

Maternal and Child Health County Profiles

Grand County	2
Adolescent Health Measures Profile	2
Teen fertility rate 15-17	2
Suicide death rate 15-19	2
Motor vehicle death rate 15-19	2
Teen tobacco % using	3
Teen alcohol % using	3
Teen homicide rate 15-19	3
Child Health Measures Profile	3
Percent of children who are obese	3
Child abuse rate	4
Injury hospitalization rate 0-19	4
Motor vehicle death rate 0-14	4
Child death rate 1-14	5
School-based health care %	5
Percent of children eligible for Medicaid receiving services	5
Children with Special Care Needs Measures Profile	6
HCP Clients % with insurance	6
Family participation degree	6
Infant Health Measures Profile	6
Percent of newborns screened for hearing	6
Percent of births that are very low birth weight	7
Percent of very low birth weight births born in Level III hospitals	7
Percent of births that are low birth weight	7
Infant mortality rate	8
Neonatal mortality rate	8
Black /White infant mortality ratio	8
Postneonatal mortality rate	9
Perinatal Health Measures Profile	9
Percent of births that are unintended	9
Percent of births with first trimester care	9
Percent of women with inadequate weight gain during pregnancy	10
Percent of mothers who initiate breastfeeding	10
Perinatal mortality rate	10

Grand County

Adolescent Health Measures Profile

Teen fertility rate 15-17 (National Performance Measure 6)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	8	666	12.0	29.8	43

The measure is the rate of births per 1,000 teenagers aged 15 through 17 years, for 1998-2000. The numerator is the total number of births to teens in 1998, 1999, and 2000. The denominator is the sum of the estimated population of females ages 15-17 for 1998, 1999, and 2000. The result is multiplied by 1,000 to yield the rate. The rate shown can be viewed as the average rate for each of the three years. Data are calculated by the county of residence of the teen. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2. The HP 2010 goal refers to pregnancies, not births. The Colorado FY 2005 goal is 28 births per 1,000 teens.

Source: Numerator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.
Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Adolescent Health Measures Profile

Suicide death rate 15-19 (National Performance Measure 16)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	3,632	DS	12.9	5.0

The measure is the rate of suicide deaths per 100,000 teenagers aged 15-19, for 1996-2000. The numerator is the total number of suicide deaths in 1996, 1997, 1998, 1999, and 2000. The denominator is the sum of the estimated population ages 15-19 for 1996, 1997, 1998, 1999, and 2000. The result is multiplied by 100,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Numerator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.
Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Adolescent Health Measures Profile

Motor vehicle death rate 15-19 (State Performance Measure 5)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	2,256	DS	23.7	9.2

The measure is the rate of deaths per 100,000 adolescents aged 15-19 caused by motor vehicle crashes for 1998-2000. The numerator is the total number of motor vehicle deaths in 1998, 1999, and 2000. The denominator is the sum of the estimated population ages 15-19 for 1998, 1999, and 2000. The result is multiplied by 100,000 to yield the rate. The rate shown can be viewed as the average rate for each of the three years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Numerator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.
Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Adolescent Health Measures Profile

Teen tobacco % using (State Performance Measure 6)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	N/A	34.4	21.0

The measure is the proportion of high school students reporting current use of tobacco products, for the year 2001. County level data not available and are shown as N/A.

Source: Youth Tobacco Survey (YTS), Health Promotion and Disease Prevention Division, Colorado Department of Public Health and Environment.

Grand County

Adolescent Health Measures Profile

Teen alcohol % using (State Performance Measure 1)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	N/A	50.9	11.0

The measure is the proportion of high school students reporting having drunk alcohol in the past 30 days, for the year 2001. County level data are not available and are shown as N/A.

Source: Youth Risk Behavioral Survey (YRBS), Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Adolescent Health Measures Profile

Teen homicide rate 15-19 (State Performance Measure 10)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	3,632	DS	8.2	3.0

The measure is the rate of homicides among teens 15-19 per 100,000 teens, for 1996-2000. The numerator is the sum of all teen homicides in 1996, 1997, 1998, 1999 and 2000; the denominator is the sum of the estimated population ages 15-19 for 1996, 1997, 1998, 1999, and 2000. The result is multiplied by 100,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Numerator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment. Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Child Health Measures Profile

Percent of children who are obese (State Performance Measure 12)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	11	161	6.8	9.3	5.0

The measure is the percent of WIC participants age 0-5 who are obese, for the year 2000. The numerator is all WIC children (up to the age of 5) who are obese (whose weight for height is greater than the 95th percentile). The denominator is all WIC participants up to the age of 5. County data include all children served by the WIC program in the county, including some who may not be residents of that county. County-level data are provided except where there is no WIC program or where the number of children served is very small (shown as N/A).

Data for Conejos, Costilla, Denver, Mesa, Rio Grande, and Weld are not representative of the normal WIC population because many infants and children in these counties are served by another food program. WIC obesity percentages in these counties may be higher than normal since children with nutritional problems may be directed to WIC.

Source: CDC Pediatric Nutrition Surveillance System, Colorado WIC/Nutrition Program, Colorado Department of Public Health and Environment

Grand County

Child Health Measures Profile

Child abuse rate (State Performance Measure 3)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	4	2,714	1.5	5.2	10.3

The measure is the incidence of maltreatment of children younger than 18 (including physical abuse, sexual abuse, emotional abuse, and/or neglect) in 2000. The value shown reflects the number of confirmed incidents per 1,000 children less than 18 years of age in a county. (Several children may be included in one incident and only a portion of all reported cases are investigated and then confirmed.) Since the HP 2010 goal has been met, the Colorado FY 2005 goal has been set at 5.8.

Source: Numerator: Colorado Central Registry, Colorado Department of Human Services. Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Child Health Measures Profile

Injury hospitalization rate 0-19 (State Performance Measure 14)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	90	14,119	637.4	337.3	N/A

The measure is the rate of hospitalization for injuries per 100,000 children age 0 through 19 for the period 1996-2000. The numerator is the sum of all hospitalizations for injuries in 1996, 1997, 1998, 1999, and 2000. The denominator is the sum of the estimated population ages 0 through 19 for 1996, 1997, 1998, 1999, and 2000. The result is multiplied by 100,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. While there is no HP 2010 goal for the measure, the Colorado FY 2005 goal is 251.0.

Source: Injury Epidemiology, Health Promotion and Disease Prevention Division, Colorado Department of Public Health and Environment.

Grand County

Child Health Measures Profile

Motor vehicle death rate 0-14 (National Performance Measure 8)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	6,281	DS	4.4	9.2

The measure is the rate of deaths per 100,000 children aged 0-14 caused by motor vehicle crashes, for 1998-2000. The numerator is the sum of all motor vehicle deaths among children age 0 through 14 in 1998, 1999, and 2000. The denominator is the sum of the estimated population of children ages 0 through 14 for 1998, 1999, and 2000. The rate shown can be viewed as the average rate for each of the three years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Numerator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.
Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Child Health Measures Profile

Child death rate 1-14 (National Outcome Measure 6)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	3	9,504	31.6	22.2	N/A

The measure is the rate of child deaths per 100,000 children aged 1-14, 1996-2000. The numerator is the sum of all child deaths among children ages 1 through 14 in 1996, 1997, 1998, 1999, and 2000; the denominator is the sum of the estimated population ages 1 through 14 for 1996, 1997, 1998, 1999, and 2000. The result is multiplied by 100,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. While there is no HP 2010 goal for the measure, the Colorado 2005 goal is 20.3. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Numerator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.
Denominator: Demography Section, Colorado Department of Local Affairs.

Grand County

Child Health Measures Profile

School-based health care % (State Performance Measure 7)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	0	1,892	0.0	7.8	N/A

The measure is the proportion of children and adolescents attending public schools who have access to basic preventive and primary, physical and behavioral health services through school-based health centers, Fall 2000. The numerator is the number of children in schools that have school-based health centers. The denominator is the number of children in public schools. The result is multiplied by 100 to yield a percent. While there is no HP 2010 goal for the measure, the Colorado FY 2005 goal is 8.75 percent.

Source: The Colorado School-Based Health Center Initiative, Prevention Services Division, Colorado Department of Public Health and Environment and the Colorado Department of Education.

Grand County

Child Health Measures Profile

Percent of children eligible for Medicaid receiving services (National Performance Measure 13)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	N/A	84.7	N/A

The measure is the percent of potentially Medicaid eligible children who have received a service paid for by the Medicaid program, FY 2000. County level data are not available and are shown as N/A. While there is no HP 2010 goal for the measure, the Colorado FY 2005 goal is 93.0 percent.

Source: Numerator: Colorado Department of Health Care Policy and Financing. Denominator: Prevention Services Division, Colorado Department of Public Health and Environment.

Grand County

Children with Special Care Needs Measures Profile

HCP Clients % with insurance (National Performance Measure 11)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	4	5	80.0	67.3	N/A

The measure is the percent of Children with Special Health Care Needs in the state HCP (Health Care Program for Children with Special Needs) Program who have a source of insurance for primary and specialty care, FY 2001. The numerator is the number of children in the program with insurance; the denominator is the total number of children in the program. While there is no HP 2010 goal for this measure, the Colorado FY 2005 goal is 75.0 percent.

Source: Health Care Program for Children with Special Needs, Prevention Services Division, Colorado Department of Public Health and Environment.

Grand County

Children with Special Care Needs Measures Profile

Family participation degree (National Performance Measure 14)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	17	18	N/A

The measure is the degree to which the state assures family participation in program and policy activities in the state CSHCN program in 2001, on a scale of 0 to 18 points. Data shown under County Measure are for HCP regions, and are not available for individual counties. Colorado's 63 counties are divided into 11 HCP (Health Care Program for Children with Special Needs) Regions. (These regions are not the same as the 14 State Planning and Management Regions.) While there is no HP 2010 goal for this measure, the Colorado FY 2005 goal is 18 points.

Source: Health Care Program for Children with Special Needs, Prevention Services Division, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Percent of newborns screened for hearing (National Performance Measure 10)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	131	148	88.5	90.7	N/A

The measure is the percent of newborns that were screened for hearing impairment before hospital discharge in calendar 2000. The numerator is the number of newborns that underwent the newborn hearing screen at birth; the denominator is the number of live births to residents of the county. The numerator refers to births to residents of the county, not to the location of the hospital of birth. While there is no HP 2010 goal for this measure, the Colorado FY 2005 goal is 95.0 percent.

Source: Newborn Hearing Screening Program, Prevention Services Division, Colorado Department of Public Health and Environment. Denominator: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Percent of births that are very low birth weight (National Performance Measure 15)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	9	438	2.1	1.3	0.9

The measure is the percent of very low birth weight live births (births weighing less than 1500 grams, or 3 pounds, 4 ounces or less) for 1998-2000. The numerator is the total number of very low birth weight births in 1998, 1999, and 2000. The denominator is the sum of all live births in 1998, 1999, and 2000. The result is multiplied by 100 to yield the rate (percent). The rate shown can be viewed as the average rate for each of the three years. Data are calculated by the county of residence of the mother. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Percent of very low birth weight births born in Level III hospitals (State Performance Measure 17)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	10	13	76.9	65.5	90

The measure is the percent of very low birth weight infants delivered at facilities considered to be appropriate for high-risk deliveries and neonates (Level IIIs). Data are calculated by the county of residence of the mother (not the county where the birth occurred). DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

The numerator is the sum of all very low birth weight infants (births weighing less than 1500 grams, or 3 pounds, 4 ounces or less) delivered at a Level III hospital in 1996, 1997, 1998, 1999 and 2000; the denominator is the total number of very low birth weight infants in the same five years. The result is multiplied by 100 to yield the percent. The Level III hospitals include Swedish, Denver Health, Rose, Porter, St. Joseph's, Presbyterian St. Luke's, and University Hospital; and Memorial Hospital in Colorado Springs since 1999. "N/A" (Not Applicable) is shown for counties that had no very low birth weight births and thus had no very low birth weight deliveries at a Level III facility.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Percent of births that are low birth weight (State Outcome Measure 1)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	56	438	12.8	8.5	5.0

The measure is the low birth weight rate for 1998-2000. The numerator is the sum of the low birth weight (under 2500 grams or 5 pounds, 8 ounces, or less) live births in 1998, 1999, and 2000; the denominator is the sum of all of live births in 1998, 1999, and 2000. The result is multiplied by 100 to yield the percent. The rate shown can be viewed as the average rate for each of the three years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Infant mortality rate (National Outcome Measure 1)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	681	DS	6.6	4.5

The measure is the infant mortality rate per 1,000 live births, 1996-2000. The numerator is the sum of all infant (under one year of age) deaths in 1996, 1997, 1998, 1999, and 2000. The denominator is the total number of live births in the same five years. The result is multiplied by 1,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Neonatal mortality rate (National Outcome Measure 3)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	681	DS	4.4	2.9

The measure is the neonatal mortality rate per 1,000 live births, 1996-2000. The numerator is the sum of all neonatal deaths (deaths occurring in the first 28 days of life) in 1996, 1997, 1998, 1999, and 2000. The denominator is the total number of live births in the same five years. The result is multiplied by 1,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0,1, or 2.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Infant Health Measures Profile

Black /White infant mortality ratio (National Outcome Measure 2)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	N/A	2.7	N/A

The measure is the ratio of the black infant mortality rate to the white infant mortality rate, for 1996-2000. The numerator is the black infant mortality rate. The denominator is the white infant mortality rate. The black rate is then divided by the white rate to yield a ratio. The ratio is based on data for the 5-year time period 1996-2000. A value greater than 1.0 indicates relatively more black infant deaths than white infant deaths. N/A is shown where no black infant deaths occurred among residents of the county. While there is no HP 2010 goal for the measure, the Colorado goal for 2005 is 1.9.

Source: Health Statistics Section, Colorado Department of Public Health and Environment

Grand County

Infant Health Measures Profile

Postneonatal mortality rate (National Outcome Measure 4)	Numerator DS	Denominator 681	County Measure DS	Colorado Measure 2.2	HP 2010 Goal 1.2
--	------------------------	---------------------------	-----------------------------	--------------------------------	----------------------------

The measure is the postneonatal mortality rate per 1,000 live births, 1996-2000. The numerator is the sum of all postneonatal deaths (deaths occurring after 28 days of life but before one year of age) in 1996, 1997, 1998, 1999, and 2000. The denominator is the total number of live births in the same five years. The result is multiplied by 1,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0, 1, or 2.

Source: Health Statistics Section, Colorado Department of Public Health and Environment.

Grand County

Perinatal Health Measures Profile

Percent of births that are unintended (State Performance Measure 2)	Numerator N/A	Denominator N/A	County Measure 31.7	Colorado Measure 38.9	HP 2010 Goal 30.0
---	-------------------------	---------------------------	-------------------------------	---------------------------------	-----------------------------

The measure is the proportion of all births (not pregnancies) that are unintended, for the combined period 1997 to 1999. The data derive from three years of surveys of all births. The data shown under County Measure are regional data (not county), grouped according to the 14 State Planning and Management Regions. Numerators and denominators are not provided, nor are data provided for individual counties.

Source: Pregnancy Risk Assessment Monitoring System (PRAMS) survey data, Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Perinatal Health Measures Profile

Percent of births with first trimester care (National Performance Measure 18)	Numerator 128	Denominator 146	County Measure 87.7	Colorado Measure 80.7	HP 2010 Goal 90.0
---	-------------------------	---------------------------	-------------------------------	---------------------------------	-----------------------------

The measure is the percent of infants born to pregnant women receiving prenatal care beginning in the first trimester; the data are for calendar year 2000. The numerator is the number of live births in which the mother began prenatal care during the first trimester; the denominator is the total number of live births. The result is multiplied by 100 to yield the percent. Births with unknown trimester care began are excluded. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0, 1, or 2.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Perinatal Health Measures Profile

Percent of women with inadequate weight gain during pregnancy (State Performance Measure 13)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	32.2	25.4	N/A

The measure is the percent of women who gain an inadequate amount of weight during pregnancy, for the period 1997-1999. The data derive from three years of surveys of all births. The data shown under County Measure are regional data (not county), grouped according to the 14 state Planning and Management Regions. Numerators and denominators are not provided, nor are data provided for individual counties. While there is no HP 2010 goal for this measure, the Colorado FY 2005 goal is 20.0 percent.

Inadequate weight gain is defined as less than the recommended number of pounds according to a woman's body mass index (BMI). A woman with a low BMI (< 19.8) should gain 28-40 pounds; a woman with a normal BMI (19.8-26.0) should gain 25-35 pounds, and a woman with a high BMI (> 26.0) should gain 15-25 pounds.

Source: Pregnancy Risk Assessment Monitoring System (PRAMS) survey data, Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Perinatal Health Measures Profile

Percent of mothers who initiate breastfeeding (National Performance Measure 9)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	N/A	N/A	89.7	82.3	75.0

The measure is the percent of all mothers who initiate breastfeeding with their newborns, for the period 1997-1999. The data derive from three years of surveys of all births. The data shown under County Measure are regional data (not county), grouped according to the 14 State Planning and Management Regions. Numerators and denominators are not provided, nor are data available for individual counties. Since the HP2010 goal has been met, the Colorado FY 2005 goal is set at 85.0 percent.

Source: Pregnancy Risk Assessment Monitoring System (PRAMS) survey data, Health Statistics and Vital Records, Colorado Department of Public Health and Environment.

Grand County

Perinatal Health Measures Profile

Perinatal mortality rate (National Outcome Measure 5)	Numerator	Denominator	County Measure	Colorado Measure	HP 2010 Goal
	DS	683	DS	10.5	4.5

The measure is the perinatal mortality rate per 1,000 live births, 1996-2000. The numerator is the sum of all perinatal deaths (fetal deaths occurring at 28 weeks of gestation or later and infant deaths occurring under 7 days of age) in 1996, 1997, 1998, 1999, and 2000. The denominator is the total number of live births plus all fetal deaths in the same five years. The result is multiplied by 1,000 to yield the rate. The rate shown can be viewed as the average rate for each of the five years. DS indicates data are suppressed for confidentiality when the numerator or denominator has a value of 0, 1, or 2.

Source: Health Statistics and Vital Records, Colorado Department of Public Health and Environment.