census-designated boundaries. The percentage of the population in a census tract living at or below the federal poverty level of census tracts is ascertained from the most current 5-Year American Community Survey estimates made available by the U.S. Census Bureau.

Colorado consists of 1,249 unique census tracts, which are formal sub-county geographic areas defined by the U.S. Census Bureau, confined by county boundaries, and typically represent between 1,200 and 8,000 people. Counties with large populations, such as in the state's large metropolitan areas, contain many census tracts; while counties with smaller populations, such as in the state's rural and mountain regions, may have only a couple of census tracts<sup>4</sup>.

Area-based poverty status is measured by calculating the percent of the population in each census tract that is living at or below the federal poverty level. Whether one is living at or below the federal poverty level is determined using a set of money income thresholds that vary by family size, age and composition<sup>5</sup>. Categories used for these reports include 0-9.9%, 10-19.9%, 20-29.9% and 30% of the population or greater living at or below the federal poverty level.

The map on the following page depicts census tract boundaries for Colorado and its largest metropolitan areas and each census tract's poverty status. Note that for some less populous counties with few census tracts, a single area-based poverty status category may represent most or all of the county.

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

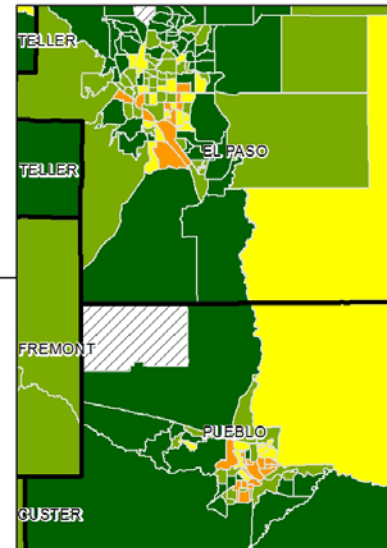
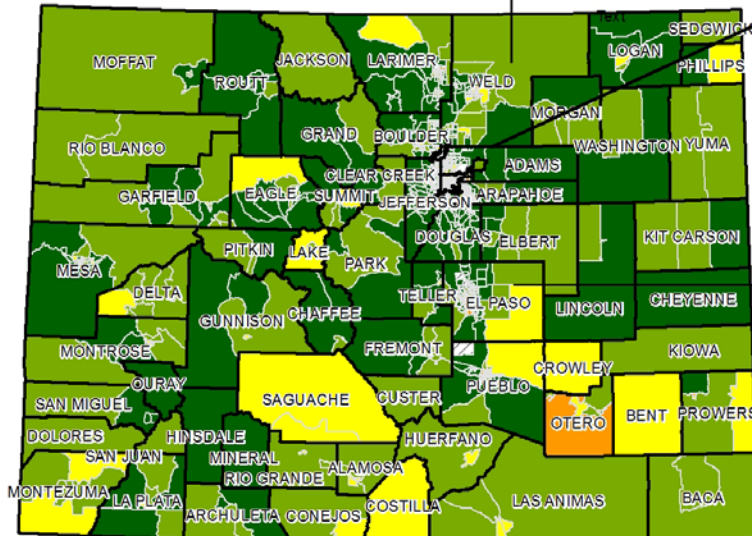
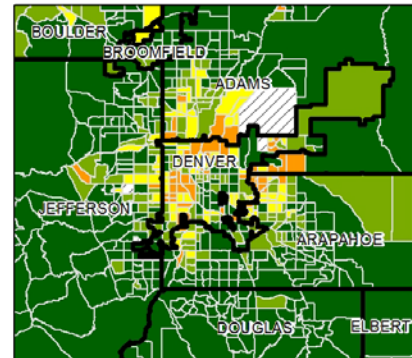
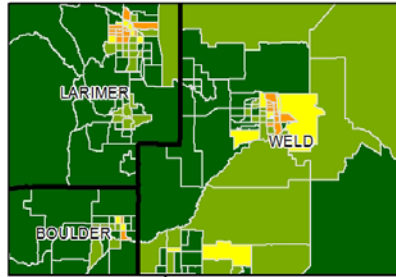
### References:

- <sup>1</sup> Krieger N, Chen JT, Ebel G. *Can we monitor socioeconomic inequalities in health? A survey of U.S. health departments' data collection and reporting practices.* Public Health Reports. 1997 Nov-Dec; 112(6):481-91.
- <sup>2</sup> Subramanian SV, Chen JT, Rehkopf DH, Waterman PD, Krieger N. *Comparing individual- and area-based socioeconomic measures for the surveillance of health disparities: A multilevel analysis of Massachusetts births, 1989-1991.* American Journal of Epidemiology. 2006 Nov 1; 164(9): 823-834.
- <sup>3</sup> Colorado Comprehensive Cancer Program. *Cancer & Poverty in Colorado: 1995-2006.* Denver, CO: Colorado Department of Public Health and Environment. Available from: <http://www.colorado.gov/cs/Satellite/CDPHE-PSD/CBON/1251635536890#>
- <sup>4</sup> *Geographic Terms and Concepts – Census Tract.* United States Census Bureau. Available from: [www.census.gov/geo/reference/gtc/gtc\\_ct.html](http://www.census.gov/geo/reference/gtc/gtc_ct.html)
- <sup>5</sup> *How the Census Bureau Measures Poverty.* United States Census Bureau. Available from: <https://www.census.gov/hhes/www/poverty/about/overview/measure.html>

**Area-based poverty status by Colorado census tracts:  
Percent of population living at or below federal poverty level**

- 0%-9.9%
- 10%-19.9%
- 20%-29.9%
- 30%+

To few population to estimate



Source: 2008-2012 5-Year American Community Survey, U.S. Census Bureau