

Douglas County Trend Analysis, 2019
Progress Toward Healthy People 2020 Targets or Colorado 2020 Targets

Maternal and Child Health Indicator (Sorted by 2019 Position Relative to 2020 Target)	Number of Years of Data	Healthy People 2020 or Colorado 2020 Target	MCH Data By Year*					Short Term Trend: 2015 to 2019	Long Term Trend: Percent Change 2009 to 2019	2019 Position Relative to 2020 Target	
			2009	2015	2016	2017	2018				2019
% births very low birth weight	3	1.4%	1.0%	1.2%	1.1%	0.9%	0.9%	0.9%	Improved	-10.0%	Meets target
% children ages 5-14 overweight or obese	3	25.0% ^a	N/A	22%	18%	11%	10%	7%	Improved	N/A	Meets target
% mothers who smoked 3 months before pregnancy	1	12.2%	3.0%	3.5%	3.5%	3.0%	3.3%	2.6%	Improved	-13.3%	Meets target
% mothers who smoked during pregnancy	1	5.9% ^a	1.5%	2.4%	2.7%	1.6%	1.8%	1.7%	Improved	+13.3%	Meets target
Infant mortality rate	5	6.0 per 1,000	3.8	3.9	3.8	3.5	3.1	3.0	Improved	-21.1%	Meets target
Neonatal mortality rate	5	4.1 per 1,000	2.9	3.3	3.1	2.8	2.6	2.2	Improved	-24.1%	Meets target
Perinatal mortality rate	5	5.9 per 1,000	4.3	4.4	3.9	3.9	3.3	2.9	Improved	-32.6%	Meets target
Teen birth rate ages 15-17	3	10.0 per 1,000 ^a	3.3	2.2	1.9	1.8	1.3	1.1	Improved	-66.7%	Meets target
Teen motor vehicle death rate ages 15-19	3	12.4 per 100,000 ^b	13.7	8.5	8.1	6.9	5.6	7.9	Improved	-42.3%	Meets target
% children ages 6-11 physically active 60 min per day	3	30.5% ^a	N/A	47%	41%	42%	40%	47%	Mixed	N/A	Meets target
% infants placed to sleep on their backs	2	75.8%	N/A	90%	87%	91%	96%	89%	Mixed	N/A	Meets target
Postneonatal mortality rate	5	2.0 per 1,000	0.8	0.6	0.6	0.7	0.5	0.8	Mixed	+0.0%	Meets target
% infants who were ever breastfed	2	92.5% ^a	95.0%	95%	95%	96%	94%	95%	No real change	+0.0%	Meets target
% children ages 1-14 with a medical home	3	63.3%	N/A	76%	72%	69%	65%	66%	Worse	N/A	Meets target
% mothers overweight or obese before pregnancy	1	38.0% ^a	26.1%	34.8%	35.3%	37.7%	37.1%	37.8%	Worse	+44.8%	Meets target
% very low birth weight births in Level IIIs	5	83.7%	98.2%	98.3%	98.1%	96.7%	94.1%	90.3%	Worse	-8.0%	Meets target
% births low birth weight	3	7.8%	8.8%	8.8%	8.5%	7.9%	8.2%	8.3%	Improved	-5.7%	Close to target
% births preterm	3	8.0% ^a	10.7%	8.8%	8.6%	8.1%	8.6%	8.8%	Mixed	-17.8%	Close to target
% mothers discussed what to do if depressed during/after pregnancy	2	85.8% ^a	N/A	80%	77%	72%	74%	72%	Worse	N/A	Close to target
% mothers with appropriate weight gain during pregnancy	1	38.0% ^a	33.1%	36.5%	37.5%	35.0%	35.9%	35.8%	Worse	+8.2%	Close to target
% teens who were bullied in past year	1	22.0% ^a	N/A	N/A	27%	N/A	23%	N/A	Cannot ascertain ^c	N/A	Close to target ^d
Teen suicide death rate ages 15-19	5	10.2 per 100,000 ^b	4.4	16.9	19.0	21.6	18.3	16.3	Mixed	+270.5%	At some distance
Injury hospitalization rate ages 10-19	3	226.9 ^a	288.7	225.2	215.6	220.3 ^e	232.9	285.7	Mixed ^e	-1.0%	At some distance
% cesarean deliveries among low-risk first births	3	19.6% ^a	N/A	24.9%	25.0%	25.1%	25.0%	25.3%	Worse	N/A	At some distance
% children ages 1-5 w/ parents asked by provider to fill out child q'naire	3	52.7% ^a	N/A	55%	57%	DS	DS	DS	Cannot ascertain	N/A	Unknown
Motor vehicle death rate ages 0-14	3	12.4 per 100,000 ^b	2.0	DS	DS	DS	DS	DS	Cannot ascertain	N/A	Unknown

^a Healthy People targets are for all ages and are not specific to the age group shown.

^b Colorado 2020 target.

^c Short term trend assessed from 2016 through 2018

^d 2018 data used to assess position relative to 2020 target

^e 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.

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 2019 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 2019 teen motor vehicle death rate for ages 15-19 is based on three years of data (2015, 2016, and 2017).

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

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 2017. Because this measure is a three-year rate, data from 2015, 2016, and 2017 are presented under the 2019 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: 2015 to 2019

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 2015 and 2019 (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 2015 and 2019 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 2015 and 2019, and do not represent changes that actually occurred between 2015 and 2019.

Long Term Trend: Percent Change 2009 to 2019

Long term trends are presented when data are available and comparable between 2009 and 2019. 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 2009 and 2019 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 2009 and in the MCH Trend Analysis for 2019 and do not represent changes that actually occurred between 2009 and 2019.

2019 Position Relative to 2020 Target

"Meets target" indicates that the value shown in the MCH Trend Analysis released in 2019 is the same or better than the target. "Close to target" indicates that the value is within 20 percent of the target. "At some distance" describes values that are more than 20 percent away from the target, but are less than double the target for indicators requiring a decrease and are up to half the target for indicators requiring an increase. "Far from target" indicates a value that is either double or half the HP 2020 target, depending on whether the indicator requires a decrease or an increase. The values shown in 2019 are compared to the HP 2020 targets or the Colorado 2020 targets; see footnotes.

Douglas County Trend Analysis, 2019

Data Years

Maternal and Child Health Indicator	Number of Years of Data	MCH Data By Year					
		2009	2015	2016	2017	2018	2019
% births very low birth weight	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% children ages 5-14 overweight or obese	3	N/A	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% mothers who smoked 3 months before pregnancy	1	2007	2013	2014	2015	2016	2017
% mothers who smoked during pregnancy	1	2007	2013	2014	2015	2016	2017
Infant mortality rate	5	2003-2007	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017
Neonatal mortality rate	5	2003-2007	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017
Perinatal mortality rate	5	2003-2007	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017
Teen birth rate ages 15-17	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
Teen motor vehicle death rate ages 15-19	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% children ages 6-11 physically active 60 min per day	3	N/A	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% infants placed to sleep on their backs	2	N/A	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Postneonatal mortality rate	5	2003-2007	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017
% infants who were ever breastfed	2	2006-2007	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
% children ages 1-14 with a medical home	3	N/A	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% mothers overweight or obese before pregnancy	1	2007	2013	2014	2015	2016	2017
% very low birth weight births in Level IIIs	5	2003-2007	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017
% births low birth weight	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% births preterm	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% mothers discussed what to do if depressed during/after pregnancy	2	N/A	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
% mothers with appropriate weight gain during pregnancy	1	2007	2013	2014	2015	2016	2017
% teens who were bullied in past year	1	N/A	N/A	2013	2015	2017	N/A
Teen suicide death rate ages 15-19	5	2003-2007	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017
Injury hospitalization rate ages 10-19	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% cesarean deliveries among low-risk first births	3	N/A	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
% children ages 1-5 w/ parents asked by provider to fill out child questionnaire	3	N/A	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017
Motor vehicle death rate ages 0-14	3	2005-2007	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017