

Cass County Community Health Profile

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Health

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TABLE OF CONTENTS

Data Sources	1
Photograph Credits	1
POPULATION DATA	
Table 1: Population by Age Group	2
Table 2: Female Population and Percentage Female by Age	2
Table 3: Race	2
Table 4: Household Populations	3
Table 5: Population Change	3
Table 6: Marital Status of Persons Age 15 and Older	3
Table 7: Educational Attainment Among Persons 25+	3
Table 8: Persons with Disability	4
Table 9: Income and Poverty Status by Age Group	4
Table 10: Family Poverty and Childhood and Elderly Poverty	4
Table 11: Age of Housing	4
VITAL STATISTICS DATA	
Birth and Deaths Definitions	5
Table 12: Births	6
Table 13: Child Deaths	6
Table 14: Deaths and Age Adjusted Death Rate by Cause	6
Table 15: Top Three Cancer Types for County	6
Table 16: Leading Causes of Death by Age Group for County	7
Table 17: Leading Causes of Death by Age Group for North Dakota	7
ADULT BEHAVIORAL RISK FACTORS	
Table 18:	
• Adult Behavioral Risk Factors Definition	8
• Alcohol	9
• Arthritis	9
• Asthma	9
• Body Weight	9
• Cancer	9
• Cardiovascular	9
Table 19:	
• Cholesterol	10
• Chronic Lung Disease	10
• Colorectal Cancer	10
• Diabetes	10
• Fruits and Vegetables	10
• General Health	10
Table 20:	
• Health Care Access	11
• Hypertension	11
• Immunization	11
• Injury	11
• Oral Health	11
• Physical Activity	11
• Tobacco	11
• Women’s Health	11
CRIME	
Table 21: County	12
Table 22: North Dakota	12
CHILD RISK	
Table 23: Child Indicators—Education	13
Child Indicators—Economic Health	13
Child Indicators—Families and Child Care	13
Child Indicators—Juvenile Justice	13

Data Sources

The Demographic Section of this report comes from the US Census Bureau ([census.gov](https://www.census.gov)). Most tables are derived either from the census estimates for 2017 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: attorneygeneral.nd.gov/public-safety/crime-data.

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

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- ND Tourism Division – All other photos
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POPULATION DATA

Table 1

Population by Age Group, 2017 Census Estimates				
Age Group	Cass County		North Dakota	
	Number	Percent	Number	Percent
0-9	23,837	13.4%	103,467	13.7%
10-19	21,648	12.2%	93,853	12.4%
20-29	36,859	20.7%	125,485	16.6%
30-39	27,060	15.2%	102,161	13.5%
40-49	19,462	10.9%	79,080	10.5%
50-59	19,064	10.7%	92,294	12.2%
60-69	16,322	9.2%	81,859	10.8%
70-79	7,740	4.4%	43,942	5.8%
80+	5,795	3.3%	33,252	4.4%
Total	177,787	100.0%	755,393	100.0%
0-17	39,710	22.3%	175,772	23.3%
65+	20,735	11.7%	113,208	15.0%



Table 2



Female Population and Percentage Female by Age, 2017 Census Estimates				
Age Group	Cass County		North Dakota	
	Number	Percent	Number	Percent
0-9	11,714	13.4%	50,715	13.8%
10-19	10,502	12.0%	45,292	12.3%
20-29	17,739	20.2%	57,676	15.7%
30-39	12,721	14.5%	47,260	12.8%
40-49	9,285	10.6%	37,656	10.2%
50-59	9,560	10.9%	45,390	12.3%
60-69	8,284	9.5%	40,271	10.9%
70-79	4,151	4.7%	23,044	6.3%
80+	3,704	4.2%	20,790	5.6%
Total	87,660	100.0%	368,094	100.0%
0-17	19,453	22.2%	85,917	23.3%
65+	11,482	13.1%	61,469	16.7%

Table 3

Race, 5-Year Estimates (2013-2017)				
Race	Cass County		North Dakota	
	Number	Percent	Number	Percent
Total	170,620	100%	745,475	100%
White	151,029	88.5%	654,024	87.7%
Black	7,382	4.3%	17,365	2.3%
American Indian	1,700	1.0%	39,507	5.3%
Asian	5,010	2.9%	10,197	1.4%
Pacific Islander	57	0.0%	341	0.0%
Other	1,038	0.6%	6,600	0.9%
Multirace	4,404	2.6%	17,441	2.3%

POPULATION DATA

Table 4

Household Populations, 2011 ACS Five Year Estimates				
	Cass County		North Dakota	
	Number	Percent	Number	Percent
Total	147,222	100.0%	666,783	100.0%
In Family Households	104,374	70.9%	509,097	76.4%
In Non-Family Households	38,060	25.9%	132,651	19.9%
Total In Households	142,434	96.7%	641,748	96.2%
Institutionalized*	1042	0.7%	9,675	1.5%
Non-institutionalized*	3746	2.5%	15,360	2.3%
Total in Group Quarters	4788	3.3%	25,035	3.8%

*2011 is the most recent data

Table 5

Population Change 2000-2015				
Census	Cass County	5 Year Change (%)	North Dakota	5 Year Change (%)
2000	123,138		642,200	
2005	132,551	7.6%	635,365	-1.1%
2010	144,410	8.9%	672,591	5.9%
2015	162,500	12.5%	754,859	12.2%

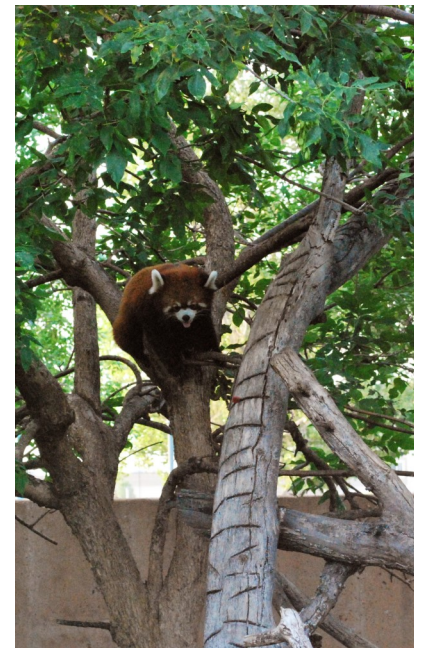


Table 6

Marital Status of Persons Age 15 and Older, 2017 ACS 5 Year Estimate				
Marital Status	Cass County		North Dakota	
	Number	Percent	Number	Percent
Total Age 15+	138,290	100.0%	600,828	100.0%
Never Married	52,688	38.1%	191,063	31.8%
Now Married	65,964	47.7%	314,233	52.3%
Separated	1,245	0.9%	4,807	0.8%
Widowed	5,946	4.3%	33,646	5.6%
Divorced	12,446	9.0%	56,478	9.4%

Table 7

Educational Attainment Among Persons 25+, 2017 ACS 5 Year Estimate				
Education	Cass County		North Dakota	
	Number	Percent	Number	Percent
Total	106,596	100.0%	485,490	100.0%
Less than 9th Grade	2,588	2.4%	15,927	3.3%
Some High School	3,438	3.2%	21,535	4.4%
High school or GRE	21,488	20.1%	131,653	27.1%
Some College / Assoc. Degree	38,210	35.9%	176,105	36.2%
Bachelor's degree	29,143	27.3%	102,497	21.1%
Post Graduate Degree	11,729	11.0%	37,773	7.8%

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

Births, 2013-2017				
	Cass County		North Dakota	
	Number	Rate or Ratio	Number	Rate or Ratio
Live Births and Rate	12,747	17.0	55,310	16.5
Pregnancies and Rate	14,245	19.0	59,796	17.8
Fertility Rate		72.5		85.7
Teen Births and Rate	387	14.5	2,482	21.7
Teen Pregnancies and Rate	517	19.2	2,988	25.5
Out of Wedlock Births and Ratio	3,400	266.7	17,629	318.8
Out of Wedlock Pregnancies and Ratio	4,632	332.7	21,295	361.9
Low Birth Weight Birth and Ratio	846	66.4	3,553	64.3

Table 12

Table 13

Child Deaths, 2013-2017				
	Cass County		North Dakota	
	Number	Rate or Ratio	Number	Rate or Ratio
Infant Deaths and Ratio	56	4.4	291	5.3
Child and Adolescent Deaths and Rate	24	13.2	223	27.4
Total Deaths and Crude Rate	5,212	691.6	30,758	910.1

Table 14

Deaths and Age Adjusted Death Rate by Cause, 2013-2017				
	Cass County		North Dakota	
	Number	Adj. Rate	Number	Adj. Rate
All Causes	5,212	591.2	30,758	760.2
Heart Disease	1,001	115.2	6,545	115.5
Cancer	1,099	126.1	6,284	161.1
Stroke	211	22.8	1,535	35.2
Alzheimer's Disease	364	39.4	2,118	44.9
COPD	286	28.6	1,674	39.8
Unintentional Injury	248	30.4	1,695	47.6
Diabetes	134	14.8	911	22.8
Pneumonia and Influenza	132	14.5	823	19.0
Cirrhosis	95	12.5	429	13.2
Suicide	124	15.9	671	20.9
Hypertension	93	10.3	483	11.05

Table 15

2013-2017 Resident Deaths Due to Cancer by Top Three Reported Types	
Cass County	North Dakota
Lung	Lung
Prostate	Colorectal
Breast	Pancreas

Vital Statistics Data

BIRTHS AND DEATHS

Table 16

Leading Causes of Death by Age Group for Cass County, 2013-2017			
Age	1	2	3
0-4	Perinatal Conditions 29	Congenital Anomaly 11	Sudden Infant Death*
5-14	Unintentional Injury*	Heart*	Cancer*
15-24	Suicide 22	Unintentional Injury 15	Cancer*
25-34	Suicide 30	Unintentional Injury 25	Cancer 14
35-44	Unintentional Injury 33	Suicide 21	Cancer 14
45-54	Cancer 63	Heart 45	COPD 34
55-64	Cancer 208	Heart 110	COPD 34
65-74	Cancer 307	Heart 131	COPD 57
75-84	Cancer 280	Heart 188	COPD 100
85+	Heart 501	Alzheimer's Disease 272	Cancer 212

*Numbers less than six are not listed.

Table 17

Leading Causes of Death by Age Group for North Dakota, 2013-2017			
Age	1	2	3
0-4	Perinatal Conditions 138	Congenital Anomaly 73	Sudden Infant Death 42
5-14	Unintentional Injury 26	Suicide 6	Congenital Anomaly*
15-24	Unintentional Injury 189	Suicide 134	Cancer 16
25-34	Unintentional Injury 216	Suicide 156	Heart 44
35-44	Unintentional Injury 171	Suicide 101	Cancer 88
45-54	Cancer 335	Heart 279	Unintentional Injury 188
55-64	Cancer 1,107	Heart 627	Unintentional Injury 194
65-74	Cancer 1,613	Heart 915	COPD 372
75-84	Cancer 1,788	Heart 1,426	COPD 554
85+	Heart 3,148	Alzheimer's Disease 1,569	Cancer 1,288

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 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, 2013-2017

Table 18

ALCOHOL		Cass 2013-2017	North Dakota 2013-2017
Binge Drinking	Respondents who reported binge drinking (5 drinks for men, 4 drinks for women) one or more times in the past 30 days.	27.1 (25.3-28.9)	24.0 (23.3-24.7)
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.	8.0 (6.9-9.2)	7.1 (6.6-7.5)
Drunk Driving	Respondents who reported driving when they had too much to drink one or more times during the past 30 days.	3.5 (2.1-4.8)	3.7 (3.2-4.3)
ARTHRITIS			
Doctor Diagnosed Arthritis	Respondents who reported ever have been told by a doctor or other health professional that they had some form of arthritis.	19.6 (18.3-20.9)	24.3 (23.7-24.9)
Activity Limitation Due to Arthritis	Respondents who reported being limited in any usual activities because of arthritis or joint symptoms.	47.0 (42.5-51.5)	46.7 (45.0-48.5)
ASTHMA			
Ever Asthma	Respondents who reported ever having been told by a doctor, nurse or other health professional that they had asthma.	11.7 (10.5-12.9)	12.6 (12.1-13.1)
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.	8.0 (7.0-9.0)	8.7 (8.3-9.2)
BODY WEIGHT			
Overweight, Not Obese	Respondents with a body mass index greater than or equal to 25 but less than 30 (overweight).	36.1 (34.3-37.9)	36.3 (35.5-37.1)
Obese	Respondents with a body mass index greater than or equal to 30 (obese).	29.6 (27.9-31.3)	31.9 (31.1-32.6)
Overweight or Obese	Respondents with a body mass index greater than or equal to 25 (overweight or obese).	65.7 (63.8-67.6)	68.2 (67.4-68.9)
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).	7.9 (7.1-8.6)	10.0 (9.7-10.4)
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.	3.1 (2.6-3.5)	4.2 (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.	3.3 (2.8-3.8)	3.9 (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.	1.9 (1.5-2.3)	2.6 (2.4-2.8)
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.	5.9 (5.2-6.6)	7.7 (7.4-8.1)

ADULT BEHAVIORAL RISK FACTORS, 2013-2017

Table 19

CHOLESTEROL		Cass 2013-2017	North Dakota 2013-2017
Never Cholesterol Test	Respondents who reported never having a cholesterol test.	36.2 (33.9-38.5)	37.5 (36.6-38.5)
No Cholesterol Test in Past 5 Years	Respondents who reported never having a cholesterol test in the past five years.	24.8 (22.5-27.1)	24.6 (23.6-25.5)
High Cholesterol	Respondents who reported that they had ever been told by a doctor, nurse or other health professional that they had high cholesterol.	31.7 (29.5-33.8)	34.0 (33.1-35.0)
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.	3.5 (2.9-4.1)	4.9 (4.6-5.2)
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.	28.2 (24.3-32.0)	36.7 (35.2-38.3)
DIABETES			
Diabetes Diagnosis	Respondents who reported ever having been told by a doctor that they had diabetes.	6.9 (6.2-7.7)	8.8 (8.4-9.1)
FRUITS AND VEGETABLES			
Five Fruits and Vegetables	Respondents who reported that they do not usually eat 5 fruits and vegetables per day.	16.4 (14.7-18.2)	15.0 (14.3-15.7)
GENERAL HEALTH			
Fair or Poor Health	Respondents who reported that their general health was fair or poor.	12.9 (11.7-14.1)	14.6 (14.0-15.1)
Poor Physical Health	Respondents who reported they had 8 or more days in the last 30 when their physical health was not good.	9.7 (8.7-10.7)	11.4 (11.0-11.9)
Poor Mental Health	Respondents who reported they had 8 or more days in the last 30 when their mental health was not good.	12.9 (11.6-14.2)	12.4 (11.8-12.9)
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.	13.6 (11.9-15.4)	14.3 (13.5-15.1)
Any Activity Limitation	Respondents who reported being limited in any way due to physical, mental or emotional problem.	49.2 (47.0-51.3)	49.7 (48.8-50.6)



ADULT BEHAVIORAL RISK FACTORS, 2013-2017

Table 20

HEALTH CARE ACCESS		Cass 2013-2017	North Dakota 2013-2017
Health Insurance	Respondents who reported not having any form or health care coverage.	8.7 (7.5-9.9)	8.8 (8.3-9.3)
Access Limited by Cost	Respondents who reported needing to see a doctor during the past 12 months but could not due to cost.	8.4 (7.2-9.5)	7.6 (7.1-8.1)
No Personal Provider	Respondents who reported that they did not have one person they consider to be their personal doctor or health care provider.	30.4 (28.6-32.3)	27.5 (26.7-28.2)
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.	26.8 (24.9-28.7)	29.9 (29.1-30.7)
IMMUNIZATION			
Influenza Vaccine	Respondents age 65 and older who reported that they did not have a flu shot in the past year.	35.4 (32.5-38.4)	40.4 (39.2-41.6)
Pneumococcal Vaccine	Respondents age 65 or older who reported never having had a pneumonia shot.	20.2 (17.7-22.8)	26.3 (25.2-27.4)
INJURY			
Falls	Respondents 45 years and older who reported that they had fallen in the past 12 months.	27.7 (24.7-30.8)	28.8 (27.6-30.0)
Seatbelt Use	Respondents who reported not always wearing their seatbelt.	80.3 (78.6-82.0)	70.7 (69.9-71.5)
ORAL HEALTH			
Dental Visit	Respondents who reported that they have not had a dental visit in the past year.	27.4 (24.6-30.2)	34.2 (33.0-35.4)
Tooth Loss	Respondents who reported they ever had a permanent tooth extracted.	9.4 (8.0-10.9)	13.5 (12.8-14.2)
PHYSICAL ACTIVITY			
No Leisure Physical Activity	Respondents who reported that they did not get the recommended amount of physical activity.	19.4 (18.0-20.8)	25.0 (24.3-25.7)
TOBACCO			
Current Smoking	Respondents who reported that they smoked every day or some days.	16.8 (15.3-18.2)	19.6 (18.9-20.2)
WOMEN'S HEALTH			
Pap Smear	Women 18 and older who reported that they have not had a pap smear in the past three years.	28.6 (23.5-33.6)	28.7 (26.7-30.8)
Mammogram Age 40+	Women 40 and older who reported that they have not had a mammogram in the past two years.	23.8 (20.0-27.6)	28.1 (26.5-29.6)

CRIME

Data presented on the North Dakota Attorney General website changed from previous years. In an effort to continue to provide this data, the 2016 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
- Theft: all other crimes against property

Table 21

Cass County							
	2013	2014	2015	2016	2017	5 year	5-Year Rate
Murder	3	4	5	4	3	19	2.2
Rape	111	106	118	107	137	579	67.7
Robbery	63	81	56	74	74	348	40.7
Aggravated Assault	352	310	340	361	386	1,749	204.7
Violent Crimes	529	501	519	546	600	2,695	315.3
Burglary	920	725	879	769	736	4,029	471.4
Theft	2,929	2,909	3,238	3,554	3,696	16,326	1,910.3
Motor Vehicle Theft	240	285	324	395	371	1,615	189.0
Property Crimes	4,089	3,919	4,441	4,718	4,803	21,970	2,570.7
Drug/Narcotic Violations	716	903	980	1,179	1,343	5,121	599.2
Drug Equipment Violations	700	878	977	1,113	1,304	4,972	581.8
Drug Crimes	1,416	1,781	1,957	2,292	2,647	10,093	1181.0
Total	6,034	6,201	6,917	7,556	8,050	34,758	4,067.1

Table 22

North Dakota							
	2013	2014	2015	2016	2017	5 year	5-Year Rate
Murder	14	19	21	17	12	83	2.2
Rape	394	420	454	390	434	2,092	55.4
Robbery	151	168	157	180	184	840	22.3
Aggravated Assault	1,164	1,164	1,199	1,134	1,217	5,878	155.7
Violent Crimes	1,723	1,771	1,831	1,721	1,847	8,893	235.6
Burglary	2,723	2,553	3,240	3,090	2,703	14,309	379.1
Theft	10,809	11,622	12,932	12,400	12,001	59,764	1583.4
Motor Vehicle Theft	1,307	1,513	1,724	1,890	1,670	8,104	214.7
Property Crimes	14,839	15,688	17,896	17,380	16,374	82,177	2177.3
Drug/Narcotic Violations	4,067	5,223	5,671	6,111	6,476	27,548	729.9
Drug Equipment Violations	3,838	4,712	5,143	5,495	5,995	25,183	667.2
Drug Crimes	7,905	9,935	10,814	11,606	12,471	52,731	1397.1
Total	24,467	27,394	30,541	30,707	30,692	143,801	3810.0

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 23

Child Indicators: Education 2017	Cass County		North Dakota	
	Count	Percent	Count	Percent
Children ages 3 to 21 enrolled in special education in public schools	3,217	13.0%	15,175	13.6%
Four-Year High School Cohort Graduation Rate	85.8%		87.0%	
Average Expenditures per Student in Public Schools	\$11,377		\$11,715	
Child Indicators: Economic Health 2017	Cass County		North Dakota	
	Count	Percent	Count	Percent
TANF Recipients Ages 0-19	778	1.7%	4,528	2.3%
SNAP Recipients Ages 0-18	8,723	21.0%	37,427	20.1%
Eligible recipients of free or reduced price lunch	7,265	27.6%	37,597	31.8%
Medicaid Recipients Ages 0-20	12,826	26.2%	59,899	28.3%
Median Income for Families with Children Ages 0-17	\$77,504		\$79,077	
Children ages 0 to 17 living in low-income families (<200% of poverty)	10,234	27.4%	50,602	30.3%
Child Indicators: Families and Child Care 2017	Cass County		North Dakota	
	Count	Percent	Count	Percent
Women in the labor force, by age of children (ages 0-17)	15,581	85.2%	60,526	79.6%
Children Ages 0-17 Living in Single Parent Families	9,062	24.0%	38,264	22.5%
Children in Foster Care	419	1.0%	2,471	1.3%
Victims of child abuse and neglect - services required (percent of suspected victims)	226	15.3%	1,981	29.4%
Births to mothers receiving prenatal care beginning after first trimester or not at all	126	5.0%	1,338	12.5%
Child Indicators: Juvenile Justice 2017	Cass County		North Dakota	
	Count	Percent	Count	Percent
Children Ages 10-17 Referred to Juvenile Court	903	5.9%	3,591	5.0%

