

North Dakota American Indian Health Profile

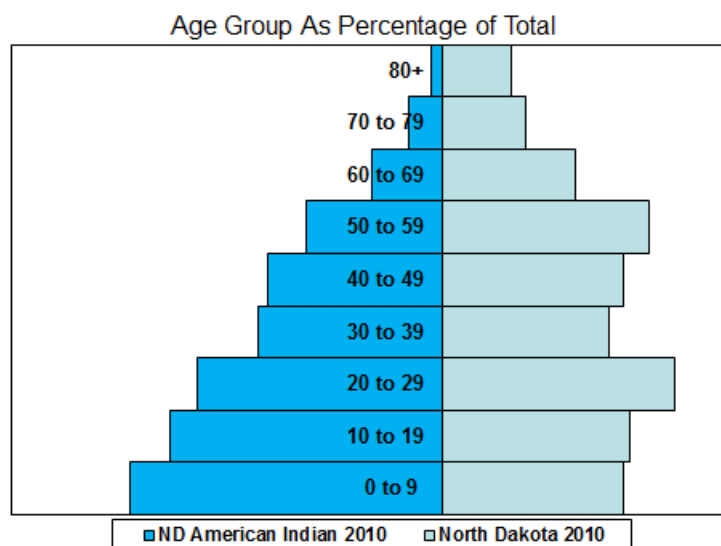
POPULATION

The Demographic Section of this report comes from the US Census Bureau (www.census.gov). Most tables are derived either from the full (100%) census taken in 2010 or from the Community Population Survey for 2010. The table showing percent population change uses census data from 2000 and 1990 also. Tables present 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 which is in poverty (e.g., percentage of children under five years in poverty).

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Population by Age Group				
Age Group	American Indians		North Dakota	
	Number	Percent	Number	Percent
0-9	7,935	21.7%	84,671	12.6%
10-19	6,898	18.9%	87,264	13.0%
20-29	6,227	17.0%	108,552	16.1%
30-39	4,674	12.8%	77,954	11.6%
40-49	4,445	12.1%	84,577	12.6%
50-59	3,471	9.5%	96,223	14.3%
60-69	1,782	4.9%	61,901	9.2%
70-79	875	2.4%	39,213	5.8%
80+	284	0.8%	32,236	4.8%
Total	36,591	100.0%	672,591	100.0%
0-17	13,323	36.4%	149,871	22.3%
65+	1,890	5.2%	97,477	14.5%

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Female Population and Percentage Female by Age				
Age Group	American Indians		North Dakota	
	Number	Percent	Number	Percent
0-9	3933	49.6%	41,330	48.8%
10-19	3366	48.8%	42,277	48.4%
20-29	3122	50.1%	50,571	46.6%
30-39	2383	51.0%	37,144	47.6%
40-49	2331	52.4%	41,499	49.1%
50-59	1852	53.4%	47,283	49.1%
60-69	962	54.0%	30,699	49.6%
70-79	500	57.1%	21,453	54.7%
80+	192	67.6%	20,471	63.5%
Total	18641	50.9%	332,727	49.5%

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American Indian Population Change, 2000 to 2010				
Census	American Indian	10 Year Change	North Dakota	10 Year Change
2000	31,329	(%)	642,200	(%)
2010	36,591	16.8%	672,591	4.7%

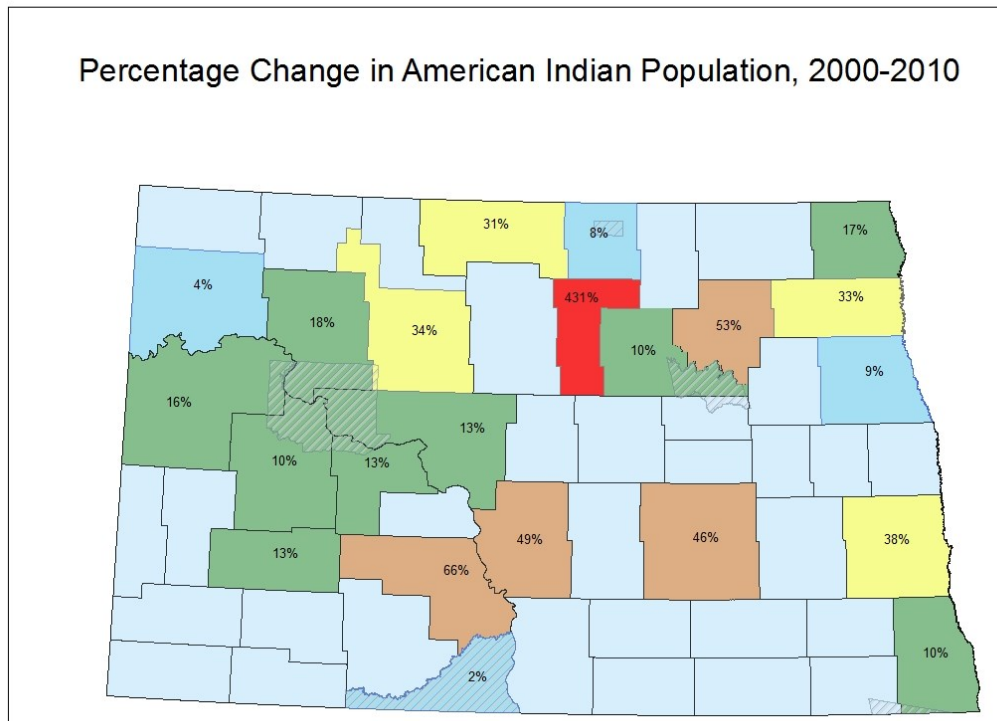
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Population Distribution				
County	Total Population	Number American Indians*	Percent of County	Percent of All AI in State
Rolette	13937	10763	77.2%	29.4%
Benson	6660	3663	55.0%	10.0%
Sioux	4153	3492	84.1%	9.5%
Burleigh	81308	3393	4.2%	9.3%
Mountrail	7673	2348	30.6%	6.4%
Cass	149778	1827	1.2%	5.0%
Grand Forks	66861	1657	2.5%	4.5%
Ward	61675	1630	2.6%	4.5%
McKenzie	6360	1412	22.2%	3.9%
Morton	27471	1000	3.6%	2.7%
Ramsey	11451	994	8.7%	2.7%
Williams	22398	899	4.0%	2.5%
McLean	8962	625	7.0%	1.7%
Dunn	3536	449	12.7%	1.2%
Richland	16321	330	2.0%	0.9%
Stutsman	21100	300	1.4%	0.8%
Stark	24199	240	1.0%	0.7%
Cumulative for listed counties		35022		95.7%
Percentage of total in reservation counties				63.1%
=reservation county				
*American Indian=Single Race Only				

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Persons Reporting American Indian Race as Single Race or Multi-Racial, 2010			
		Number	Percent
Single Race		36,591	86.9%
Multi-race		5,509	13.1%
Total		42,100	100.0%

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Disability Status by Age, 2007-2010				
	American Indians		North Dakota	
	Number	Percent*	Number	Percent*
Total	34,357	100.0%	649,963	100.0%
Under 18	12,662		147,774	
With a disability	506	4.0%	3,998	2.7%
Without a disability	12,156	96.0%	143,776	97.3%
18-64	20,274		411,489	
With a disability	3,547	17.5%	35,295	8.6%
Without a disability	16,727	82.5%	376,194	91.4%
65 and older	1,421		90,700	
With a disability	707	49.8%	32,470	35.8%
Without a disability	714	50.2%	58,230	64.2%

*Within Age Group

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Household Size		
	American Indians	North Dakota
Avg. Persons per Household	3.14	2.3
Persons per Household	Percent of Households	Percent of Households
1 Person	22.0	31.5
2 Persons	22.7	36.5
3 Persons	17.7	13.7
4 Persons	15.5	10.9
5 Persons	11.3	5.0
6 Persons	5.4	1.7
7+ Persons	5.3	0.8

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Marital Status of Persons 15 Years and Older, 2006-2010				
Marital Status	American Indians		North Dakota	
	Number	Percent	Number	Percent
Total Age 15+	24,243	100.0%	538,799	100.0%
Never Married	12,170	50.2%	163,256	30.3%
Now Married	7,639	31.5%	288,257	53.5%
Separated	498	2.1%	4,310	0.8%
Widowed	1,191	4.9%	36,100	6.7%
Divorced	2,745	11.3%	46,876	8.7%

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Educational Attainment, 2006-2010, ACS				
	American Indian		North Dakota	
	Estimate	Percent	Estimate	Percent
Population 25 years and over	17,707	100.0%	429,333	100.0%
Less than 9th grade	1,109	6.3%	24,043	5.6%
9th to 12th grade, no diploma	2,041	11.5%	21,467	5.0%
High school graduate or GED	4,569	25.8%	120,643	28.1%
Some college, no degree	5,149	29.1%	99,176	23.1%
Associate's degree	2,162	12.2%	51,091	11.9%
Bachelor's degree	1,685	9.5%	83,291	19.4%
Graduate or professional degree	992	5.6%	29,624	6.9%

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Income and Poverty Status by Age Group, 2006-2010					
		American Indians		North Dakota	
Median Household Income		\$25,255		\$48,670	
Per Capita Income		\$11,967		\$26,021	
		Number	Percent	Number	Percent
Below Poverty Level		13,230	39.8%	84,895	13.0%
Under 5 years		2,249	58.2%	8,373	19.0%
5 to 11 years		2,128	49.7%	9,748	17.2%
12 to 17 years		1,586	38.4%	5,995	12.5%
18 to 64 years		6,877	35.1%	49,610	12.1%
65 to 74 years		390	28.1%	11,169	12.1%
75 years and Over		111	30.2%	7,072	14.0%
Total Known Children in Poverty		5,963	48.6%	17,485	11.7%
Total Known Age 65+ in Poverty		501	36.1%	11,221	11.5%

Vital Statistics Data

BIRTHS AND DEATHS

Vital Statistics Data comes from the birth and death records collected by the State of North Dakota for 2010. All births and deaths represent the state of residence not the state of occurrence. 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 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.

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Births, American Indians and North Dakota, 2006-2010				
	American Indians*		North Dakota	
	Number	Rate	Number	Rate
Live Births and Rate	5,498	30	44,427	13
Fertility Rate		131		71
Teen Births and Rate	967	71	3,337	19
	Number	Ratio	Number	Ratio
Out of Wedlock Births and Ratio	3767	685	14,506	327
Low Birth Weight Birth and Ratio	363	66	2,919	66

*Births if either parent reports American Indian as primary or secondary race

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Deaths, American Indians and North Dakota, 2006-2010				
	American Indians		North Dakota	
	Number	Rate	Number	Rate
Infant Deaths and Rate	75	15.8	281	6.3
Child and Adolescent Deaths	65	93	285	35
Total Deaths and crude rate	1,313	718	28,984	862

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American Indian Births, Infant Deaths and Infant Mortality Rates, 2000-2011			
	Births	Infant Deaths	IMR
2000	900	14	15.6
2001	892	14	15.7
2002	921	10	10.9
2003	980	7	7.1
2004	1099	8	7.3
2005	1082	8	7.4
2006	979	15	15.3
2007	944	15	15.9
2008	980	11	11.2
2009	949	19	20
2010	889	15	16.9
2011	1079	13	12

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American Indian* Infant Death Rates by Geographic Area, 2000-2009			
	ND	SD	US
AI Infant Mortality Rate	13.5	14	7.5

*US statistics: Identification of race may vary from state method.

Vital Statistics Data

BIRTHS AND DEATHS

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Deaths and Age Adjusted Death Rate by Cause, 2006-2010		
	American Indians Number (Adj. Rate)	North Dakota Number (Adj. Rate)
All Causes	1399 (1465)	28,923 (687)
Heart Disease	180 (221)	7,121 (162)
Cancer	269 (301)	6,544 (162)
Stroke	40 (60)	1,696 (38)
Alzheimers Disease	23 (51)	1,936 (40)
COPD	54 (81)	1,607 (39)
Unintentional Injury	204 (128)	1,545 (42)
Diabetes Mellitus	92 (111)	1,072 (26)
Pneumonia and Influenza	18 (26)	702 (15)
Cirrhosis	86 (68)	289 (8)
Suicide	57 (29)	462 (14)

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Age Specific Death Rates 2006-2010				
	American Indians		North Dakota	
	Deaths	Rate	Deaths	Rate
0-9	68	171	284	65
10-19	52	151	218	50
20-29	71	228	410	76
30-39	107	458	447	115
40-49	179	805	1101	260
50-59	201	1158	2148	446
60-69	234	2626	3261	1054
70-79	217	4960	5567	2839
80+	171	12042	15487	9609

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Inury Deaths, 2006-2010				
	American Indians		North Dakota	
	Number	Rate	Number	Rate
Motor Vehicle	49	27	251	7
Falls	5	3	164	5
Poisoning	6	3	37	1.1
Drowning	<5	NA	21	0.6
Fire	<5	NA	9	0.3

Vital Statistics Data

BIRTHS AND DEATHS

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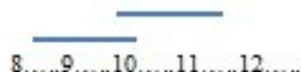
Leading Causes of Death by Age Group for American Indians, 2006-2010			
Age	1	2	3
0-4	SIDS 19	Congenital Anomaly 9	Unintentional Injury 6
5-14	Unintentional Injury 6	Suicide	Cancer
		Congenital Anomaly	
15-24	Unintentional Injury 38	Suicide 24	Heart Disease 7
25-34	Unintentional Injury 41	Cirrhosis 7	Suicide 6
		Heart Disease 7	
35-44	Unintentional Injury 39	Cirrhosis 35	Heart Disease 19
45-54	Heart Disease 43	Cancer 42	Unintentional Injury 30
55-64	Cancer 62	Heart Disease 49	Diabetes 22
65-74	Cancer 78	Heart Disease 39	Diabetes 25
75-84	Cancer 47	Heart Disease 40	Diabetes 19
85+	Heart Disease 26	Cancer 9	Alzheimer's 8
			COPD 8

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Leading Causes of Death by Age Group for North Dakota, 2006-2010			
Age	1	2	3
0-4	Congenital Anomaly 69	Prematurity 44	SIDS 40
5-14	Unintentional Injury 26	Cancer 10	Congenital Anomaly 6
15-24	Unintentional Injury 184	Suicide 109	Cancer 20
25-34	Unintentional Injury 166	Suicide 91	Heart 32
35-44	Unintentional Injury 173	Heart 94	Cancer 88
45-54	Cancer 493	Heart 335	Unintentional Injury 194
55-64	Cancer 1001	Heart 579	Unintentional Injury 137
65-74	Cancer 1562	Heart 843	COPD 313
75-84	Cancer 1992	Heart 1797	COPD 626
85+	Heart 3421	Alzheimer's Dz 1391	Cancer 1352

ADULT BEHAVIORAL RISK FACTORS, 2006-2010

Adult Behavioral Risk Factor data are derived from data from 2010 when available, or 2009 otherwise. The survey is continuously collected by telephone survey from persons 18 years and older. All data is self-reported data. 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 prevalences in the two populations.



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	ALCOHOL	American Indians	North Dakota
Binge Drinking	Respondents who reported binge drinking (5 drinks for men, 4 drinks for women) one or more times in the past 30 days.	26.0 (22.4-29.6)	21.1 (20.5-21.6)
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	4.2 (2.8-5.7)	5.0 (4.7- 5.3)
Drunk Driving	Respondents who reported driving when they had too much to drink one or more times during the past 30 days	11.1* (6.2-16.1)	5.7 (5.1- 6.2)
ARTHRITIS			
Chronic Joint Symptoms	Respondents who reported pain, aching or stiff in a joint during the past 30 days which started more than 3 months ago	29.1 (24.3-33.9)	35.3 (34.4-36.2)
Activity Limitation Due to Arthritis	Respondents who reported being limited in any usual activities because of arthritis or joint symptoms.	15.8 (12.4-19.3)	13.0 (12.4-13.5)
Doctor Diagnosed Arthritis	Respondents who reported ever have been told by a doctor or other health professional that they had some form of arthritis.	23.2 (19.3-27.0)	27.2 (26.5-27.9)
ASTHMA			
Ever Asthma	Respondents who reported ever having been told by a doctor, nurse or other health professional that they had asthma.	14.3 (11.5-17.0)	10.7 (10.3-11.1)
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.	10.9 (8.4-13.4)	7.5 (7.2- 7.9)
BODY WEIGHT			
Overweight But Not Obese	Respondents with a body mass index greater than or equal to 25 but less than 30	34.6 (30.7-38.4)	38.7 (38.0-39.3)
Obese	Respondents with a body mass index greater than or equal to 30	41.2 (37.3-45.1)	25.4 (24.9-26.0)
Overweight or Obese	Respondents with a body mass index greater than or equal to 25	75.7 (72.1-79.3)	64.1 (63.5-64.8)

ADULT BEHAVIORAL RISK FACTORS, 2006-2010

	CARDIOVASCULAR	American Indians	North Dakota
Heart Attack	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had a heart attack.	4.2 (2.9- 5.5)	4.0 (3.8- 4.2)
Angina	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had angina.	3.1 (2.0- 4.1)	4.0 (3.8- 4.3)
Stroke	Respondents who reported ever having been told by a doctor, nurse or other health care professional that they had a stroke.	3.0 (1.8- 4.1)	2.2 (2.1- 2.4)
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 (5.8- 9.3)	7.4 (7.1- 7.7)
CHOLESTEROL			
Never Cholesterol Test	Respondents who reported never having a cholesterol test	37.8 (33.0-42.7)	23.0 (22.2-23.8)
No Cholesterol Test in Past 5 Years	Respondents who reported not having a cholesterol test in the past five years	40.4 (35.5-45.3)	28.2 (27.4-29.0)
High Cholesterol	Respondents who reported that they had ever been told by a doctor, nurse or other health professional that they had high cholesterol.	24.6 (19.9-29.4)	34.0 (33.2-34.8)
COLORECTAL CANCER			
Fecal Occult Blood	Respondents age 50 and older who reported not having a fecal occult blood test in the past two years.	91.9 (88.0-95.8)	78.3 (77.5-79.2)
Never Sigmoidoscopy	Respondents age 50 and older who reported never having had a sigmoidoscopy or colonoscopy	60.0 (50.9-69.2)	42.6 (41.4-43.7)
No Sigmoidoscopy in Past 5 Years	Respondents age 50 and older who reported not having a sigmoidoscopy or colonoscopy in the past five years.	71.6 (64.0-79.1)	55.0 (54.0-56.1)
DIABETES			
Diabetes Diagnosis	Respondents who reported ever having been told by a doctor that they had diabetes.	13.5 (10.9-16.1)	6.9 (6.6- 7.2)
FRUITS AND VEGETABLES			
Five Fruits and Vegetables	Respondents who reported that they do not usually eat 5 fruits and vegetables per day	77.4 (72.8-82.0)	78.4 (77.7-79.1)
GENERAL HEALTH			North Dakota %
Fair or Poor Health	Respondents who reported that their general health was fair or poor	22.8 (19.7-26.0)	12.6 (12.2-12.9)
Poor physical Health	Respondents who reported they had 8 or more days in the last 30 when their physical health was not good	15.8 (13.0-18.7)	10.2 (9.8-10.5)
Poor Mental Health	Respondents who reported they had 8 or more days in the last 30 when their mental health was not good	16.3 (13.3-19.3)	9.6 (9.2-10.0)
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.	10.4 (8.1-12.8)	5.7 (5.4- 6.0)
Any Activity Limitation	Respondents who reported being limited in any way due to physical, mental or emotional problem.	18.0 (15.2-20.7)	16.0 (15.6-16.5)

ADULT BEHAVIORAL RISK FACTORS, 2006-2010

	HEALTH CARE ACCESS	American Indians	North Dakota
Health Insurance	Respondents who reported not having any form of health care coverage	34.3† (30.4-38.1)	11.4 (11.0-11.9)
Access Limited by Cost	Respondents who reported needing to see a doctor during the past 12 months but could not due to cost.	15.1 (12.4-17.8)	6.8 (6.4- 7.1)
No Personal Provider	Respondents who reported that they did not have one person they consider to be their personal doctor or health care provider.	39.1 (35.2-43.2)	23.5 (23.0-24.1)
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.	23.2 (19.2-27.2)	25.0 (24.4-25.7)
IMMUNIZATION			
Influenza Vaccine	Respondents age 65 and older who reported that they did not have a flu shot in the past year	33.8 (23.2-44.5)	28.6 (27.6-29.6)
Pneumococcal Vaccine	Respondents age 65 or older who reported never having had a pneumonia shot.	32.8 (21.9-43.8)	30.0 (28.9-31.0)
INJURY			
Seatbelt Use	Always wear a seatbelt	50.7 (44.2-57.2)	41.9 (40.9-42.9)
Falls	Fallen in the past three months	23.0* (16.1-29.9)	15.5 (14.7-16.2)
ORAL HEALTH			North Dakota %
Dental Visit	Respondents who reported that they have not had a dental visit in the past year	35.2* (30.1-40.3)	29.5 (28.8-30.3)
Tooth Loss	Respondents who reported they had lost 6 or more permanent teeth due to gum disease or decay.	14.7 (11.6-17.8)	16.0 (15.5-16.6)
PHYSICAL ACTIVITY			
Recommend Physical Activity	Respondents who reported that they did not get the recommended amount of physical activity	45.5 (40.5-50.5)	50.5 (49.7-51.4)
No Leisure Physical Activity	Respondents who reported that they participated in no leisure time physical activity	7.6 (4.8-10.4)	6.9 (6.5- 7.4)
TOBACCO			
Current Smoking	Respondents who reported that they smoked every day or some days	49.0 (45.1-52.9)	19.8 (19.3-20.4)
WOMEN'S HEALTH			
Pap Smear	Women 18 and older who reported that they have not had a pap smear in the past three years	10.5 (6.8-14.2)	14.0 (13.1-15.0)
Mammogram Age 40+	Women 40 and older who reported that they have not had a mammogram in the past two years	23.6 (22.4-24.7)	24.3 (23.3-25.3)

† Nearly all report IHS

* Near significance

ADULT BEHAVIORAL RISK FACTORS, 2001-2005 and 2006-2010

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	ALCOHOL	American Indians 2001-2005	American Indians 2006-2010
Binge Drinking	Respondents who reported binge drinking (5 drinks for men, 4 drinks for women) one or more times in the past 30 days.	25.6 (20.5-30.8)	26.3 (21.2-31.4)
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 (2.2-7.0)	4.0 (2.1-5.9)
Drunk Driving	Respondents who reported driving when they had too much to drink one or more times during the past 30 days	7.8 (2.0-13.6)	16.3 (7.4-23.5)
BODY WEIGHT			
Overweight But Not Obese	Respondents with a body mass index greater than or equal to 25 but less than 30	37.4 (31.8-43.0)	32.3 (27.1-37.5)
Obese	Respondents with a body mass index greater than or equal to 30	36.2 (31.0-41.5)	45.1 (39.5-50.7)
Overweight or Obese	Respondents with a body mass index greater than or equal to 25	73.6 (68.3-78.9)	77.4 (72.4-82.4)
DIABETES			
Diabetes Diagnosis	Respondents who reported ever having been told by a doctor that they had diabetes.	14.7 (8.9-20.4)	13.1 (10.2-16.1)
HEALTH CARE ACCESS			
Access Limited by Cost	Respondents who reported needing to see a doctor during the past 12 months but could not due to cost.	13.0 (8.8-17.1)	16.2 (12.6-19.7)
No Personal Provider	Respondents who reported that they did not have one person they consider to be their personal doctor or health care provider.	34.4 (29.0-39.8)	42.9 (37.3-48.5)
TOBACCO			
Current Smoking	Respondents who reported that they smoked every day or some days	51.6 (46.1-57.2)	47.0 (41.8-52.5)

CANCER INCIDENCE AND MORTALITY, 2008

Cancer incidence data is derived from high quality state cancer registries, including North Dakota. Mortality of specific cancers is derived from vital statistics data. Data is shown for common cancers for which a preventive action exists to prevent disease or death.

All Cancer Incidence by Race, 2005-2009		
	Rate	Average Annual Cases
All Races	509.8	3362
American Indian	554.6	108
Female Breast Cancer Incidence by Race, 2005-2009		
	Rate	Average Annual Cases
All Races	149.6	552
American Indian	154.1	18
Colorectal Cancer Incidence by Race, 2005-2009		
	Rate	Average Annual Cases
All Races	54.9	411
American Indian	58.3	11
Lung/Bronchus Cancer Incidence by Race, 2005-2009		
	Rate	Average Annual Cases
All Races	57.1	413
American Indian	114.4	19