

4.3.5 Economic, Ecologic, Historic, and Social Values

Agriculture is the primary industry in North Dakota. Agricultural production comprises about 90 percent of the state’s total land area. North Dakota leads the nation in the production of several crops such as wheat, particularly the durum variety used for pasta, barley, canola, soybeans, sunflowers, and flax. (Wikipedia, 2007a) Table 4.3.5A and Map 4.3.5B show the market value of agricultural products sold as calculated in the 2002 agriculture census.

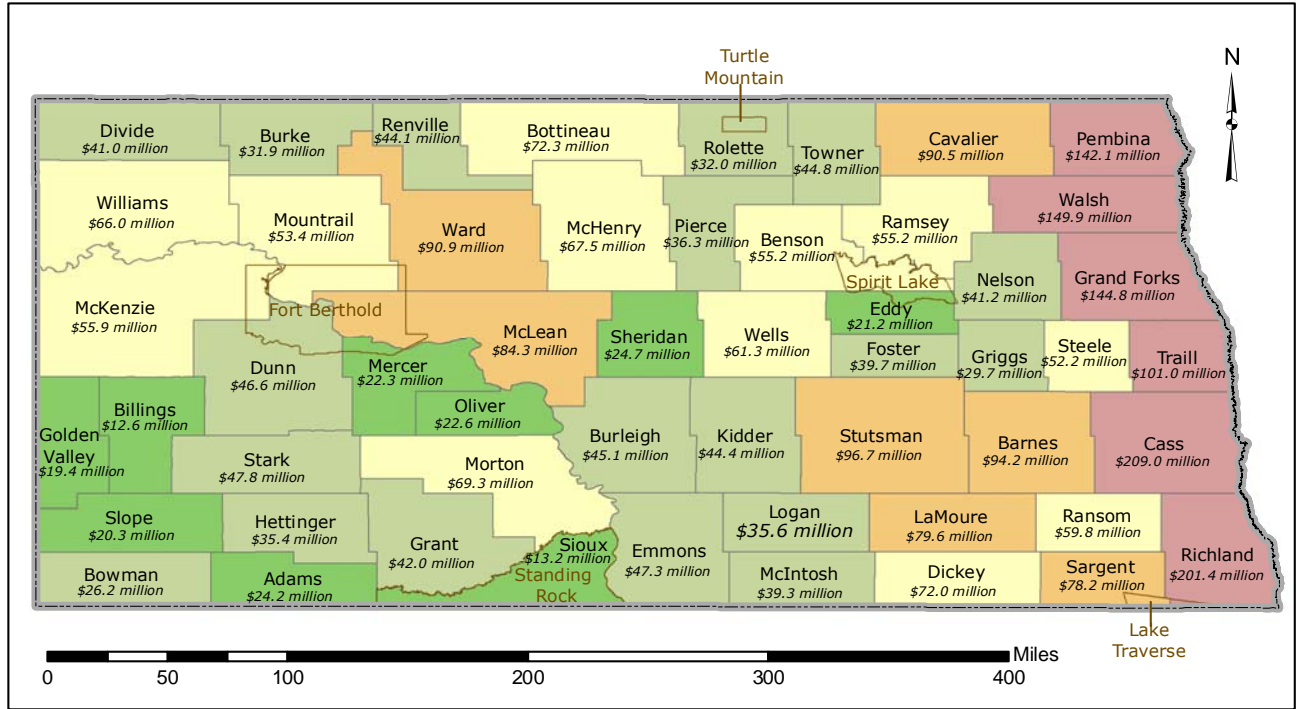
Table 4.3.5A North Dakota 2002 Market Value of Agricultural Products Sold

County	Market Value	County	Market Value
<i>North Dakota</i>	\$3,233,370,000	McKenzie*	\$55,874,000
Adams	\$24,190,000	McLean*	\$84,271,000
Barnes	\$94,215,000	Mercer*	\$22,252,000
Benson*	\$55,220,000	Morton	\$69,285,000
Billings	\$12,618,000	Mountrail*	\$53,402,000
Bottineau	\$72,252,000	Nelson*	\$41,198,000
Bowman	\$26,219,000	Oliver	\$22,579,000
Burke	\$31,882,000	Pembina	\$142,116,000
Burleigh	\$45,060,000	Pierce	\$36,295,000
Cass	\$208,957,000	Ramsey*	\$55,162,000
Cavalier	\$90,529,000	Ransom	\$59,829,000
Dickey	\$71,990,000	Renville	\$44,136,000
Divide	\$40,992,000	Richland*	\$201,350,000
Dunn*	\$46,552,000	Rolette*	\$32,049,000
Eddy*	\$21,189,000	Sargent*	\$78,191,000
Emmons	\$47,274,000	Sheridan	\$24,677,000
Foster	\$39,716,000	Sioux*	\$13,187,000
Golden Valley	\$19,430,000	Slope	\$20,273,000
Grand Forks	\$144,840,000	Stark	\$47,772,000
Grant	\$42,038,000	Steele	\$52,199,000
Griggs	\$29,735,000	Stutsman	\$96,691,000
Hettinger	\$35,449,000	Towner	\$44,821,000
Kidder	\$44,427,000	Traill	\$100,962,000
LaMoure	\$79,553,000	Walsh	\$149,918,000
Logan	\$35,588,000	Ward*	\$90,927,000
McHenry	\$67,467,000	Wells	\$61,275,000
McIntosh	\$39,340,000	Williams	\$65,957,000

* includes at least part of the reservation
Sources: US Department of Agriculture, 2002.

Map 4.3.5B

2002 Market Value of Agricultural Products Sold
State of North Dakota



Market Value in 2002

- Less than \$25.0 million
- \$25.0 million - \$49.9 million
- \$50.0 million - \$74.9 million
- \$75.0 million - \$99.9 million
- \$100.0 million or greater

Data Source: US Department of Agriculture
Data Date: 2002
Map Coordinates: NAD 1983

Map Created By:
Pam Shrauger, September 2007



As of November 12, 2007, the Federal Crop Insurance Corporation had 170,866 crop insurance policies covering \$3,229,869,530 in liabilities in North Dakota. Most of the major types of crops in the state, with the exception of forage, are 86%-98% covered by insurance. (Risk Management Agency, 2007)

Other sectors of the economy include mining, construction, manufacturing, health care, transportation, communications, utilities, wholesale trade, retail trade, professional and public services, finance, insurance, education, and real estate.

In 2006, the Gross Domestic Product for North Dakota was \$26.385 billion, the lowest in the nation with the exception of Vermont. Per capita, North Dakota is 30th in the nation for Real Gross Domestic Product. (US Bureau of Economic Analysis, 2007) The per capita personal income and percentage of the population in poverty by county is shown in Table 4.3.5C and depicted in Map 4.3.5D.

Table 4.3.5C North Dakota Per Capita Personal Income and Poverty Statistics

County	2005 Per Capita Personal Income	2004 Estimate of the Population in Poverty (percent)
<i>North Dakota</i>	<i>\$31,357</i>	<i>10.7%</i>
Adams	\$27,719	10.0%
Barnes	\$30,164	10.3%
Benson*	\$20,897	22.6%
Billings	\$32,522	9.3%
Bottineau	\$32,209	10.6%
Bowman	\$34,420	7.6%
Burke	\$34,141	10.2%
Burleigh	\$34,053	8.8%
Cass	\$34,978	9.2%
Cavalier	\$31,667	9.7%
Dickey	\$35,486	11.6%
Divide	\$28,453	9.6%
Dunn*	\$26,648	11.6%
Eddy*	\$27,815	10.1%
Emmons	\$28,284	12.4%
Foster	\$28,857	8.4%
Golden Valley	\$24,044	10.7%
Grand Forks	\$29,746	10.5%
Grant	\$25,551	15.4%
Griggs	\$30,841	9.8%
Hettinger	\$29,332	10.7%
Kidder	\$29,991	11.1%
LaMoure	\$36,907	9.6%
Logan	\$34,404	10.2%
McHenry	\$26,803	12.6%
McIntosh	\$30,635	12.4%
McKenzie*	\$25,938	14.0%
McLean*	\$31,635	11.0%
Mercer*	\$33,206	7.4%
Morton	\$27,815	10.0%
Mountrail*	\$28,350	14.1%
Nelson*	\$26,232	9.2%
Oliver	\$31,868	8.7%
Pembina	\$28,019	8.5%
Pierce	\$24,165	11.2%
Ramsey*	\$28,996	13.2%
Ransom	\$31,360	8.6%

Table 4.3.5C North Dakota Per Capita Personal Income and Poverty Statistics (continued)

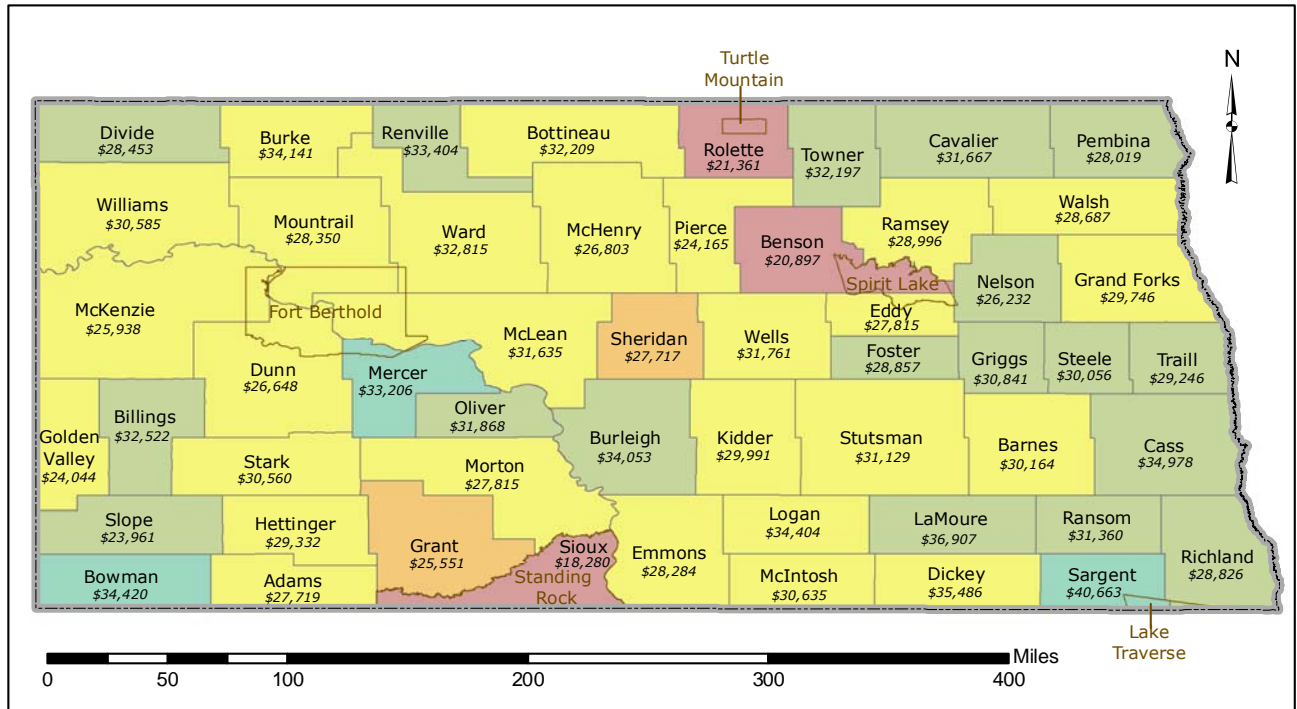
County	2005 Per Capita Personal Income	2004 Estimate of the Population in Poverty (percent)
Renville	\$33,404	9.2%
Richland*	\$28,826	9.4%
Rolette*	\$21,361	26.1%
Sargent*	\$40,663	7.3%
Sheridan	\$27,717	16.4%
Sioux*	\$18,280	28.3%
Slope	\$23,961	9.4%
Stark	\$30,560	11.2%
Steele	\$30,056	7.9%
Stutsman	\$31,129	10.7%
Towner	\$32,197	9.4%
Traill	\$29,246	8.7%
Walsh	\$28,687	11.1%
Ward*	\$32,815	10.5%
Wells	\$31,761	11.4%
Williams	\$30,585	11.2%

* includes at least part of the reservation population

Sources: US Bureau of Economic Analysis, 2007; US Census Bureau, 2007.

Map 4.3.5D

2005 Per Capita Personal Income and 2004 Poverty Status
 State of North Dakota



Data Source: US Bureau of Economic Analysis;
 US Census Bureau
 Data Date: September 2007
 Map Coordinates: NAD 1983

Population in Poverty Status

- Less than 8.0%
- 8.0% - 9.9%
- 10.0% - 14.9%
- 15.0% - 19.9%
- Greater than or equal to 20.0%

Map Created By:
 Pam Shrauger, September 2007



The ecological, historical, and social values of North Dakota each tie in to the quality of life for residents and visitors. Without these values, lives and property may not be threatened, but the way of life and connections to history and the environment could be disrupted. These values can have deep emotional meaning and investment.

Ecological values represent the relationship between organisms and their environment. For humans, these values include clean air, clean water, a sustainable way of life, and a healthy, natural environment including a diversity of species. Natural hazards, such as floods and wildfires, are usually part of a healthy ecosystem but often human caused hazards damage ecological values. Endangered species in North Dakota include the Whooping Crane, Pallid Sturgeon, Least Tern, Black-Footed Ferret, and Gray Wolf (endangered in

western North Dakota and delisted in eastern North Dakota). Threatened species include the Piping Plover and Western Prairie Fringed Orchid. A candidate species in North Dakota is the Dakota Skipper. (US Fish and Wildlife Service, 2007) Areas of ecologic significance include Theodore Roosevelt National Park, the Dakota Prairie National Grasslands, 64 National Wildlife Refuges, 11 National Wetland Management Districts, one National Game Preserve, five State Nature Preserves, and five State Forests. Map 4.3.5F shows areas managed by selected federal and state agencies.

Historic values capture a piece of history and maintain a point in time. Historic values can include sites, buildings, documents, and other pieces that preserve times past and have value to people. North Dakota has 395 resources listed in the National Register of Historic Places. Table 4.3.5E lists and Map 4.3.5F depict the number of historic resources by county.

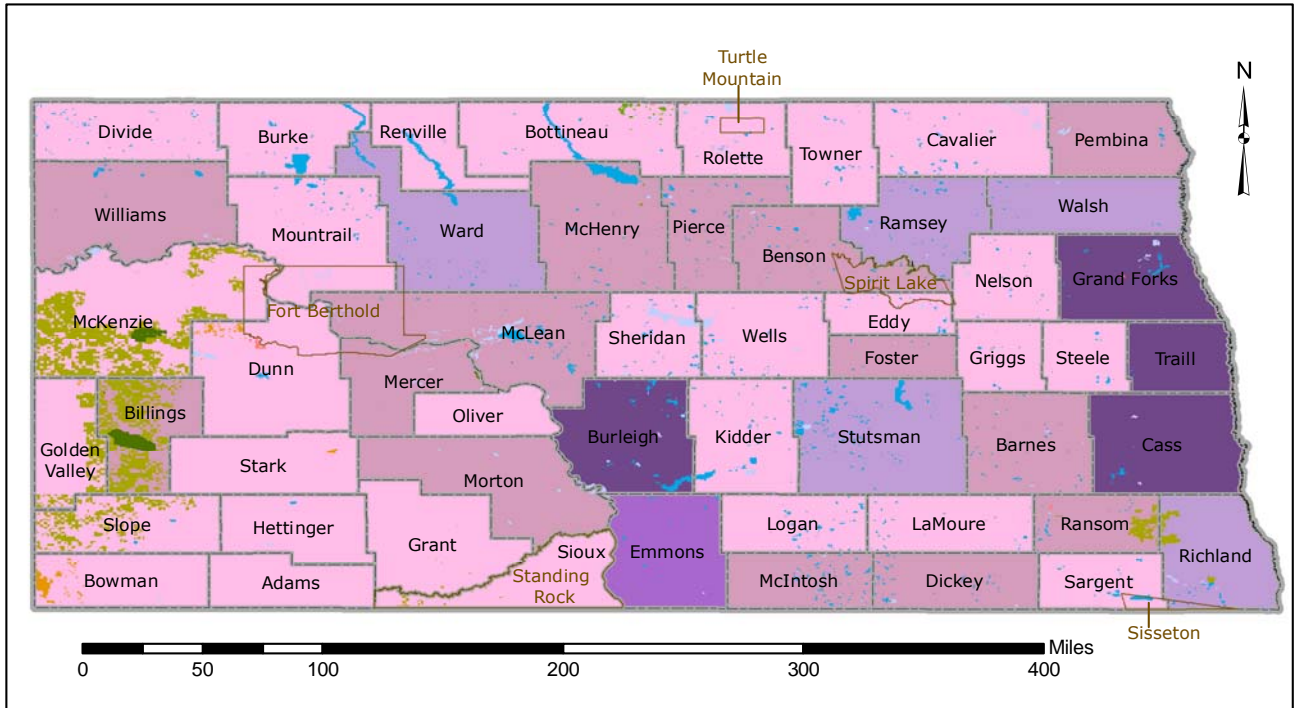
Table 4.3.5E North Dakota Resources on the National Register of Historic Places














County	Number of Resources on the National Register	County	Number of Resources on the National Register
<i>North Dakota</i>	395	McLean	6
Adams	3	Mercer	8
Barnes	9	Morton	9
Benson	7	Mountrail	3
Billings	8	Nelson	2
Bottineau	3	Oliver	1
Bowman	1	Pembina	7
Burke	2	Pierce	7
Burleigh	24	Ramsey	11
Cass	30	Ransom	9
Cavalier	2	Renville	2
Dickey	7	Richland	11
Divide	2	Rolette	0
Dunn	3	Sargent	1
Eddy	5	Sheridan	2
Emmons	18	Sioux	1
Foster	7	Slope	3
Golden Valley	2	Stark	4
Grand Forks	58	Steele	3
Grant	3	Stutsman	12
Griggs	3	Towner	1
Hettinger	3	Traill	26
Kidder	2	Walsh	14
LaMoure	3	Ward	15
Logan	2	Wells	5
McHenry	10	Williams	6
McIntosh	7		
McKenzie	2		

Source: National Park Service, 2007.

Map 4.3.5F

Ecologic and Historic Values State of North Dakota



	ND Forest Service		National Register of Historic Places
	ND Game and Fish		Less than 6 resources
	ND Parks and Recreation		6 - 10 resources
	US Bureau of Land Management		11 - 15 resources
	US Forest Service		16 - 20 resources
	US Fish and Wildlife Service		Greater than 20 resources
	US National Park Service		

Data Sources: North Dakota State Water Commission;
 National Register of Historic Places
 Data Date: October 2002; September 2007
 Map Coordinates: NAD 1983

Map Created By:
 Pam Shrauger, September 2007



Social values are often not fixed locations or can be quantified but are an important aspect of quality of life and interpersonal relationships. Examples of social values may include gatherings to promote community building, personal achievement, freedom from tyranny, the ability to communicate with others, pride in making the world a better place, and friendships. The realm of social values is only limited by the human imagination and usually relates to how a person feels. Disasters, both natural and human caused, can disrupt important social activities and sometimes have lasting effects on society.