

Traill District Health Unit

Traill County Community Health Profile

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Data Sources

The Demographic Section of this report comes from the US Census Bureau (www.census.gov). Most tables are derived either from the census estimates for 2015 or from the Community Population Survey aggregated over a several year period. The table header describes the specific years from which the data is derived. The tables present the number of persons and percentages which in almost all circumstances represent the category specific percentage of all persons referenced by the table (e.g., percentage of persons age 15 and older who are married). Age specific poverty rates represent the percentage of each age group in poverty (e.g., percentage of children under five years in poverty).

The **Vital Statistics** section of this report comes from the birth and death records collected by the North Dakota Department of Health Vital Records. This data is aggregated over a five year period. All births and deaths represent the county of residence not the county of occurrence. In order to maintain a person's confidentiality, the number of events is blocked if fewer than six.

The **Adult Behavioral Risk Factor** section of this report is derived from the North Dakota Department of Health's Behavioral Risk Factor Surveillance Survey. The aggregated data (the number of years specified in the table) is continuously collected by telephone survey from persons 18 years and older residing in North Dakota. All data is self-reported data.

Data presented in the **Crime** section of this report is collected from the North Dakota Attorney General website located at: www.ag.nd.gov/Reports/BCIReports/CrimeHomicide/CrimeHomicide.htm.

Data presented in the **Child Health Indicators** section of this report is collected from the Kids Count Data Center website located at: www.datacenter.kidscount.org.

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POPULATION DATA

Table 1

Population by Age Group, 2016 Census Estimates				
Age Group	Trail County		North Dakota	
	Number	Percent	Number	Percent
0-9	1,006	12.5%	105,035	13.9%
10-19	1,080	13.4%	93,820	12.4%
20-29	975	12.1%	127,579	16.8%
30-39	830	10.3%	101,492	13.4%
40-49	907	11.3%	79,632	10.5%
50-59	1,155	14.4%	95,466	12.6%
60-69	1,000	12.5%	80,159	10.6%
70-79	572	7.1%	41,996	5.5%
80+	505	6.3%	32,773	4.3%
Total	8,030	100.0%	757,952	100.0%
0-17	1,822	22.7%	176,311	23.3%
65+	1,528	19.0%	109,999	14.5%

Table 2



Female Population and Percentage Female by Age, 2016 Census Estimates				
Age Group	Trail County		North Dakota	
	Number	Percent	Number	Percent
0-9	495	12.5%	51,145	13.9%
10-19	506	12.8%	45,349	12.3%
20-29	462	11.6%	58,619	15.9%
30-39	397	10.0%	47,001	12.7%
40-49	440	11.1%	37,992	10.3%
50-59	550	13.9%	46,809	12.7%
60-69	472	11.9%	39,397	10.7%
70-79	323	8.1%	22,236	6.0%
80+	323	8.1%	20,430	5.5%
Total	3,968	100.0%	368,978	100.0%
0-17	892	22.5%	85,921	23.3%
65+	852	21.5%	60,025	16.3%

Table 3

Race, Five Year Estimates (2012-2016)				
Race	Trail County		North Dakota	
	Number	Percentage	Number	Percentage
Total	8,075	100.0%	736,162	100%
White	7,683	95.1%	649,730	88.3%
Black	75	0.9%	14,761	2.0%
American Indian	76	0.9%	38,369	5.2%
Asian	20	0.2%	9,296	1.3%
Pacific Islander	9	0.1%	336	0.0%
Other	83	1.0%	5,691	0.8%
Multi-race	129	1.6%	17,979	2.4%

POPULATION DATA

Table 4

	Traill County		North Dakota	
	Number	Percent	Number	Percent
Total	8,172	100.0%	666,783	100.0%
In Family Households	6,472	79.2%	509,097	76.4%
In Non-Family Households	1,404	17.2%	132,651	19.9%
Total In Households	7,876	96.4%	641,748	96.2%
Institutionalized*	168	2.1%	9,675	1.5%
Non-institutionalized*	128	1.6%	15,360	2.3%
Total in Group Quarters	296	3.6%	25,035	3.8%

*2011 is the most recent data

Table 5

Population Change 2000-2015				
Census	Traill County	5 Year Change (%)	North Dakota	5 Year Change (%)
2000	8,477		642,200	
2005	8,121	-4.2%	635,365	-1.1%
2010	8,121	0.0%	672,591	5.9%
2015	8,011	-1.4%	754,859	12.2%



Table 6

Marital Status	Traill County		North Dakota	
	Number	Percent	Number	Percent
Total Age 15+	6,582	100.0%	594,068	100.0%
Never Married	1,652	25.1%	189,508	31.9%
Now Married	3,660	55.6%	308,915	52.0%
Separated	46	0.7%	5,347	0.9%
Widowed	606	9.2%	33,862	5.7%
Divorced	619	9.4%	56,436	9.5%

Table 7

Education	Traill County		North Dakota	
	Number	Percent	Number	Percent
Total	5,462	100.0%	477,607	100.0%
Less than 9th Grade	180	3.3%	16,846	3.5%
Some High School	245	4.5%	21,188	4.4%
High school or GRE	1,433	25.2%	131,086	27.4%
Some College/Assoc. Degree	2,120	38.8%	173,933	36.4%
Bachelor's Degree	1,087	19.9%	97,890	20.5%
Post Graduate Degree	397	7.3%	36,664	7.7%

POPULATION DATA

Table 8

Persons with Disability, 2016 ACS Five Year Estimates				
Group	Traill County		North Dakota	
	Number	Percent	Number	Percent
Total	7,893	100.0%	720,312	100.0%
Any Disability	882	11.2%	77,651	10.8%
No Disability	7,011	88.8%	642,661	89.2%
Self Care Disability	112	1.5%	11,469	1.7%
0-17 with any disability	83	9.4%	5,618	7.2%
18-64 with any disability	395	44.8%	38,310	49.3%
65+ with any disability	404	45.8%	33,723	43.4%

Table 9

Income and Poverty Status by Age Group, 2016 ACS Five Year Estimates				
	Traill County		North Dakota	
	Number	Percent	Number	Percent
Median Household Income		\$55,764		\$59,114
Per Capita Income		\$31,188		\$33,107
	Number	Percent	Number	Percent
Below Poverty Level	637	8.3%	79,314	11.2%
Under 5 Years	75	11.8%	7,618	9.6%
5 to 11 Years	72	11.3%	8,423	10.6%
12 to 17 Years	15	2.4%	5,349	6.7%
18 to 64 Years	363	57.0%	48,969	61.7%
65 to 74 Years	41	6.4%	3,532	4.5%
75 Years and Over	71	11.1%	5,423	6.8%

Table 10

Family Poverty and Childhood and Elderly Poverty, 2016 ACS Five Year Estimates				
	Traill County		North Dakota	
	Number	Percent	Number	Percent
Total Families	2,028	100.0%	183,466	100.00%
Families in Poverty	114	5.6%	12,659	6.90%
Families with Own Children	829	40.9%	84,714	46.17%
Families with Own Children in Poverty	85	4.2%	9,912	5.40%
Families with Own Children and Female Parent Only	132	6.5%	23,485	27.72%
Families with Own Children and Female Parent Only in Poverty	67	3.3%	8,408	4.58%
Total Known Children in Poverty	162	8.9%	21,390	12.1%
Total Known Age 65+ in Poverty	112	7.3%	8,955	8.1%

* Percent family poverty is percent of total families

Table 11

Age of Housing, 2016 ACS Five Year Estimates				
	Traill County		North Dakota	
	Number	Percent	Number	Percent
Housing Units: Total	3,810	100.0%	350,134	100.0%
1980 and Later	877	23.0%	149,657	42.7%
1970 to 1979	697	18.3%	67,069	19.2%
Prior to 1970	2,236	58.7%	133,408	38.1%

Vital Statistics Data

BIRTHS AND DEATHS DEFINITIONS

Formulas for calculating rates and ratios are as follows:

Birth Rate = Resident live births divided by the total resident population x 1000.

Pregnancies = Live births + Fetal deaths + Induced termination of pregnancy.

Pregnancy Rate = Total pregnancies divided by the total resident population x 1000.

Fertility Rate = Resident live births divided by female population (age 15-44) x 1000.

Teenage Birth Rate = Teenage births (age <20) divided by female teen population x 1000.

Teenage Pregnancy Rate = Teenage pregnancies (age <20) divided by female teen population x 1000.

Out of Wedlock (OOW) Live Birth Ratio = Resident OOW live births divided by total resident live births x 1000.

Out of Wedlock Pregnancy Ratio = Resident OOW pregnancies divided by total pregnancies x 1000.

Low Weight Ratio = Low weight births (birth weight < 2500 grams) divided by total resident live births x 1000.

Infant Death Ratio = Number of infant deaths divided by the total resident live births x 1000.

Childhood & Adolescent Deaths = Deaths to individuals 1 - 19 years of age.

Childhood and Adolescent Death Rate = Number of resident deaths (age 1 - 19) divided by population (age 1 - 19) x 100,000.

Crude Death Rate = Death events divided by population x 100,000.

Age-Adjusted Death Rate = Death events with age specific adjustments x 100,000 population.

Vital Statistics Data

BIRTHS AND DEATHS

Table 12

	Traill County		North Dakota	
	Number	Rate or Ratio	Number	Rate or Ratio
Live Births and Rate	484	11.9	54,644	16.3
Pregnancies and Rate	506	12.5	59,226	17.6
Fertility Rate		71.4		84.6
Teen Births and Rate	14	10.2	2,715	23.8
Teen Pregnancies and Rate	16	11.7	3,263	28.6
Out of Wedlock Births and Ratio	134	276.9	17,518	320.6
Out of Wedlock Pregnancies and Ratio	156	308.3	21,289	359.5
Low Birth Weight Birth and Ratio	18	37.2	3,448	63.1

Table 13

	Traill County		North Dakota	
	Number	Rate or Ratio	Number	Rate or Ratio
Infant Deaths and Ratio	NR	6.2	299	5.5
Child and Adolescent Deaths and Rate	NR	20.2	235	28.8
Total Deaths and Crude Rate	477	1,174.7	30,152	896.6

Table 14

	Traill County		North Dakota	
	Number	Adj. Rate	Number	Adj. Rate
All Causes	477	526.7	30,303	674.8
Heart Disease	127	115.1	6,571	140.3
Cancer	92	109.3	6,215	142.1
Stroke	27	24.3	1,546	31.9
Alzheimer's Disease	59	45.9	2,130	41.2
COPD	29	25.2	1,623	35.2
Unintentional Injury	24	42.7	1,764	45.9
Diabetes Mellitus	NR	9.2	908	20.6
Pneumonia and Influenza	7	5.9	791	16.5
Cirrhosis	7	16.5	429	11.6
Suicide	NR	4.4	630	18.4
Hypertension	NR	1.0	467	9.5

NR-Not Reportable

Vital Statistics Data

BIRTHS AND DEATHS

Table 15

Leading Causes of Death by Age Group for Trail County, 2012-2016			
Age	1	2	3
0-4	Congenital Anomaly*	No Reported Deaths	
5-14	No Reported Deaths		
15-24	Unintentional Injury*	No Reported Deaths	
25-34	No Reported Deaths		
35-44	No Reported Deaths		
45-54	Cancer*	Heart*	Unintentional Injury*
55-64	Cancer*	COPD*	Cirrhosis*
65-74	Cancer 9	Heart 8	COPD*
75-84	Cancer 12	Heart*	COPD*
85+	Heart 19	Influenza/Pneumonia 7	Diabetes 6

*Numbers less than six are not listed.

Table 16

Leading Causes of Death by Age Group for North Dakota, 2012-2016			
Age	1	2	3
0-4	Congenital Anomaly 53	Prematurity 50	Sudden Infant Death 45
5-14	Unintentional Injury 21	Suicide 6	Homicide*
15-24	Unintentional Injury 191	Suicide 127	Cancer 16
25-34	Unintentional Injury 211	Suicide 125	Heart 50
35-44	Unintentional Injury 184	Suicide 107	Heart 99
45-54	Cancer 350	Heart 282	Unintentional Injury 210
55-64	Cancer 1,094	Heart 646	Unintentional Injury 192
65-74	Cancer 1,563	Heart 902	COPD 348
75-84	Cancer 1,793	Heart 1,441	COPD 565
85+	Heart 3,141	Alzheimer's Disease 1,566	Cancer 1,261

*Numbers less than six are not listed.

ADULT BEHAVIORAL RISK FACTORS DEFINITION

The following three pages represent data received from the Adult Behavioral Risk Factor Surveillance Survey. Numbers given are point estimate percentages followed by 95% confidence intervals. Statistical significance can be determined by comparing confidence intervals between two geographic areas. To be statistically significant, confidence may not overlap. For example the confidence intervals 9.3 (8.3-10.2) and 10.8 (10.0-11.6) overlap (see picture below) so the difference between the two numbers is not statistically significant. That means that substantial uncertainty remains whether the apparent difference is due to chance alone (due to sampling variation) rather than representing a true difference in the prevalence of the condition in the two populations. The less they overlap, the more likely it is that the point estimates represent truly different prevalence's in the two populations.



ADULT BEHAVIORAL RISK FACTORS, 2011-2015

Table 17

ALCOHOL		Trails 2011-2015	North Dakota 2011-2015
Binge Drinking	Respondents who reported binge drinking (5 drinks for men, 4 drinks for women) one or more times in the past 30 days.	21.2 (14.4-28.1)	24.1 (23.3-24.9)
Heavy Drinking	Respondents who reported heavy drinking (more than 2 drinks per day for men, more than 1 drink per day for women) during the past 30 days.	4.6 (1.3-7.8)	6.7 (6.3-7.2)
Drunk Driving	Respondents who reported driving when they had too much to drink one or more times during the past 30 days.	5.0 (0.0-11.8)	3.4 (2.8-3.9)
ARTHRITIS			
Activity Limitation Due to Arthritis	Respondents who reported being limited in any usual activities because of arthritis or joint symptoms.	28.3 (14.2-42.5)	47.0 (45.2-48.9)
Doctor Diagnosed Arthritis	Respondents who reported ever have been told by a doctor or other health professional that they had some form of arthritis.	24.6 (19.0-30.3)	24.6 (24.0-25.2)
ASTHMA			
Ever Asthma	Respondents who reported ever having been told by a doctor, nurse or other health professional that they had asthma.	11.3 (6.4-16.2)	11.9 (11.3-12.4)
Current Asthma	Respondents who reported ever having been told by a doctor, nurse or other health professional that they had asthma and who still have asthma.	8.8 (4.3-13.3)	8.4 (7.9-8.9)
BODY WEIGHT			
Overweight, Not Obese	Respondents with a body mass index greater than or equal to 25 but less than 30 (overweight).	38.3 (30.6-45.9)	36.5 (35.7-37.3)
Obese	Respondents with a body mass index greater than or equal to 30 (obese).	38.7 (30.7-46.6)	30.3 (29.6-31.1)
Overweight or Obese	Respondents with a body mass index greater than or equal to 25 (overweight or obese).	76.9 (69.9-84.0)	66.8 (66.0-67.7)
CANCER			
Any Cancer	Respondents who reported ever having been told by a doctor, nurse or other health professional that they had cancer (excluding skin cancer).	10.0 (6.4-13.6)	6.4 (6.1-6.7)
CARDIOVASCULAR			
Heart Attack	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had a heart attack.	5.0 (2.8-7.3)	4.3 (4.0-4.5)
Angina	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had angina.	4.1 (2.0-6.3)	4.0 (3.7-4.2)
Stroke	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had a stroke.	2.5 (0.7-4.4)	2.4 (2.2-2.6)
Cardiovascular Disease	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had any of the following: heart attack, angina or stroke.	8.2 (5.2-11.2)	7.5 (7.2-7.8)

ADULT BEHAVIORAL RISK FACTORS, 2011-2015

Table 18

CHOLESTEROL		Trails 2011-2015	North Dakota 2011-2015
Never Cholesterol Test	Respondents who reported never having a cholesterol test.	23.0 (13.2-32.8)	22.8 (21.8-23.8)
No Cholesterol Test in Past 5 Years	Respondents who reported never having a cholesterol test in the past five years.	28.5 (18.4-38.5)	27.2 (26.2-28.3)
High Cholesterol	Respondents who reported that they had ever been told by a doctor, nurse or other health professional that they had high cholesterol.	40.9 (31.3-50.6)	36.1 (35.1-37.1)
CHRONIC LUNG DISEASE			
COPD	Respondents who have ever been told by a doctor, nurse or other health professional ever told you that they have COPD (chronic obstructive pulmonary disease), emphysema, or chronic bronchitis.	5.8 (2.9-8.8)	4.7 (4.4-5.0)
COLORECTAL CANCER			
No Colorectal Cancer Screening within Recommended Timeframe	Respondents age 50 and older who reported not having a fecal occult blood test in the past two years.	36.8 (21.8-51.8)	40.0 (38.3-41.7)
DIABETES			
Diabetes Diagnosis	Respondents who reported ever having been told by a doctor that they had diabetes.	9.0 (5.3-12.7)	8.5 (8.2-8.9)
FRUITS AND VEGETABLES			
Five Fruits and Vegetables	Respondents who reported that they do not usually eat 5 fruits and vegetables per day.	13.2 (6.4-20.0)	13.9 (13.2-14.6)
GENERAL HEALTH			
Fair or Poor Health	Respondents who reported that their general health was fair or poor.	15.7 (10.6-20.7)	14.0 (13.5-14.6)
Poor Physical Health	Respondents who reported they had 8 or more days in the last 30 when their physical health was not good.	10.0 (5.8-14.3)	11.3 (10.8-11.8)
Poor Mental Health	Respondents who reported they had 8 or more days in the last 30 when their mental health was not good.	11.5 (6.0-17.1)	11.4 (10.9-12.0)
Activity Limitation Due to Poor Health	Respondents who reported they had 8 or more days in the last 30 when poor physical or mental health kept them from doing their usual activities.	11.4 (4.7-18.0)	13.6 (12.8-14.4)
Any Activity Limitation	Respondents who reported being limited in any way due to physical, mental or emotional problem.	30.1 (23.5-36.8)	31.3 (30.6-32.1)



ADULT BEHAVIORAL RISK FACTORS, 2011-2015

Table 19

HEALTH CARE ACCESS		Trail 2011-2015	North Dakota 2011-2015
Health Insurance	Respondents who reported not having any form or health care coverage.	9.5 (4.5-14.4)	10.8 (10.2-11.3)
Access Limited by Cost	Respondents who reported needing to see a doctor during the past 12 months but could not due to cost.	3.9 (1.1-6.8)	7.8 (7.3-8.3)
No Personal Provider	Respondents who reported that they did not have one person they consider to be their personal doctor or health care provider.	16.7 (10.4-23.1)	26.7 (25.9-27.5)
HYPERTENSION			
High Blood Pressure	Respondents who reported ever having been told by a doctor, nurse or other health professional that they had high blood pressure.	23.7 (16.7-30.7)	29.9 (29.0-30.7)
IMMUNIZATION			
Influenza Vaccine	Respondents age 65 and older who reported that they did not have a flu shot in the past year.	33.7 (23.5-43.9)	40.1 (38.9-41.4)
Pneumococcal Vaccine	Respondents age 65 or older who reported never having had a pneumonia shot.	26.1 (16.8-35.5)	28.5 (27.3-29.7)
INJURY			
Falls	Respondents 45 years and older who reported that they had fallen in the past 12 months.	20.6 (11.5-29.7)	27.4 (26.2-28.7)
Seatbelt Use	Respondents who reported not always wearing their seatbelt.	53.3 (45.3-61.3)	61.4 (60.6-62.3)
ORAL HEALTH			
Dental Visit	Respondents who reported that they have not had a dental visit in the past year.	44.2 (32.0-56.4)	33.7 (32.4-35.0)
Tooth Loss	Respondents who reported they ever had a permanent tooth extracted.	20.9 (12.7-29.2)	14.3 (13.6-15.1)
PHYSICAL ACTIVITY			
No Leisure Physical Activity	Respondents who reported that they did not get the recommended amount of physical activity.	22.1 (16.0-28.1)	25.1 (24.4-25.8)
TOBACCO			
Current Smoking	Respondents who reported that they smoked every day or some days.	16.3 (10.3-22.3)	20.6 (19.9-21.4)
WOMEN'S HEALTH			
Pap Smear	Women 18 and older who reported that they have not had a pap smear in the past three years.	24.0 (8.8-39.2)	25.1 (23.1-27.1)
Mammogram Age 40+	Women 40 and older who reported that they have not had a mammogram in the past two years.	30.8 (15.6-45.9)	27.0 (25.4-28.6)

CRIME

Data presented on the North Dakota Attorney General website changed from previous years. In an effort to continue to provide this data, the variables are defined as follows which differs slightly from the 2010-2013 data:

- Rape: includes statutory rape and forcible rape
- Assault: only includes aggravated assault

Table 20

Traill County							
	2012	2013	2014	2015	2016	5 Year	5-Year Rate
Murder	0	0	0	0	0	0	0.0
Rape	0	1	3	0	1	5	12.4
Robbery	0	0	0	1	1	2	5.0
Assault	2	2	2	1	2	9	22.3
Violent crime	2	3	5	2	4	16	39.7
Burglary	16	11	8	10	17	62	153.8
Larceny	42	26	10	16	26	120	297.6
Motor vehicle theft	3	9	2	4	9	27	67.0
Property crime	61	46	20	30	52	209	518.3
Total	63	49	25	32	56	225	558.0

Table 21

North Dakota							
	2012	2013	2014	2015	2016	5 Year	5-Year Rate
Murder	20	14	19	21	17	91	2.5
Rape	243	237	389	428	365	1,662	44.9
Robbery	117	151	166	157	181	772	20.9
Assault	1,071	1,156	1,145	1,185	1,132	5,689	153.7
Violent crime	1,451	1,558	1,719	1,791	1,695	8,214	222.0
Burglary	2,200	2,656	2,490	3,212	3,051	13,609	367.8
Larceny	10,184	10,243	5,214	6,181	6,157	37,979	1,026.4
Motor vehicle theft	1,031	1,228	1,462	1,725	1,887	7,333	198.2
Property crime	13,415	14,127	9,166	11,118	11,095	47,826	1,292.5
Total	14,866	15,685	10,885	12,909	12,790	54,345	1,468.7



CHILD HEALTH INDICATORS

The following information is no longer available on the website:

- High school dropouts (dropouts per 1000 persons Grades 9-12)
- Children Ages 0-17 Impacted by Domestic Violence (Percentage of all children ages 0-17)
- Offenses Against Person—Juvenile Court Referrals (Percentage of total juvenile court referrals)
- Alcohol-Related Juvenile Court Referrals (Percentage of juvenile court referrals)

Table 22

Child Indicators: Education 2016	Traill County		North Dakota	
Children ages 3 to 21 enrolled in special education in public schools	158	12.0%	14,426	13.2%
Four-year high school cohort graduates	95.3%		88.7%	
Average expenditure per student in public school	\$11,002		\$11,418	

Table 23

Child Indicators: Economic Health 2016	Traill County		North Dakota	
TANF recipients ages 0-19	19	0.9%	4,649	2.3%
SNAP recipients ages 0-18	330	16.9%	37,758	20.3%
Eligible recipients of free or reduced price lunch	312	23.8%	37,928	32.6%
Medicaid recipients ages 0-20	528	24.1%	59,156	28.0%
Median income for families with children ages 0-17	\$79,438		\$75,818	
Children ages 0 to 17 living in low-income families (<200% of poverty)	513	28.8%	50,147	30.5%

Table 24

Child Indicators: Families and Child Care 2016	Traill County		North Dakota	
Women in labor force, by age of children (ages 0-17)	627	77.5%	59,532	79.4%
Children ages 0-17 living in a single parent family	349	19.3%	39,192	23.4%
Children in foster care	33	1.7%	2,397	1.3%
Victims of child abuse and neglect - services required (Percent of suspected victims)	15	53.6%	1,805	27.2%
Births to mothers receiving prenatal care beginning after first trimester or not at all	10	9.3%	1,612	14.2%

Table 25

Child Indicators: Juvenile Justice 2016	Traill County		North Dakota	
Children ages 10-17 referred to juvenile court	11	1.4%	3,471	4.9%

*LNE-Low Number Events