

4.5 Risk Assessment Summary

This risk assessment represents an approximate history and estimated vulnerabilities to the State of North Dakota from the hazards identified. As with any assessment involving natural or human caused hazards, all potential events may not be represented here, and an actual incident may occur in a vastly different way than described. This assessment, however, will be used, where possible, to minimize damages from these events in the future.

Every type of event is different, ranging from population to property to economic impacts. Incidents also have different probabilities and magnitudes even within hazards. For example, a light snowstorm will be different than a blizzard and a moderate flood will be different from both of those. Some hazards have estimates of dollar losses and population impacts whereas others are more qualitatively assessed based on the information available during the risk assessment process. In an attempt to rate hazards and prioritize mitigation activities, the hazards are summarized based on their historical occurrence, potential losses, and local hazard assessments. For more information on these determinations, see the individual hazard profiles and local mitigation plans.

4.5.1 Presidentially Declared Disaster and Emergency Summary

Table 4.5.1A Presidentially Declared Disasters and Emergencies in North Dakota

Declaration	Location	Date	Hazard(s)	Casualties	Damages
DR 79	North Dakota	1957	Tornadoes	13 deaths 103 injuries	\$25,000,000 estimated total
DR 195	North Dakota	1965	Flood	Unknown	Unknown
DR 216	North Dakota	1966	Flood	Unknown	Unknown
DR 220	North Dakota	1966	Flood Severe Storms	1 death^ 2 injuries^	\$1,356,000^ estimated total
DR 256	North Dakota	1969	Flood	None	\$27,000,000
DR 287	North Dakota	1970	Flood Severe Storms	9 injuries^	\$135,000^ estimated total
DR 335	North Dakota	1972	Flood Severe Storms	1 injury^	\$350,000^ estimated total
DR 434	North Dakota	1974	Flood	Unknown	Unknown
DR 469	North Dakota	1975	Flood	Unknown	\$1,000,000,000
DR 475	North Dakota	1975	Flood Severe Storms	1 death^ 9 injuries^	\$2,830,000^ estimated total
EM 3012	North Dakota	1976	Flood	Unknown	Unknown
DR 501	North Dakota	1976	Flood	Unknown	Unknown
EM 3016	North Dakota	1976	Drought	None	Unknown
DR 554	North Dakota	1978	Flood Severe Storms	Unknown	Unknown
EM 3061	North Dakota	1978	Winter Storms	Unknown	Unknown
EM 3065	North Dakota	1978	Severe Storms Tornadoes	5 deaths 35 injuries	\$3,590,000 estimated total
DR 581	North Dakota	1979	Flood Severe Storms	Unknown	\$64,800,000
DR 658	North Dakota	1982	Flood	Unknown	Unknown

Table 4.5.1A Presidentially Declared Disasters and Emergencies in North Dakota (continued)

Declaration	Location	Date	Hazard(s)	Casualties	Damages
DR 825	6 counties in Eastern North Dakota	March – April 1989	Flood	None	\$2,719,000*
DR 1001	39 counties mostly in Central and Eastern North Dakota	June – July 1993	Flood Severe Storms	2 deaths	\$48,446,044* \$600,000,000 estimated total
DR 1032	25 counties mostly in Central North Dakota	March – July 1994	Flood Severe Storms	1 death 4 injuries	\$4,073,939* \$9,670,000^ estimated total
DR 1050	32 counties in Central and Eastern North Dakota	March – May 1995	Flood Severe Storms	3 deaths 1 injury	\$15,637,415* \$102,000,000 estimated total
DR 1118	33 counties in Central and Eastern North Dakota	March 12 – June 21, 1996	Flood	2 deaths	\$13,348,768*
DR 1157	All counties in North Dakota	January 2-31, 1997	Winter Storms	8 deaths 91 injuries	\$14,801,246* \$317,000,000 estimated total
DR 1174	All 53 counties in North Dakota	February 28 – May 24, 1997	Flood Severe Storms	7 deaths 2 injuries	\$557,503,842* \$3,700,000,000 estimated total
DR 1220	16 counties and 2 tribes in Eastern North Dakota	March 2 – July 18, 1998	Flood	None	\$18,054,727*
DR 1279	34 counties and 3 tribes in Central and Eastern North Dakota	March 1 – July 19, 1999	Flood Severe Storms Tornadoes Snow and Ice	1 death^ 1 injury^	\$124,391,622* \$117,864,000^ estimated total
DR 1334	26 counties and 3 tribes in Central and Eastern North Dakota	April 5 – August 12, 2000	Flood Severe Storms	2 deaths 25 injuries^	\$91,944,041* \$21,985,000^ estimated total
DR 1353	Benson, Bowman, Cavalier, Divide, Golden Valley, McKenzie, Ramsey, Towner, and Williams Counties	November 1-20, 2000	Winter Storms	7 injuries	\$1,202,000 estimated total
DR 1376	36 counties and 2 tribes mostly in Central and Eastern North Dakota	March 1 – July 31, 2001	Flood	3 injuries	\$27,858,168*
DR 1431	5 counties and 1 tribe in Eastern North Dakota	June 8 – August 11, 2002	Flood Severe Storms Tornadoes	19 injuries	\$1,266,549* \$283,797,000^ estimated total
DR 1483	Barnes County	June 24-25, 2003	Severe Storms High Winds	None	\$924,742* \$1,900,000 estimated total
EM 3196	Dunn, McHenry, McKenzie, McLean, Mercer, Ward Counties and Fort Berthold Reservation	January 23-27, 2004	Winter Storms	None	Unknown
DR 1515	19 counties and 2 tribes in Northern North Dakota	March 26 – June 14, 2004	Flood Severe Storms	None	\$7,459,705*
DR 1597	26 counties and 3 tribes mostly in Northern and Eastern North Dakota	June 1 – July 7, 2005	Flood Severe Storms	1 death^ 1 injury^	\$15,378,757* \$16,305,000^ estimated total
EM 3247	Statewide	September 2005	Hurricane Katrina	None	Unknown

Table 4.5.1A Presidentially Declared Disasters and Emergencies in North Dakota (continued)

Declaration	Location	Date	Hazard(s)	Casualties	Damages
DR 1616	23 counties and 1 tribe in western and north central North Dakota	October 4-6, 2005	Winter Storms	None	\$2,024,210* \$2,200,000 estimated total
DR 1621	Cass, Ransom, Richland, and Sargent Counties	November 27-30, 2005	Winter Storms	None	\$2,147,154* \$3,000,000 estimated total
DR 1645	11 counties and 1 tribe in Eastern North Dakota	March 30 – April 30, 2006	Flood Severe Storms	2 deaths	\$7,042,500*
DR 1713	13 counties mostly in Southeastern North Dakota	June 2 – June 18, 2007	Flood Severe Storms	Unknown	Unknown
DR 1725	Cass and Steele Counties	July 15, 2007	Severe Storms Tornadoes	Unknown	Unknown
DR 1726	Grand Forks County	August 26-27, 2007	Severe Storms Tornadoes	Unknown	Unknown

^ Summer Storm portion

* Federal Share (includes Individual and Family Grant, Disaster Housing, Manufactured Housing, Crisis Counseling Immediate and Regular Programs, Disaster Unemployment Assistance, Hazard Mitigation Grant Program, Public Assistance, FEMA Mission Assignments, and SBA Home, Business, and Economic Injury Loans).

4.5.2 Historical and Potential Loss Summary

4.5.2A State-Owned Buildings and Property Losses

Hazard	Estimated Historical	Estimated Potential
Communicable Disease	None	Clean-up costs possible
Dam Failure	None	\$100,000+
Drought	None	None
Flood	\$8,365 annually	Continued historical losses without mitigation
Hazardous Material Release	None	None
Homeland Security Incident	\$4,470 annually from minor incidents	Very high losses possible
Shortage or Outage of Critical Materials or Infrastructure	None	Minor losses possible
Summer Storm	\$108,138 annually	Continued historical losses without mitigation
Transportation Accident	None	None
Urban Fire or Structure Collapse	\$164,052 annually from minor and moderate incidents	Continued historical losses without mitigation
Wildland Fire	None	Isolated losses possible
Winter Storm	\$150,000 annually	Continued historical losses without mitigation

4.5.2B Critical Facilities and Infrastructure Losses

Hazard	Estimated Historical	Estimated Potential
Communicable Disease	None	Clean-up costs possible Infrastructure problems possible due to lack of workers
Dam Failure	None	High losses possible
Drought	Several incidents of water and energy related losses	Continued water and energy supply losses possible
Flood	\$170,749 annually, plus road infrastructure damages	Continued historical losses without mitigation
Hazardous Material Release	None	Contamination losses possible
Homeland Security Incident	\$31,504 annually from minor incidents	Very high losses possible
Shortage or Outage of Critical Materials or Infrastructure	Electric infrastructure losses related to outages	Infrastructure losses possible related to the outages
Summer Storm	\$833,191 annually, plus electric infrastructure damages	Continued historical losses without mitigation
Transportation Accident	None	None
Urban Fire or Structure Collapse	\$584,712 annually from minor and moderate incidents	Continued historical losses without mitigation
Wildland Fire	None	Isolated structure and infrastructure losses possible
Winter Storm	\$34,227 annually	Continued historical losses without mitigation

4.5.2C Jurisdictional Losses (Private Structures, Population, Economy, and Other Values)

Hazard	Estimated Historical	Estimated Potential
Communicable Disease	6,000 people infected with influenza in 1918 617 West Nile Virus human cases in 2003 \$18.9M insured crop losses annually	222,554 pandemic influenza human infections 2 million head of livestock exposure \$2.5 billion crop exposure Widespread economic impacts
Dam Failure	None	Very high losses possible
Drought	\$200M-\$1.24B annually (mostly economic losses) \$34M insured crop losses annually	Continued historical losses without mitigation
Flood	\$150M+ annually \$4.5M in NFIP claims annually \$140M insured crop losses annually 2 deaths annually	11,068 structures in the mapped floodplain Continued historical losses without mitigation

4.5.2C Jurisdictional Losses (Private Structures, Population, Economy, and Other Values) (continued)

Hazard	Estimated Historical	Estimated Potential
Hazardous Material Release	\$2M in damages in 2002 1 death, 333 injuries in 2002	Very high population losses possible Economic and ecologic losses possible
Homeland Security Incident	None, other than economic losses due to national incidents	Very high population and economic losses possible
Shortage or Outage of Critical Materials or Infrastructure	Minor economic losses	High population and economic losses possible
Summer Storm	\$43M+ property losses annually \$26.5M insured crop losses annually 0.3 deaths annually 6 injuries annually	Continued historical losses without mitigation
Transportation Accident	107 deaths annually, none from a major accident	Very high population losses possible
Urban Fire or Structure Collapse	\$14.7M property losses annually from minor and moderate incidents, except \$68.9M in Grand Forks in 1997 8 deaths annually from minor and moderate incidents	Continued historical losses without mitigation High property, population, and economic losses possible
Wildland Fire	5 structures lost annually \$110,000 insured crop losses annually 1 death/injury annually	Continued historical losses without mitigation High property, population, and economic losses possible
Winter Storm	\$22M+ annually \$26.9 million insured crop losses annually 1 death annually 9 injuries annually	Continued historical losses without mitigation

4.5.2D Future Development Losses

Hazard	Estimated Potential
Communicable Disease	Low
Dam Failure	High
Drought	High – for potable water supplies
Flood	Moderate – 10 jurisdictions with flood hazards not in NFIP
Hazardous Material Release	Moderate
Homeland Security Incident	Moderate
Shortage or Outage of Critical Materials or Infrastructure	Low
Summer Storm	Moderate – for communities that have adopted building codes High – for communities that have not adopted building codes
Transportation Accident	Low
Urban Fire or Structure Collapse	Moderate – for communities that have adopted building and fire codes High – for communities that have not adopted building and fire codes
Wildland Fire	High
Winter Storm	Moderate – for communities that have adopted building codes High – for communities that have not adopted building codes

Jurisdictions experiencing population growth include Benson, Burleigh, Cass, Morton, Rolette, and Sioux Counties. Future growth is expected in those counties plus in Barnes, Grand Forks, Ransom, and Stark Counties.

4.5.3 Hazard Rankings by County/Reservation

Table 4.5.3A Statewide Hazard Rankings by County/Reservation

Jurisdiction	Communicable Disease	Dam Failure	Drought	Flood	Hazardous Material Release	Homeland Security Incident	Shortage or Outage of Critical Materials or Infrastructure	Summer Storm	Transportation Accident	Urban Fire or Structure Collapse	Wildland Fire	Winter Storm	Multi-Hazard Rating
Adams	M	M	M	L	L	M	L	L	M	M	VH	L	M
Barnes	H	VH	L	H	M	M	H	H	H	H	M	M	H
Benson*	H	L	L	H	L	L	M	VH	M	L	H	VH	H
Billings	L	L	L	L	M	L	L	L	H	L	VH	M	L
Bottineau	H	L	L	M	M	L	M	M	M	M	H	H	H
Bowman	M	H	M	M	L	L	L	M	M	M	VH	H	H
Burke	L	H	M	L	L	L	L	M	M	H	H	M	M
Burleigh	H	VH	H	H	H	VH	VH	H	VH	H	VH	M	VH
Cass	VH	VH	M	VH	VH	VH	VH	VH	VH	VH	M	H	VH
Cavalier	M	M	L	M	L	M	M	H	M	M	M	M	M
Dickey	H	M	M	M	L	M	M	M	M	M	M	M	H
Divide	M	L	M	L	L	L	L	L	M	H	H	M	M
Dunn*	H	H	H	M	L	L	M	L	L	L	H	H	H
Eddy*	M	L	L	M	L	L	L	M	M	H	M	L	L
Emmons	H	M	VH	M	L	M	M	M	M	H	H	M	H
Fort Berthold^	H	L	H	M	L	L	M	M	M	M	H	H	H
Foster	M	L	L	M	L	M	M	L	M	M	M	M	M
Golden Valley	L	VH	L	L	M	L	L	M	H	H	VH	H	H
Grand Forks	VH	H	M	VH	VH	VH	VH	VH	VH	H	M	M	VH
Grant	M	H	H	M	L	L	L	L	L	M	H	L	M
Griggs	L	L	L	M	L	L	L	H	M	H	M	M	M
Hettinger	M	VH	H	L	L	L	L	M	L	M	H	L	M
Kidder	M	L	M	M	M	M	L	M	H	L	M	M	M
Lake Traverse^	M	L	L	H	L	L	L	H	L	L	L	L	L
LaMoure	H	M	M	M	L	L	M	M	M	M	L	M	M
Logan	M	L	M	M	L	L	L	L	M	L	M	M	L
McHenry	H	M	L	H	M	L	M	M	M	H	H	VH	H
McIntosh	H	L	M	L	L	L	L	M	M	H	M	M	M
McKenzie*	H	M	H	L	L	L	M	M	L	L	VH	VH	H

Table 4.5.3A Statewide Hazard Rankings by County/Tribe (continued)

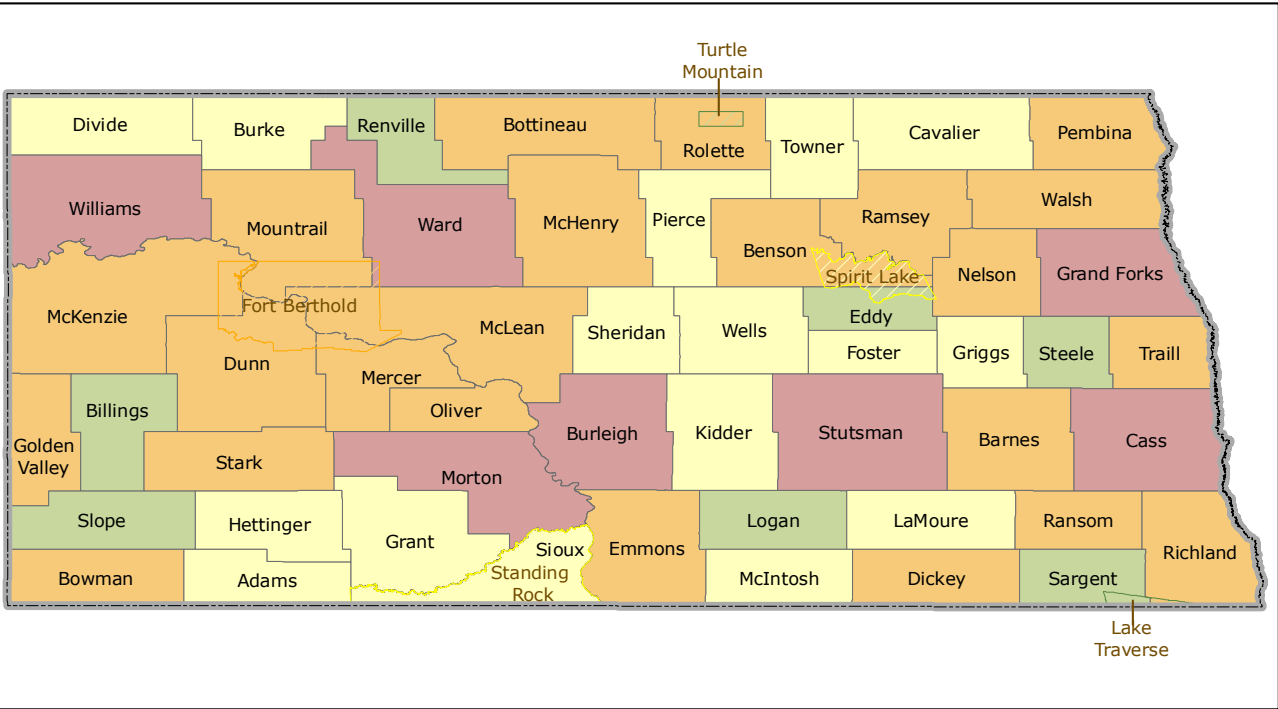
Jurisdiction	Communicable Disease	Dam Failure	Drought	Flood	Hazardous Material Release	Homeland Security Incident	Shortage or Outage of Critical Materials or Infrastructure	Summer Storm	Transportation Accident	Urban Fire or Structure Collapse	Wildland Fire	Winter Storm	Multi-Hazard Rating
McLean*	H	H	VH	M	M	L	M	H	M	M	H	VH	H
Mercer*	H	VH	H	M	H	M	M	L	M	M	H	H	H
Morton	H	VH	VH	H	VH	M	VH	H	H	M	VH	M	VH
Mountrail*	H	H	M	L	M	L	M	M	M	M	VH	H	H
Nelson*	M	M	L	H	L	L	M	H	M	H	M	M	H
Oliver	M	VH	H	M	M	L	L	M	M	L	M	M	H
Pembina	H	VH	H	H	M	M	M	H	H	M	M	M	H
Pierce	M	L	L	M	L	M	M	M	M	M	M	H	M
Ramsey*	H	L	L	H	M	H	H	H	H	H	M	H	H
Ransom	H	H	L	H	L	M	M	M	M	H	M	H	H
Renville	L	L	L	M	L	L	L	M	M	M	M	H	L
Richland*	VH	L	L	H	H	M	H	H	H	H	M	H	H
Rolette*	H	L	L	H	M	L	H	L	M	M	H	H	H
Sargent*	H	L	L	H	L	L	M	H	M	L	L	H	L
Sheridan	M	L	L	M	L	L	L	L	L	H	M	H	M
Sioux*	M	M	H	M	L	L	M	L	L	L	VH	L	M
Slope	L	L	M	L	L	L	L	L	L	H	H	M	L
<i>Spirit Lake</i>	<i>M</i>	<i>L</i>	<i>L</i>	<i>H</i>	<i>L</i>	<i>L</i>	<i>M</i>	<i>H</i>	<i>L</i>	<i>L</i>	<i>H</i>	<i>L</i>	<i>M</i>
<i>Standing Rock^</i>	<i>M</i>	<i>M</i>	<i>H</i>	<i>M</i>	<i>L</i>	<i>L</i>	<i>M</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>VH</i>	<i>L</i>	<i>M</i>
Stark	H	H	M	M	H	H	H	M	VH	M	H	M	H
Steele	M	L	L	M	L	L	L	M	M	M	L	M	L
Stutsman	VH	H	M	H	H	H	H	H	VH	H	H	M	VH
Towner	L	L	L	M	L	L	L	M	M	H	L	VH	M
Trail	M	M	M	H	M	L	M	M	H	H	L	M	H
<i>Turtle Mountain^</i>	<i>M</i>	<i>L</i>	<i>L</i>	<i>H</i>	<i>L</i>	<i>L</i>	<i>M</i>	<i>L</i>	<i>L</i>	<i>M</i>	<i>H</i>	<i>L</i>	<i>L</i>
Walsh	H	VH	H	VH	M	M	H	H	H	M	M	M	H
Ward*	H	H	M	H	H	VH	VH	H	H	H	VH	VH	VH
Wells	M	L	M	M	M	L	M	L	M	H	M	M	M
Williams	H	VH	H	L	H	H	H	M	H	H	H	H	VH

* includes at least part of the reservation population

^ includes only North Dakota parts of the reservation

Map 4.5.3B

County and Reservation Multi-Hazard Ratings State of North Dakota



Data Source: Many Sources
 Data Date: Varied
 Map Coordinates: GCS, NAD 1983

Multi-Hazard Rating

- Low
- Moderate
- High
- Very High

Map Created By:
 Pam Shrauger, December 2007



In addition to the statewide assessment of the counties and reservations using statewide data for each hazard, each of the counties that completed local mitigation plans conducted their own assessments. A similar approach was used for most areas; each hazard was assigned a “risk class”. The classes were based on the following criteria shown in Tables 4.5.3C and 4.5.3D.

The primary limitation with this methodology is that each county, each with their own perspectives and individuals conducting the assessments, determines its risk class for each hazard. In addition, this assessment demonstrates the variation of hazards within the county, showing which hazards have the higher disaster potential, rather than as a comparison to other counties. This information is very important for the integration of local perspectives and hazard assessments, but it does not allow for a very consistent statewide picture.

Table 4.5.3C Local Risk Analysis Criteria

FREQUENCY	
<i>Highly Likely</i>	Nearly 100% probability in the next year
<i>Likely</i>	10-100% probability in the next year, or at least 1 chance in the next 10 years
<i>Possible</i>	1-10% probability next year, or at least 1 chance in the next 100 years
<i>Unlikely</i>	Less than 1% probability in the next 100 years
SEVERITY	
<i>Catastrophic</i>	More than 50% of jurisdiction affected
<i>Critical</i>	25-50% of jurisdiction affected
<i>Limited</i>	10-25% of jurisdiction affected
<i>Negligible</i>	Less than 10% of jurisdiction affected

Table 4.5.3D Local Risk Analysis Classifications

		SEVERITY			
		<i>Negligible</i>	<i>Limited</i>	<i>Critical</i>	<i>Catastrophic</i>
FREQUENCY	<i>Highly Likely</i>	C	B	A	A
	<i>Likely</i>	C	C	B	A
	<i>Possible</i>	D	C	B	B
	<i>Unlikely</i>	D	D	C	C

Table 4.5.3E Local Hazard Classifications

Jurisdiction	Communicable Disease	Dam Failure	Drought	Flood	Hazardous Material Release	Homeland Security Incident [^]	Shortage or Outage of Critical Materials or Infrastructure	Summer Storm	Transportation Accident*	Urban Fire or Structure Collapse	Wildland Fire	Winter Storm
Adams	NI	D	B	C	C	D/D	C	B	C	C	B	A
Barnes	NI	D	B	B	B	C/D	D	C	C	C	B	A
Benson	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Billings	NI	D	C	C	C	D/D	D	B	C	C	B	C
Bottineau	NI	D	B	C	B	D/C	D	A	D	C	C	A
Bowman	NI	B	A	C	B	C/D	B	A	C	D	C	A
Burke	NI	C	B	B	D	C/C	C	B	B	C	C	A
Burleigh	NI	B	A	B	B	B/B	B	B	B	D	B	B
Cass	NI	C	A	C	C	C/B	C	B/C	D	C/D	C	B
Cavalier	NI	D	B	C	B	D/C	D	A	C	C	C	A
Dickey	NI	D	B	C	C	D/C	B	C	D	C	C	B
Divide	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Dunn*	NI	D	B	C	C	D/C	D	A	D	C	C	A
Eddy*	NI	C	B	C	C	D/C	D	A	C	C	C	A
Emmons	NI	D	A	C	C	C/C	C	A	D	C	B	A
<i>Fort Berthold</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
Foster	NI	D	B	C	C	C/C	D	C	D	C	C	B
Golden Valley	NI	D	B	D	C	C/D	C	A	D	C	C	A
Grand Forks	NI	C	B	A	B	D/C	D	A	D	D	C	A
Grant	NI	D	B	C	D	C/D	C	A	D	C	C	A
Griggs	NI	D	B	B	C	D/C	D	A	D	C	C	A
Hettinger	NI	B	A	C	C	C/D	B	A	D	D	C	A
Kidder	NI	D	B	C	B	D/B	D	A	C	C	C	A
<i>Lake Traverse</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
LaMoure	NI	D	B	C	C	C/C	C	A	D	C	C	A
Logan	NI	D	B	A	D	D/B	A	A	C	B	A	A
McHenry	NI	D	B	B	B	D/C	B	A	C	D	C	A
McIntosh	NI	C	B	B	B	C/C	B	B	C	C	B	B
McKenzie	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
McLean	NI	B	B	A	A	B/D	C	A	B	B	A	A
Mercer	NI	D	B	B	B	C/D	D	A	C	C	C	A

Table 4.5.3E Local Hazard Classifications (continued)

Jurisdiction	Communicable Disease	Dam Failure	Drought	Flood	Hazardous Material Release	Homeland Security Incident [^]	Shortage or Outage of Critical Materials or Infrastructure	Summer Storm	Transportation Accident*	Urban Fire or Structure Collapse	Wildland Fire	Winter Storm
Morton	NI	B	B	A	B	C/D	B	A	D	D	D	A
Mountrail	NI	D	A	B	C	C/B	B	B	D	C	C	A
Nelson	NI	D	B	B	B	C/C	D	A	D	C	C	A
Oliver	NI	D	B	B	B	C/D	D	A	C	C	B	A
Pembina	NI	C	B	A	B	C/C	B	A	D	D	D	A
Pierce	NI	D	B	B	C	D/C	C	A	D	C	C	A
Ramsey	NI	C	B	A	B	C/C	B	A	D	D	D	A
Ransom	NI	B	A	A	B	D/D	D	C	C	A	A	C
Renville	NI	D	B	C	C	D/C	D	A	D	C	C	A
Richland	NI	C	B	B	B	C/B	B	A	C	C	B	A
Rolette	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Sargent	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Sheridan	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Sioux	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Slope	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
<i>Spirit Lake</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
<i>Standing Rock</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
Stark	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Steele	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Stutsman	NI	B	A	C	C	C/C	B	A	C	B	C	B
Towner	NI	D	B	B	B	C/D	D	A	D	C	C	A
Traill	NI	D	B	B	B	D/C	B	A	C	D	C	A
<i>Turtle Mountain</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>	<i>NP</i>
Walsh	NI	D	A	A	C	C/B	B	A	C	B	B	A
Ward	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Wells	NI	C	A	B	C	D/D	D	B	C	D	C	B
Williams	NI	C	B	A	B	D/D	D	A	C	B	A	A

NI = not identified in the local plan

NP = no local plan

[^] Many of the local plans have both a civil disorder/terrorism hazard and a national security hazard. Both classifications are listed respectively.

* Many of the local plans have a mass casualty hazard listed rather than a transportation accident hazard. For analysis purposes, the mass casualty is listed under the transportation accident category here.

4.5.4 Statewide Hazard Rankings

All hazards identified in this plan have the potential to cause disastrous impacts. For the purposes of focusing the mitigation strategies across the state, the hazards were prioritized and categorized into high, moderate, and low hazards. The local hazard classifications shown in Table 4.5.3E were translated into numbers (A=4, B=3, C=2, and D=1) and averaged across the state. Communicable disease was listed as a moderate hazard based on an evaluation of the probability, potential impacts, and consensus during the planning process due to its exclusion in local mitigation plans.

High Hazards:

- Winter Storm
- Summer Storm
- Drought
- Flood

Moderate Hazards:

- Communicable Disease
- Hazardous Material Release
- Wildland Fire
- Shortage or Outage of Critical Materials or Infrastructure

Low Hazards:

- Urban Fire or Structure Collapse
- Homeland Security Incident
- Transportation Accident
- Dam Failure