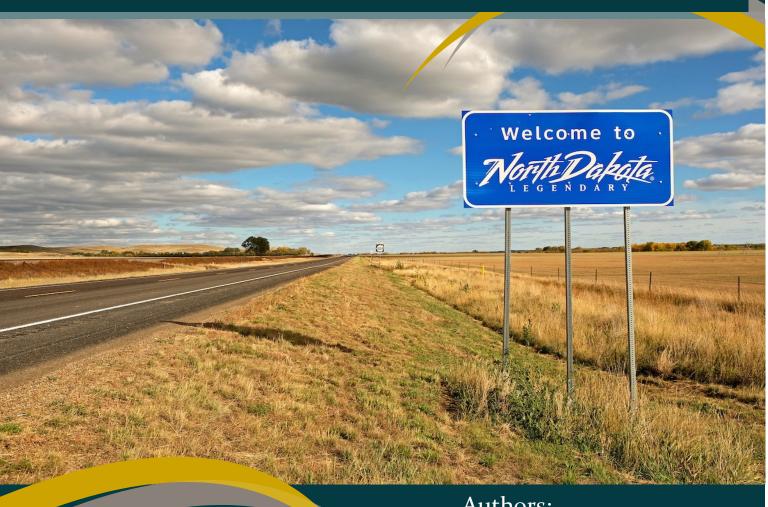
North Dakota Health Profile



December 2018

Dakota | Health Be Legendary.™

Authors:

Tracy K. Miller, PhD, MPH State Epidemiologist

Kodi Pinks, MPH **Epidemiologist**

Tara Haugen Epidemiologist

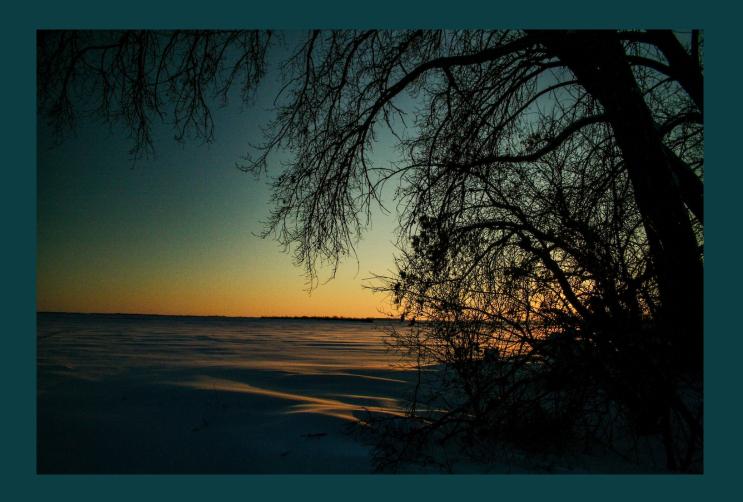
Matt Schmidt Epidemiologist Intern

Table of Contents

| POPULATION DATA | 1 |
|---|---|
| TABLE 1: POPULATION BY AGE GROUP | 1 |
| TABLE 2: FEMALE POPULATION & PERCENTAGE BY AGE | |
| TABLE 3: RACE | |
| TABLE 4: HOUSEHOLD POPULATIONS | 2 |
| TABLE 5: MARITAL STATUS OF PERSONS AGE 15+ | 2 |
| TABLE 6: EDUCATIONAL ATTAINMENT AMONG PERSONS 25+ | 2 |
| TABLE 7: POPULATION CHANGE | 3 |
| Figure 1: North Dakota: A story told through demographics | 3 |
| TABLE 8: PERSONS WITH DISABILITY | |
| TABLE 9: INCOME AND POVERTY STATUS BY AGE GROUP | 4 |
| TABLE 10: FAMILY, CHILDHOOD, & ELDERLY POVERTY | 4 |
| TABLE 11: AGE OF HOUSE | 4 |
| VITAL STATISTICS DATA | 5 |
| | |
| BIRTH & DEATH DEFINITIONS | |
| TABLE 12: BIRTHS | |
| TABLE 14: DEATHS AND AGE ADJUSTED DEATH RATE BY CAUSE | |
| TABLE 14. DEATHS AND AGE ADJUSTED DEATH RATE BY CAUSE | |
| | |
| ADULT BEHAVIORAL RISK FACTORS | 8 |
| | |
| TABLE 16: | 9 |
| TABLE 16:Adult Behavioral Risk Factors Definition | |
| | 9 |
| Adult Behavioral Risk Factors Definition | 9 9 |
| Adult Behavioral Risk Factors Definition | 9 9 |
| Adult Behavioral Risk Factors Definition | 9 9 9 |
| Adult Behavioral Risk Factors Definition | 9 9 9 9 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular | 9 9 9 9 9 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer | 9 9 9 9 9 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular | 9 9 9 9 9 9 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: | 9 9 9 9 9 9 10 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol | 9 9 9 9 9 9 10 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease | 9 9 9 9 9 9 10 10 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer | 9 9 9 9 9 10 10 10 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes | |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes Fruits & Vegetables General Health | 9 9 9 9 10 10 10 10 10 10 10 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes Fruits & Vegetables General Health | 9 9 9 9 10 10 10 10 10 10 10 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes Fruits & Vegetables General Health | 9 9 9 9 10 10 10 10 10 10 11 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes Fruits & Vegetables General Health TABLE 18: Health Care Access | 9 9 9 9 10 10 10 10 10 10 11 11 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes Fruits & Vegetables General Health TABLE 18: Health Care Access Hypertension Immunization Injury | 9 9 9 9 10 10 10 10 10 11 11 11 |
| Adult Behavioral Risk Factors Definition Alcohol Arthritis Asthma Body Weight Cancer Cardiovascular TABLE 17: Cholesterol Chronic Lung Disease Colorectal Cancer Diabetes Fruits & Vegetables General Health TABLE 18: Health Care Access Hypertension Immunization | 9 9 9 9 10 10 10 10 10 11 11 11 |

Table of Contents

| CRIME | 12 |
|---|----|
| Table 19: north dakota | 12 |
| Figure 2: ND 5-year Crime Rate | 12 |
| TABLE 20: UNITED STATES | |
| Figure 3: USA 5-year Crime Rate | |
| Figure 4: North dakota DUI rates | 14 |
| FIGURE 5: NORTH DAKOTA DRUG/NARCOTICS CRIME | 15 |
| CHILD RISK | 16 |
| TABLE 21: CHILD INDICATORS-EDUCATION | 16 |
| TABLE 22: CHILD INDICATORS-ECONOMIC HEALTH | 16 |
| Table 23: Child indicators-families & Childcare | 16 |
| TABLE 24: CHILD INDICATORS-JUVENILE JUSTICE | 16 |



Data Sources

The Demographic Section of this report comes from the US Census Bureau (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 confidentially, 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/crime-reports and the Federal Bureau of Investigation Uniform Code Reporting.

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

Photography Credits

Permission to use photos granted by:

ND Tourism Division

ndtourism.com







Table 1

| Population by Age Group 2016 Census Estimates | | | | | | |
|---|--------------|---------|-------------|---------|--|--|
| Age | North Dakota | | United S | States | | |
| Age | Number | Percent | Number | Percent | | |
| 0-9 | 105,035 | 13.9% | 40,356,836 | 12.5% | | |
| 10-19 | 93,820 | 12.4% | 41,748,232 | 12.9% | | |
| 20-29 | 127,579 | 16.8% | 45,271,912 | 14.0% | | |
| 30-39 | 101,492 | 13.4% | 42,560,264 | 13.2% | | |
| 40-49 | 79,632 | 10.5% | 40,643,874 | 12.6% | | |
| 50-59 | 95,466 | 12.6% | 43,819,164 | 13.6% | | |
| 60-69 | 80,159 | 10.6% | 36,303,119 | 11.2% | | |
| 70-79 | 41,996 | 5.5% | 20,178,142 | 6.2% | | |
| 80+ | 32,773 | 4.3% | 12,245,970 | 3.8% | | |
| Total | 757,952 | 100.0% | 323,127,513 | 100.0% | | |
| 0-17 | 176,311 | 23.3% | 73,642,285 | 22.8% | | |
| 65+ | 109,999 | 14.5% | 49,244,195 | 15.2% | | |

Table 2

| Female Population & Percent Female by Age, 2016 Census Estimates | | | | | | |
|--|---------|---------|-------------|---------|--|--|
| Age | | Dakota | United S | States | | |
| Age | Number | Percent | Number | Percent | | |
| 0-9 | 51,145 | 13.9% | 19,740,060 | 12.0% | | |
| 10-19 | 45,349 | 12.3% | 20,427,654 | 12.5% | | |
| 20-29 | 58,619 | 15.9% | 22,149,373 | 13.5% | | |
| 30-39 | 47,001 | 12.7% | 21,215,558 | 12.9% | | |
| 40-49 | 37,992 | 10.3% | 20,491,598 | 12.5% | | |
| 50-59 | 46,809 | 12.7% | 22,405,574 | 13.7% | | |
| 60-69 | 39,397 | 10.7% | 19,050,568 | 11.6% | | |
| 70-79 | 22,236 | 6.0% | 11,000,333 | 6.7% | | |
| +08 | 20,430 | 5.5% | 7,567,872 | 4.6% | | |
| Total | 368,978 | 100.0% | 164,048,590 | 100.0% | | |
| 0-17 | 85,921 | 23.3% | 36,033,070 | 22.0% | | |
| 65+ | 60,025 | 16.3% | 27,451,369 | 16.7% | | |

Table 3

| Race, 5-Year Estimates (2012-2016) | | | | | | | |
|------------------------------------|----------|---------|-------------|---------|--|--|--|
| | North D | akota | United S | tates | | | |
| Race | Number I | Percent | Number | Percent | | | |
| Total | 736,162 | 100% | 318,558,162 | 100% | | | |
| White | 649,730 | 88.3% | 233,657,078 | 73.3% | | | |
| Black | 14,761 | 2.0% | 40,241,818 | 12.6% | | | |
| Am. Indian | 38,369 | 5.2% | 2,597,817 | 0.8% | | | |
| Asian | 9,296 | 1.3% | 16,614,625 | 5.2% | | | |
| Pac. Islander | 336 | 0.0% | 560,021 | 0.2% | | | |
| Other | 5,691 | 0.8% | 15,133,856 | 4.8% | | | |
| Multi-race | 17,979 | 2.4% | 9,752,947 | 3.1% | | | |



| Household Population | ons, 2011 ACS Five Year Estimates North Dakota United States | | | |
|--------------------------|--|---------|-------------|---------|
| | Number | Percent | Number | Percent |
| Total | 666,783 | 100.0% | 306,603,772 | 100.0% |
| In Family Households | 509,097 | 76.4% | 250,256,921 | 81.6% |
| In Non-Family Households | 132,651 | 19.9% | 48,340,627 | 15.8% |
| Total In Households | 641,748 | 96.2% | 298,597,548 | 97.4% |
| Institutionalized* | 9,675 | 1.5% | 3,993,659 | 1.3% |
| Non-institutionalized* | 15,360 | 2.3% | 4,012,565 | 1.3% |
| Total in Group Quarters | 2,5035 | 3.8% | 8,006,224 | 2.6% |

Table 4

Table 5

| Marital Status of Persons Age 15 and Older, 2016 ACS 5 Year Estimate | | | | | | | |
|--|---------|----------|-------------|---------|--|--|--|
| | North | n Dakota | United S | tates | | | |
| Marital Status | Number | Percent | Number | Percent | | | |
| Total Age 15+ | 594,068 | 100.0% | 257,518,302 | 100.0% | | | |
| Never Married | 189,508 | 31.9% | 84,981,040 | 33.0% | | | |
| Now Married | 308,915 | 52.0% | 123,866,303 | 48.1% | | | |
| Separated | 5,347 | 0.9% | 5,407,884 | 2.1% | | | |
| Widowed | 33,862 | 5.7% | 15,193,580 | 5.9% | | | |
| Divorced | 56,436 | 9.5% | 28,327,013 | 11.0% | | | |

| Educational Attainment Among Persons 25+ 2016 ACS 5 Year Estimate North Dakota United States | | | | | | | |
|---|----------|--------|-------------|---------|--|--|--|
| Education | Number I | | Number | Percent | | | |
| Total | 477,607 | 100.0% | 213,649,147 | 100.0% | | | |
| Less than 9th Grade | 16,846 | 3.5% | 11,913,913 | 5.6% | | | |
| Some High School | 21,188 | 4.4% | 15,904,467 | 7.4% | | | |
| High school or GRE | 131,086 | 27.4% | 58,820,411 | 27.5% | | | |
| Some College/Assoc. Degree | 173,933 | 36.4% | 62,242,569 | 29.2% | | | |
| Bachelor's degree | 97,890 | 20.5% | 40,189,920 | 18.8% | | | |
| Post Graduate Degree | 36,664 | 7.7% | 24,577,867 | 11.5% | | | |



Table 7

| | Population Change 2000-2015 | | | | | | |
|--------|-----------------------------------|-------------------|-------------|-------------------|--|--|--|
| Census | Census North Dakota United States | | | | | | |
| 2000 | 642,200 | 5 Year Change (%) | 282,162,411 | 5 Year Change (%) | | | |
| 2005 | 635,365 | -1.1% | 295,516,599 | 4.7% | | | |
| 2010 | 672,591 | 5.9% | 309,338,421 | 4.7% | | | |
| 2015 | 754,859 | 12.2% | 321,039,839 | 3.8% | | | |

North Dakota: A Story Told Through Demographics

North Dakota County Population Change, 2010-2015



Figure 1

Population estimates every 5 years have typically shown steady growth in North Dakota. Between the 2010 census and 2015 estimate, though, North Dakota saw a gain of over 82,000 people, or 12.2%.

According to the North Dakota Census Office, this dramatic increase, as indicated by the map to the left, comes largely from domestic immigration due to North Dakota's oil industry, peaking in 2012.

The greatest population increase occurred in McKenzie County, rising over 6,000 people or 101% in just five years. Every county with similar substantial growth was also on the western side of the state. This change in population has not only changed the demographics of each county and state as a whole, but has also made prevalent criminal and health matters that many of these communities have never experienced before. (The darker the color in Figure 2, the greater the population change).

| Persons with Disability, 2016 ACS Five Year Estimate North Dakota United States | | | | | | | | |
|---|-------------------|---------|-------------|---------|--|--|--|--|
| Group | North L Number | Percent | Number | Percent | | | | |
| Total | 720,312 | 100.0% | 313,576,137 | 100.0% | | | | |
| Any Disability | 77,651 | 100.0% | 39,272,529 | 100.0% | | | | |
| No Disability | 642,661 | 89.2% | 274,303,608 | 87.5% | | | | |
| NO Disability | 042,001 | 05.270 | 214,303,000 | 07.570 | | | | |
| Self Care Disability | 11,469 | 1.7% | 7,877,505 | 2.7% | | | | |
| | | • | | | | | | |
| 0-17 with any disability | 5,618 | 7.2% | 3,042,011 | 7.7% | | | | |
| 18-64 with any disability | 38,310 | 49.3% | 20,188,257 | 51.4% | | | | |
| 65+ with any disability | 33,723 | 43.4% | 16,042,261 | 40.8% | | | | |

Table 8

| Income and Poverty Status by Age Group, 2016 ACS Five Year Estimate | | | | | | |
|---|----------|----------|--|--|--|--|
| North Dakota United States | | | | | | |
| Median Household Income | \$59,114 | \$55,322 | | | | |
| Per Capita Income \$33,107 \$29,829 | | | | | | |

Table 9

| | Number | Percent | Number | Percent |
|---------------------|--------|---------|------------|---------|
| Below Poverty Level | 79,314 | 11.2% | 46,932,225 | 15.1% |
| Under 5 years | 7,618 | 9.6% | 4,614,933 | 9.8% |
| 5 to 11 years | 8,423 | 10.6% | 6,129,270 | 13.1% |
| 12 to 17 years | 5,349 | 6.7% | 4,591,580 | 9.8% |
| 18 to 64 years | 48,969 | 61.7% | 27,401,015 | 58.4% |
| 65 to 74 years | 3,532 | 4.5% | 2,210,809 | 4.7% |
| 75 years and over | 5.423 | 6.8% | 1 984 618 | 12% |

Table 10

| Family Poverty and Childhood and Elderly Poverty, | 2016 ACS | Five Year I | stimates | |
|--|----------|-------------|------------|----------|
| | North | Dakota | United S | States |
| | Number | Percent* | Number | Percent* |
| Total Families | 183,466 | 100% | 77,608,829 | 100% |
| Families in Poverty | 12,659 | 6.9% | 8,536,971 | 11.0% |
| | | | | |
| Families with Own Children | 84,714 | 46.2% | 37,149,436 | 47.9% |
| Families with Own Children in Poverty | 9,912 | 5.4% | 6,464,002 | 8.3% |
| | | | | |
| Families with Own Children and Female Parent Only | 17,081 | 9.3% | 15,146,112 | 40.8% |
| Families with Own Children and Female Parent Only in Poverty | 6,115 | 3.3% | 6,013,006 | 7.8% |
| | | | | |
| Total Known Children in Poverty | 21,390 | 12.1% | 15,335,783 | 20.8% |
| Total Known Age 65+ in Poverty | 8,955 | 8.1% | 4,195,427 | 8.5% |

| Age of Housing, 2016 ACS Five Year Estimates | | | | | | | | |
|--|---------|---------|-------------|---------|--|--|--|--|
| | North | Dakota | United | States | | | | |
| | Number | Percent | Number | Percent | | | | |
| Housing units: Total | 350,134 | 100% | 134,054,899 | 100% | | | | |
| 1980 and Later | 149,657 | 42.7% | 59,921,149 | 44.7% | | | | |
| 1970 to 1979 | 67,069 | 19.2% | 20,901,765 | 15.6% | | | | |
| Prior to 1970 | 133,408 | 38.1% | 53,231,985 | 39.7% | | | | |

Formulas for calculating rates and ratios are as follows:

Birth Rate = Resident live births divided by the total resident population x 1,000.

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

Pregnancy Rate = Total pregnancies divided by the total resident population x 1,000.

Fertility Rate = Resident live births divided by female population (age 15-44) x 1,000.

Teenage Birth Rate = Teenage births (age <20) divided by female teen population x 1,000.

Teenage Pregnancy Rate = Teenage pregnancies (age < 20) divided by female teen population x 1,000.

Out of Wedlock (OOW) Live Birth Ratio = Resident OOW live births divided by total resident live births x 1.000.

Out of Wedlock Pregnancy Ratio = Resident OOW pregnancies divided by total pregnancies x 1,000.

Low Weight Ratio = Low weight births (birth weight < 2500 grams) divided by total resident live births x 1,000.

Infant Death Ratio = Number of infant deaths divided by the total resident live births x 1,000.

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) \times 100,000.

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

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



Vital Statistics Data

| Births, 2012-2016 | | | | | | | | |
|--------------------------------------|----------------------------|------------------|------------|------------------|--|--|--|--|
| | North Dakota United States | | | | | | | |
| | Number | Rate or Ratio | Number | Rate or Ratio | | | | |
| Live Births and Rate | 52,514 | 15.6 | 19,797,470 | 12.4 | | | | |
| Pregnancies and Rate | 57,065 | 17.0 | N/A | N/A | | | | |
| Fertility Rate | 81 | .3 | 1765.5 | | | | | |
| Teen Births and Rate | 2,876 | 25.2 | 209,809 | 20.0 | | | | |
| Teen Pregnancies and Rate | 3,377 | 29.6 | N/A | N/A | | | | |
| Out of Wedlock Births and Ratio | 17,005 | 323.8 | 1,569,796 | N/A | | | | |
| Out of Wedlock Pregnancies and Ratio | 20,769 | 364.0 | N/A | N/A | | | | |
| Low Birth Weight Birth and Ratio | 3,299 | 62.8 | 321,839 | N/A | | | | |

Table 12

Table 13

| Child Deaths, 2012-2016 | | | | | | | | |
|--------------------------------------|----------------------------|------------------|---------|------------------|--|--|--|--|
| | North Dakota United States | | | | | | | |
| | Number | Rate or Ratio | Number | Rate or Ratio | | | | |
| Infant Deaths and Ratio | 290 | 5.5 | 116,900 | 5.9 | | | | |
| Child and Adolescent Deaths and Rate | 249.0 | 30.6 | 96,968 | 24.8 | | | | |
| Total Deaths and Crude Rate | 29,930 | | | | | | | |

| Deaths and Age Adjusted Death Rate by Cause, 2012-2016 | | | | | | |
|--|---------|--------------|--|--|--|--|
| | North I | | | | | |
| | Number | Adj. Rate | | | | |
| All Causes | 30,303 | 674.8 | | | | |
| Heart Disease | 6,571 | 140.3 | | | | |
| Cancer | 6,215 | 142.1 | | | | |
| Stroke | 1,546 | 31.9 | | | | |
| Alzheimer's Disease | 2,130 | 41.2 | | | | |
| COPD | 1,623 | 35.2 | | | | |
| Unintentional Injury | 1,764 | 45.9 | | | | |
| Diabetes Mellitus | 908 | 20.6 | | | | |
| Pneumonia and Influenza | 791 | 16.5 | | | | |
| Cirrhosis | 429 | 11.6 | | | | |
| Suicide | 630 | 18.4 | | | | |
| Hypertension | 467 | 9.5 | | | | |

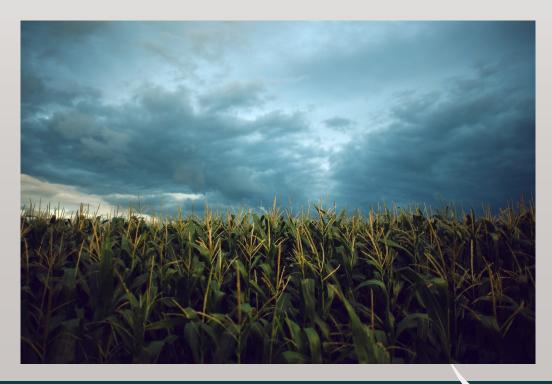


Vital Statistics Data

Table 15

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

^{*}Number 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, 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 16 | | |
|--------------------------------------|---|---------------------------|
| | ALCOHOL | 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. | 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. | 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. | 3.4 (2.8-3.9) |
| | 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. | 24.6 (24.0-25.2) |
| Activity Limitation Due to Arthritis | Respondents who reported being limited in any usual activities because of arthritis or joint symptoms. | 47.0 (45.2-48.9) |
| | ASTHMA | |
| Ever Asthma | Respondents who reported ever having been told by a doctor, nurse or other health professional that they had asthma. | 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. | 8.4 (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). | 36.5 (35.7-37.3) |
| Obese | Respondents with a body mass index greater than or equal to 30 (obese). | 30.3 (29.6-31.1) |
| Overweight or Obese | Respondents with a body mass index greater than or equal to 25 (overweight or obese). | 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). | 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. | 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. | 4.0 (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. | 2.4 (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. | 7.5 (7.2-7.8) |

Adult Behavioral Risk Factors, 2011-2015

Table 17

| | CHOLESTEROL | North Dakota 2011-2015 |
|--|--|---------------------------|
| Never Cholesterol Test | Respondents who reported never having a cholesterol test. | 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. | 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. | 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. | 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. | 40.0 (38.3-41.7) |
| | DIABETES | |
| Diabetes Diagnosis | Respondents who reported ever having been told by a doctor that they had diabetes. | 8.5 (8.2-8.9) |
| | FRUITS AND VEGETABLES | |
| Five Fruits & Vegetables | Respondents who reported that they do not usually eat 5 fruits and vegetables per day. | 13.9 (13.2-14.6) |
| | GENERAL HEALTH | |
| Fair or Poor Health | Respondents who reported that their general health was fair or poor. | 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. | 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. | 11.4 (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. | 13.6 (12.8-14.4) |
| Any Activity Limitation | Respondents who reported being limited in any way due to physical, mental or emotional problem. | 31.3 (30.6-32.1) |



Adult Behavioral Risk Factors, 2011-2015

Table 18

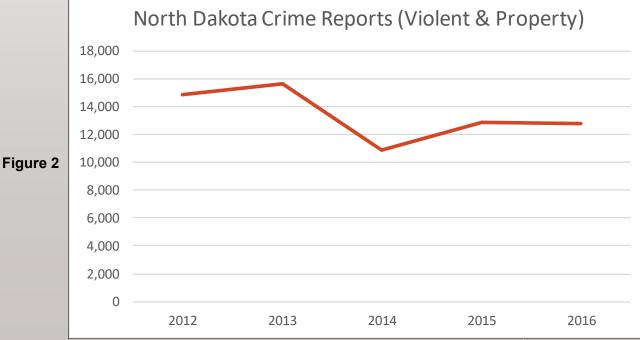
| | HEALTH CARE ACCESS | North Dakota 2011-2015 |
|---------------------------------|---|---------------------------|
| Health Insurance | Respondents who reported not having any form or health care coverage. | 10.8 (10.2-11.3) |
| Access Limited by Cost | Respondents who reported needing to see a doctor during the past 12 months but could not due to cost. | 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. | 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. | 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. | 40.1 (38.9-41.4) |
| Pneumococcal Vaccine | Respondents age 65 or older who reported never having had a pneumonia shot. | 28.5 (27.3-29.7) |
| | INJURY | |
| Falls | Respondents 45 years and older who reported that they had fallen in the past 12 months. | 27.4 (26.2-28.7) |
| Seatbelt Use | Respondents who reported not always wearing their seatbelt. | 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. | 33.7 (32.4-35.0) |
| Tooth Loss | Respondents who reported they ever had a permanent tooth extracted. | 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. | 25.1 (24.4-25.8) |
| | TOBACCO | |
| Current Smoking | Respondents who reported that they smoked every day or some days. | 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. | 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. | 27.0 (25.4-28.6) |

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 19

| 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 |

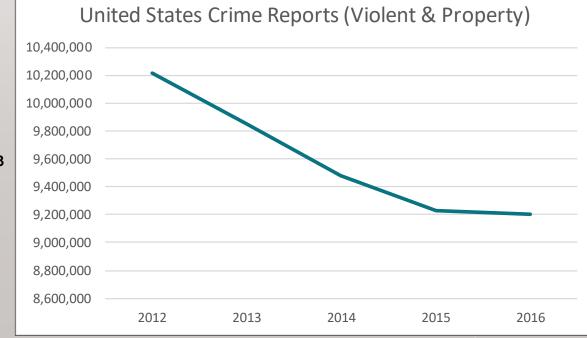


Data presented on the Federal Bureau of Investigations (FBI) Uniform Code Reporting (UCR) website changed in 2013. The variables are defined as follows which differs slightly from previous data:

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

Table 20

| United States | | | | | | | |
|---------------------|------------|-----------|-----------|-----------|-----------|------------|-------------|
| | 2012 | 2013 | 2014 | 2015 | 2016 | 5 Year | 5-Year Rate |
| Murder | 14,866 | 14,319 | 14,249 | 15,696 | 17,250 | 76,380 | 4.8 |
| Rape | 85,141 | 113,695 | 118,027 | 126,134 | 130,603 | 573,600 | 36.0 |
| Robbery | 355,051 | 345,095 | 325,802 | 327,374 | 332,198 | 1,685,520 | 105.7 |
| Assault | 762,009 | 726,575 | 741,291 | 764,449 | 803,007 | 3,797,331 | 238.1 |
| Violent crime | 1,217,067 | 1,199,684 | 1,199,369 | 1,233,653 | 1,283,058 | 6,132,831 | 384.6 |
| | | | | | | | |
| Burglary | 2,109,932 | 1,931,835 | 1,729,806 | 1,579,527 | 1,515,096 | 8,866,196 | 556.0 |
| Larceny | 6,168,874 | 6,018,632 | 5,858,496 | 5,706,346 | 5,638,455 | 29,390,803 | 1,843.2 |
| Motor vehicle theft | 723,186 | 700,294 | 689,527 | 707,758 | 765,484 | 3,586,249 | 224.9 |
| Property crime | 9,001,992 | 8,650,761 | 8,277,829 | 7,993,631 | 7,919,035 | 33,924,213 | 2,127.5 |
| | | | | | | | |
| Total | 10,219,059 | 9,850,445 | 9,477,198 | 9,227,284 | 9,202,093 | 38,773,986 | 2,431.7 |



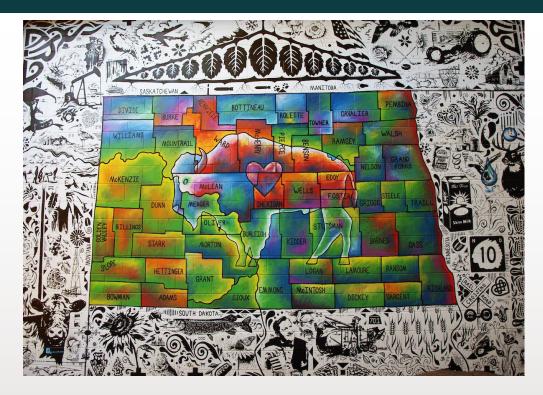
DUI Rates Among ND Counties, 2012-2016



According to the CDC's 2015 BRFSS data, North Dakota ranked first in the United States in binge drinking, as 24.9% of respondents reported binge drinking behavior (5 drinks for men, 4 drinks for women) one or more times in the past 30 days. This figure is notably higher than the national average of 17%. Additionally, the 2012 BRFSS survey found North Dakota 3rd in the nation for drunk driving behind Montana and Nebraska, as 3.3% of respondents reported driving after they've had too much to drink one or more times in the past 30 days.

The ND Attorney General's Office crime reports indicate that from 2012 to 2016 there were a total of 26,257 DUI arrests reported in the state. (DUI's are recorded where the offense occurred) Overall, North Dakota's 5-year DUI rate was 709.61. The highest 5-year DUI rates among ND counties belonged to McKenzie County (3,187.47), Divide County (2,079.38), and Dunn County (1,592.66). Almost all northwest counties in the state had a higher reported DUI rate in the timespan than North Dakota as a whole. This can most likely be attributed to the rapid change in population that the region had encountered during that time period.

Despite the calculated DUI rates, the most reported DUIs occurred in Cass County with 5,071 DUIs being reported in the five year timespan, followed by Burleigh County (4,011) and Ward County (2,695).



The North Dakota Attorney General's Office reported that between 2012 to 2016 there were 37,576 crimes committed involving drugs or narcotics. This figure includes crimes reported by each county's Sheriff 's Office, Police Departments, the ND Highway Patrol, and Drug Task Forces.

As illustrated by the figure below, North Dakota's drug crime has been increasing year by year. In 2012, 7,261 drug or narcotic related crimes were reported. Five years later, in 2016, the figure rose 59.8% to 11,606 reported crimes. Much of this is contributed to the influx of people to North Dakota during the oil boom.

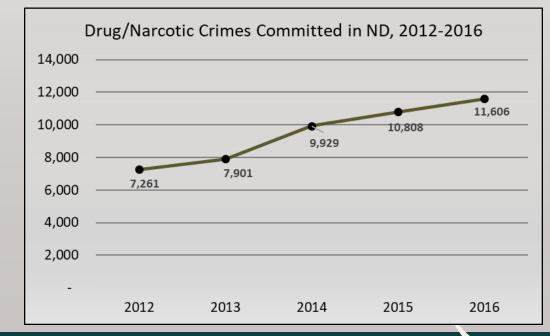


Figure 5

Child Risk

| Child Indicators: Education 2016 | North | Dakota | United States | | |
|---|--------|---------|---------------|---------|--|
| Cilia malcators. Education 2010 | Count | Percent | Count | Percent | |
| Children ages 3 to 21 enrolled in special education in public schools | 14,426 | 13.2% | 6,677,000 | 13.0% | |
| Four-year high school cohort graduation rate | 87. | 3% | 84.0 | % | |
| Average expenditures per student in public schools | \$11 | ,945 | \$13,1 | 19 | |

Table 21

| Child by disease we Fee we wie blee he 2016 | | Dakota | United States | |
|--|----------|---------|---------------|---------|
| Child Indicators: Economic Health 2016 | Count | Percent | Count | Percent |
| TANF recipients ages 0 to 19 | 4,649 | 2.4% | 2,056,116 | 2.8% |
| SNAP recipients ages 0 to 18 | 37,758 | 20.5% | 44,144,890 | N/A |
| Eligible recipients of free or reduced price lunch | 37,928 | 32.6% | N/A | N/A |
| Medicaid recipients ages 0 to 20 | 59,156 | 28.1% | N/A | N/A |
| Median income for families with children ages 0 to 17 | \$75,818 | | \$69,200 | |
| Children ages 0 to 17 living in low-income families (<200% of poverty) | 50,147 | 30.5% | 29,976,000 | 41.0% |

Table 22

| Child Indicators: Families and Child Care 2016 | North Dakota | | United States | |
|---|--------------|---------|---------------|---------|
| Child indicators: Families and Child Care 2016 | Count | Percent | Count | Percent |
| Women in the labor force, by age of children (ages 0-17) | 59,532 | 79.4% | 25,100,000 | 69.9% |
| Children ages 0 to 17 living in a single parent families | 39,192 | 23.4% | 24,267,000 | 35.0% |
| Children in foster care | 2,381 | 1.3% | 437,465 | N/A |
| Victims of child abuse and neglect - services required (percent of suspected victims) | 1,805 | 27.2% | N/A | N/A |
| Births to mothers receiving prenatal care beginning after first trimester or not at all | 1,612 | 14.2% | N/A | N/A |

| Ta | hle | 24 | |
|----|-----|----|--|

| Child Indicators: Juvenile Justice 2016 | North Dakota | | United States | |
|---|--------------|---------|---------------|---------|
| | Count | Percent | Count | Percent |
| Children ages 10 to 17 referred to juvenile court | 3,471 | 4.9% | 850,500 | 2.6% |

NORTHDakota | Health

Be Legendary.[™]

600 East Boulevard Ave., Dept. 301 Bismarck, ND 58505-0200 701.328.2372

Fax: 701.328.2785

Email: health@nd.gov

ndhealth.gov