Northeast Trend Analysis, 2012
Progress Toward Healthy People 2020 Targets or Colorado 2020 Targets

Maternal and Child Health Indicator	Number of Years of Data	Healthy People 2020 or Colorado 2020 Target	County Name	MCH Data By Year of Release*						Short Term Trend: 2008 to 2012	Long Term Trend: Percent Change 2002 to 2012	2012 Position Relative to 2020 Target
				2002	2008	2009	2010	2011	2012			
Teen fertility rate ages 15-17	3	15.0[a]	Logan	41.1	25.7	25.0	26.1	18.2	15.3	Improved	-63%	Close to target
			Morgan	55.2	43.0	34.7	34.6	33.2	33.6	Improved	-39%	Far from target
			Yuma	30.6	26.4	26.2	31.3	29.8	23.6	Improved	-23%	At some distance
Teen injury hospitalization rate ages 15-19	5	555.8 per 100,000[b]	Logan	N/A	710.9	673.6	547.8[c]	467.9[c]	300.0[c]	Improved[d]	N/A	Meets target
			Morgan	N/A	663.2	689.1	586.5[c]	606.2[c]	653.0[c]	Worse[d]	N/A	Close to target
			Yuma	N/A	435.0	338.7	294.3[c]	442.4[c]	465.7[c]	Worse[d]	N/A	Meets target
Teen motor vehicle death rate ages 15-19	3	9.0 per 100,000[a]	Logan	DS	DS	DS	DS	76.0	60.9	Cannot ascertain	N/A	Far from target
			Morgan	49.8	DS	DS	DS	0.0	0.0	Improved	-100%	Meets target
			Yuma	DS	0.0	0.0	0.0	0.0	0.0	No real change	N/A	Meets target
Teen suicide death rate ages 15-19	5	10.2 per 100,000[b]	Logan	DS	DS	DS	DS	DS	DS	Cannot ascertain	N/A	Unknown
			Morgan	DS	DS	DS	DS	DS	0.0	Improved	N/A	Meets target
			Yuma	DS	0.0	0.0	0.0	0.0	0.0	No real change	N/A	Meets target
Motor vehicle death rate ages 0-14	3	12.4 per 100,000[b]	Logan	DS	0.0	0.0	0.0	0.0	0.0	No real change	N/A	Meets target
			Morgan	14.4	DS	14.0	DS	DS	DS	Cannot ascertain	N/A	Unknown
			Yuma	DS	DS	DS	DS	0.0	0.0	Improved	N/A	Meets target
% children ages 2-14 overweight or obese	2	N/A	Logan	N/A	N/A	N/A	41%[f]	44%[f]	30%[f]	Improved[d]	N/A	N/A
			Morgan	N/A	N/A	N/A	41%[f]	44%[f]	30%[f]	Improved[d]	N/A	N/A
			Yuma	N/A	N/A	N/A	41%[f]	44%[f]	30%[f]	Improved[d]	N/A	N/A
Infant mortality rate	5	5.7 per 1,000[a]	Logan	8.9	4.8	6.6	6.8	6.8	4.3	Improved	-52%	Meets target
			Morgan	7.0	10.8	8.5	8.4	8.0	6.9	Improved	-1%	At some distance
			Yuma	8.1	DS	4.0	4.0	6.7	7.9	Worse[e]	-2%	At some distance
Neonatal mortality rate	5	4.0 per 1,000[a]	Logan	4.9	4.0	5.8	5.1	5.1	3.5	Improved	-29%	Meets target
			Morgan	4.5	9.5	7.5	7.0	6.1	5.1	Improved	13%	At some distance
			Yuma	DS	DS	4.0	4.0	6.7	7.9	Worse[e]	N/A	At some distance
% births low birth weight	3	7.8%	Logan	6.1%	5.8%	6.8%	7.5%	8.5%	8.0%	Worse	31%	Close to target
			Morgan	7.9%	7.6%	8.1%	8.4%	8.1%	7.4%	Mixed	-6%	Meets target
			Yuma	7.1%	8.3%	8.2%	7.2%	5.3%	5.5%	Improved	-23%	Meets target
% births very low birth weight	3	1.1%[a]	Logan	1.6%	1.1%	0.7%	0.4%	0.9%	1.2%	Mixed	-25%	Close to target
			Morgan	1.4%	1.2%	1.2%	1.1%	0.9%	0.9%	Improved	-36%	Meets target
			Yuma	1.3%	1.8%	2.0%	1.7%	1.1%	0.7%	Improved	-46%	Meets target
% very low birth weight births in Level IIIs	5	83.7%	Logan	93.3%	76.9%	80.0%	66.7%	72.7%	70.0%	Worse	-25%	At some distance
			Morgan	75.0%	46.9%	50.0%	58.3%	50.0%	63.6%	Improved	-15%	At some distance
			Yuma	66.7%	88.9%	81.8%	90.9%	83.3%	80.0%	Worse	20%	Close to target
Postneonatal mortality rate	5	1.7 per 1,000[a]	Logan	4.1	DS	DS	DS	DS	DS	Cannot ascertain	N/A	Unknown
			Morgan	2.5	1.4	DS	1.4	1.9	1.9	Worse	-24%	Close to target
			Yuma	4.9	1.5	0.0	0.0	0.0	0.0	Improved	-100%	Meets target
Medicaid dental % served	1	N/A	Logan	N/A	14.9%	37.4%	36.3%	35.2%	40.4%	Improved[e]	N/A	N/A
			Morgan	N/A	18.6%	37.6%	34.1%	35.9%	36.8%	No real change[e]	N/A	N/A
			Yuma	N/A	27.5%	26.3%	29.0%	28.7%	33.9%	Improved[e]	N/A	N/A
% mothers breastfeeding at 6 months	5	60.6%	Logan	N/A	N/A	N/A	N/A	N/A	N/A	Cannot ascertain	N/A	Unknown
			Morgan	N/A	N/A	N/A	N/A	N/A	N/A	Cannot ascertain	N/A	Unknown
			Yuma	N/A	N/A	N/A	N/A	N/A	N/A	Cannot ascertain	N/A	Unknown

Measure		Target	County							Short term trend	% change	Status
% births where mothers gained appropriate weight[h]	1	38.5%[a]	Logan	N/A	N/A	26.0%	23.7%	25.7%	21.2%	Worse[e]	N/A	At some distance
			Morgan	N/A	N/A	26.8%	24.3%	25.6%	24.0%	Worse[e]	N/A	At some distance
			Yuma	N/A	N/A	32.1%	26.2%	29.6%	29.6%	No real change[e]	N/A	At some distance
Perinatal mortality rate	5	5.9 per 1,000	Logan	9.6	5.6	5.8	6.8	8.5	4.3	Improved	-55%	Meets target
			Morgan	12.6	11.7	9.4	9.3	8.9	8.8	Improved	-30%	At some distance
			Yuma	6.4	5.4	5.3	6.6	8.0	7.9	Worse	23%	At some distance
% mothers who smoked 3 mo. before pregnancy	1	14.6%	Logan	N/A	N/A	24.6%	23.7%	22.8%	25.9%	Worse[e]	N/A	At some distance
			Morgan	N/A	N/A	12.1%	11.8%	14.5%	13.1%	Worse[e]	N/A	Meets target
			Yuma	N/A	N/A	12.7%	13.7%	14.5%	12.8%	Mixed[e]	N/A	Meets target
% mothers who smoked during last 3 mo. of preg	1	1.4%[g]	Logan	N/A	N/A	16.1%	15.3%	15.2%	19.3%	Worse[e]	N/A	Far from target
			Morgan	N/A	N/A	10.8%	10.7%	13.3%	11.3%	Worse[e]	N/A	Far from target
			Yuma	N/A	N/A	10.8%	10.5%	11.0%	10.6%	No real change[e]	N/A	Far from target
% births unintended	5	N/A	Logan	42%[f]	51%	42%	49%	53%	45%	Mixed	N/A	N/A
			Morgan	42%[f]	47%	46%	46%	46%	43%	Improved	N/A	N/A
			Yuma	42%[f]	31%	38%	45%[f]	47%[f]	46%[f]	No real change[d]	N/A	N/A
% mothers overweight or obese before pregnancy	1	31.0%[a]	Logan	N/A	N/A	48.0%	43.8%	41.8%	46.7%	No real change[e]	N/A	At some distance
			Morgan	N/A	N/A	39.7%	45.1%	46.1%	47.6%	Worse[e]	N/A	At some distance
			Yuma	N/A	N/A	44.4%	46.9%	48.2%	44.4%	No real change[e]	N/A	At some distance
% EIC referrals from targeted screening sources	1	48.0%[a]	Logan	N/A	N/A	N/A	10.7%	9.5%	9.7%	No real change[d]	N/A	Far from target
			Morgan	N/A	N/A	N/A	10.7%	9.5%	9.7%	No real change[d]	N/A	Far from target
			Yuma	N/A	N/A	N/A	10.7%	9.5%	9.7%	No real change[d]	N/A	Far from target

N/A denotes data not available or applicable.
DS denotes data is suppressed due to values of 1 or 2.
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. Percentages from surveys are rounded here, though the MCH County Data Sets report out to one decimal place.
*For some measures, the data do not appear in the MCH County Data Sets. See *Definitions for Data in 2012 County Trend Analysis* handout for actual data years.
[a]Colorado 2020 target.
[b]Healthy People 2020 targets are for all ages and are not specific to the age group shown.

[c]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.
[d]Short term trend is measured from the 2010 Release to the 2012 Release.
[e]Short term trend is measured from the 2009 Release to the 2012 Release.
[f]Regional data. Comparisons should not be made between county and regional data.
[g]Healthy People 2020 target is for women who smoked during pregnancy, not only during last three months.
[h]Data in the trend analysis differs from data on Colorado Health Indicators website. The website uses three years of aggregated data and the 2009 IOM recommendations for weight gain during pregnancy, while the trend analysis uses one year of data and the 1990 IOM recommendations for weight gain during pregnancy.

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. Three 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, 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 (2008, 2009, and 2010). Refer to the Definitions for Data in 2012 County Trend Analysis handout or the online 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 lieu 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 2012 Release, the most recent data available for the teen motor vehicle death rate for ages 15-19 is from 2010. Because this measure is a three-year rate, data from 2008, 2009 and 2010 are presented under the 2012 heading. For Medicaid dental served, more recent data are available, so state fiscal year 2011 data are presented in the 2012 Release.

Short Term Trend: 2008 to 2012

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 2008 and 2012 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 2008 and 2012 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 2008 and in the MCH Trend Analysis for 2012, and do not represent changes that actually occurred between 2008 and 2012.

Long Term Trend: Percent Change 2002 to 2012

Long term trends are presented when data are available and comparable between the 2002 Release and the 2012 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 2002 and 2012 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 2002 and in the MCH Trend Analysis for 2012 and do not represent changes that actually occurred between 2002 and 2012.

2012 Position Relative to 2020 Target

"Meets target" indicates that the rate shown in the MCH Trend Analysis released in 2012 is the same or better than the target. "Close to target" indicates that the rate is within 20 percent of the target, except for one measure: percentage of very low birth weight births in Level IIIs, which is within 10 percent of the target. "At some distance" describes measures that are more than 20 percent (or 10 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 2012 Release are compared to the HP 2020 targets or the Colorado 2020 targets; see footnotes.