

**Boulder County Trend Analysis, 2020**  
**Progress Toward Healthy People 2020 Goals or Colorado 2020 Goals**

Maternal and Child Health Indicator (Sorted by 2020 Position Relative to 2020 Goal)	Number of Years of Data	Healthy People 2020 or Colorado 2020 Goal	MCH Data By Year*						Short Term Trend: 2016 to 2020	Long Term Trend: Percent Change 2010 to 2020	2020 Position Relative to 2020 Goal
			2010	2016	2017	2018	2019	2020			
% births very low birth weight	3	1.4%	1.0%	1.3%	1.2%	1.1%	0.9%	0.9%	Improved	-10.0%	Meets goal
Neonatal mortality rate	5	4.1 per 1,000	3.5	3.8	3.1	3.2	3.0	2.9	Improved	-17.1%	Meets goal
Teen birth rate ages 15-17	3	10.0 per 1,000 <sup>a</sup>	12.7	7.0	5.7	5.1	4.7	4.3	Improved	-66.1%	Meets goal
Teen motor vehicle death rate ages 15-19	3	12.4 per 100,000 <sup>b</sup>	11.0	DS	DS	5.6	5.4	5.3	Improved <sup>c</sup>	-51.8%	Meets goal
% births preterm	3	8.0% <sup>a</sup>	7.7%	7.7%	7.9%	8.0%	7.8%	7.6%	Mixed	-0.9%	Meets goal
% infants who were ever breastfed	2	84.5% <sup>a</sup>	96%	96%	93%	93%	94%	94%	Mixed	-2.4%	Meets goal
% mothers who smoked 3 months before pregnancy	1	12.2%	11.6%	4.5%	4.1%	3.6%	3.9%	5.1%	Mixed	-55.9%	Meets goal
Perinatal mortality rate	5	5.9 per 1,000	5.8	5.3	5.0	5.4	5.3	4.7	Mixed	-19.0%	Meets goal
Infant mortality rate	5	6.0 per 1,000	4.6	4.9	4.0	4.1	4.2	4.2	Mixed	-8.7%	Meets goal
% infants placed to sleep on their backs	2	75.8%	N/A	91%	95%	82%	82%	82%	Worse	N/A	Meets goal
% mothers who smoked during pregnancy	1	6.1% <sup>a</sup>	4.8%	3.2%	3.2%	2.9%	3.1%	4.1%	Worse	-15.2%	Meets goal
Injury hospitalization rate ages 10-19	3	226.9 <sup>a</sup>	317.0	178.5	179.3 <sup>d</sup>	195.0	210.1	216.6	Worse	-31.7%	Meets goal
Postneonatal mortality rate	5	2.0 per 1,000	1.1	1.1	0.8	0.9	1.2	1.2	Worse	+9.1%	Meets goal
Motor vehicle death rate ages 0-14	3	12.4 per 100,000 <sup>b</sup>	DS	DS	DS	DS	DS	2.0	Cannot ascertain	N/A	Meets goal
% births low birth weight	3	7.8%	7.4%	8.3%	8.0%	8.0%	7.9%	7.9%	Improved	+6.8%	Close to goal
% mothers discussed what to do if depressed during/after pregnancy	2	85.8% <sup>a</sup>	N/A	76%	79%	82%	82%	84%	Improved	N/A	Close to goal
% very low birth weight births in Level IIIs	5	83.7%	63.9%	70.5%	69.0%	70.2%	71.7%	71.7%	Improved	+12.2%	Close to goal
% mothers with appropriate weight gain during pregnancy	1	38.0% <sup>a</sup>	41.8%	36.3%	37.8%	36.5%	35.2%	36.4%	No real change	-12.9%	Close to goal
% cesarean deliveries among low-risk first births	3	18.5% <sup>a</sup>	N/A	19.0%	19.4%	19.8%	19.7%	19.7%	Worse	N/A	Close to goal
% mothers overweight or obese before pregnancy	1	38.0% <sup>a</sup>	31.7%	34.2%	34.0%	35.2%	38.3%	40.3%	Worse	+27.0%	Close to goal
Teen suicide death rate ages 15-19	5	10.2 per 100,000 <sup>b</sup>	11.7	9.5	9.3	12.7	11.5	11.4	Worse	-2.6%	Close to goal
% children ages 1-14 with a medical home	3	63.3%	N/A	56%	57%	59%	61%	N/A	Improved <sup>e</sup>	N/A	Unknown
% children ages 6-11 physically active 60 min per day	3	37.0% <sup>a</sup>	N/A	56%	61%	52%	59%	N/A	Mixed <sup>e</sup>	N/A	Unknown
% children ages 5-14 overweight or obese	3	25.0% <sup>a</sup>	N/A	26%	23%	20%	27%	N/A	Mixed <sup>e</sup>	N/A	Unknown
% children ages 1-5 w/ parents asked by provider to fill out child q'naire	3	52.0% <sup>a</sup>	N/A	DS	DS	DS	DS	N/A	Cannot ascertain	N/A	Unknown
% teens who were bullied in past year	1	22.0% <sup>a</sup>	N/A	N/A	25%	26%	24%	N/A	Cannot ascertain	N/A	Unknown

<sup>a</sup> Colorado 2020 goal.

<sup>b</sup> Healthy People goals are for all ages and are not specific to the age group shown.

<sup>c</sup> Short term trend measured from 2018 to 2020.

<sup>d</sup> Hospitalization data transitioned from ICD 9 to ICD 10 codes in October 2015; interpret 2017 data with caution. Trends should be interpreted with great caution.

<sup>e</sup> Short term trend measured from 2016 to 2019.

N/A denotes data not available or applicable.

DS denotes data has been suppressed due to small sample size. Suppression criteria is unique to each data source.

Cells shaded in light blue represent survey data results which require greater change over time to be considered "Improved" or "Worse" compared to non-survey data.

\* Refer to the accompanying data years table to determine the exact years for each value.

## **Additional Notes**

### **Maternal and Child Health Indicator**

Data are shown for indicators that have been included in the MCH County Data Sets for a number of years, or for new national or state MCH performance measures. Eight indicators are based on survey data available from the Pregnancy Risk Assessment Monitoring System, the Colorado Child Health Survey, and the Healthy Kids Colorado Survey: ever breastfed, infants placed to sleep on their backs, unintended births, child development questionnaire, medical home, overweight or obese children, physically active children, and bullied teens. Data and short term trends for these indicators are lightly shaded. Most other indicators come from birth and death data, but some indicators (injury hospitalization) are derived from special registries or data sets. Refer to the *Definitions for Data in 2020 County Trend Analysis* handout for further explanation of each indicator.

### **Number of Years of Data**

Indicators use one, two, three, or five years of data. For example, the 2020 teen motor vehicle death rate for ages 15-19 is based on three years of data (2016, 2017, and 2018).

### **Healthy People 2020 or Colorado 2020 Goal**

Every ten years, Healthy People sets goals for numerous public health objectives. For 2010 there were 467 separate objectives; for 2020, the number increased to nearly 600. While many 2010 objectives were retained for 2020, the goals for nearly all of them have changed, and the new goals are virtually all more modest than those set for 2010. For more information, visit: <http://www.healthypeople.gov/2020/default.aspx>. Colorado 2020 goals are used in place of Healthy People 2020 goals where available.

### **MCH Data by Year**

Each year when a county trend analysis is released the most recent available data are presented. The years of data that are available differ among indicators. For example, the most recent data available for the teen motor vehicle death rate for ages 15-19 is from 2018. Because this measure is a three-year rate, data from 2016, 2017, and 2018 are presented under the 2020 heading. As a general rule, the values shown beneath a column heading reflect data from at least two years earlier. Refer to the accompanying data years table to determine the exact years for each value.

### **Short Term Trend: 2016 to 2020**

Short term trends are categorized as "Improved," "Worse," "Mixed," or "No real change." For a variety of reasons, some trends cannot be determined and are shown as "Cannot ascertain." The labeling of the change between 2016 and 2020 (or other years as footnoted) may be somewhat arbitrary. Values based on survey data need relatively large changes to obtain "Improved" or "Worse" labels because percentages shown are estimates that have confidence intervals. Values based on full count data (births, deaths, registries) require smaller changes to obtain labels denoting change. The 2016 and 2020 data values usually contain data from the previous 5 years, 3 years, or 1 year, so the trends described reflect changes in the data that are reported in the MCH Trend Analysis for 2016 and 2020, and do not represent changes that actually occurred between 2016 and 2020.

### **Long Term Trend: Percent Change 2010 to 2020**

Long term trends are presented when data are available and comparable between 2010 and 2020. The percent change is the difference between the old and new estimates divided by the old estimate. The result is multiplied by 100 to yield a percent. The percent change is how much the measure has increased (+%) or decreased (-%) over the ten-year period. The 2010 and 2020 data values usually contain data from the previous 5 years, 3 years, or 1 year (children overweight or obese and infants placed to sleep on their backs contain data from 2 years), so the trends described reflect changes in the data that are reported in the MCH County Data Sets for 2010 and in the MCH Trend Analysis for 2020 and do not represent changes that actually occurred between 2010 and 2020.

### **2020 Position Relative to 2020 Goal**

"Meets goal" indicates that the value shown in the MCH Trend Analysis released in 2020 is the same or better than the goal. "Close to goal" indicates that the value is within 20 percent of the goal. "At some distance" describes values that are more than 20 percent away from the goal, but are less than double the goal for indicators requiring a decrease and are up to half the goal for indicators requiring an increase. "Far from goal" indicates a value that is either double or half the HP 2020 goal, depending on whether the indicator requires a decrease or an increase. The values shown in 2020 are compared to the HP 2020 goals or the Colorado 2020 goals; see footnotes.

## Boulder County Trend Analysis, 2020

Data Years

Maternal and Child Health Indicator	Number of Years of Data	MCH Data By Year					
		2010	2016	2017	2018	2019	2020
% births very low birth weight	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
Neonatal mortality rate	5	2004-2008	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
Teen birth rate ages 15-17	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
Teen motor vehicle death rate ages 15-19	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
% births preterm	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
% infants who were ever breastfed	2	2007-2008	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
% mothers who smoked 3 months before pregnancy	1	2008	2014	2015	2016	2017	2018
Perinatal mortality rate	5	2004-2008	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
Infant mortality rate	5	2004-2008	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
% infants placed to sleep on their backs	2	N/A	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
% mothers who smoked during pregnancy	1	2008	2014	2015	2016	2017	2018
Injury hospitalization rate ages 10-19	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
Postneonatal mortality rate	5	2004-2008	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
Motor vehicle death rate ages 0-14	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
% births low birth weight	3	2006-2008	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
% mothers discussed what to do if depressed during/after pregnancy	2	N/A	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
% very low birth weight births in Level IIIs	5	2004-2008	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
% mothers with appropriate weight gain during pregnancy	1	2008	2014	2015	2016	2017	2018
% cesarean deliveries among low-risk first births	3	N/A	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018
% mothers overweight or obese before pregnancy	1	2008	2014	2015	2016	2017	2018
Teen suicide death rate ages 15-19	5	2004-2008	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018
% children ages 1-14 with a medical home	3	N/A	2012-2014	2013-2015	2014-2016	2015-2017	N/A
% children ages 6-11 physically active 60 min per day	3	N/A	2012-2014	2013-2015	2014-2016	2015-2017	N/A
% children ages 5-14 overweight or obese	3	N/A	2012-2014	2013-2015	2014-2016	2015-2017	N/A
% children ages 1-5 w/ parents asked by provider to fill out child q'naire	3	N/A	2012-2014	2013-2015	2014-2016	2015-2017	N/A
% teens who were bullied in past year	1	N/A	N/A	2013	2015	2017	N/A