

Larimer County Births and Deaths 2015

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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.

Selected birth characteristics: Larimer County residents, 2015

Characteristic	Number	Percent
Total Live Births	3,513	100.0
Age of Mother		
10-17	37	1.1
18-19	112	3.2
20-29	1,539	43.8
30+	1,825	51.9
Low Weight Births (<2,500 Grams)	311	8.9
Very Low Weight Births (<1,500 Grams)	37	1.1
Prenatal Care Later than 1st Trimester/No Care	1,083	31.1
No Prenatal Care	755	21.7
Preterm Births (<37 Weeks)	267	7.6
Education of Mother <High School Diploma/GED	324	9.2
Live Births to Unmarried Women	771	22.0
Smoking During Pregnancy	187	5.3

"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: Larimer County 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	3,513	100.0	37	100.0	112	100.0	1,539	100.0	1,825	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	2,759	78.9	18	48.6	61	56.0	1,187	77.4	1,493	82.2
White, Hispanic	549	15.7	18	48.6	42	38.5	276	18.0	213	11.7
Black	41	1.2	*	*	3	2.8	21	1.4	16	0.9
Asian American/Pacific Islander	105	3.0	0	0.0	*	*	24	1.6	79	4.3
American Indian/Native Alaskan	18	0.5	0	0.0	0	0.0	10	0.7	8	0.4
Other	25	0.7	0	0.0	*	*	16	1.0	8	0.4
Unknown	16		0	0.0	3		5		8	
Low Weight Births (<2,500 Grams)	311	8.9	3	8.1	11	9.8	135	8.8	162	8.9
Very Low Weight Births (<1,500 Grams)	37	1.1	0	0.0	*	*	17	1.1	19	1.0
Prenatal Care Later than 1st Trimester/No Care	1,083	31.1	16	43.2	48	43.2	487	31.8	532	29.4
No Prenatal Care	755	21.7	12	32.4	32	28.8	319	20.8	392	21.7
Preterm Births (<37 Weeks)	267	7.6	5	13.5	12	10.7	105	6.8	145	7.9
Education of Mother <High School Diploma/GED	324	9.2	34	91.9	47	42.0	134	8.7	109	6.0
Live Births to Unmarried Women	771	21.9	35	94.6	85	75.9	460	29.9	191	10.5
Smoking During Pregnancy	187	5.3	*	*	13	11.6	115	7.5	58	3.2

"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: Larimer County 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	2,759	100.0	549	100.0	41	100.0	105	100.0	18	100.0
Age of Mother										
10-17	18	0.7	18	3.3	*	*	0	0.0	0	0.0
18-19	61	2.2	42	7.7	3	7.3	*	*	0	0.0
20-29	1,187	43.0	276	50.3	21	51.2	24	22.9	10	55.6
30+	1,493	54.1	213	38.8	16	39.0	79	75.2	8	44.4
Low Weight Births (<2,500 Grams)	239	8.7	49	8.9	3	7.3	16	15.2	0	0.0
Very Low Weight Births (<1,500 Grams)	27	1.0	8	1.5	0	0.0	*	*	0	0.0
Prenatal Care Later than 1st Trimester/No Care	779	28.4	246	45.1	13	31.7	23	22.8	9	50.0
No Prenatal Care	556	20.3	170	31.1	7	17.1	17	16.8	5	27.8
Preterm Births (<37 Weeks)	203	7.4	49	8.9	0	0.0	14	13.3	0	0.0
Education of Mother <High School Diploma/GED	134	4.9	170	31.0	3	7.3	6	5.8	*	*
Live Births to Unmarried Women	522	18.9	195	35.5	18	43.9	7	6.7	10	55.6
Smoking During Pregnancy	162	5.9	21	3.8	*	*	*	*	*	*

"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: Larimer County 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	1,729	100.0	1,210	100.0	172	100.0	325	100.0	77	100.0
Race/Ethnicity of Mother										
White, Non-Hispanic	1,418	82.3	936	77.9	141	82.0	198	61.1	66	85.7
White, Hispanic	213	12.4	214	17.8	26	15.1	88	27.2	8	10.4
Black	14	0.8	15	1.2	*	*	11	3.4	0	0.0
Asian American/Pacific Islander	53	3.1	23	1.9	4	2.3	23	7.1	*	*
American Indian/Native Alaskan	11	0.6	6	0.5	0	0.0	*	*	0	0.0
Other	13	0.8	8	0.7	0	0.0	3	0.9	*	*
Unknown	7		8		0	0.0	*	*	0	0.0
Low Weight Births (<2,500 Grams)	137	7.9	115	9.5	18	10.5	37	11.4	4	5.2
Very Low Weight Births (<1,500 Grams)	17	1.0	13	1.1	0	0.0	7	2.2	0	0.0
Prenatal Care Later than 1st Trimester/No Care	468	27.3	400	33.2	65	38.0	125	38.6	25	33.8
No Prenatal Care	323	18.9	263	21.8	52	30.4	97	29.9	20	27.0
Preterm Births (<37 Weeks)	124	7.2	94	7.8	13	7.6	31	9.5	5	6.5
Education of Mother <High School Diploma/GED	126	7.3	119	9.9	14	8.1	58	17.8	7	9.1
Live Births to Unmarried Women	323	18.7	305	25.2	47	27.3	85	26.2	11	14.3
Smoking During Pregnancy	85	4.9	77	6.4	6	3.5	16	4.9	3	3.9

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: Larimer County residents, 2015

Age Group	Births	Population	Fertility Rate	Lower Limit	Upper Limit
All Ages	3,513	70,447	49.9	48.3	51.5
Teen Age Groups					
13-14	*	3,870	*	*	*
15-17	35	5,631	6.2	4.1	8.4
18-19	112	5,292	21.2	17.2	25.1
10-17	37	15,479	2.4	1.6	3.2
10-19	149	20,771	7.2	6.0	8.3
All Age Groups					
10-14	*	9,848	*	*	*
15-19	147	10,923	13.5	11.3	15.7
20-24	560	16,604	33.7	31.0	36.5
25-29	979	12,082	81.0	76.1	85.9
30-34	1,162	10,123	114.8	108.5	121.0
35-39	552	10,663	51.8	47.5	56.0
40-49	110	19,743	5.6	4.5	6.6

** 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: Larimer County residents, 2005, 2011-2015

	2005	2011	2012	2013	2014	2015	2016	2011-2015 Annual Average
Total Population	275,873	305,113	310,725	316,303	324,129	332,832	*	317,820
Total Births								
Number	3,445	3,317	3,391	3,385	3,493	3,513	0	3,420
Birth Rate	12.5	10.9	10.9	10.7	10.8	10.6	0.0	10.8
General Fertility Rate	55.4	50.9	51.3	50.5	50.9	49.9	0.0	50.7
Age of Mother 10-17								
Number	94	54	47	50	36	37	0	45
Percent of Total Births	2.7	1.6	1.4	1.5	1.0	1.1	0.0	1.3
Fertility Rate	6.6	3.8	3.3	3.4	2.4	2.4	0.0	3.1
Low Weight Births (<2,500 Grams)								
Number	273	278	277	244	265	311	0	275
Percent	7.9	8.4	8.2	7.2	7.6	8.9	0.0	8.0
Prenatal Care Later Than 1st Trimester/No Care								
Number	743	419	491	551	739	1,083	0	657
Percent	21.6	12.7	14.6	16.4	21.3	31.1	0.0	19.3
Births to Unmarried Women								
Number	876	761	723	735	756	771	0	749
Percent	25.4	22.9	21.3	21.7	21.6	21.9	0.0	21.9
Mother's Education <12 Years								
Number	484	319	320	311	270	324	0	309
Percent	14.1	9.6	9.5	9.2	7.7	9.2	0.0	9.0
Infant Deaths								
Number	22	13	13	9	14	14	0	13
Rate	6.4	3.9	3.8	2.7	4.0	4.0	0.0	3.7
Neonatal Deaths								
Number	16	10	12	8	10	8	0	10
Rate	4.6	3.0	3.5	2.4	2.9	2.3	0.0	2.8
Total Deaths								
Number	1,551	1,879	1,875	1,992	2,083	2,248	0	2,015
Crude Rate	562.2	615.8	603.4	629.8	642.6	675.4	0.0	634.1
Age-Adjusted Rate	647.5	609.2	577.7	592.0	594.8	621.9	0.0	599.3
Cardiovascular Disease								
Number	496	531	531	584	593	583	0	564
Age-Adjusted Rate	214.4	172.0	161.2	169.7	166.7	159.3	0.0	165.6
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: Larimer County residents, 2005, 2011-2015

	2005	2011	2012	2013	2014	2015	2016	2011-2015 Annual Average
Number	349	371	384	435	421	400	0	402
Age-Adjusted Rate	150.2	121.1	116.4	126.3	118.3	109.1	0.0	118.0
Cerebrovascular Disease								
Number	96	119	111	106	121	132	0	118
Age-Adjusted Rate	41.9	37.7	34.1	30.9	34.2	36.7	0.0	34.7
Malignant Neoplasms								
Number	359	413	429	430	464	465	0	440
Age-Adjusted Rate	145.7	131.4	130.6	127.2	131.0	125.2	0.0	128.9
Lung Cancer								
Number	95	83	94	103	88	89	0	91
Age-Adjusted Rate	39.1	26.9	29.0	31.5	24.1	23.8	0.0	27.0
Breast Cancer								
Number	26	30	45	31	36	48	0	38
Age-Adjusted Rate	10.2	9.2	13.7	8.6	10.1	13.5	0.0	11.1
Total Unintentional Injuries								
Number	96	117	123	133	127	164	0	133
Age-Adjusted Rate	35.5	37.0	37.7	40.4	37.7	47.6	0.0	40.3
Motor Vehicle								
Number	32	22	24	22	29	33	0	26
Age-Adjusted Rate	10.6	6.4	7.2	6.8	8.5	8.8	0.0	7.6
Other Unintentional Injuries								
Number	64	95	99	111	98	131	0	107
Age-Adjusted Rate	25.0	30.7	30.5	33.6	29.2	38.8	0.0	32.7
Chronic Lower Respiratory Diseases								
Number	69	107	97	90	109	142	0	109
Age-Adjusted Rate	29.5	34.3	30.4	27.1	31.8	39.3	0.0	32.7
Suicide								
Number	51	54	70	56	79	75	0	67
Age-Adjusted Rate	18.1	17.5	22.1	17.5	24.4	21.8	0.0	20.7
Homicide and Legal Intervention								
Number	7	3	3	5	3	8	0	4
Age-Adjusted Rate	2.5	0.9	1.0	1.6	1.0	2.4	0.0	1.4
Work-Related Injury								
Number	*	8	3	*	4	6	0	5
Age-Adjusted Rate	*	2.3	1.1	*	1.2	1.7	0.0	1.4

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:
Larimer County residents, 2015**

Cause of Death	N	Crude Rate	Age-Adjusted Rate	Lower Limit	Upper Limit
All Causes	2,248	675.4	621.9	596.5	647.3
Cardiovascular Disease	583	175.2	159.3	146.4	172.3
Heart Disease	400	120.2	109.1	98.3	119.9
Cerebrovascular Disease	132	39.7	36.7	30.4	43.0
Atherosclerosis	10	3.0	2.7	1.2	4.7
Malignant Neoplasms	465	139.7	125.2	113.6	136.8
Lung Cancer	89	26.7	23.8	18.8	28.9
Breast Cancer	48	14.4	13.5	9.6	17.4
Chronic Lower Respiratory Diseases	142	42.7	39.3	32.7	45.9
Unintentional Injuries	164	49.3	47.6	40.2	55.1
Motor Vehicle	33	9.9	8.8	5.7	11.9
Other Unintentional Injuries	129	38.8	38.2	31.5	44.9
Pneumonia and Influenza	55	16.5	15.5	11.3	19.6
Suicide	75	22.5	21.8	16.8	26.9
Diabetes Mellitus	45	13.5	11.8	8.3	15.3
HIV Infection	*	*	*	*	*
Chronic Liver Disease and Cirrhosis	33	9.9	9.5	6.2	12.9
Alzheimer's Disease	112	33.7	31.3	25.4	37.1
Nephritis, Nephrosis, Nephrotic Syndrome	28	8.4	7.9	4.9	10.8
Homicide and Legal Intervention	8	2.4	2.4	1.0	4.4
Septicemia	25	7.5	6.6	3.9	9.2
Congenital Anomalies	4	1.2	1.3	0.3	2.8
Perinatal Period Conditions	6	1.8	2.3	1.0	4.2
All Other	501	150.5	139.6	127.3	151.9
Injury by Firearm	54	16.2	15.5	11.3	19.7
Drug-Induced Deaths	53	15.9	15.8	11.4	20.1
Alcohol-Induced Deaths	40	12.0	11.7	8.0	15.4
Work-Related Injury (Y/N Check Death Certificate)	6	1.8	1.7	0.5	3.6

** 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: Larimer County 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	14	4.0	10	0.2	24	0.4	110	1.3	401	4.8	1,689	35.6
Cardiovascular Disease	0	0.0	0	0.0	*	*	3	0.0	81	1.0	498	10.5
Heart Disease	0	0.0	0	0.0	0	0.0	3	0.0	69	0.8	328	6.9
Cerebrovascular Disease	0	0.0	0	0.0	0	0.0	0	0.0	6	0.1	126	2.7
Atherosclerosis	0	0.0	0	0.0	0	0.0	0	0.0	*	*	9	0.2
Malignant Neoplasms	0	0.0	*	*	0	0.0	14	0.2	134	1.6	316	6.7
Lung Cancer	0	0.0	0	0.0	0	0.0	*	*	25	0.3	62	1.3
Breast Cancer	0	0.0	0	0.0	0	0.0	3	0.0	19	0.2	26	0.5
Chronic Lower Respiratory Diseases	0	0.0	*	*	0	0.0	*	*	18	0.2	122	2.6
Unintentional Injuries	*	*	3	0.1	10	0.2	43	0.5	42	0.5	64	1.3
Motor Vehicle	0	0.0	0	0.0	6	0.1	9	0.1	14	0.2	4	0.1
Other Unintentional Injuries	*	*	3	0.1	4	0.1	34	0.4	28	0.3	60	1.3
Pneumonia and Influenza	*	*	0	0.0	0	0.0	0	0.0	4	0.0	50	1.1
Suicide	0	0.0	4	0.1	8	0.1	23	0.3	28	0.3	12	0.3
Diabetes Mellitus	0	0.0	0	0.0	0	0.0	*	*	9	0.1	35	0.7
HIV Infection	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	5	0.1	17	0.2	11	0.2
Alzheimer's Disease	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	112	2.4
Nephritis, Nephrosis, Nephrotic Syndrome	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0	24	0.5
Homicide and Legal Intervention	0	0.0	0	0.0	*	*	3	0.0	*	*	*	*
Septicemia	0	0.0	0	0.0	*	*	0	0.0	4	0.0	20	0.4
Congenital Anomalies	*	*	0	0.0	0	0.0	0	0.0	0	0.0	*	*
Perinatal Period Conditions	6	1.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
All Other	3	0.9	*	*	3	0.1	17	0.2	56	0.7	421	8.9
Injury by Firearm	0	0.0	*	*	8	0.1	16	0.2	18	0.2	11	0.2
Drug-Induced Deaths	0	0.0	*	*	4	0.1	25	0.3	22	0.3	*	*
Alcohol-Induced Deaths	0	0.0	0	0.0	0	0.0	9	0.1	24	0.3	7	0.1
Work-Related Injury (Y/N Check Death Certificate)	0	0.0	0	0.0	0	0.0	*	*	4	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: Larimer County 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	2,248	100.0	2,098	100.0	108	100.0	8	100.0	12	100.0	11	100.0
Cardiovascular Disease	583	25.9	552	26.3	22	20.4	*	*	5	41.7	0	0.0
Heart Disease	400	17.8	380	18.1	14	13.0	*	*	3	25.0	0	0.0
Cerebrovascular Disease	132	5.9	124	5.9	7	6.5	0	0.0	*	*	0	0.0
Atherosclerosis	10	0.4	10	0.5	0	0.0	0	0.0	0	0.0	0	0.0
Malignant Neoplasms	465	20.7	438	20.9	19	17.6	3	37.5	0	0.0	3	27.3
Lung Cancer	89	4.0	85	4.1	*	*	*	*	0	0.0	0	0.0
Breast Cancer	48	2.1	44	2.1	3	2.8	*	*	0	0.0	0	0.0
Chronic Lower Respiratory Disease	142	6.3	138	6.6	*	*	0	0.0	0	0.0	*	*
Unintentional Injuries	164	7.3	148	7.1	12	11.1	0	0.0	*	*	*	*
Motor Vehicle	33	1.5	26	1.2	6	5.6	0	0.0	0	0.0	*	*
Other Unintentional Injuries	131	5.8	122	5.8	6	5.6	0	0.0	*	*	*	*
Pneumonia and Influenza	55	2.4	51	2.4	3	2.8	*	*	0	0.0	0	0.0
Suicide	75	3.3	71	3.4	4	3.7	0	0.0	0	0.0	0	0.0
Diabetes Mellitus	45	2.0	38	1.8	5	4.6	0	0.0	0	0.0	*	*
HIV Infection	*	*	*	*	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	33	1.5	24	1.1	9	8.3	0	0.0	0	0.0	0	0.0
Alzheimer's Disease	112	5.0	107	5.1	3	2.8	0	0.0	*	*	0	0.0
Nephritis, Nephrosis, Nephrotic Syndrome	28	1.2	23	1.1	4	3.7	*	*	0	0.0	0	0.0
Homicide and Legal Intervention	8	0.4	8	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Septicemia	25	1.1	21	1.0	4	3.7	0	0.0	0	0.0	0	0.0
Congenital Anomalies	4	0.2	3	0.1	*	*	0	0.0	0	0.0	0	0.0
Perinatal Period Conditions	6	0.3	5	0.2	*	*	0	0.0	0	0.0	0	0.0
All Other	501	22.3	469	22.4	19	17.6	*	*	4	33.3	3	27.3
Injury by Firearm	54	2.4	53	2.5	*	*	0	0.0	0	0.0	0	0.0
Drug-Induced Deaths	53	2.4	49	2.3	4	3.7	0	0.0	0	0.0	0	0.0
Alcohol-Induced Deaths	40	1.8	32	1.5	8	7.4	0	0.0	0	0.0	0	0.0
Work-Related Injury (Y/N Check Death Certificate)	6	0.3	4	0.2	*	*	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: Larimer County residents, 2015

Cause of Death	<10%		10-19.9%		20-29.9%		30%+		Unknown	
	N	%	N	%	N	%	N	%	N	%
Total	1,096	100.0	762	100.0	77	100.0	241	100.0	72	100.0
Cardiovascular Disease	288	26.3	205	26.9	17	22.1	55	22.8	18	25.0
Heart Disease	208	19.0	133	17.5	10	13.0	35	14.5	14	19.4
Cerebrovascular Disease	59	5.4	51	6.7	3	3.9	17	7.1	*	*
Atherosclerosis	4	0.4	3	0.4	*	*	*	*	0	0.0
Malignant Neoplasms	254	23.2	148	19.4	17	22.1	36	14.9	10	13.9
Lung Cancer	46	4.2	28	3.7	4	5.2	8	3.3	3	4.2
Breast Cancer	28	2.6	15	2.0	*	*	3	1.2	0	0.0
Chronic Lower Respiratory Disease	67	6.1	55	7.2	4	5.2	15	6.2	*	*
Unintentional Injuries	68	6.2	64	8.4	6	7.8	20	8.3	6	8.3
Motor Vehicle	14	1.3	9	1.2	*	*	5	2.1	4	5.6
Other Unintentional Injuries	54	4.9	55	7.2	5	6.5	15	6.2	*	*
Pneumonia and Influenza	27	2.5	17	2.2	*	*	8	3.3	*	*
Suicide	41	3.7	26	3.4	3	3.9	3	1.2	*	*
Diabetes Mellitus	23	2.1	10	1.3	3	3.9	7	2.9	*	*
HIV Infection	*	*	*	*	0	0.0	0	0.0	0	0.0
Chronic Liver Disease and Cirrhosis	9	0.8	15	2.0	*	*	5	2.1	3	4.2
Alzheimer's Disease	55	5.0	37	4.9	4	5.2	14	5.8	*	*
Nephritis, Nephrosis, Nephrotic Syndrome	13	1.2	7	0.9	*	*	6	2.5	0	0.0
Homicide and Legal Intervention	*	*	*	*	0	0.0	*	*	3	4.2
Septicemia	10	0.9	10	1.3	*	*	*	*	*	*
Congenital Anomalies	4	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Perinatal Period Conditions	3	0.3	0	0.0	0	0.0	*	*	*	*
All Other	231	21.1	165	21.7	16	20.8	68	28.2	21	29.2
Injury by Firearm	30	2.7	17	2.2	*	*	*	*	4	5.6
Drug-Induced Deaths	16	1.5	28	3.7	3	3.9	4	1.7	*	*
Alcohol-Induced Deaths	13	1.2	17	2.2	*	*	7	2.9	*	*
Work-Related Injury (Y/N Check Death Certificate)	*	*	*	*	0	0.0	*	*	*	*

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: Larimer County residents, 2015

Age Group	Deaths	Population	Age-Specific Death Rate
All Ages	2,248	332,832	6.8
Infant	14	3,513	4.0
Neonatal	8	3,513	2.3
1-4	3	14,899	0.2
5-9	0	19,752	0.0
10-14	7	19,943	0.4
15-19	10	22,367	0.4
20-24	14	32,869	0.4
25-29	20	24,107	0.8
30-34	39	21,029	1.9
35-39	23	21,913	1.0
40-44	28	20,812	1.3
45-49	41	19,217	2.1
50-54	80	21,211	3.8
55-59	128	22,880	5.6
60-64	152	20,785	7.3
65-69	153	16,957	9.0
70-74	190	11,638	16.3
75-79	224	7,621	29.4
80-84	290	5,269	55.0
85+	832	5,992	138.9
1-14	10	54,594	0.2
15-24	24	55,236	0.4
25-64	511	171,954	3.0
65+	1,689	47,477	35.6

* 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.
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- 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.

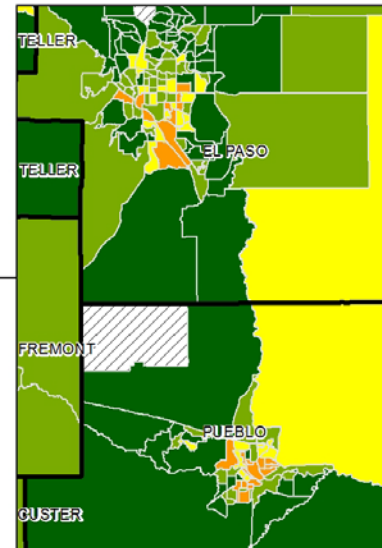
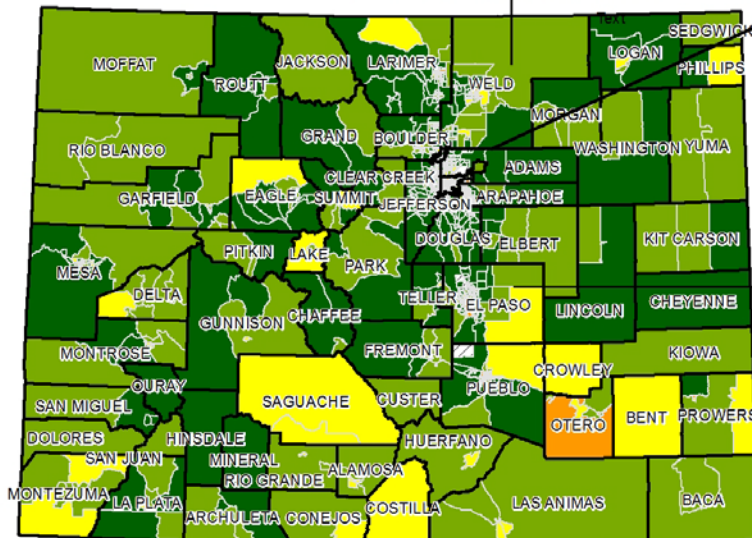
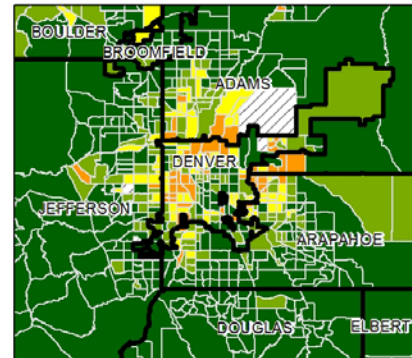
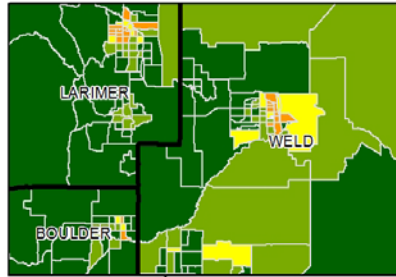
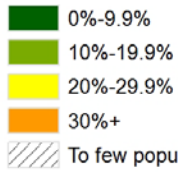
The map on the following page depicts census tract boundaries for Colorado and its largest metropolitan areas and each census tract's poverty status. Note that for some less populous counties with few census tracts, a single area-based poverty status category may represent most or all of the county.

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