Community Health Profile 2015

Rosebud County

Public Health and Safety Division

MONTANA DPHHS

Healthy People. Healthy Communities.

Department of Public Health & Human Services

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Methods

Methods for all data analyses are in a separate document, "Health Profile Methodology."

Demographic Information[a]

	Rosebud County	Montana
Population, Census, April 1, 2010	9,233	989,415
Population estimates, July 1, 2014	9,326	1,023,579
Population, percent change April 1, 2010–July 1, 2014	1.0%	3.5%
Persons under 5 years, July 1, 2013	8.1%	6.0%
Persons under 18 years, July 1, 2013	29.0%	22.1%
Persons 65 years and over, July 1, 2013	13.0%	16.2%
Female persons, July 1, 2013	49.4%	49.8%
White alone, July 1, 2013	60.4%	89.5%
Black or African American alone, July 1, 2013	0.3%	0.6%
American Indian and Alaska Native alone, July 1, 2013	35.6%	6.5%
Asian alone, July 1, 2013	0.7%	0.8%
Native Hawaiian and Other Pacific Islander alone, July 1, 2013	Z	0.1%
Two or more races, July 1, 2013	3.0%	2.5%
Hispanic or Latino, July 1, 2013	4.0%	3.3%
White alone, not Hispanic or Latino, July 1, 2013	58.6%	87.0%
Foreign born persons, 2009–2013	1.4%	2.0%
Language other than English spoken at home, percent of persons age 5 years+, 2009–2013	8.4%	4.4%

[a]Z Value greater than zero but less than half unit of measure shown.
Data from http://quickfacts.census.gov/

Demographic Information[a]

	Rosebud County	Montana
High school graduate or higher, percent of persons age 25 years+, 2009–2013	89.1%	92.1%
Bachelor's degree or higher, percent of persons age 25 years+, 2009–2013	22.3%	28.7%
Veterans, 2009–2013	786	94,404
With a disability, under age 65 years, 2009–2013	8.6%	9.0%
Mean travel time to work (minutes), workers age 16 years+, 2009–2013	14.1 minutes	18 minutes
Median gross rent, 2009–2013	$536	$682
Owner-occupied housing units, 2009–2013	68.5%	68.3%
Persons per household, 2009–2013	2.82	2.39
Median household income, 2009–2013	$48,789	$46,230
Persons without health insurance, under age 65 years	22.1%	19.5%
Persons in poverty	19.5%	16.5%
Population per square mile, 2010	1.8	6.8

[a]Z Value greater than zero but less than half unit of measure shown.
Data from http://quickfacts.census.gov/

Communicable Disease

Table 1. Number and rate of selected communicable diseases — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana
Health Indicator	Number	Rate per 100,000[a] (95% CI)	Number per County	Rate per 100,000[a] (95% CI)	Rate per 100,000[a] (95% CI)
Chlamydia	274	975.0 (863.1, 1097.0)	911	291.0 (272.7, 310.5)	366.2 (359.5, 373.1)
Hepatitis C	53	188.6 (141.4, 246.8)	429	137.0 (124.7, 150.6)	123.0 (119.1, 127.0)
Pertussis	40	142.3 (101.5, 193.8)	152	48.6 (41.4, 56.9)	44.6 (42.3, 47.0)
Campylobacteriosis	5	17.8 (5.8, 41.8)	53	16.9 (13.0, 22.1)	22.2 (20.6, 24.0)

[a]Department of Corrections population included in county rate where applicable.
Data provided by the Communicable Disease Epidemiology Section.

Table 2. Up-to-date (UTD) on childhood vaccinations for 24–35 month old children as of March 1st of the year of assessment based on imMTrax data reviewed during Vaccines for Children Program Clinic Reviews conducted every other year — Montana, 2011 and 2014.[a]

Health Indicator	Rosebud County	Small County Data	Montana
Number assessed 2011[b]	-	99	2,249
Number UTD 2011	-	35	1,305
Percent UTD 2011[c]	-	35.4	58.7
Number assessed 2014[d]	167	727	4,042
Number UTD 2014	133	541	2,651
Percent UTD 2014 (95% CI)	79.6 (72.7, 85.5)	74.4 (71.1, 77.6)	65.6 (64.1, 67.1)

[a]UTD = 4 DTaP, 3 Polio, 1 MMR, 3/4 HIB, 3 Hep B, 1 Var, 4 PCV by 24 months.
[b]In 2011, chart reviews occurred. Clinics with fewer 50 chart, the review included all available charts. Clinics with more than 50 charts, a sample of charts were reviewed and validated.
[c]Confidence interval cannot be calculated because the total number of records reviewed is unknown.
[d]In 2014, all immunization records were reviewed electronically in the Montana Immunization Information System (imMTrax). The precision of each estimate was quantified using 95% confidence intervals.
Data provided by the Immunization Section of the Communicable Disease Bureau.

Chronic Disease

Table 3. Inpatient admissions for selected chronic conditions — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana
Health Indicator	Number	Rate per 100,000[a] (95% CI)	Average Number per County	Rate per 100,000[a] (95% CI)	Rate per 100,000[a] (95% CI)
Asthma	17	‡ ‡	11.8	56.4 (47.8, 66.2)	47.7 (45.2, 50.3)
Chronic Obstructive Pulmonary Disease (COPD)[b]	263	936.2 (822.4, 1063.3)	207.5	656.6 (632.4, 681.8)	716.8 (708.1, 725.6)
Cardiovascular Disease	293	983.1 (868.9, 1110.2)	216.0	696.5 (671.0, 722.9)	746.7 (737.7, 755.8)
Diabetes (types 1 and 2)	435	1,515.1 (1369.2, 1674.1)	236.6	795.7 (767.5, 824.9)	822.5 (812.8, 832.3)

[a]Rates are age standardized to the 2000 Projected US Population using Distribution #1 as described in Klein and Schoenborn 2001 and given per 100,000 person years.
[b]Chronic obstructive pulmonary disease (COPD), includes chronic bronchitis, emphysema, bronchiectasis, and chronic airway obstruction.
‡Does not meet standards of reliability or precision.
Inpatient admission and ED visit data provided courtesy of participating MHA members, collected through the Montana Hospital Discharge Data System (MHDDS).

Table 4. Inpatient admissions for injury by type and mechanism of injury — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana
Health Indicator	Number	Rate per 100,000[a] (95% CI)	Average Number per County	Rate per 100,000[a] (95% CI)	Rate per 100,000[a] (95% CI)
All Unintentional Injury	268	1,052.3 (926.4, 1192.1)	146.6	568.4 (542.6, 595.2)	538.6 (530.6, 546.8)
Falls	114	454.9 (373.0, 551.1)	76.0	257.7 (241.8, 274.7)	268.7 (263.2, 274.3)
Struck by/against	6	‡ ‡	4.1	17.9 (13.4, 23.7)	18.0 (16.5, 19.6)
Motor Vehicle	52	219.5 (162.7, 291.2)	17.9	85.1 (74.5, 97.0)	60.6 (57.8, 63.6)
Poisoning	14	‡ ‡	8.4	36.4 (29.8, 44.3)	36.3 (34.2, 38.5)
Intentional Self-Harm	55	239.7 (179.6, 314.8)	17.8	92.8 (81.3, 105.5)	106.5 (102.6, 110.5)
Traumatic Brain Injury	66	263.8 (202.6, 339.3)	25.3	109.3 (97.6, 122.2)	91.3 (87.9, 94.8)

[a]Rates are age standardized to the 2000 Projected US Population using Distribution #1 as described in Klein and Schoenborn 2001 and given per 100,000 person years.

‡Does not meet standards of reliability or precision.

Inpatient admission and ED visit data provided courtesy of participating MHA members, collected through the Montana Hospital Discharge Data System (MHDDS).

Table 5. Emergency Department visits for selected chronic conditions — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana
Health Indicator	Number	Rate per 100,000[a] (95% CI)	Average Number per County	Rate per 100,000[a] (95% CI)	Rate per 100,000[a] (95% CI)
Asthma	34	125.6 (85.9, 179.9)	44.1	220.3 (202.8, 239.2)	260.0 (254.0, 266.2)
Chronic Obstructive Pulmonary Disease (COPD)[b]	127	469.0 (388.1, 562.9)	228.7	809.5 (780.3, 839.7)	804.9 (795.2, 814.8)
Cardiovascular Disease	91	314.5 (250.6, 392.0)	130.5	431.4 (411.1, 452.8)	372.7 (366.2, 379.3)
Diabetes (types 1 and 2)	293	1,017.7 (898.4, 1150.4)	275.6	955.3 (923.8, 987.8)	1,235.6 (1223.3, 1248.0)

[a]Rates are age standardized to the 2000 Projected US Population using Distribution #1 as described in Klein and Schoenborn 2001 and given per 100,000 person years.

[b]Chronic obstructive pulmonary disease (COPD), includes chronic bronchitis, emphysema, bronchiectasis, and chronic airway obstruction.

‡Does not meet standards of reliability or precision.

Inpatient admission and ED visit data provided courtesy of participating MHA members, collected through the Montana Hospital Discharge Data System (MHDDS).

Table 6. Emergency department visits for injury by type and mechanism of injury — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana
Health Indicator	Number	Rate per 100,000[a] (95% CI)	Average Number per County	Rate per 100,000[a] (95% CI)	Rate per 100,000[a] (95% CI)
All Unintentional Injury	1,131	4,250.3 (3998.9, 4515.1)	1,177.3	5,427.5 (5341.5, 5514.6)	5,901.8 (5873.1, 5930.4)
Falls	442	1,668.4 (1511.7, 1838.6)	429.3	1,809.1 (1761.4, 1857.9)	2,020.0 (2003.7, 2036.5)
Struck by/against	145	537.2 (451.1, 637.0)	159.3	789.0 (755.8, 823.5)	820.2 (809.4, 831.1)
Motor Vehicle	117	446.8 (367.5, 539.9)	90.4	441.1 (416.4, 467.1)	520.0 (511.5, 528.6)
Poisoning	13	‡ ‡	15.9	75.6 (65.7, 86.8)	95.4 (91.8, 99.1)
Intentional Self-Harm	12	‡ ‡	18.6	95.6 (84.1, 108.5)	104.5 (100.6, 108.4)
Traumatic Brain Injury	184	725.3 (621.9, 842.6)	118.0	552.6 (525.3, 581.1)	649.9 (640.5, 659.5)

[a]Rates are age standardized to the 2000 Projected US Population using Distribution #1 as described in Klein and Schoenborn 2001 and given per 100,000 person years.

‡Does not meet standards of reliability or precision.

Inpatient admission and ED visit data provided courtesy of participating MHA members, collected through the Montana Hospital Discharge Data System (MHDDS).

Table 7. Cancer incidence — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana
Health Indicator	Number	Rate per 100,000 (95% CI)	Average Number per County	Rate per 100,000 (95% CI)	Rate per 100,000 (95% CI)
All Cancer	148	488.5 (409.8, 580.2)	130.3	423.1 (403.2, 444.1)	439.8 (432.9, 446.8)
Prostate (males)	23	133.9 (83.1, 212.6)	18.9	110.3 (97.1, 125.4)	112.8 (108.1, 117.8)
Breast (female)	18	‡ ‡	16.9	109.7 (95.5, 126.1)	115.7 (110.8, 120.9)
Lung and Bronchus	17	‡ ‡	19.2	59.3 (52.3, 67.3)	56.4 (54.0, 58.9)
Colon and Rectum	16	‡ ‡	14.0	45.7 (39.3, 53.1)	36.9 (35.0, 39.0)
Corpus Uteri (female)	6	‡ ‡	3.7	23.8 (17.5, 32.6)	25.4 (23.2, 27.9)
Melanoma	8	‡ ‡	5.6	21.1 (16.4, 26.9)	24.9 (23.2, 26.7)

‡Does not meet standards of reliability or precision.
Cancer incidence data are from the Montana Central Tumor Registry.

Figure 1: Age-adjusted cancer incidence rates by cancer site — Montana, 2011–2013.

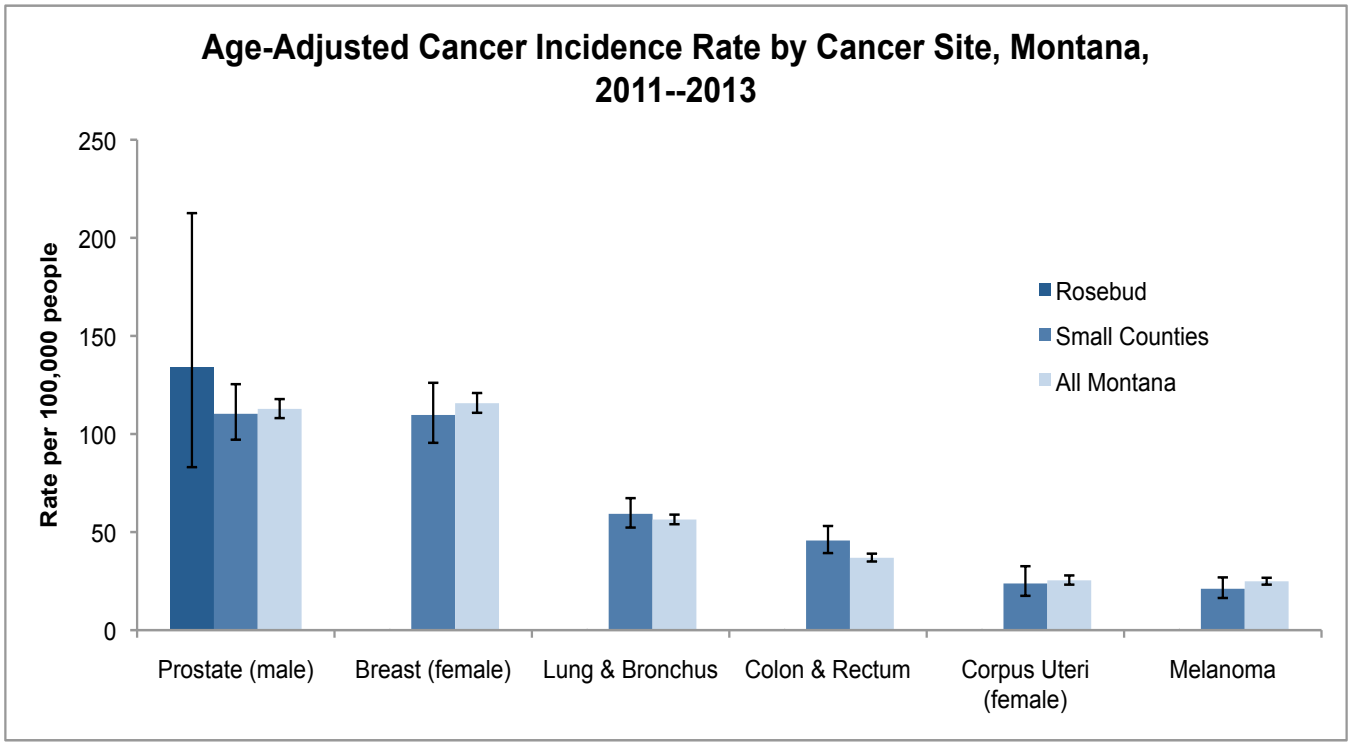

Table 8. Tobacco retailers by county, Montana 2013.

Health Indicator	Rosebud County
Retailer Number	10
Retailers per 1,000 population	1.07

Data from: http://dphhs.mt.gov/Portals/85/Documents/MTUPPapp/index.html

Maternal and Child Health

Table 9. Total births occurring in Rosebud County, 2011–2013.

Health Indicator	Rosebud County	Montana
Number of births	497	35,881

Data about births were tabulated from birth certificates of infants to Montana-resident mothers who delivered in Montana, 2011–2013, covering more than 95% of all births.

Table 10. Teen birth rate per 1,000 females age 15–19 years, 2009–2013.[a,b]

Health Indicator	Rosebud County	Montana
Teen birth rate per 1,000	64.6	32.0

[a]Due to the small number of events in some counties, five year rates have been used to include more counties with at least 20 events over the ive years. Not all counties had enough events to be included.
[b]Full report can be found at:
http://dphhs.mt.gov/Portals/85/publichealth/documents/WMH/2014%20Teen%20Birth%20and%20Pregnancy%20Report%20Final.pdf
†Denominator less than 20; rates based on fewer than 20 events are not statistically reliable.

Table 11. WIC data by county — Montana, 2011–2013.

	Rosebud County	Small County Data	Montana
Health Indicator	Percent	Percent	Percent
Children (2–5 years of age) overweight or obese	40.1	28.5	27.9
Initiate breastfeeding	76.3	81.9	84.7

†Denominator less than 20; rates based on fewer than 20 events are not statistically reliable.
Data provided by the WIC Program in the Family and Community Health Bureau.

Table 12. Births to Montana resident mothers occurring in Rosebud County, 2011–2013.[a]

	Rosebud County		Small County Data		Montana	
Health Indicator	Number	Percent (95% CI)	Number	Percent (95% CI)	Number	Percent (95% CI)
Born less than 37 weeks	64	12.9 (10.0, 16.1)	312	9.3 (8.3, 10.3)	3,265	9.1 (8.8, 9.4)
Born weighing less than 2,500 grams	56	11.3 (8.6, 14.4)	251	7.5 (6.6, 8.4)	2,619	7.3 (7.0, 7.6)
Women entering prenatal care after first trimester	224	45.0 (40.6, 49.6)	1,096	32.7 (31.1, 34.3)	9,580	26.7 (26.2, 27.2)
Women whose Kotelchuk Index is ≥ 80%[b]	235	47.3 (42.8, 51.8)	2,216	66.1 (64.5, 67.7)	26,911	75.0 (74.6, 75.5)
Smoking during pregnancy	69	13.8 (11.0, 17.2)	590	17.6 (16.3, 18.9)	5,849	16.3 (15.9, 16.7)
Education less than high school graduate	114	22.9 (19.3, 26.9)	503	15.0 (13.8, 16.3)	4,281	12.0 (11.6, 12.3)
Any insurance	†	‡ ‡	3,065	91.4 (90.4, 92.3)	33,118	92.3 (92.0, 92.6)
Receiving WIC	275	55.4 (50.8, 59.8)	1,261	37.6 (36.0, 39.2)	12,415	34.6 (34.1, 35.1)
Breastfeeding at discharge	408	82.0 (78.4, 85.4)	2,910	86.8 (85.6, 87.9)	31,898	88.9 (88.6, 89.2)

[a]Data about births were tabulated from birth certificates of infants to Montana-resident mothers who delivered in Montana, 2011–2013, covering more than 95% of all births. Demographic information on the birth certificates is self-reported by parents; medical information is abstracted from medical records.

[b]Kotelchuk Index: computed index of adequacy of prenatal care, function of early initiation and enough visits, 80% or greater is defined as adequate.

†Too few events to report or complimentary suppression of corresponding cell.

‡Does not meet standards of reliability or precision.

Mortality

Table 13. Median age at death in years by race and sex — Montana, 2011–2013.

	Rosebud County		Small County Data		Montana	
Health Indicator	Male	Female	Male	Female	Male	Female
White	77.0	78.5	77.0	83.0	76.0	83.0
American Indian	57.0	61.0	59.0	62.0	62.5	63.5

†Too few events to report or complimentary suppression of corresponding cell.

Table 14. Frequency and age-adjusted rates of selected causes of death by county all cause Montana residents, 2011–2013.

	Rosebud County		Small County Data		Montana	
Health Indicator	Number	Age-adjusted Rate per 100,000 (95% CI)[a]	Number	Age-adjusted Rate per 100,000 (95% CI)[a]	Number	Age-adjusted Rate per 100,000 (95% CI)[a]
All Causes	250	‡ ‡	3,234	759.5 (732.6, 787.3)	27,334	744.8 (735.8, 753.9)
Homicide	0	- -	†	‡ ‡	80	‡ ‡
Suicide	†	‡ ‡	80	‡ ‡	688	22.3 (20.6, 24.1)
All injuries	21	‡ ‡	208	‡ ‡	1,726	53.3 (50.7, 56.0)
Motor vehicle Accidents	†	‡ ‡	93	‡ ‡	603	19.8 (18.2, 21.5)

[a]Confidence Intervals (95%) For The Age Adjusted Rate Are Computed Using the Fay-Feuer (1997) Method National Center for Health Statistics. Vintage 2013 postcensal estimates of the resident population of the United States (April 1, 2010, July 1, 2010–July 1, 2013), by year, County, single-year of age (0, 1, 2, .., 85 years and over), bridged race, Hispanic origin, and sex. Prepared under a collaborative arrangement with the U.S. Census Bureau. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm as of June 26, 2014, following release by the U.S. Census Bureau of the unbridged Vintage 2013 postcensal estimates by 5-year age group on June 26, 2014.
†Too few events to report or complimentary suppression of corresponding cell.
‡Does not meet standards of reliability or precision.
Data provided by the Office of Epidemiology and Scientific Support.

Table 15. Frequency and age-adjusted rates of selected causes of death by county all cause Montana residents, 2011–2013.

	Rosebud County		Small County Data		Montana	
Health Indicator	Number	Age-adjusted Rate per 100,000 (95% CI)[a]	Number	Age-adjusted Rate per 100,000 (95% CI)[a]	Number	Age-adjusted Rate per 100,000 (95% CI)[a]
Deaths Attributed to Drugs	†	‡ ‡	†	‡ ‡	87	2.7 (2.2, 3.4)
All Cancer	49	‡ ‡	667	151.9 (140.4, 164.5)	5,902	156.2 (152.1, 160.3)
Cerebrovascular	†	‡ ‡	159	‡ ‡	1,339	35.8 (33.9, 37.9)
Heart Disease	37	‡ ‡	733	162.6 (150.9, 175.2)	5,757	152.4 (148.5, 156.5)
All Liver	†	‡ ‡	68	‡ ‡	566	16.3 (14.9, 17.8)
Alcohol-Related Liver Disease	†	‡ ‡	32	‡ ‡	292	8.6 (7.6, 9.7)
Diabetes	†	‡ ‡	126	‡ ‡	729	19.8 (18.4, 21.4)
Pneumonia and Influenza	†	‡ ‡	73	‡ ‡	517	13.8 (12.6, 15.1)
Chronic Lower Respiratory Disease and Asthma	†	‡ ‡	199	‡ ‡	1,881	50.6 (48.3, 53.0)

[a]Confidence Intervals (95%) For The Age Adjusted Rate Are Computed Using the Fay-Feuer (1997) Method
National Center for Health Statistics. Vintage 2013 postcensal estimates of the resident population of the United States (April 1, 2010, July 1, 2010–July 1, 2013), by year, County, single-year of age (0, 1, 2, .., 85 years and over), bridged race, Hispanic origin, and sex. Prepared under a collaborative arrangement with the U.S. Census Bureau. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm as of June 26, 2014, following release by the U.S. Census Bureau of the unbridged Vintage 2013 postcensal estimates by 5-year age group on June 26, 2014.
†Too few events to report or complimentary suppression of corresponding cell.
‡Does not meet standards of reliability or precision.
Data provided by the Office of Epidemiology and Scientific Support.

Behavioral Risk Factors

Because of the small numbers in Montana, behavioral risk factor health indicators are reported by Montana's Health Planning Regions as demonstrated below. Here is the link to the 2013 annual report, regional comparisons of 2013 health indicators start on page 32:
http://dphhs.mt.gov/Portals/85/publichealth/documents/BRFSS/Annual%20Reports/2013%20Annual/2013MTBRFSSAnnualReport.pdf