

**Arapahoe County Trend Analysis, 2013**  
**Progress Toward Healthy People 2020 Targets or Colorado 2020 Targets**

Maternal and Child Health Indicator (Sorted by 2013 Position Relative to 2020 Target)	Number of Years of Data	Healthy People 2020 or Colorado 2020 Target	MCH Data By Year of Release*					Short Term Trend: 2009 to 2013	Long Term Trend: Percent Change 2003 to 2013	2013 Position Relative to 2020 Target	
			2003	2009	2010	2011	2012				2013
% infants placed to sleep on their backs	1	75.9%	80%	84%	76%	81%	86%	81%	No real change	+1.5%	Meets target
% mothers who smoked 3 months before pregnancy	1	14.6%	N/A	6.9%	6.3%	6.1%	6.2%	6.7%	Mixed	N/A	Meets target
% very low birth weight births in Level IIIs	5	83.7%	76.7%	96.2%	97.3%	98.5%	98.3%	99.0%	Improved	+29.1%	Meets target
Motor vehicle death rate ages 0-14	3	12.4 per 100,000 <sup>a</sup>	4.0	1.8	2.6	2.6	2.2	1.6	Improved	-60.0%	Meets target
Postneonatal mortality rate	5	2.0 per 1,000	1.9	1.5	1.7	1.7	1.8	1.9	Worse	+0.0%	Meets target
Teen injury hospitalization rate ages 15-19	5	555.8 per 100,000 <sup>a</sup>	N/A	428.4	408.7 <sup>c</sup>	406.4 <sup>c</sup>	407.5 <sup>c</sup>	381.1 <sup>c</sup>	Improved <sup>d</sup>	N/A	Meets target
Teen motor vehicle death rate ages 15-19	3	12.4 per 100,000 <sup>a</sup>	18.0	13.4	10.0	8.4	9.4	8.3	Improved	-53.9%	Meets target
% births low birth weight	3	7.8%	8.4%	9.6%	9.8%	9.6%	9.4%	9.2%	Improved	+9.5%	Close to target
% births unintended	5	33.0% <sup>b</sup>	36%	40%	39%	41%	41%	37%	No real change	+5.1%	Close to target
% births very low birth weight	3	1.4%	1.2%	1.4%	1.5%	1.6%	1.6%	1.5%	Worse	+25.0%	Close to target
% children ages 2-14 overweight or obese	2	25.0% <sup>b</sup>	N/A	26%	29%	25%	23%	29% <sup>e</sup>	No real change <sup>f</sup>	N/A	Close to target
% mothers gained appropriate weight during pregnancy	1	38.0% <sup>b</sup>	N/A	28.8%	28.7%	28.7%	29.1%	34.1% <sup>g</sup>	No real change <sup>f</sup>	N/A	Close to target
% mothers overweight or obese before pregnancy	1	38.0% <sup>b</sup>	N/A	36.0%	36.8%	37.7%	38.2%	44.1% <sup>g</sup>	Worse <sup>f</sup>	N/A	Close to target
Infant mortality rate	5	6.0 per 1,000	6.7	6.3	6.6	6.7	6.8	6.9	Worse	+3.0%	Close to target
Perinatal mortality rate	5	5.9 per 1,000	11.0	6.1	6.5	6.5	6.6	6.8	Worse	-38.2%	Close to target
Neonatal mortality rate	5	4.1 per 1,000	4.9	4.8	4.9	5.0	5.0	5.0	Worse	+2.0%	At some distance
Teen fertility rate ages 15-17	3	10.0 per 1,000 <sup>b</sup>	19.8	20.0	19.8	19.6	16.9	14.7	Improved	-25.8%	At some distance
Teen suicide death rate ages 15-19	5	10.2 per 100,000 <sup>a</sup>	11.7	13.7	15.1	17.1	13.3	13.1	Mixed	+12.0%	At some distance
% mothers who smoked during last 3 months of pregnancy	1	1.4% <sup>j</sup>	N/A	4.6%	4.4%	4.4%	3.5%	4.1%	Improved	N/A	Far from target
% EIC referrals from targeted screening sources	1	N/A	N/A	N/A	23.3%	24.4%	45.8%	50.4%	Improved <sup>d</sup>	N/A	N/A
% mothers breastfeeding at 6 months	5	60.6%	N/A	N/A	55%	57%	57%	N/A	No real change <sup>h</sup>	N/A	N/A
Medicaid dental % served	1	N/A	25.2% <sup>i</sup>	39.8%	42.4%	44.4%	49.5%	51.2%	Improved	N/A	N/A

N/A denotes data not available or applicable.

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.

\* For some measures, the data do not appear in the MCH County Data Sets. See *Definitions for Data in 2013 County Trend Analysis* handout for actual data years.

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

<sup>b</sup> Colorado 2020 target.

<sup>c</sup> Changes were made to the method of geocoding injury hospitalization data by county in 2010. Comparisons should only be made between Releases 2009 and earlier and 2010 and later.

<sup>d</sup> Short term trend is measured from the 2010 Release to the 2013 Release.

<sup>e</sup> Changes were made to the sampling and weighting methodology of the Child Health Survey. Comparisons should be made between Releases 2012 and earlier and 2013 and later.

<sup>f</sup> Short term trend is measured from the 2009 Release to the 2012 Release.

<sup>g</sup> Changed to 2009 IOM weight gain recommendations in 2013 Release.

<sup>h</sup> Short term trend is measured from the 2010 Release to the 2012 Release.

<sup>i</sup> 2003 Release shows different age group from later releases.

<sup>j</sup> HP 2020 target is for women who smoked during pregnancy, not only during the last three months.

## **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. Four indicators are based on survey data available from the Colorado Child Health Survey and the Pregnancy Risk Assessment Monitoring System: breastfeeding at six months, overweight or obese children, infants placed to sleep on their backs, and unintended births. 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, Medicaid dental served, EIC referrals) are derived from special registries or data sets.

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

Measures use one, two, three, or five years of data. For example, the teen motor vehicle death rate for ages 15-19 is based on three years of data (2009, 2010, and 2011). Refer to the *Definitions for Data in 2013 County Trend Analysis* handout or the online MCH County Data Sets to determine the exact years used for each measure for each release.

### **Healthy People 2020 or Colorado 2020 Target**

Every ten years, Healthy People sets targets 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 targets for nearly all of them have changed, and the new targets are virtually all more modest than those set for 2010. For more information, visit: <http://www.healthypeople.gov/2020/default.aspx>. Colorado 2020 targets are used in place of Healthy People 2020 targets where available.

### **MCH Data by Year of Release**

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 at the time of the 2013 Release, the most recent data available for the teen motor vehicle death rate for ages 15-19 is from 2011. Because this measure is a three-year rate, data from 2009, 2010, and 2011 are presented under the 2013 heading. For Medicaid dental served, more recent data are available, so state fiscal year 2012 data are presented in the 2013 Release.

### **Short Term Trend: 2009 to 2013**

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 the 2009 and 2013 data sets (or other years as noted) may be somewhat arbitrary. Rates based on survey data need relatively large changes to obtain "Improved" or "Worse" labels because percentages shown are estimates that have confidence intervals. Rates based on full count data (births, deaths, registries) require smaller changes to obtain labels denoting change. The 2009 and 2013 labels 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 County Data Set Releases for 2009 and in the MCH Trend Analysis for 2013, and do not represent changes that actually occurred between 2009 and 2013.

### **Long Term Trend: Percent Change 2003 to 2013**

Long term trends are presented when data are available and comparable between the 2003 Release and the 2013 Release. 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 2003 and 2013 labels usually contain data from the previous 5 years, 3 years, or 1 year (children overweight or obese contains data from 2 years), so the trends described reflect changes in the data that are reported in the MCH County Data Set Releases for 2003 and in the MCH Trend Analysis for 2013 and do not represent changes that actually occurred between 2003 and 2013.

### **2013 Position Relative to 2020 Target**

"Meets target" indicates that the rate shown in the MCH Trend Analysis released in 2013 is the same or better than the target. "Close to target" indicates that the rate is within 20 percent of the target. "At some distance" describes measures that are more than 20 percent away from the target, but are less than double the target for measures requiring a decrease and are up to half the target for measures requiring an increase. "Far from target" indicates a rate that is either double or half the HP 2020 target, depending on whether the rate requires a decrease or an increase. The values shown in the 2013 Release are compared to the HP 2020 targets or the Colorado 2020 targets; see footnotes.