

Colorado Births and Deaths 2015

Selected birth characteristics: Colorado residents, 2015.....	2
Selected birth characteristics by age group of mother: Colorado residents, 2015.....	3
Selected birth characteristics by race/ethnicity of mother: Colorado residents, 2015	4
Selected birth characteristics by area-based poverty status of mother's residence: Colorado residents,2015	5
Live births and fertility rates by age group of mother: Colorado residents, 2015.....	6
Vital statistics summary: Colorado residents, 2005, 2011-2015.....	7
Deaths, crude death rates and age-adjusted death rates from selected causes: Colorado residents, 2015.....	9
Deaths and age-specific death rates from selected causes: Colorado residents, 2015.....	10
Deaths from selected causes by race/ethnicity: Colorado residents, 2015	11
Deaths from selected causes by area-based poverty status of decedent's residence: Colorado residents, 2015	12
Deaths and age-specific death rates: Colorado residents, 2015	13
Notes Regarding Colorado Revised Certificate of Live Birth	14
Notes Regarding Colorado Area-Based Poverty Estimates	15

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.

Selected birth characteristics: Colorado residents, 2015

Characteristic	Number	Percent
Total Live Births	66,566	100.0
Age of Mother		
10-17	873	1.3
18-19	2,406	3.6
20-29	31,267	47.0
30+	31,978	48.1
Low Weight Births (<2,500 Grams)	6,007	9.0
Very Low Weight Births (<1,500 Grams)	769	1.2
Prenatal Care Later than 1st Trimester/No Care	12,742	19.9
No Prenatal Care	1,940	3.0
Preterm Births (<37 Weeks)	5,761	8.7
Education of Mother <High School Diploma/GED	8,102	12.3
Live Births to Unmarried Women	15,334	23.1
Smoking During Pregnancy	4,217	6.4

"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, 2015

Characteristic	All Ages		10-17		18-19		20-29		30+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	66,566	100.0	873	100.0	2,406	100.0	31,267	100.0	31,978	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	40,726	63.0	247	29.8	928	40.2	17,436	57.6	22,090	70.8
White, Hispanic	14,591	22.6	435	52.4	977	42.3	8,155	26.9	5,018	16.1
Black	3,828	5.9	60	7.2	200	8.7	2,113	7.0	1,455	4.7
Asian American/Pacific Islander	2,906	4.5	13	1.6	49	2.1	1,119	3.7	1,724	5.5
American Indian/Native Alaskan	731	1.1	20	2.4	45	1.9	404	1.3	260	0.8
Other	1,857	2.9	55	6.6	111	4.8	1,039	3.4	651	2.1
Unknown	1,927		43		96		1,001		780	
Low Weight Births (<2,500 Grams)	6,007	9.0	93	10.7	291	12.1	2,731	8.7	2,885	9.0
Very Low Weight Births (<1,500 Grams)	769	1.2	13	1.5	39	1.6	332	1.1	382	1.2
Prenatal Care Later than 1st Trimester/No Care	12,742	19.9	341	39.8	746	32.0	6,731	22.3	4,923	16.0
No Prenatal Care	1,940	3.0	43	5.0	82	3.5	981	3.2	833	2.7
Preterm Births (<37 Weeks)	5,761	8.7	85	9.7	233	9.7	2,527	8.1	2,910	9.1
Education of Mother <High School Diploma/GED	8,102	12.3	763	89.3	841	35.2	3,894	12.6	2,602	8.2
Live Births to Unmarried Women	15,334	23.0	806	92.3	1,590	66.1	9,151	29.3	3,782	11.8
Smoking During Pregnancy	4,217	6.4	53	6.1	240	10.0	2,634	8.4	1,287	4.0

"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, 2015

Characteristic	White Non-Hispanic		White Hispanic		Black		Asian American/Pacific Islander		American Indian/Native Alaskan	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	40,726	100.0	14,591	100.0	3,828	100.0	2,906	100.0	731	100.0
Age of Mother										
10-17	247	0.6	435	3.0	60	1.6	13	0.4	20	2.7
18-19	928	2.3	977	6.7	200	5.2	49	1.7	45	6.2
20-29	17,436	42.8	8,155	55.9	2,113	55.2	1,119	38.5	404	55.3
30+	22,090	54.2	5,018	34.4	1,455	38.0	1,724	59.3	260	35.6
Low Weight Births (<2,500 Grams)	3,453	8.5	1,288	8.8	497	13.0	327	11.3	71	9.7
Very Low Weight Births (<1,500 Grams)	408	1.0	171	1.2	86	2.2	45	1.5	7	1.0
Prenatal Care Later than 1st Trimester/No Care	6,479	16.5	3,628	25.4	1,035	28.3	544	19.7	208	29.5
No Prenatal Care	1,094	2.8	592	4.2	108	3.0	76	2.7	20	2.8
Preterm Births (<37 Weeks)	3,332	8.2	1,296	8.9	427	11.2	279	9.6	67	9.2
Education of Mother <High School Diploma/GED	1,930	4.8	4,192	29.0	615	16.3	262	9.1	141	19.6
Live Births to Unmarried Women	7,169	17.6	4,651	31.9	1,530	40.0	312	10.7	308	42.1
Smoking During Pregnancy	2,937	7.2	719	4.9	289	7.6	66	2.3	57	7.8

"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, 2015

Characteristic	<10%		10-19.9%		20-29.9%		30%+		Unknown	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total Live Births	29,117	100.0	19,958	100.0	9,621	100.0	6,114	100.0	1,756	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	21,362	74.7	12,062	62.2	4,314	46.9	1,834	31.6	1,154	68.9
White, Hispanic	3,894	13.6	4,673	24.1	3,169	34.5	2,569	44.3	286	17.1
Black	1,079	3.8	1,083	5.6	859	9.3	721	12.4	86	5.1
Asian American/Pacific Islander	1,511	5.3	662	3.4	351	3.8	321	5.5	61	3.6
American Indian/Native Alaskan	199	0.7	240	1.2	142	1.5	102	1.8	48	2.9
Other	538	1.9	668	3.4	356	3.9	254	4.4	41	2.4
Unknown	534		570		430		313		80	
Low Weight Births (<2,500 Grams)	2,391	8.2	1,807	9.1	1,010	10.5	627	10.3	172	9.8
Very Low Weight Births (<1,500 Grams)	292	1.0	226	1.1	135	1.4	89	1.5	27	1.5
Prenatal Care Later than 1st Trimester/No Care	4,380	15.6	4,128	21.5	2,231	24.0	1,631	27.5	372	22.4
No Prenatal Care	656	2.3	602	3.1	278	3.0	328	5.5	76	4.6
Preterm Births (<37 Weeks)	2,393	8.2	1,719	8.6	928	9.6	567	9.3	154	8.8
Education of Mother <High School Diploma/GED	1,605	5.6	2,606	13.2	1,972	20.7	1,758	29.1	161	9.3
Live Births to Unmarried Women	4,732	16.3	5,084	25.5	3,126	32.5	2,013	32.9	379	21.6
Smoking During Pregnancy	1,168	4.0	1,494	7.5	885	9.2	537	8.8	133	7.6

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 2014 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, 2015

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	66,566	1,097,014	60.7	60.2	61.1
Teen Age Groups					
13-14	29	72,082	0.4	0.2	0.6
15-17	844	104,462	8.1	7.5	8.6
18-19	2,406	72,712	33.1	31.8	34.4
10-17	873	286,347	3.0	2.8	3.3
10-19	3,279	359,059	9.1	8.8	9.4
All Age Groups					
10-14	29	181,885	0.2	0.1	0.2
15-19	3,250	177,174	18.3	17.7	19.0
20-24	12,598	182,059	69.2	68.0	70.4
25-29	18,669	176,725	105.6	104.2	107.1
30-34	19,850	196,700	100.9	99.6	102.2
35-39	9,996	185,786	53.8	52.8	54.8
40-49	2,117	354,621	6.0	5.7	6.2

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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, 2005, 2011-2015

	2005	2011	2012	2013	2014	2015	2011-2015 Annual Average
Total Population	4,662,534	5,120,686	5,193,097	5,272,677	5,356,626	5,456,584	5,279,934
Total Births							
Number	68,922	65,052	65,188	65,004	65,816	66,566	65,525
Birth Rate	14.8	12.7	12.6	12.3	12.3	12.2	12.4
General Fertility Rate	69.3	62.7	62.2	61.2	61.1	60.7	61.6
Age of Mother 10-17							
Number	2,377	1,426	1,186	1,148	903	873	1,107
Percent of Total Births	3.4	2.2	1.8	1.8	1.4	1.3	1.7
Fertility Rate	9.4	5.4	4.4	4.2	3.2	3.0	4.0
Low Weight Births (<2,500 Grams)							
Number	6,379	5,659	5,762	5,728	5,779	6,007	5,787
Percent	9.3	8.7	8.8	8.8	8.8	9.0	8.8
Prenatal Care Later Than 1st Trimester/No Care							
Number	13,492	13,071	12,465	12,039	12,487	12,742	12,561
Percent	19.9	20.6	19.8	19.2	19.7	19.9	19.8
Births to Unmarried Women							
Number	18,648	15,616	15,253	15,215	14,957	15,334	15,275
Percent	27.1	24.0	23.4	23.4	22.7	23.0	23.3
Mother's Education <12 Years							
Number	14,967	10,540	9,368	8,690	7,939	8,102	8,928
Percent	22.1	16.4	14.5	13.5	12.2	12.3	13.8
Infant Deaths							
Number	444	362	298	331	315	309	323
Rate	6.4	5.6	4.6	5.1	4.8	4.6	4.9
Neonatal Deaths							
Number	329	257	212	239	238	230	235
Rate	4.8	4.0	3.3	3.7	3.6	3.5	3.6
Total Deaths							
Number	29,521	32,566	33,127	33,717	35,194	36,353	34,191
Crude Rate	633.2	636.0	637.9	639.5	657.0	666.2	647.6
Age-Adjusted Rate	751.9	678.0	663.4	652.3	659.2	659.7	662.3
Cardiovascular Disease							
Number	8,845	8,493	8,554	8,762	9,204	9,563	8,915
Age-Adjusted Rate	233.9	179.7	173.1	171.0	173.5	174.5	174.3
Heart Disease							

(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, 2005, 2011-2015

	2005	2011	2012	2013	2014	2015	2011-2015 Annual Average
Number	6,282	6,207	6,306	6,454	6,779	7,002	6,550
Age-Adjusted Rate	164.9	130.5	126.7	124.9	127.0	126.9	127.2
Cerebrovascular Disease							
Number	1,595	1,607	1,565	1,576	1,692	1,857	1,659
Age-Adjusted Rate	42.8	34.7	32.3	31.6	32.6	34.5	33.1
Malignant Neoplasms							
Number	6,367	7,037	7,314	7,364	7,289	7,597	7,320
Age-Adjusted Rate	159.2	143.4	142.9	138.8	133.3	133.4	138.2
Lung Cancer							
Number	1,523	1,588	1,590	1,558	1,564	1,543	1,569
Age-Adjusted Rate	38.6	32.6	31.3	29.6	28.6	27.3	29.8
Breast Cancer							
Number	524	553	585	537	553	585	563
Age-Adjusted Rate	12.5	10.8	11.2	9.9	9.9	10.2	10.4
Total Unintentional Injuries							
Number	1,928	2,317	2,404	2,423	2,413	2,724	2,456
Age-Adjusted Rate	43.6	46.2	47.0	46.3	45.1	49.6	46.9
Motor Vehicle							
Number	662	482	457	507	486	586	504
Age-Adjusted Rate	14.1	9.3	8.7	9.5	9.0	10.5	9.4
Other Unintentional Injuries							
Number	1,266	1,835	1,947	1,916	1,927	2,138	1,953
Age-Adjusted Rate	29.6	36.8	38.3	36.8	36.1	39.1	37.5
Chronic Lower Respiratory Diseases							
Number	1,908	2,161	2,237	2,294	2,419	2,576	2,337
Age-Adjusted Rate	51.0	46.6	46.5	45.7	46.3	47.4	46.5
Suicide							
Number	795	910	1,053	1,004	1,058	1,093	1,024
Age-Adjusted Rate	17.1	17.4	19.7	18.5	19.4	19.5	18.9
Homicide and Legal Intervention							
Number	190	202	208	194	181	216	200
Age-Adjusted Rate	4.0	3.9	4.0	3.8	3.4	4.0	3.8
Work-Related Injury							
Number	93	72	73	64	76	64	70
Age-Adjusted Rate	1.9	1.3	1.3	1.2	1.4	1.1	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, 2015

Cause of Death	N	Crude Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	36,353	666.2	659.8	653.1	666.5
Cardiovascular Disease	9,564	175.3	174.5	171.0	178.0
Heart Disease	7,003	128.3	126.9	123.9	129.9
Cerebrovascular Disease	1,857	34.0	34.5	32.9	36.1
Atherosclerosis	141	2.6	2.7	2.2	3.1
Malignant Neoplasms	7,597	139.2	133.4	130.4	136.5
Lung Cancer	1,543	28.3	27.3	25.9	28.7
Breast Cancer	585	10.7	10.2	9.4	11.1
Chronic Lower Respiratory Diseases	2,576	47.2	47.4	45.6	49.3
Unintentional Injuries	2,724	49.9	49.6	47.7	51.5
Motor Vehicle	586	10.7	10.5	9.6	11.3
Other Unintentional Injuries	2,105	38.6	38.6	36.9	40.2
Pneumonia and Influenza	658	12.1	12.2	11.3	13.1
Suicide	1,093	20.0	19.5	18.3	20.7
Diabetes Mellitus	884	16.2	15.7	14.7	16.8
HIV Infection	56	1.0	1.0	0.7	1.2
Chronic Liver Disease and Cirrhosis	735	13.5	12.1	11.2	13.0
Alzheimer's Disease	1,611	29.5	30.9	29.4	32.4
Nephritis, Nephrosis, Nephrotic Syndrome	458	8.4	8.4	7.6	9.2
Homicide and Legal Intervention	216	4.0	4.0	3.4	4.5
Septicemia	455	8.3	8.1	7.4	8.9
Congenital Anomalies	141	2.6	2.7	2.2	3.1
Perinatal Period Conditions	174	3.2	3.6	3.0	4.1
All Other	7,411	135.8	136.7	133.5	139.8
Injury by Firearm	698	12.8	12.6	11.6	13.5
Drug-Induced Deaths	904	16.6	16.1	15.1	17.2
Alcohol-Induced Deaths	847	15.5	14.2	13.2	15.2
Work-Related Injury (Y/N Check Death Certificate)	64	1.2	1.1	0.8	1.4

** 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, 2015

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	309	4.6	148	0.1	520	0.7	2,002	1.3	7,268	5.1	26,106	36.7
Cardiovascular Disease	3	0.0	6	0.0	13	0.0	189	0.1	1,588	1.1	7,765	10.9
Heart Disease	*	*	4	0.0	10	0.0	148	0.1	1,288	0.9	5,551	7.8
Cerebrovascular Disease	*	*	*	*	*	*	29	0.0	210	0.1	1,614	2.3
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0	138	0.2
Malignant Neoplasms	0	0.0	20	0.0	13	0.0	207	0.1	2,048	1.4	5,309	7.5
Lung Cancer	0	0.0	0	0.0	0	0.0	13	0.0	370	0.3	1,160	1.6
Breast Cancer	0	0.0	0	0.0	0	0.0	35	0.0	197	0.1	353	0.5
Chronic Lower Respiratory Diseases	0	0.0	3	0.0	3	0.0	9	0.0	344	0.2	2,217	3.1
Unintentional Injuries	22	0.3	31	0.0	200	0.3	638	0.4	699	0.5	1,134	1.6
Motor Vehicle	0	0.0	16	0.0	106	0.1	183	0.1	167	0.1	114	0.2
Other Unintentional Injuries	22	0.3	15	0.0	94	0.1	455	0.3	532	0.4	1,020	1.4
Pneumonia and Influenza	3	0.0	3	0.0	4	0.0	17	0.0	84	0.1	547	0.8
Suicide	0	0.0	17	0.0	166	0.2	349	0.2	400	0.3	161	0.2
Diabetes Mellitus	0	0.0	0	0.0	4	0.0	34	0.0	214	0.2	632	0.9
HIV Infection	0	0.0	0	0.0	0	0.0	10	0.0	35	0.0	11	0.0
Chronic Liver Disease and Cirrhosis	0	0.0	0	0.0	*	*	94	0.1	449	0.3	191	0.3
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	11	0.0	1,600	2.2
Nephritis, Nephrosis, Nephrotic Syndrome	*	*	0	0.0	0	0.0	*	*	66	0.0	390	0.5
Homicide and Legal Intervention	4	0.1	12	0.0	40	0.1	99	0.1	47	0.0	14	0.0
Septicemia	*	*	*	*	3	0.0	17	0.0	94	0.1	338	0.5
Congenital Anomalies	67	1.0	10	0.0	6	0.0	11	0.0	33	0.0	14	0.0
Perinatal Period Conditions	173	2.6	*	*	0	0.0	0	0.0	0	0.0	0	0.0
All Other	35	0.5	43	0.0	67	0.1	327	0.2	1,156	0.8	5,783	8.1
Injury by Firearm	0	0.0	10	0.0	120	0.2	233	0.2	220	0.2	115	0.2
Drug-Induced Deaths	0	0.0	*	*	65	0.1	405	0.3	367	0.3	65	0.1
Alcohol-Induced Deaths	0	0.0	0	0.0	8	0.0	169	0.1	516	0.4	154	0.2
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	4	0.0	25	0.0	30	0.0	5	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, 2015

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	%
Total	36,353	100.0	29,770	100.0	3,975	100.0	1,410	100.0	512	100.0	276	100.0
Cardiovascular Disease	9,563	26.3	7,989	26.8	878	22.1	409	29.0	135	26.4	66	23.9
Heart Disease	7,002	19.3	5,874	19.7	628	15.8	298	21.1	84	16.4	51	18.5
Cerebrovascular Disease	1,857	5.1	1,532	5.1	192	4.8	75	5.3	38	7.4	9	3.3
Atherosclerosis	141	0.4	117	0.4	10	0.3	4	0.3	4	0.8	4	1.4
Malignant Neoplasms	7,597	20.9	6,308	21.2	783	19.7	263	18.7	125	24.4	46	16.7
Lung Cancer	1,543	4.2	1,343	4.5	105	2.6	53	3.8	25	4.9	10	3.6
Breast Cancer	585	1.6	495	1.7	54	1.4	25	1.8	3	0.6	4	1.4
Chronic Lower Respiratory Disease	2,576	7.1	2,268	7.6	181	4.6	67	4.8	16	3.1	14	5.1
Unintentional Injuries	2,724	7.5	2,111	7.1	411	10.3	95	6.7	43	8.4	29	10.5
Motor Vehicle	586	1.6	401	1.3	130	3.3	24	1.7	15	2.9	7	2.5
Other Unintentional Injuries	2,138	5.9	1,710	5.7	281	7.1	71	5.0	28	5.5	22	8.0
Pneumonia and Influenza	658	1.8	559	1.9	62	1.6	22	1.6	7	1.4	*	*
Suicide	1,093	3.0	918	3.1	104	2.6	30	2.1	14	2.7	13	4.7
Diabetes Mellitus	884	2.4	616	2.1	163	4.1	59	4.2	16	3.1	16	5.8
HIV Infection	56	0.2	32	0.1	15	0.4	4	0.3	0	0.0	3	1.1
Chronic Liver Disease and Cirrhosis	735	2.0	490	1.6	190	4.8	16	1.1	3	0.6	18	6.5
Alzheimer's Disease	1,611	4.4	1,433	4.8	99	2.5	35	2.5	20	3.9	8	2.9
Nephritis, Nephrosis, Nephrotic Syndrome	458	1.3	349	1.2	71	1.8	18	1.3	11	2.1	4	1.4
Homicide and Legal Intervention	216	0.6	87	0.3	60	1.5	56	4.0	3	0.6	6	2.2
Septicemia	455	1.3	347	1.2	65	1.6	22	1.6	6	1.2	5	1.8
Congenital Anomalies	141	0.4	94	0.3	27	0.7	12	0.9	3	0.6	*	*
Perinatal Period Conditions	174	0.5	86	0.3	43	1.1	21	1.5	7	1.4	3	1.1
All Other	7,412	20.4	6,083	20.4	823	20.7	281	19.9	103	20.1	41	14.9
Injury by Firearm	698	1.9	545	1.8	74	1.9	53	3.8	8	1.6	8	2.9
Drug-Induced Deaths	904	2.5	682	2.3	148	3.7	37	2.6	11	2.1	10	3.6
Alcohol-Induced Deaths	847	2.3	605	2.0	177	4.5	28	2.0	4	0.8	20	7.2
Work-Related Injury (Y/N Check Death Certificate)	64	0.2	48	0.2	9	0.2	*	*	*	*	4	1.4

* 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, 2015

Cause of Death	<10%		10-19.9%		20-29.9%		30%+		Unknown	
	N	%	N	%	N	%	N	%	N	%
Total	14,344	100.0	12,063	100.0	5,609	100.0	2,693	100.0	1,645	100.0
Cardiovascular Disease	3,672	25.6	3,272	27.1	1,510	26.9	689	25.6	421	25.6
Heart Disease	2,652	18.5	2,430	20.1	1,106	19.7	503	18.7	312	19.0
Cerebrovascular Disease	740	5.2	626	5.2	287	5.1	128	4.8	76	4.6
Atherosclerosis	67	0.5	35	0.3	22	0.4	9	0.3	8	0.5
Malignant Neoplasms	3,320	23.1	2,477	20.5	1,027	18.3	468	17.4	305	18.5
Lung Cancer	632	4.4	488	4.0	243	4.3	112	4.2	68	4.1
Breast Cancer	264	1.8	195	1.6	75	1.3	31	1.2	20	1.2
Chronic Lower Respiratory Disease	897	6.3	922	7.6	468	8.3	201	7.5	88	5.3
Unintentional Injuries	1,042	7.3	846	7.0	407	7.3	229	8.5	200	12.2
Motor Vehicle	207	1.4	184	1.5	68	1.2	54	2.0	73	4.4
Other Unintentional Injuries	835	5.8	662	5.5	339	6.0	175	6.5	127	7.7
Pneumonia and Influenza	266	1.9	217	1.8	106	1.9	43	1.6	26	1.6
Suicide	476	3.3	336	2.8	147	2.6	60	2.2	74	4.5
Diabetes Mellitus	301	2.1	320	2.7	138	2.5	95	3.5	30	1.8
HIV Infection	6	0.0	18	0.1	21	0.4	8	0.3	3	0.2
Chronic Liver Disease and Cirrhosis	228	1.6	252	2.1	133	2.4	88	3.3	34	2.1
Alzheimer's Disease	735	5.1	517	4.3	213	3.8	96	3.6	50	3.0
Nephritis, Nephrosis, Nephrotic Syndrome	175	1.2	134	1.1	82	1.5	44	1.6	23	1.4
Homicide and Legal Intervention	38	0.3	73	0.6	40	0.7	39	1.4	26	1.6
Septicemia	174	1.2	143	1.2	71	1.3	46	1.7	21	1.3
Congenital Anomalies	70	0.5	35	0.3	19	0.3	11	0.4	6	0.4
Perinatal Period Conditions	61	0.4	43	0.4	32	0.6	24	0.9	14	0.9
All Other	2,883	20.1	2,458	20.4	1,195	21.3	552	20.5	324	19.7
Injury by Firearm	284	2.0	222	1.8	86	1.5	50	1.9	56	3.4
Drug-Induced Deaths	282	2.0	316	2.6	166	3.0	88	3.3	52	3.2
Alcohol-Induced Deaths	273	1.9	286	2.4	146	2.6	91	3.4	51	3.1
Work-Related Injury (Y/N Check Death Certificate)	28	0.2	14	0.1	5	0.1	6	0.2	11	0.7

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 2014 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, 2015

Age Group	Deaths	Population	Age-Specific Death Rate
All Ages	36,353	5,456,584	6.7
Infant	309	66,566	4.6
Neonatal	230	66,566	3.5
1-4	56	270,710	0.2
5-9	31	362,256	0.1
10-14	61	369,375	0.2
15-19	181	363,085	0.5
20-24	339	383,553	0.9
25-29	401	359,990	1.1
30-34	498	401,089	1.2
35-39	466	379,679	1.2
40-44	637	366,717	1.7
45-49	868	356,366	2.4
50-54	1,509	373,137	4.0
55-59	2,125	369,892	5.7
60-64	2,765	321,214	8.6
65-69	3,174	260,511	12.2
70-74	3,183	171,246	18.6
75-79	3,650	114,703	31.8
80-84	4,538	80,112	56.6
85+	11,561	85,636	135.0
1-14	148	1,002,341	0.1
15-24	520	746,638	0.7
25-64	9,269	2,928,085	3.2
65+	26,106	712,208	36.7

** 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: 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)^{1,2,3}. 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 Prevention⁴. *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.

References:

¹ 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.

² 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.

³ 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.

⁴ 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.

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^{1,2,3}.

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 tracts⁴.

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 composition⁵. 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.

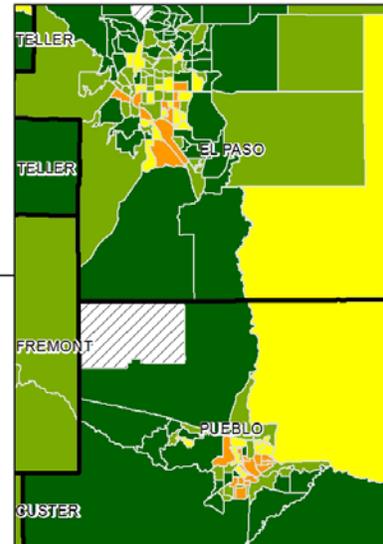
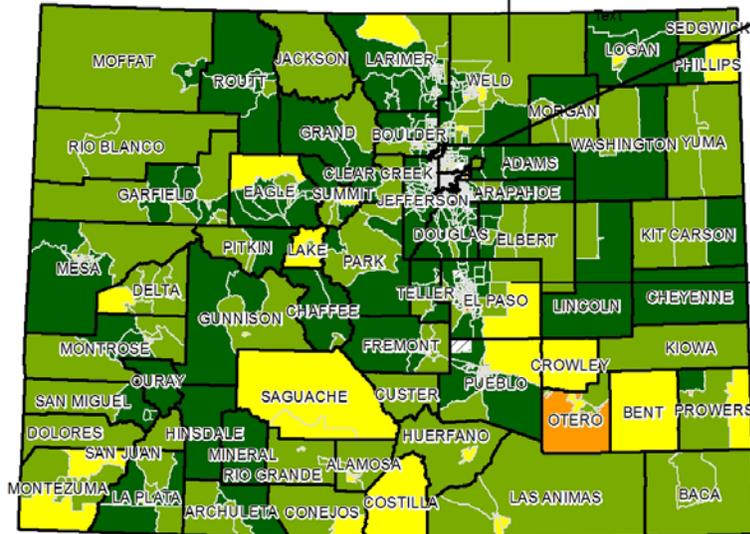
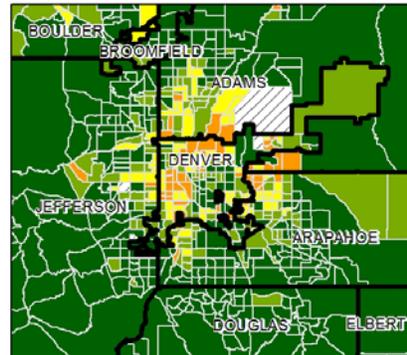
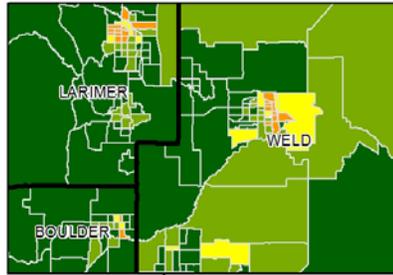
The map on the following page depicts census tract boundaries for Colorado and its largest metropolitan areas and each census tract's poverty status. Note that for some less populous counties with few census tracts, a single area-based poverty status category may represent most or all of the county.

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.

References:

- ¹ 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.
- ² 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.
- ³ 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#>
- ⁴ *Geographic Terms and Concepts – Census Tract.* United States Census Bureau. Available from: www.census.gov/geo/reference/gtc/gtc_ct.html
- ⁵ *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**



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