

DAKOTA PRAIRIE GRASSLANDS

AVIATION BRIEFING INFORMATION 2019



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INTRODUCTION:

Welcome to the Dakota Prairie Grasslands. The intent of this packet is to provide information needed by Aviation personnel who are new to the Dakota Prairie Grasslands.

It was developed primarily for SEAT, Air attack and Helicopter Personnel; however, it may be useful to pilots and crews of other types of aircraft.

LEADERS INTENT:

The goal of the Dakota Prairie Grasslands, is to provide safe, effective and efficient aviation operations with the emphasis on safety.

Aviation management will strive to meet the objectives of each mission, having considered the roles, responsibilities and policies that oversee the program as a whole.

Each individual should be committed to making the work environment a safe place, free from any and all hazards both in the air and on the ground. If you see something that looks or doesn't feel quite right, "say something" and let's all, stop, look, listen and fix.

We will approach our program with our core values of duty, respect, integrity and professionalism.

DAKOTA PRAIRIE GRASSLANDS CONTACT LIST.

North Dakota Interagency Dispatch Center 2000 Miriam Circle Bismarck, ND 58501	Mardell Dahlin Center Manager Cory Andvik Fire Dispatcher	Bismarck, ND	701-989-7330 –OFC 701-848-6649-Cell 701-989-7299-FAX
Grasslands Fire Management Officer 2000 Miriam Circle Bismarck, ND 58501	Open	Bismarck, ND	701-989-7315
Assistant Grasslands Fire Management Officer 99 23 rd Ave SW Dickinson, ND 58601	Open		701-227-7851
Fire Operations Specialist Grassland Aviation Officer 1905 S. Main Street Watford City, ND 58854	Oscar Knudtson	Watford City, ND	701-842-8517-OFC 701-842-8544-FAX 701-770-3527-Cell
Grasslands Supervisor 2000 Miriam Circle Bismarck, ND 58501	William O’Donnell	Bismarck, ND	701-989-7301 OFC 701-202-9196 Cell
Grassland Safety officer 2000 Miriam Circle Bismarck, ND 58501	Charlie Betz	Bismarck, ND	701-989-7303 OFC 701-400-8325 Cell
McKenzie Ranger District 1905 S. Main Street Watford City, ND 58854	Nancy Veres	Watford City, ND	701-842-8500 307-214-0631 Cell
Medora Ranger District 99 23 rd Ave SW Dickinson, ND 58601	Shannon Boehm	Dickinson, ND	701-227-7800 701-290-6916 Cell
Grand River Ranger District 1005 5 th Ave W Lemmon, SD 58638	Alex Michalek	Lemmon, SD	605-374-3592
Sheyenne Ranger District 1601 Main Street S. Lisbon, ND 58054	Casey Johnson	Lisbon, ND	701-683-4342 701-680-5087 Cell

DAKOTA PRAIRIE GRASSLANDS Offices

Office/Address	Phone Number 701 Area Code			Radio Contact
DPG Supervisors Office 2000 Miriam Circle Bismarck, ND 58501	701-989-7300	Bill O'Donnell		
North Dakota Interagency Dispatch Center 2000 Miriam Circle Bismarck, ND 58501	701-989-7330	Mardell Dahlin		ND Dispatch
Sheyenne Ranger District 1601 Main Street Lisbon, ND 58054	701-683-4342	Casey Johnson		Sheyenne Ranger District Local
McKenzie Ranger District 1905 S. Main Street Watford City, ND 58854	701-842-8500	Nancy Veres		McKenzie Ranger District Local
Medora Ranger District 99 23 rd Ave W Suite B. Dickinson, ND 58601	701-227-7800	Shannon Boehm		Medora Ranger District Local
Grand River/Cedar River Ranger District 1005 5 th Ave W Lemmon, SD 57638	605-374-3592	Alex Michalek		Grand River Ranger District Local

NORTH DAKOTA INTERAGENCY DISPATCH CENTER.

The primary mission of the North Dakota Interagency Dispatch Center is to provide and maintain prompt and accurate communications and coordination of all incidents on the Grasslands. The goal of the Dispatch Office in regards to aviation is efficient and safe utilization of aircraft. Dispatchers work closely with the Northern Rockies Coordination Center in national resource aircraft ordering and dispatching.

FLIGHT FOLLOWING PROCEDURES



Automated Flight Following (AFF) is the preferred method of agency flight following. If the aircraft and flight following office have AFF capability, it shall be utilized.

Aircraft that is flight followed by North Dakota Interagency Dispatch (NDC) will contact NDC prior to the flight with number of personal on board including names, fuel on board, ETE and the destination. Shortly after the given plane is airborne, the dispatcher that is flight following will verify that the aircraft icon is visible on the AFF screen and will report to the aircraft that flight following is positive.

Overdue Aircraft - In the event of an overdue check in, dispatch will try to contact the aircraft in question. If after 30 minutes no contact has been made, North Dakota dispatch will initiate the Interagency Aviation Mishap Response Guide and Checklist.

	<h2 style="text-align: center;">BEACH 20U BEACH AIRPORT</h2>	
	<p>ATTENDANCE: UNATTENDED FUEL: 100LL, JET A REPAIRS: NONE</p> <p>Pilot Controlled Lights: CTAF SNOW REMOVAL: Confirm after storm Instrument Approach: Non-Precision</p> <p>CTAF: 122.8 WX: 118.175</p>	
FIELD ELEVATION	REMARKS	IN-PERSON CONTACT
<p style="text-align: center; font-size: 24pt;">2756</p>	<p>Attended: May - Sept, 10am - 7pm AWOS Phone: 701-872-9225</p>	<p>Donnel Michels PHONE: 701-872-6704 PUBLIC TERMINAL PHONE: Yes</p>

	<h2 style="text-align: center;">BISMARCK BIS</h2> <p style="text-align: center;">BISMARCK MUNICIPAL</p>	
	<p>ATTENDANCE: 24 HOUR SERVICE FUEL: 100LL JET A REPAIRS: MAJOR</p> <p>LIGHTS: CTAF when tower closes SNOW REMOVAL: Regular Service INSTRUMENT APPROACH: Precision</p> <p>GROUND: 121.9 UNICOM: 122.95 TOWER/CTAF: 118.3 WX: 119.35 ATIS</p>	
FIELD ELEVATION	REMARKS	IN-PERSON CONTACT
<p style="text-align: center; font-size: 2em;">1661</p>	<p>AWOS Phone: 701-255-7563,</p>	<p>Greg Haug/Tim Thorsen PHONE: 701-355-1808 PUBLIC TERMINAL PHONE: Yes</p>

 <p>MX hanger can be used for storage with prior notifications</p>	<h2 style="margin: 0;">BOWMAN BWW</h2> <p style="margin: 0;">BOWMAN REGIONAL</p>
	<p style="margin: 0;">ATTENDANCE: M-F 8 AM - 5 PM</p> <p style="margin: 0;">FUEL: 100LL JETA - Self Service Credit Card</p> <p style="margin: 0;">REPAIRS: MAJOR</p>
<p style="margin: 0;">Pilot Controlled Lights: CTAF</p> <p style="margin: 0;">SNOW REMOVAL: Confirm after storm</p> <p style="margin: 0;">Instrument Approach: Non-Precision</p>	
<p style="margin: 0;">CTAF: 122.8 WX: 118.075</p>	



FIELD ELEVATION	REMARKS	IN-PERSON CONTACT
<h1 style="margin: 0;">2965</h1>	<p style="margin: 0;">AWOS: 701-523-3412</p>	<p style="margin: 0;">Brent Kline</p> <p style="margin: 0;">PHONE: 701-523-7484, 701-440-7449</p> <p style="margin: 0;">Email:</p> <p style="margin: 0;">fuel@bottomlineaviation.com</p> <p style="margin: 0;">PUBLIC TERMINAL PHONE: YES</p>

	<h2 style="text-align: center;">DICKINSON DIK</h2> <p style="text-align: center;">DICKINSON THEODORE ROOSEVELT REGIONAL</p>
	<p>ATTENDANCE: M-F 8-5PM MST FUEL: 100LL, JET A - Self-serve after 2200 REPAIRS: MAJOR</p> <p>Pilot Controlled Lights: CTAF SNOW REMOVAL: Regular Instrument Approach: Precision</p> <p>CTAF: 123.00 WX: 118.375</p>



FIELD ELEVATION	REMARKS	IN-PERSON CONTACT
2592	On Call After Hrs: 701-264-9466 AWOS: 701-227-0280	Kelly Braun PHONE: 701-483-1062 ADDL. PHONE: 701-483-4221 PUBLIC TERMINAL PHONE: Yes

		<h2 style="text-align: center;">FARGO FAR</h2> <p style="text-align: center;">HECTOR INTERNATIONAL</p>			
		<p>ATTENDANCE: ATTENDED ALL HOURS</p> <p>FUEL: JET A, 100LL, J8 REPAIRS: MAJOR</p>			
		<p>LIGHTS: Tower Controlled</p> <p>SNOW REMOVAL: Regularly Scheduled</p> <p>Pilot Controlled Lights: CTAF</p>			
		<p>TWR: 133.8 GRND: 121.9 ATIS - 124.5</p>			
					
FIELD ELEVATION		REMARKS		IN-PERSON CONTACT	
901		AWOS 701-298-3877 Traffic Pattern: 1800 MSL US Customs port of entry, Fargo Air Museum SE corner of airport.		Shawn Dobberstein PHONE: 701-241-1501 PUBLIC TERMINAL PHONE: Yes	

		<h2 style="text-align: center;">LISBON 6L3</h2> <p style="text-align: center;">LISBON MUNICIPAL</p>	
		ATTENDANCE: On Call FUEL: 100LL - Self Service Credit Card REPAIRS: NONE	
		Pilot Controlled Lights: CTAF SNOW REMOVAL: Confirm after storm Instrument Approach: non-Precision	
		CTAF: 122.9 WX: 118.325 <small>GWINNER</small>	
			
FIELD ELEVATION		REMARKS	
1241		Ry 03/21 closed winter months. Concrete apron for Twin aircraft.	
		IN-PERSON CONTACT	
		Ben Halstenson PHONE: 701-739-5463 ADDL PHONE: 701-683-5501	

	<h2 style="text-align: center;">WATFORD CITY S25</h2> <p style="text-align: center;">WATFORD CITY MUNICIPAL</p>
	<p>ATTENDANCE: M-F 8AM-5PM/ON CALL</p> <p>FUEL: 100LL, JET A - Full Service</p> <p>REPAIRS: MINOR</p> <p>Pilot Controlled Lights: CTAF</p> <p>SNOW REMOVAL: Confirm after storm</p> <p>Instrument Approach: Non-Precision</p> <p>CTAF: 122.8 WX: 118.125</p>



FIELD ELEVATION	REMARKS	IN-PERSON CONTACT
2111	AWOS: 701-842-4855. Manager Cell: 701-570-2646	Luke Taylor PHONE 701-444-3207 Watford Aero Services: 701-300-3045 PUBLIC TERMINAL PHONE: Yes

	<h2 style="text-align: center;">WILLISTON ISN</h2> <p style="text-align: center;">SLOULIN FIELD INTERNATIONAL</p>	
	<p>ATTENDANCE: 5am - 1am FUEL: 100LL, JET A REPAIRS: MAJOR</p>	
	<p>Pilot Controlled Lights: CTAF SNOW REMOVAL: Regular Instrument Approach: Precision</p>	
	<p>CTAF: 122.8 WX: 125.92</p>	
<p>FIELD ELEVATION</p>	<p>REMARKS</p>	<p>IN-PERSON CONTACT</p>
<p style="font-size: 2em; text-align: center;">1981</p>	<p>AWOS: 701-774-3124. Pattern Altitude 800 AGL. US Customs: 701-770-2460 Runways 11 & 20 right traffic. Future airport expected to open Fall 2019 - Identifier KXWA</p>	<p>Anthony Dudas PHONE: 701-774-8594 ADDL PHONE: FBO 701-774-2300 PUBLIC TERMINAL PHONE: YES</p>



Latitude	Longitude	Elevation
45° 55' 40"	102° 06' 15"	2572'

navigation

VOR	GPS	ILS
112.9 DIK HIWAS	RWY 29	---

runway data

Runway	Length	Width	Surface	Lights	VGSI	App Lgts
12/30	4500	75	Asphalt	MIRL	PAPI	---
7/25	3300	120	Turf	---	---	---

communications

CTAF	Lights	Weather	ATIS	APP/DEP	Tower	Ground	RCO
122.8	122.8	Super AWOS 122.8	---	124.25 MSP Center	---	---	---
617-262-3825							

contact information:

Manager: **Mike Ginther**
Airport Phone: **605-374-5281**
After hours phone: **605-848-0577**
Website: **www.lemmonsd.com**

services:

Airframe: Major	Oxygen: None
Power plant: Major	Fuel: 100LL/Jet A
Transient Storage: Hangar/Tiedown	
Transportation: Courtesy Car	
Other Services: Pre-heat	

community:

Lodging: Dakota Lodge	605-374-7815
Lemmon Country Inn	605-374-3711
Prairie Motel	605-374-7834
Dining: Alaska Café Powder Horn	Main and Hwy 12
Bennys Resturant/Bar	North end Main Ave
Recreation: Petrified Wood Park	Main Ave
Shade Hill Lake	12 Mi. South

remarks:

Attended daylight hours
Telephone available

Satellite photo. Aerial photographs are solicited. Use AirNav aerial photo guidelines.



105

South Dakota Airports

SIDNEY

SDY



(SIDNEY RICHLAND MUNI.)

<p>AIRPORT LOCATION</p>		<p>Nav.Aids</p> <p>SDY NDB 359</p>
<p>AIRPORT LAYOUT</p>		<p>Radio</p> <p>UNICOM 122.8</p> <p>GTF FSS RCO 123.65</p> <p>AWOS 119.275</p>
<p>IDENT: SDY CTAF: 122.8</p>	<p>ELEV: 1984'</p>	<p>LOC: 47° 42.4' N 104° 11.5' W</p>
<p>LIGHTED: MIRLS, PAPIs & REILs all runways, Key 122.8 3,5,7 times, Lighted beacon</p> <p>FUEL: 100LL, Jet A</p> <p>REPAIRS: Major</p> <p>SERVICE: Courtesy car & rental cars. Meals, Lodging ½ mile</p> <p>OWNER: Sidney-Richland Airport Authority</p>		<p>MANAGER: Ryan Huotari</p> <p>PHONE: 406-480-1820</p> <p>REMARKS: Right traffic rwys 11 & 19. Phone on field. AWOS 406-482-7323. Fuel available 24 hours</p>

SIDNEY

Size up, Fire Behavior/Weather Observations									
1. Day and Date		2. Time		3. Established IC					
				Call back #					
4. Location: Township _____			5. Incident size			6. Incident Name:			
Range _____ Section _____									
Lat _____									
Long _____									
Jurisdiction:									
Ranger District:									
7. Elevation:			8. Exposure/Aspect			9. Drainage Name:			
Top									
Bottom									
10. Fuels: Grass/Shrub/Trees			11. Spread Potential			12. Fire Behavior:			
Other:			Low__			Running/Creeping			
			Moderate__			Smoldering/Spotting/			
			High__			Torching/Crowning/			
			Extreme__			Erratic			
13. Current Weather Conditions at Incident or Project or from RAWS:									
Place	Elev	Date/Time	Wind Direction/ Velocity		Temperature		RH	DP	Sky Condition
			20 ft	Eye level	Dry bulb	Wet bulb			
14. RADIO FREQUENCIES					15. Best Access Routes				
Command									
Tactical									
16. Values at risk, special hazards or concerns: Human/Property/Resource									
17. Equipment/Personnel/VFDs on scene:									
18. Resource needs:									

DAKOTA PRAIRIE GRASSLANDS RADIO FREQUENCIES.

GROUP #1 SHEYENNE

CH	LABEL	RX	TX	ZONE	BW	NOTES
1	SHYN LCL	171.1375	171.1375	131.8	N	SHEYENNE RD DIRECT MIXED MODE
2	MCLEOD	171.1375	164.9375	131.8	N	DPG MCLEOD RPTR
3	VLAW 31	155.4750	155.4750	156.7	N	VLAW 31 (IA) INCIDENT COMMS LAW
4	DPG WRK	168.6750	168.6750	0.0	N	DPG WORK
5	R1 TAC	167.1125	167.1125	0.0	N	R1 FIRE TAC
6	TWKNLCL	164.6250	164.6250	0.0	N	ND USFWS TEWAUKON TALK AROUND
7	TWKNRP	164.6250	163.1500	0.0	N	ND USFWS TEWAUKON REPEATER
8	VFIRE 23	154.2950	154.2950	156.7	N	VFIRE 23 (IA) INCIDENT COMMS FIRE
9	LISBFYR	154.3250	154.3250	0.0	N	ND LISBON FIRE DEPARTMENT TALK AROUND
10	RANCTYRP	155.8200	153.9800	67.0	N	ND RANSOM COUNTY REPEATER
11	MANT VFD	159.0450	154.1450	179.9	N	ND MANTADOR VFD
12	WYNDMR	155.3850	155.3850	167.9	N	ND WYNDMERE FIRE DEPARTMENT
13	LEONARD	155.8950	155.8950	192.8	N	ND LEONARD FIRE DEPARTMENT TALK AROUND
14	HANK TA	158.2650	158.2650	110.9	N	ND HANKINSON VFD RICHLAND COUNTY TALK AROUND
15	WX4	162.4750	0.0000	0.0	N	NOAA WEATHER WX 4
16	A/G 13	167.4250	167.4250	0.0	N	A/G13

GROUP #5

BANK5

CH	LABEL	RX	TX	TONE	BW	NOTES
1	VTAC 11	151.1375	151.1375	156.7	N	VTAC 11(IA) COMMS PUBLIC SAFETY
2	A/G 13	167.4250	167.4250	0.0	N	A/G13
3	VLAW 31	155.4750	155.4750	156.7	N	VLAW 31 (IA) INCIDENT COMMS LAW
4	VTAC 13	158.7375	158.7375	156.7	N	VTAC 13 (IA) COMMS PUBLIC SAFETY
5	VCALL 10	155.7525	155.7525	156.7	N	VCALL 10 NATIONWIDE INTEROP CALLING ONLY
6	LAWCMD	155.3700	155.3700	146.2	N	LAWCMD LAW COMMAND (LEAD TACTICAL LAW ENFORCEMENT OFFICIAL)
7	LAWTAC1	155.4300	155.4300	192.8	N	LAWTAC1 LAW TACTICAL 1 (FIRE DIVISION/BRANCH/GROUP)
8	LAWTAC2	155.5050	155.5050	192.8	N	LAWTAC1 LAW TACTICAL 2 (FIRE DIVISION/BRANCH/GROUP)
9	VFIRE 23	154.2950	154.2950	156.7	N	VFIRE 23 (IA) INCIDENT COMMS FIRE
10	VFIRE 24	154.2725	154.2725	156.7	N	VFIRE 24 (IA) INCIDENT COMMS FIRE
11	VFIRE 25	154.2875	154.2875	156.7	N	VFIRE 25 (IA) INCIDENT COMMS FIRE
12	VFIRE 26	154.3025	154.3025	156.7	N	VFIRE 26 (IA) INCIDENT COMMS FIRE
13	VMED 28	155.3400	155.3400	156.7	N	VMED 28 (IA) INCIDENT COMMS EMERGENCY MEDICAL
14	VMED 29	155.3475	155.3475	156.7	N	VMED 29 (IA) INCIDENT COMMS EMERGENCY MEDICAL
15	VTAC 14	159.4725	159.4725	156.7	N	VTAC 14 (IA) COMMS PUBLIC SAFETY
16	SARNFM	155.1600	155.1600	156.7	N	SARNFM NATIONAL SEARCH & RESCUE

GROUP #6

LEMMON

CH	LABEL	RX	TX	TONE	BW	NOTES
1	GRND LCL	171.1375	171.1375	146.2	N	GRAND RIVER RD DIRECT MIXED MODE
2	DPG WRK	168.6750	168.6750	0.0	N	DPG WORK
3	VLAW 31	155.4750	155.4750	156.7	N	VLAW 31 (IA) INCIDENT COMMS LAW
4	SHADEHILL	171.1375	164.9375	123.0	N	DPG SHADE HILL RPTR
5	R1 TAC	167.1125	167.1125	0.0	N	R1 FIRE TAC
6	LEMMFD	154.3850	154.3850	118.8	N	SD LEMMON VFD TALK AROUND
7	LDGEPOLE	151.9550	151.9550	151.4	N	SD LODGE POLE VFD
8	VFIRE 22	154.2650	154.2650	156.7	N	VFIRE 22 (IA) INCIDENT COMMS FIRE
9	VFIRE 23	154.2950	154.2950	156.7	N	VFIRE 23 (IA) INCIDENT COMMS FIRE
10	PERKNRP	155.9025	153.8750	118.8	N	SOUTH DAKOTA PERKINS COUNTY REPEATER
11	BISN FD	154.1450	154.1450	100.0	N	SD BISON FIRE DEPARTMENT
12	WARHAWK	158.8200	158.8200	0.0	N	SD CORSON COUNTY MULTI USE COUNTY FIRE DEPARTMENT ET AL
13	ADAMCTY	155.0400	153.8600	141.3	N	ND ADAMS COUNTY SAME AS ADAMS COUNTY
14	WX6	162.5250	0.0000	0.0	N	NOAA WEATHER WX 6
15	A/G 13	167.4250	167.4250	0.0	N	A/G13
16	A/G 31	166.7875	166.7875	0.0	N	A/G31

GROUP #7

MEDORA

CH	LABEL	RX	TX	ZONE	BW	NOTES
1	MDRA LCL	171.1375	171.1375	123.0	N	MEDORA RD DIRECT MIXED MODE
2	DPG WRK	168.6750	168.6750	0.0	N	DPG WORK
3	VLAW 31	155.4750	155.4750	156.7	N	VLAW 31 (IA) INCIDENT COMMS LAW
4	BOWMAN	171.1375	164.9375	167.9	N	DPG BOWMAN RPTR
5	MAGPIE	171.1375	164.9375	100.0	N	DPG MAGPIE RPTR
6	SENTINEL	171.1375	164.9375	107.2	N	DPG SENTINEL RPTR
7	THROLCL	166.3750	166.3750	107.2	N	NPS THEODORE ROOSEVELT PARKS ANALOG TALK AROUND
8	THRRPRT	166.3750	166.9750	107.2	N	NPS THEODORE ROOSEVELT PARKS ANALOG REPEATERS LINKED FORT UNION
9	VFIRE 23	154.2950	154.2950	156.7	N	VFIRE 23 (IA) INCIDENT COMMS FIRE
10	BILFDTA	156.2100	156.2100	D116	N	ND BILLINGS COUNTY FIRE TALK AROUND - ANALOG WITH DIGITAL CODE GUARD
11	BILFRY	156.2100	159.4500	D116	N	ND BILLINGS COUNTY FIRE FRYBURG REPEATER ANALOG WITH DIGITAL CODE GUARD
12	BILGORM	156.2100	159.4500	D532	N	ND BILLINGS COUNTY FIRE GORHAM REPEATER ANALOG WITH DIGITAL CODE GUARD
13	AMDN TAC	155.9550	155.9550	123.0	N	ND AMIDON FD
14	GVCTYRPT	155.0400	153.8600	127.3	N	ND GOLDEN VALLEY COUNTY REPEATER
15	GVFIRE	153.9050	155.9250	97.4	N	ND BEACH VFD
16	A/G 13	167.4250	167.4250	0.0	N	A/G13

GROUP #8

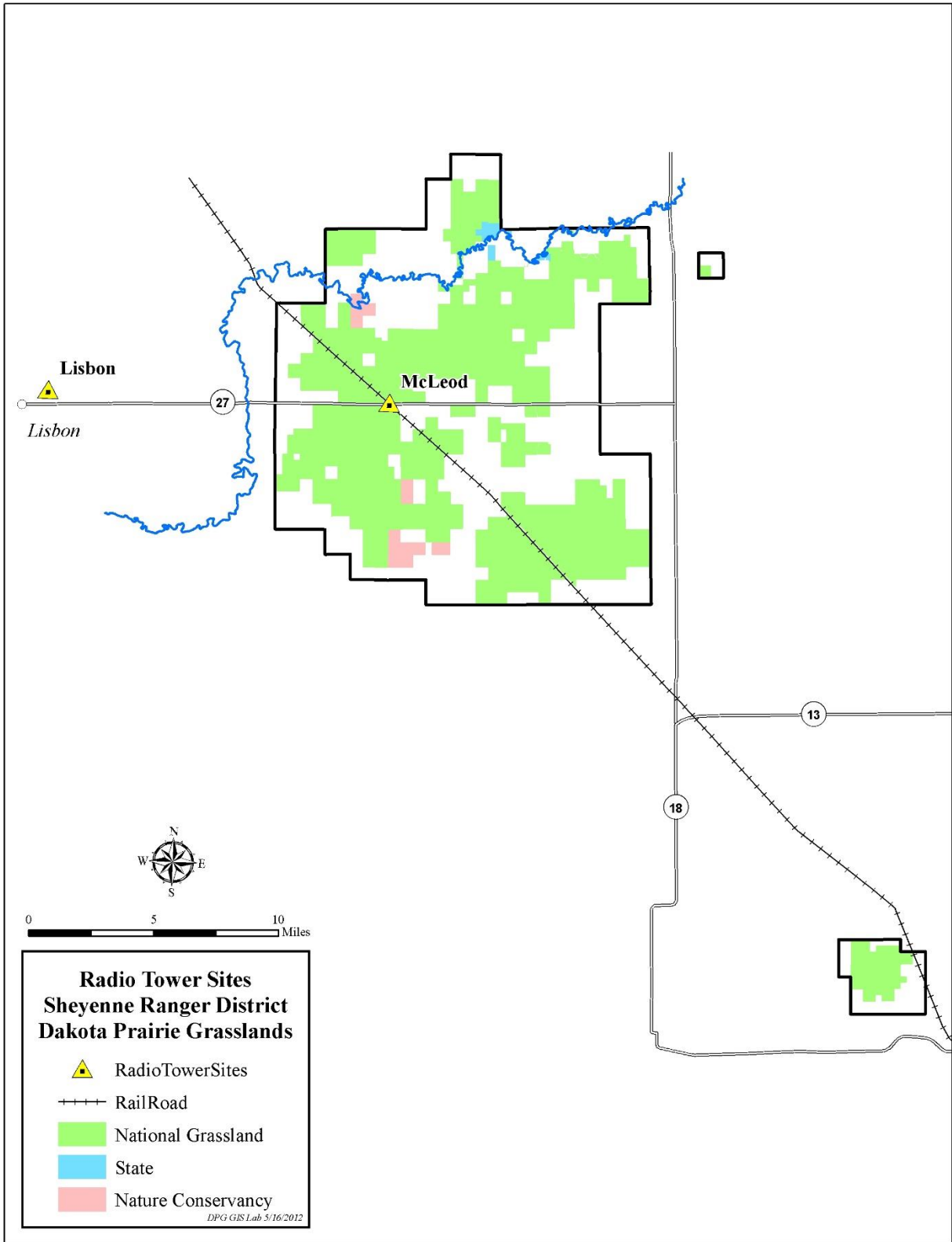
MCKENZIE

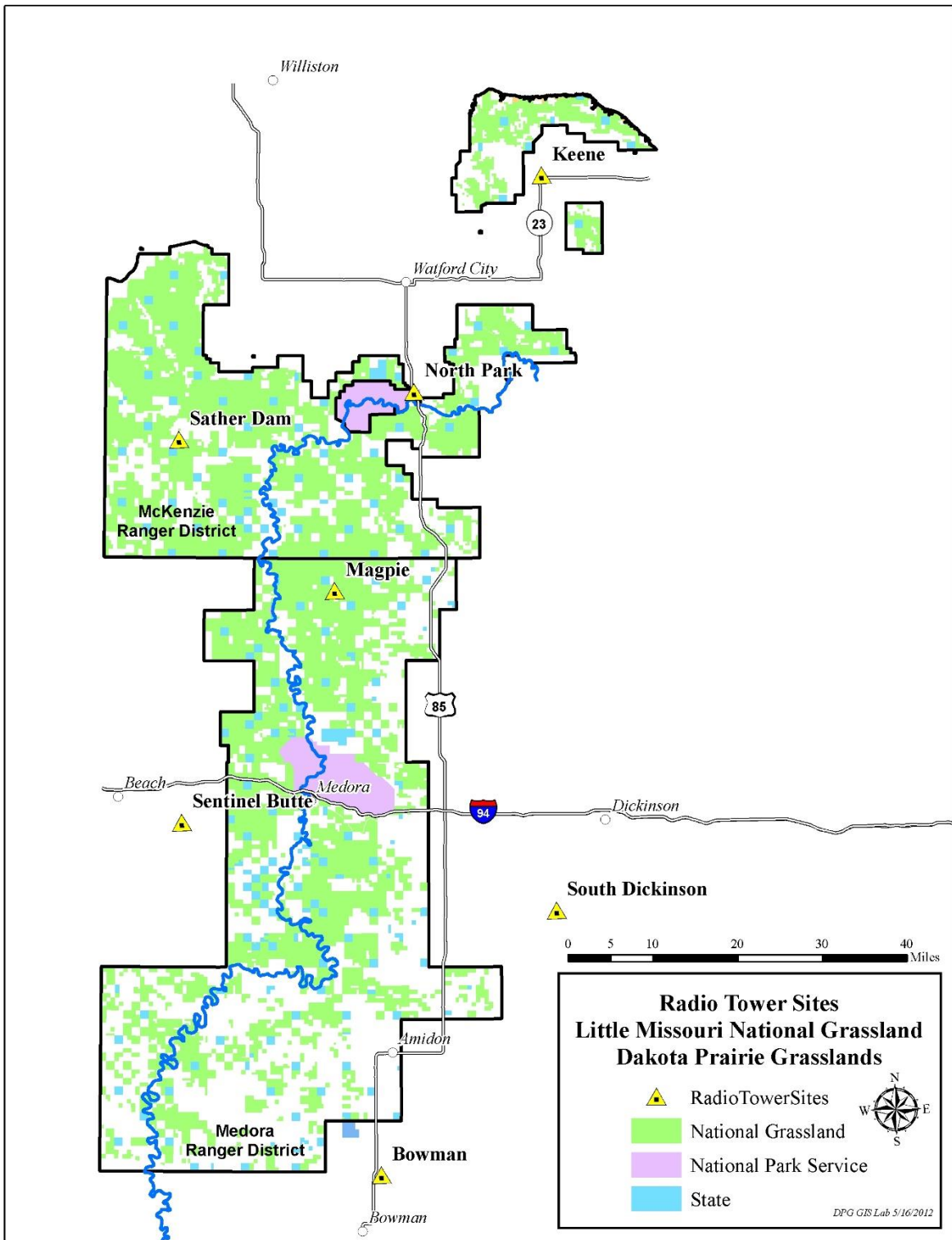
CH	LABEL	RX	TX	ZONE	BW	NOTES
1	MKNZ LCL	171.1375	171.1375	110.9	N	MCKENZIE RD DIRECT MIXED MODE
2	DPG WRK	168.6750	168.6750	0.0	N	DPG WORK
3	VLAW 31	155.4750	155.4750	156.7	N	VLAW 31 (IA) INCIDENT COMMS LAW
4	KEENE	171.1375	164.9375	156.7	N	DPG BOWMAN RPTR
5	MAGPIE	171.1375	164.9375	100.0	N	DPG MAGPIE RPTR
6	PEER CK	171.1375	164.9375	114.8	N	DPG PEER CK RPTR
7	THROLCL	166.3750	166.3750	107.2	N	NPS THEODORE ROOSEVELT PARKS ANALOG TALK AROUND
8	THRRPRT	166.3750	166.9750	107.2	N	NPS THEODROE ROOSEVELT PARKS ANALOG REPEATERS LINKED FORT UNION
9	VFIRE 23	154.2950	154.2950	156.7	N	VFIRE 23 (IA) INCIDENT COMMS FIRE
10	PAGING	154.9050	0.0000	0.0	N	PAGING ND STATE RADIO
11	FYR1ARN	154.2200	159.2850	0.0	N	ND MCKENZIE COUNTY ARNEGARD REPEATER COUTNY FIRE DEPARTMENTS
12	FYR2KEE	154.2200	159.2850	0.0	N	ND MCKENZIE COUNTY KEENE REPEATER- COUNTY FIRE DEPARTMENTS
13	FYR3TA	154.2200	154.2200	0.0	N	ND MCKENZIE COUNTY FIRE DEPARTMENTS TALK AROUND TX AND RX \$299
14	FYR4CHA	154.2200	154.2850	0.0	N	ND MCKENZIE COUNTY CHARBONEAU REPEATER- COUNTY FIRE DEPARTMENTS
15	MCK LGR	154.1150	154.1150	127.3	N	ND MCKENZIE COUNTY LGR TALK AROUND SAME AS MCKENZIE COUNTY LOCAL SEE BELOW
16	A/G 13	167.4250	167.4250	0.0	N	A/G13

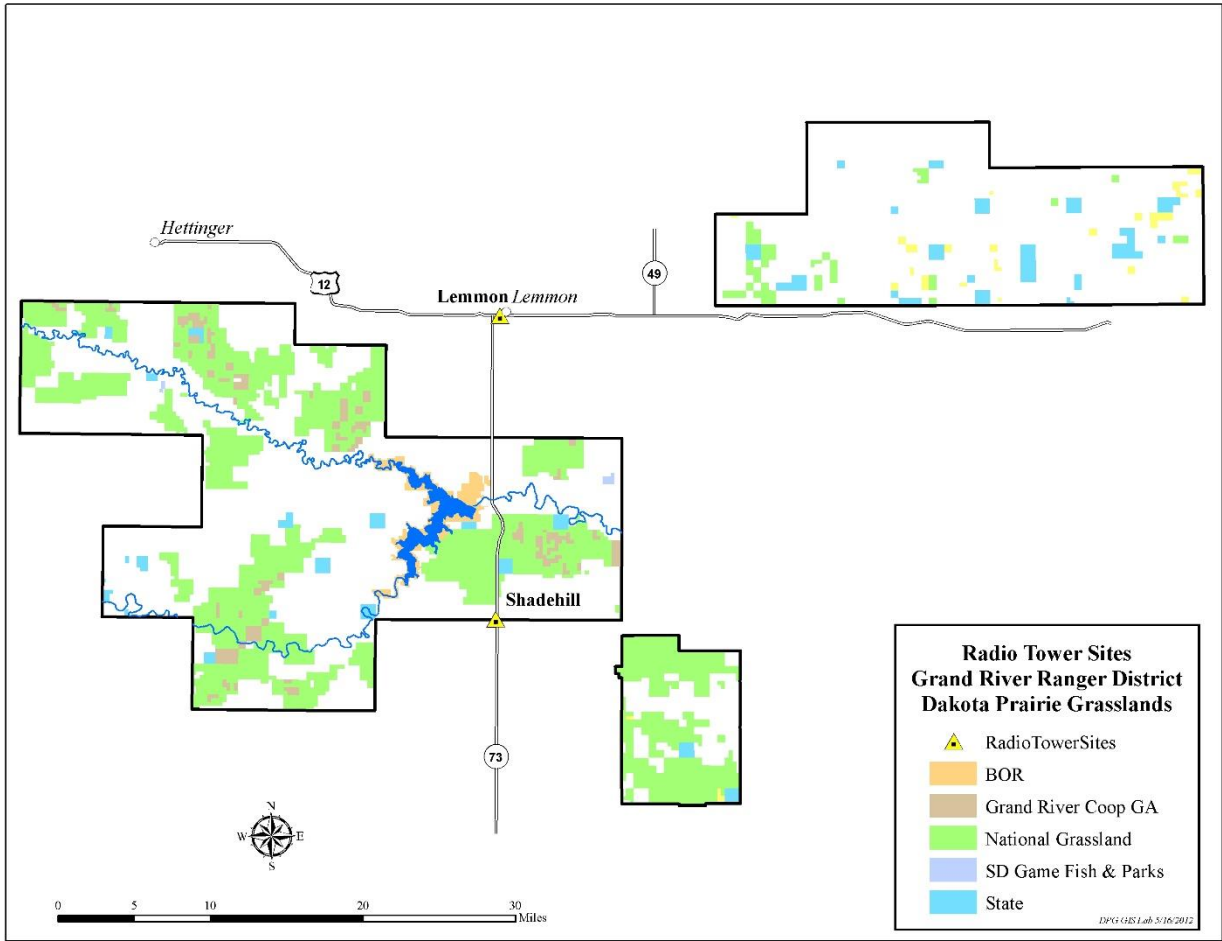
GROUP #12

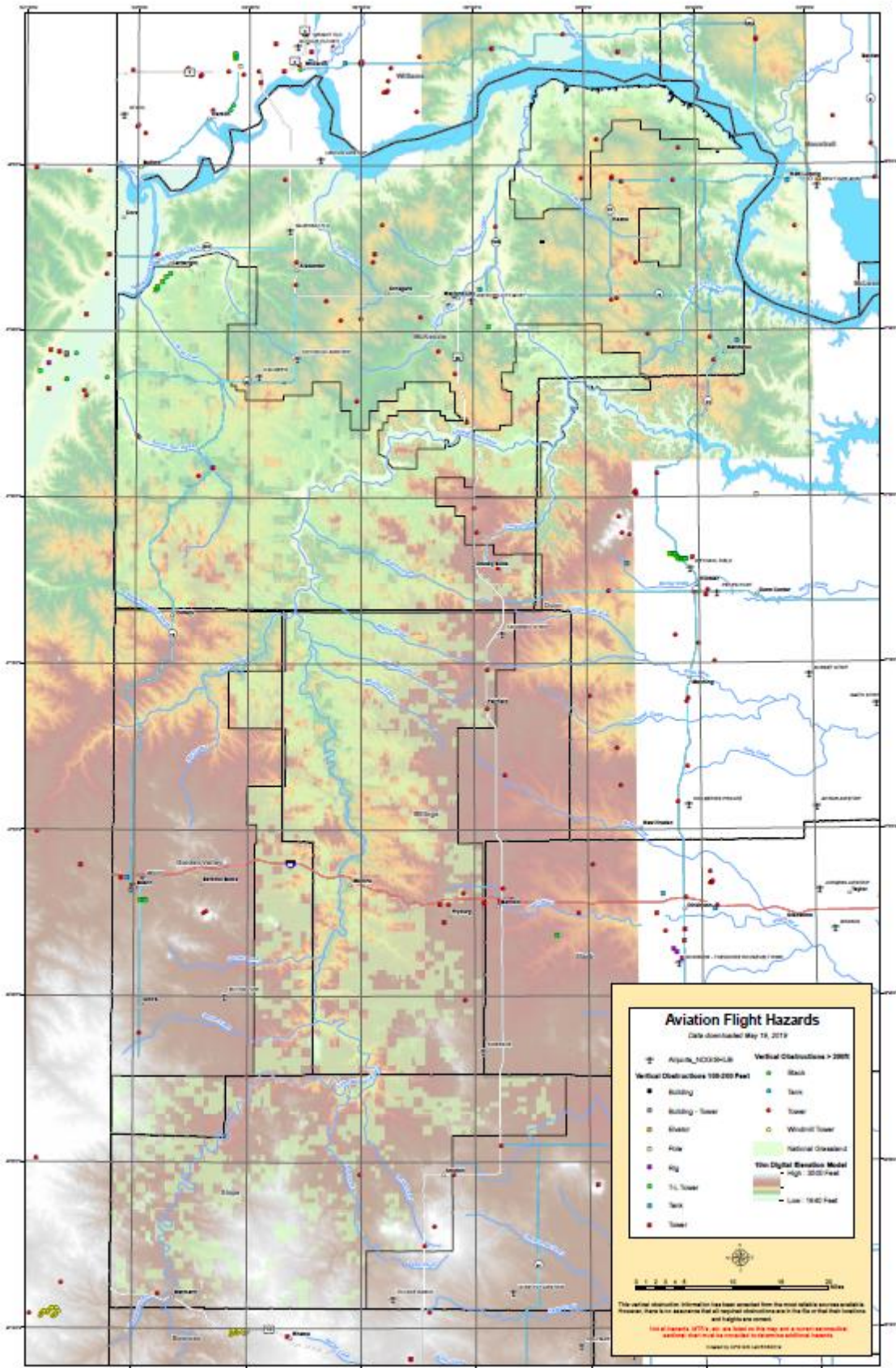
CNF EAST

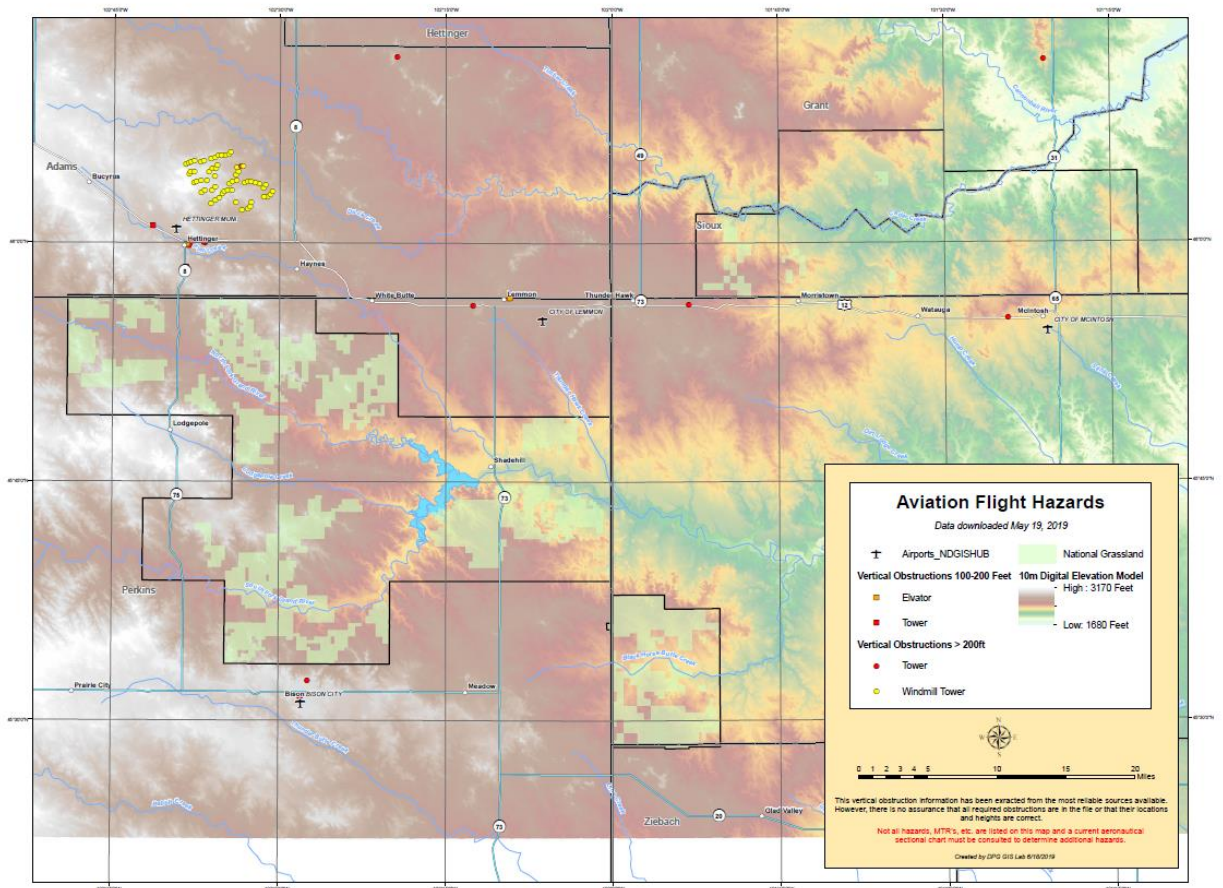
CH	LABEL	RX	TX	ZONE	BW	NOTES
1	CREW NET	167.6500	167.6500	0.0	N	CREW NET
2	CNF DIR	170.4625	170.4625	0.0	N	CNF DIRECT
3	SHANE RG	170.4625	164.9125	114.8	N	CNF SHANE RIDGE RPTR
4	DRYHEAD	170.4625	164.9125	141.3	N	CNF DRYHEAD RPTR
5	SKI HILL	170.4625	164.9125	151.4	N	CNF SKI HILL RPTR
6	IRON MTN	170.4625	164.9125	103.5	N	CNF IRON MTN RPTR
7	HOME CRK	170.4625	164.9125	162.2	N	CNF HOME CREEK RPTR
8	POKER JM	170.4625	164.9125	118.8	N	CNF POKER JIM RPTR
9	LISCOM	170.4625	164.9125	100.0	N	CNF LISCOM BUTTE RPTR
10	STAG RCK	170.4625	164.9125	136.5	N	CNF STAG ROCK RPTR
11	TRIPPOINT	170.4625	164.9125	167.9	N	CNF TRI-POINT RPTR
12	TOWER HL	170.4625	164.9125	156.7	N	CNF TOWER HILL RPTR
13	SLIM BTS	170.4625	164.9125	146.2	N	CNF SLIM BUTTES RPTR
14	R1 TAC	167.1125	167.1125	0.0	N	R1 FIRE TAC
15	A/G 52	168.3875	168.3875	0.0	N	A/G52
16	A/G 13	167.4250	167.4250	0.0	N	A/G13

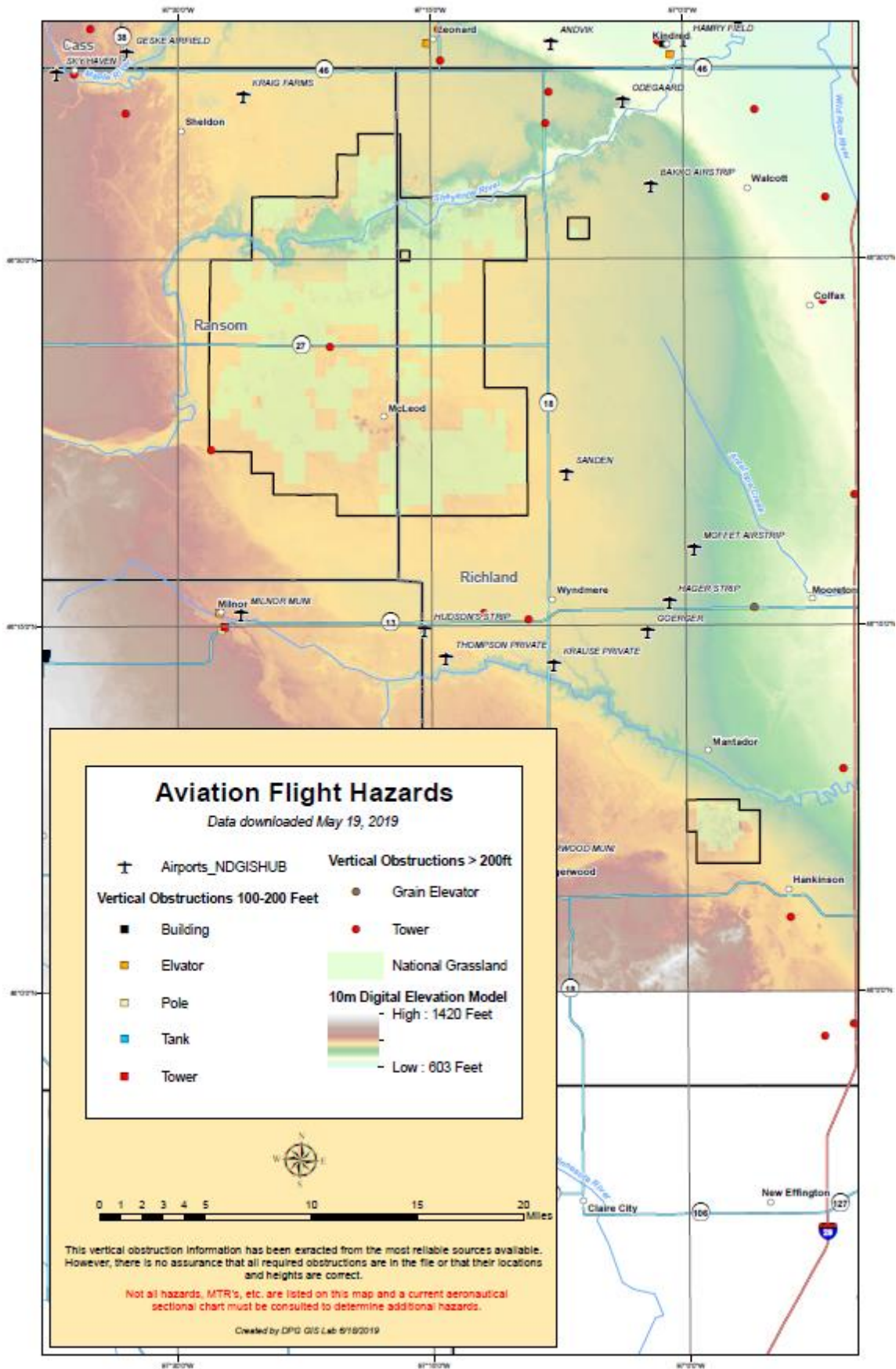




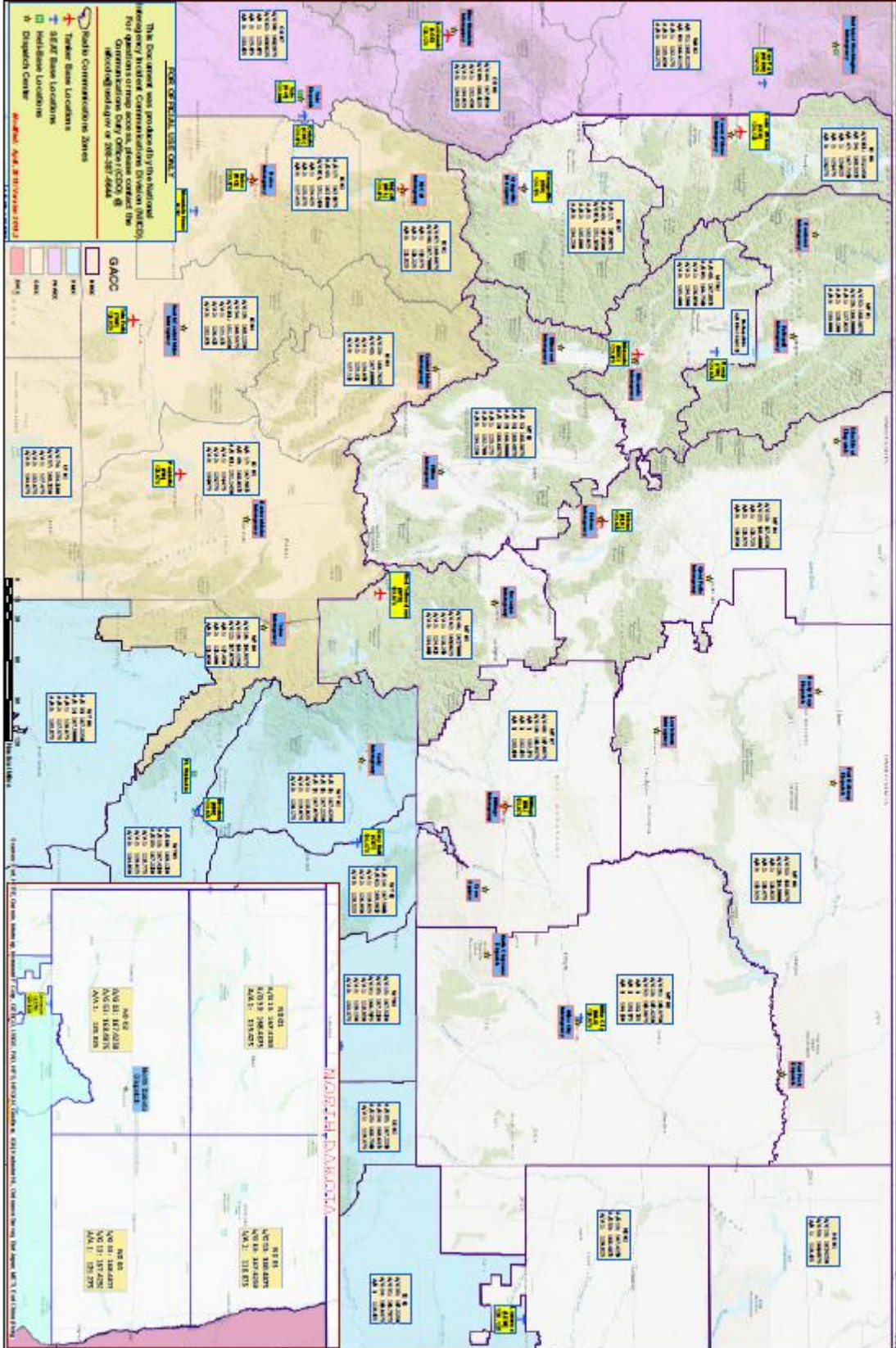








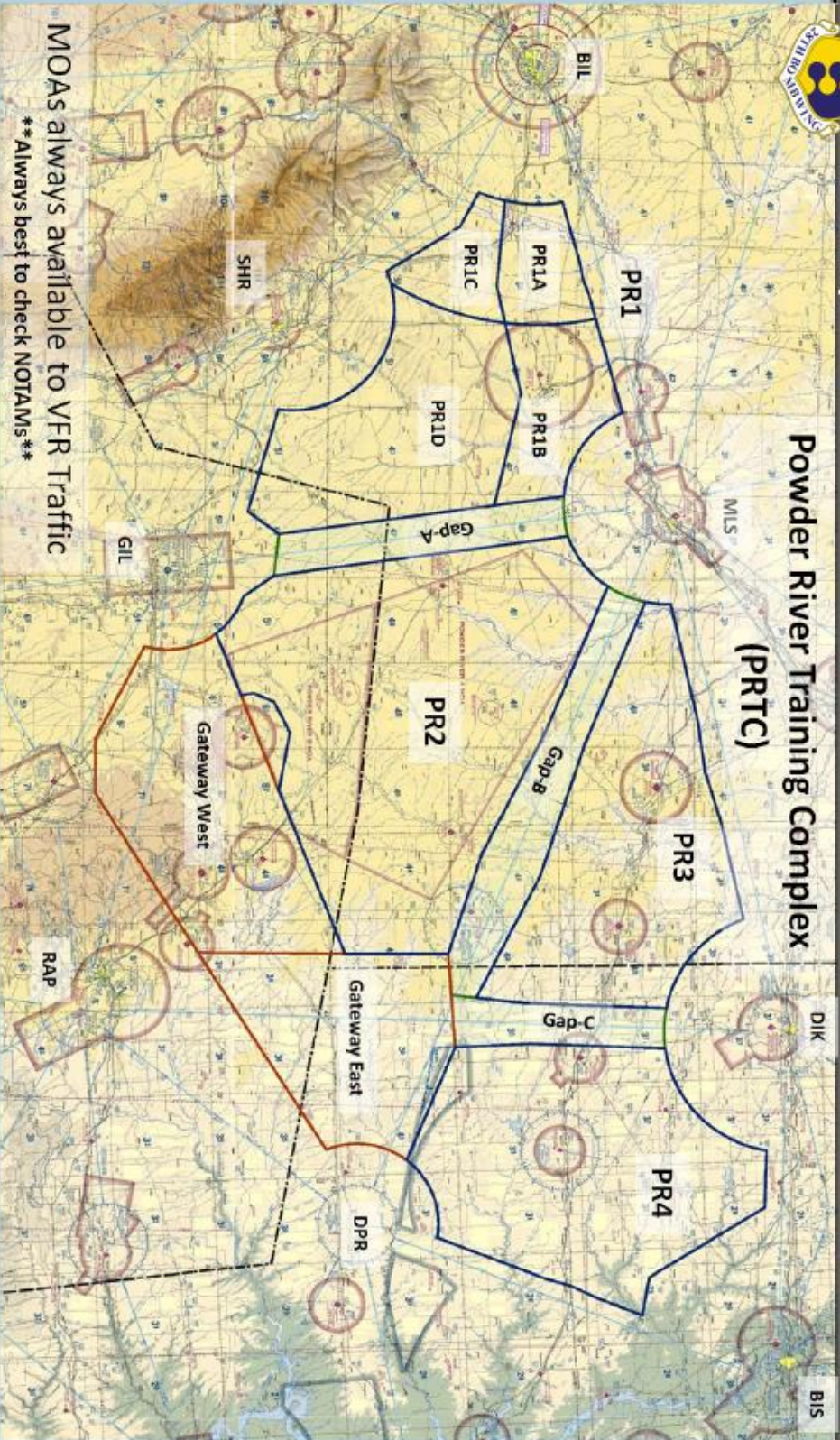
**NORTHERN ROCKIES COORDINATION CENTER INITIAL ATTACK ZONES
2019 COMBINED AIR-TO-GROUND (FM) & AIR-TO-AIR (AM) IA RADIO FREQUENCIES**





PRTC Map

Powder River Training Complex (PRTC)



MOAs always available to VFR Traffic
Always best to check NOTAMS

Military Operations Areas (MOAs)

- Low MOAs – 500' AGL to 12,000' MSL
 - High MOAs – 12,000' MSL to FL180
 - Primary Day-to-Day use MOAs
 - PR1 (PR1A, PR1B, PR1C, PR1D), PR2 & PR3
 - PR4 (No Low MOA, only High)
- PRTC usage schedule is available at <https://sua.faa.gov>

Air Traffic Controlled Airspace (ATCAA)

- Gateway West (FL180-FL260)
- Day-to-Day use
- Gateway East (FL180-FL260)
- LFE Only (See LFE explanation on reverse side)
- PRTC MOAs have ATCAAs above them

Published Hours

- 0730-1200 and 1800-2330
- Mon-Thur (2 hr NOTAM)
- 0730-1200; Fri (2 hr NOTAM)
- All other times by NOTAM (4 hr NOTAM)
- These are times you can anticipate usage -
- *The airspace will only be activated when scheduled*

MEDORA RANGER DISTRICT

Medevac EMS Providers

Medical Facility	Location	Phone Number	To Order	BLS/ALS
Medora Ambulance and QRU ALS and BLS	Medora, ND	701-623-4333	911	QRU ALS Ambulance BLS
Community Beach Area Ambulance	Beach, ND	701-872-4220	911	BLS
Bowman Ambulance	Bowman, ND	701-526-3218	911	ALS
Amidon First Responders	Amidon, ND		911	BLS
Belfield Ambulance	Belfield, ND	701-456-7709	Stark County Dispatch LEC 911	BLS
Marmarth Ambulance	Marmarth, ND	406-778-7101	911 Fallon County (MT) Dispatch	BLS

Medical Facilities

Medical Facility	Location	Phone Number	Burn Center	Helipad
Southwest Healthcare Services Level IV Trauma	12 6th Ave SW, Bowman, ND 58623	(701) 523-5265	NO	NO
CHI St. Alexius Hospital	2500 Fairway St, Dickinson, ND 58601	701-456-4000	NO	YES

SHEYENNE RANGER DISTRICT

Medevac EMS Providers

Ambulance service	Location	Phone Number	To Order
Lisbon First Medic Ambulance	1100 Oak Street Lisbon, ND	701-683-4221	911 State Radio
Kindred Ambulance	100 1st Ave N, Kindred, ND 58051	701-428-3131	Red River Dispatch 911
Wyndmere-Barney Ambulance	Wyndmere	701-642-7831	Richland County Dispatch 911
Hankinson Ambulance	Hankinson	701-642-7831	Richland County Dispatch 911
Sargent County Ambulance	Milnor	(701) 724-6241 x 134	911 State Radio

Medical Facilities

Medical Facility	Location	Phone Number	Burn Center?	Helipad ?
Lisbon Hospital	Lisbon, ND	701-683-6400	No	No
St. Francis Medical Center (Wahpeton area)	415 Oak St Breckinridge, MN	218-643-3000	No	Yes
Sanford Medical Center LEVEL 1 TRAUMA CENTER	5225 23rd Ave. S Fargo, North Dakota 58104	701-417-2000	NO	YES
Essentia Health LEVEL 2 TRAUMA CENTER	3000 32nd Ave S Fargo, ND 58103	General: 701-364-8000	NO	YES
Regions Hospital BURN CENTER	640 Jackson St. St. Paul, MN	800-922-2876	YES	YES

GRAND RIVER/CEDAR RIVER RANGER DISTRICT

Medevac EMS Providers

Ambulance service	Location	Phone Number	ALS/BLS
West River Ambulance	Hettinger ND	911 State Radio	BLS
Lemmon Ambulance	Lemmon SD	911 State Radio 605-374-3871	BLS
Bison Ambulance	Bison, SD	605-244-5445	BLS
McLaughlin Ambulance	McLaughlin, SD	605-823-4294	BLS

Medical Facilities

Medical Facility	Location	Phone Number	Burn Center	Helipad
West River Regional Medical Center	1000 Hwy. 12 Hettinger, ND	(701) 567- 4561	NO	NO

MCKENZIE RANGER DISTRICT

Medevac EMS Providers

Ambulance ServiceW	Location	Phone Number	To Order	ALS/BLS
McKenzie County Ambulance	Watford City, ND		911 State Radio	ALS
New Town Ambulance	New Town, ND	701-577-1212	911 Mountrail County Dispatch	ALS
Alexander 1 st Responders (Non Transport)	Alexander, ND		911 State Radio	BLS
Arnegard 1st Responders (Non-Transport)	Arnegard, ND	911	911 State Radio	BLS
Grassy Butte 1 st Responders	Grassy Butte		911 State Radio	BLS
Keene VFD First Responders (non transport)	Keene, ND		911 State Radio	BLS
Sidney Ambulance	Sidney, MT	406-488-2180	911 State Radio	ALS

Medical Facilities

Medical Facility	Location	Phone Number	Burn Center?	Helipad?
McKenzie County Health Systems	709 4th Ave NE, Watford City, ND 58854	701-842-3000	NO	YES
Sidney Health Center	216 14th Ave SW, Sidney, MT 59270	406-488-2100	NO	YES
CHI St. Alexius Hospital	1301 15th Ave W, Williston, ND 58801	(701) 774-7400	NO	YES

DENBIGH EXPERIMENTAL FOREST

Medevac EMS Providers

Ambulance Services	Location	Phone Number	To Order
Velva Ambulance Service	101 1st St W, Velva, ND 58790	<u>(701) 338-2366</u>	911
Towner Fire Ambulance and Rescue Services	Towner, ND		911

Medical Facilities

Medical Facility	Location	Phone Number	Burn Center ?	Helipad?
Trinity Health	1 W Burdick Expy, Minot, ND 58702	<u>(701) 857-5000</u>	No	Yes
Heart of America Medical Center	800 S Main Ave, Rugby, ND 58368	<u>(701) 776-5235</u>	No	Yes

BISMARCK AREA (SUPERVISORS OFFICE)

Medevac EMS Providers

Ambulance Services	Location	Phone Number	To Order
Metro Area Ambulance	Bismarck, ND		911

Medical Facilities

Medical Facility	Location	Phone Number	Helipad
<i>CHI St. Alexius Medical Center</i>	<i>900 R. Broadway Bismarck, ND</i>	<i>701-530-7000</i>	YES
<i>Sanford Medical Center</i>	<i>300 N. 7th St Bismarck, ND</i>	<i>701-323-6000</i>	YES

Helicopters Med Evac

Organization	Location	Order information	Remarks
Sanford Life flight	Dickinson	911	
Valley Med	1518 10th Ave W, Williston, ND 58801Williston	911	
Sanford Life Flight	Fargo	911 Red River Dispatch	
Sanford Life Flight	Bismarck	911	
Northstar Criticair	Minot	911	
Valley Med	2646 Dakota Blvd, Dickinson, ND 58601Dickinson	911	
Black Hills Lifeflight	4025 Lacroix Ct, Rapid City, SD 57703	<u>(605) 718-4300</u>	

* fill out EMS helicopter ambulance request form (appendix A)

Fixed Wing Air Ambulance

Organization	Location	Order information	Remarks
Valley Med	2802 3rd St NW, Sidney, MT 59270	(406) 433-7366	Pilatus PC-12 Airplanes

DPG QR FOREST MAPS



Grand River Visitor Map 2009



Sheyenne 2016



Little Missouri North 2010



Cedar River 2009



Little Missouri South 2010

Location: W102 47', N46 53'

DICKINSON, NORTH DAKOTA
Rise and Set for the Sun for 2019
Mountain Standard Time

Astronomical Applications Dept.
U. S. Naval Observatory
Washington, DC 20392-5420

Day	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
01	0737	1613	0716	1654	0631	1737	0531	1820	0436	1901	0401	1938	0401	1949	0431	1923	0511	1831	0550	1731	0633	1634	0715	1605
02	0737	1614	0715	1656	0629	1738	0529	1822	0435	1903	0400	1939	0401	1949	0432	1922	0512	1829	0551	1729	0635	1635	0717	1604
03	0736	1615	0713	1657	0627	1740	0527	1823	0433	1904	0400	1940	0402	1949	0433	1921	0513	1827	0552	1727	0636	1633	0718	1604
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05	0736	1617	0711	1700	0624	1742	0523	1826	0430	1907	0358	1941	0403	1948	0436	1918	0516	1823	0555	1723	0639	1630	0720	1603
06	0736	1618	0709	1702	0622	1744	0521	1827	0429	1908	0358	1942	0404	1948	0437	1916	0517	1821	0556	1721	0641	1628	0721	1603
07	0736	1619	0708	1703	0620	1745	0519	1828	0427	1909	0358	1943	0405	1947	0438	1915	0518	1819	0558	1719	0642	1627	0722	1603
08	0735	1621	0706	1705	0618	1747	0517	1830	0426	1910	0357	1943	0405	1947	0440	1913	0520	1817	0559	1717	0644	1626	0723	1603
09	0735	1622	0705	1706	0616	1748	0515	1831	0424	1912	0357	1944	0406	1946	0441	1912	0521	1815	0601	1716	0645	1624	0724	1602
10	0735	1623	0703	1708	0614	1750	0513	1833	0423	1913	0357	1945	0407	1946	0442	1910	0522	1813	0602	1714	0647	1623	0725	1602
11	0734	1624	0702	1709	0612	1751	0511	1834	0422	1914	0357	1945	0408	1945	0443	1909	0523	1811	0603	1712	0648	1622	0726	1602
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13	0733	1627	0659	1713	0608	1754	0508	1837	0419	1917	0356	1946	0410	1944	0446	1905	0526	1807	0606	1708	0651	1619	0728	1603
14	0733	1628	0657	1714	0606	1755	0506	1838	0418	1918	0356	1947	0411	1943	0447	1904	0527	1805	0607	1706	0652	1618	0729	1603
15	0732	1629	0656	1716	0604	1757	0504	1839	0416	1919	0356	1947	0412	1942	0449	1902	0529	1803	0609	1704	0654	1617	0730	1603
16	0732	1631	0654	1717	0602	1758	0502	1841	0415	1921	0356	1948	0413	1941	0450	1900	0530	1801	0610	1702	0655	1616	0730	1603
17	0731	1632	0652	1719	0600	1759	0500	1842	0414	1922	0356	1948	0414	1940	0451	1858	0531	1759	0612	1701	0657	1615	0731	1603
18	0730	1634	0651	1720	0558	1801	0458	1844	0413	1923	0356	1949	0415	1939	0452	1857	0533	1757	0613	1659	0658	1614	0732	1604
19	0729	1635	0649	1722	0556	1802	0457	1845	0412	1924	0356	1949	0416	1939	0454	1855	0534	1755	0614	1657	0700	1613	0732	1604
20	0729	1636	0647	1723	0555	1804	0455	1846	0411	1925	0356	1949	0417	1938	0455	1853	0535	1753	0616	1655	0701	1612	0733	1604
21	0728	1638	0646	1725	0553	1805	0453	1848	0410	1927	0357	1949	0418	1937	0456	1851	0536	1751	0617	1654	0702	1611	0733	1605
22	0727	1639	0644	1726	0551	1806	0451	1849	0409	1928	0357	1950	0419	1936	0458	1850	0538	1749	0619	1652	0704	1610	0734	1605
23	0726	1641	0642	1728	0549	1808	0450	1850	0408	1929	0357	1950	0420	1934	0459	1848	0539	1747	0620	1650	0705	1609	0734	1606
24	0725	1642	0640	1729	0547	1809	0448	1852	0407	1930	0357	1950	0421	1933	0500	1846	0540	1745	0622	1648	0707	1609	0735	1607
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31	0717	1653			0533	1819	0401	1937					0430	1925	0509	1833			0632	1637			0736	1612

Add one hour for daylight time, if and when in use.

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Sun or Moon Rise/Set Table for One Year

Location: W100 47, N46 49
 BISMARCK, NORTH DAKOTA
 Rise and Set for the Sun for 2019
 Central Standard Time
 Astronomical Applications Dept.
 U. S. Naval Observatory
 Washington, DC 20392-5420

Day	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
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02	0828	1706	0806	1748	0721	1830	0621	1913	0527	1954	0452	2030	0453	2041	0524	2014	0604	1921	0643	1821	0727	1726	0808	1556
03	0828	1707	0805	1749	0719	1832	0619	1915	0525	1956	0452	2031	0454	2040	0525	2012	0605	1919	0644	1819	0728	1725	0810	1556
04	0828	1708	0804	1751	0717	1833	0617	1916	0524	1957	0451	2032	0455	2040	0527	2011	0606	1917	0646	1817	0730	1723	0811	1556
05	0828	1709	0802	1752	0716	1834	0615	1918	0522	1958	0451	2033	0455	2040	0528	2010	0608	1915	0647	1815	0731	1722	0812	1555
06	0828	1711	0801	1754	0714	1836	0613	1919	0521	2000	0450	2034	0456	2039	0529	2008	0609	1913	0648	1813	0733	1720	0813	1555
07	0827	1712	0800	1755	0712	1837	0611	1920	0519	2001	0450	2034	0457	2039	0530	2007	0610	1911	0650	1811	0734	1719	0814	1555
08	0827	1713	0758	1757	0710	1839	0609	1922	0518	2002	0450	2035	0458	2038	0532	2005	0612	1909	0651	1809	0735	1718	0815	1555
09	0827	1714	0757	1759	0708	1840	0607	1923	0516	2004	0449	2036	0459	2038	0533	2003	0613	1907	0652	1808	0737	1716	0816	1555
10	0826	1715	0755	1800	0706	1842	0605	1924	0515	2005	0449	2036	0459	2037	0534	2002	0614	1905	0654	1806	0738	1715	0817	1555
11	0826	1716	0754	1802	0704	1843	0603	1926	0514	2006	0449	2037	0500	2037	0536	2000	0615	1903	0655	1804	0740	1714	0818	1555
12	0826	1718	0752	1803	0702	1844	0602	1927	0512	2007	0449	2038	0501	2036	0537	1959	0617	1901	0657	1802	0741	1713	0819	1555
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15	0824	1722	0747	1808	0656	1849	0556	1931	0509	2011	0448	2039	0504	2034	0541	1954	0621	1855	0701	1756	0746	1709	0821	1555
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19	0821	1727	0741	1814	0648	1854	0549	1937	0504	2016	0449	2041	0508	2030	0546	1947	0626	1847	0706	1749	0751	1705	0824	1556
20	0820	1728	0739	1815	0646	1856	0547	1938	0503	2017	0449	2041	0509	2029	0547	1945	0627	1845	0708	1747	0753	1704	0825	1557
21	0819	1730	0737	1817	0645	1857	0545	1939	0502	2018	0449	2041	0510	2028	0548	1943	0628	1843	0709	1746	0754	1703	0825	1557
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23	0818	1733	0734	1820	0641	1900	0542	1942	0500	2020	0449	2041	0512	2026	0551	1940	0631	1839	0712	1742	0757	1702	0826	1558
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28	0812	1740	0725	1827	0631	1907	0533	1949	0456	2026	0451	2041	0518	2020	0557	1930	0638	1829	0719	1734	0803	1658	0828	1702
29	0811	1742	0725	1827	0629	1908	0532	1950	0455	2027	0452	2041	0519	2019	0559	1929	0639	1827	0721	1732	0805	1658	0828	1702
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Add one hour for daylight time, if and when in use.

[Back to Form](#)

Location: W103 17, N47 48

WATFORD CITY, NORTH DAKOTA
Rise and Set for the Sun for 2019
Central Standard Time

Astronomical Applications Dept.
U. S. Naval Observatory
Washington, DC 20392-5420

Day	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
01	0842	1711	0820	1754	0734	1838	0632	1923	0536	2006	0459	2044	0459	2055	0530	2028	0611	1934	0652	1833	0737	1735	0821	1703
02	0842	1712	0819	1755	0732	1839	0630	1924	0534	2007	0458	2045	0459	2055	0531	2027	0613	1932	0653	1831	0739	1734	0822	1703
03	0842	1713	0818	1757	0730	1841	0628	1926	0533	2008	0458	2045	0500	2055	0532	2025	0614	1930	0655	1829	0740	1732	0823	1702
04	0842	1714	0816	1758	0728	1842	0626	1927	0531	2010	0457	2046	0501	2054	0534	2024	0615	1928	0656	1827	0742	1731	0824	1702
05	0842	1716	0815	1800	0726	1844	0624	1929	0529	2011	0457	2047	0501	2054	0535	2022	0617	1926	0658	1825	0744	1729	0826	1702
06	0842	1717	0813	1802	0724	1845	0622	1930	0528	2012	0456	2048	0502	2053	0536	2021	0618	1924	0659	1823	0745	1728	0827	1701
07	0841	1718	0812	1803	0722	1847	0620	1932	0526	2014	0456	2049	0503	2053	0538	2019	0619	1922	0700	1821	0747	1726	0828	1701
08	0841	1719	0810	1805	0721	1848	0618	1933	0525	2015	0455	2049	0504	2052	0539	2018	0621	1920	0702	1819	0748	1725	0829	1701
09	0841	1720	0809	1806	0719	1850	0616	1934	0523	2017	0455	2050	0504	2052	0540	2016	0622	1918	0703	1817	0750	1724	0830	1701
10	0840	1722	0807	1808	0717	1851	0614	1936	0522	2018	0455	2051	0505	2051	0542	2014	0623	1916	0705	1815	0751	1722	0831	1701
11	0840	1723	0806	1809	0715	1853	0612	1937	0521	2019	0455	2051	0506	2051	0543	2013	0625	1914	0706	1813	0753	1721	0832	1701
12	0839	1724	0804	1811	0713	1854	0610	1939	0519	2021	0454	2052	0507	2050	0544	2011	0626	1912	0708	1811	0754	1720	0833	1701
13	0839	1725	0803	1813	0711	1856	0608	1942	0518	2022	0454	2053	0508	2049	0546	2009	0627	1910	0709	1809	0756	1719	0834	1701
14	0838	1727	0801	1814	0709	1857	0606	1942	0517	2023	0454	2053	0509	2048	0547	2008	0629	1908	0710	1807	0757	1717	0834	1701
15	0837	1728	0759	1816	0707	1858	0604	1943	0515	2024	0454	2053	0510	2048	0548	2006	0630	1906	0712	1805	0759	1716	0835	1701
16	0837	1729	0758	1817	0704	1900	0602	1944	0514	2026	0454	2054	0511	2047	0550	2004	0631	1904	0713	1803	0800	1715	0836	1701
17	0836	1731	0756	1819	0702	1901	0601	1946	0513	2027	0454	2054	0512	2046	0551	2002	0633	1902	0715	1801	0802	1714	0837	1702
18	0835	1732	0754	1821	0700	1903	0559	1947	0512	2028	0454	2055	0513	2045	0552	2001	0634	1859	0716	1759	0803	1713	0837	1702
19	0834	1734	0752	1822	0658	1904	0557	1949	0511	2029	0454	2055	0514	2044	0554	1959	0636	1857	0718	1758	0805	1712	0838	1702
20	0834	1735	0751	1824	0656	1906	0555	1950	0509	2031	0454	2055	0515	2043	0555	1957	0637	1855	0719	1756	0806	1711	0839	1703
21	0833	1737	0749	1825	0654	1907	0553	1951	0508	2032	0454	2055	0516	2042	0556	1955	0638	1853	0721	1754	0807	1710	0839	1703
22	0832	1738	0747	1827	0652	1909	0551	1953	0507	2033	0455	2056	0518	2041	0558	1953	0640	1851	0722	1752	0809	1709	0840	1704
23	0831	1740	0745	1828	0650	1910	0550	1954	0506	2034	0455	2056	0519	2040	0559	1952	0641	1849	0724	1750	0810	1708	0840	1704
24	0830	1741	0744	1830	0648	1911	0548	1956	0505	2035	0455	2056	0520	2039	0600	1950	0642	1847	0725	1749	0812	1707	0841	1705
25	0829	1743	0742	1831	0646	1913	0546	1957	0504	2036	0456	2056	0521	2037	0602	1948	0644	1845	0727	1747	0813	1707	0841	1705
26	0828	1744	0740	1833	0644	1914	0544	1959	0503	2038	0456	2056	0522	2036	0603	1946	0645	1843	0728	1745	0814	1706	0841	1706
27	0826	1746	0738	1835	0642	1916	0543	2000	0503	2039	0456	2056	0524	2035	0604	1944	0646	1841	0730	1744	0816	1705	0842	1707
28	0825	1747	0736	1836	0640	1917	0541	2001	0502	2040	0457	2056	0525	2034	0606	1942	0648	1839	0731	1742	0817	1705	0842	1708
29	0824	1749			0638	1919	0539	2003	0501	2041	0457	2056	0526	2032	0607	1940	0649	1837	0733	1740	0818	1704	0842	1708
30	0823	1750			0636	1920	0537	2004	0500	2042	0458	2055	0527	2031	0609	1938	0651	1835	0734	1739	0820	1704	0842	1709
31	0822	1752			0634	1922			0500	2043			0529	2030	0610	1936			0736	1737			0842	1710

Add one hour for daylight time, if and when in use.

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Sun or Moon Rise/Set Table for One Year

Location: W097 41, N46 26 Rise and Set for the Sun for 2019
LITSON, NORTH DAKOTA
Central Standard Time
Astronomical Applications Dept.
 U. S. Naval Observatory
 Washington, DC 20392-5420

Day	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
01	0814	1654	0754	1735	0710	1817	0611	1859	0517	1940	0442	2016	0442	2027	0512	2002	0551	1910	0629	1811	0712	1716	0754	1646
02	0814	1655	0753	1736	0709	1818	0609	1901	0515	1941	0441	2017	0443	2027	0513	2000	0552	1908	0630	1809	0713	1715	0755	1645
03	0814	1656	0752	1738	0707	1819	0607	1902	0514	1942	0441	2017	0443	2026	0514	1959	0553	1906	0632	1807	0715	1713	0756	1645
04	0814	1657	0751	1739	0705	1821	0605	1904	0512	1944	0440	2018	0444	2026	0515	1958	0555	1904	0633	1805	0716	1712	0757	1645
05	0814	1658	0749	1741	0703	1822	0603	1905	0511	1945	0440	2019	0445	2026	0517	1956	0556	1902	0634	1803	0718	1710	0758	1644
06	0814	1700	0748	1742	0701	1824	0601	1906	0509	1946	0440	2020	0445	2025	0518	1955	0557	1900	0636	1801	0719	1709	0759	1644
07	0814	1701	0746	1744	0659	1825	0559	1908	0508	1948	0439	2021	0446	2025	0519	1953	0558	1858	0637	1759	0721	1708	0800	1644
08	0813	1702	0745	1745	0657	1827	0557	1909	0507	1949	0439	2021	0447	2024	0520	1952	0600	1856	0638	1757	0722	1706	0801	1644
09	0813	1703	0744	1747	0655	1828	0555	1910	0505	1950	0439	2022	0448	2024	0522	1950	0601	1854	0640	1756	0724	1705	0802	1644
10	0813	1704	0742	1748	0654	1829	0554	1912	0504	1951	0438	2023	0449	2023	0523	1949	0602	1853	0641	1754	0725	1704	0803	1644
11	0812	1705	0741	1750	0652	1831	0552	1913	0503	1953	0438	2023	0449	2023	0524	1947	0603	1851	0642	1752	0726	1703	0804	1644
12	0812	1707	0739	1752	0650	1832	0550	1914	0501	1954	0438	2024	0450	2022	0525	1945	0605	1849	0644	1750	0728	1701	0805	1644
13	0811	1708	0738	1753	0648	1834	0548	1916	0500	1955	0438	2024	0451	2021	0527	1944	0606	1847	0645	1748	0729	1700	0806	1644
14	0811	1709	0736	1755	0646	1835	0546	1917	0459	1956	0438	2025	0452	2021	0528	1942	0607	1845	0647	1746	0731	1659	0807	1644
15	0810	1710	0734	1756	0644	1836	0544	1918	0458	1958	0438	2025	0453	2020	0529	1941	0608	1843	0648	1744	0732	1658	0807	1644
16	0810	1712	0733	1758	0642	1838	0542	1920	0456	1959	0438	2026	0454	2019	0530	1939	0610	1841	0649	1743	0734	1657	0808	1644
17	0809	1713	0731	1759	0640	1839	0541	1921	0455	2000	0438	2026	0455	2018	0532	1937	0611	1839	0651	1741	0735	1656	0809	1645
18	0808	1715	0730	1800	0638	1840	0539	1922	0454	2001	0438	2026	0456	2017	0533	1935	0612	1837	0652	1739	0736	1655	0810	1645
19	0807	1716	0728	1802	0636	1842	0537	1924	0453	2002	0438	2027	0457	2017	0534	1934	0614	1835	0653	1737	0738	1654	0810	1645
20	0807	1717	0726	1803	0634	1843	0535	1925	0452	2003	0438	2027	0458	2016	0535	1932	0615	1833	0655	1736	0739	1653	0811	1646
21	0806	1719	0725	1805	0632	1845	0534	1926	0451	2005	0438	2027	0459	2015	0537	1930	0616	1831	0656	1734	0741	1652	0811	1646
22	0805	1720	0723	1806	0630	1846	0532	1928	0450	2006	0438	2027	0500	2014	0538	1928	0617	1829	0658	1732	0742	1651	0812	1647
23	0804	1722	0721	1808	0628	1847	0530	1929	0449	2007	0439	2027	0501	2013	0539	1927	0619	1827	0659	1730	0743	1651	0812	1647
24	0803	1723	0719	1809	0626	1849	0528	1930	0448	2008	0439	2027	0502	2011	0541	1925	0620	1825	0700	1729	0745	1650	0813	1648
25	0802	1724	0718	1811	0624	1850	0527	1932	0447	2009	0439	2027	0504	2010	0542	1923	0621	1823	0702	1727	0746	1649	0813	1649
26	0801	1726	0716	1812	0622	1851	0525	1933	0446	2010	0440	2028	0505	2009	0543	1921	0623	1821	0703	1725	0747	1648	0813	1649
27	0800	1727	0714	1814	0620	1853	0523	1934	0446	2011	0440	2027	0506	2008	0544	1919	0624	1819	0705	1724	0749	1648	0814	1650
28	0759	1729	0712	1815	0618	1854	0522	1936	0445	2012	0441	2027	0507	2007	0546	1917	0625	1817	0706	1722	0750	1647	0814	1651
29	0758	1730	0711	1815	0617	1855	0520	1937	0444	2013	0441	2027	0508	2006	0547	1916	0626	1815	0708	1721	0751	1647	0814	1652
30	0757	1732	0710	1815	0615	1857	0518	1938	0443	2014	0442	2027	0509	2004	0548	1914	0628	1813	0709	1719	0752	1646	0814	1652
31	0756	1733	0709	1815	0613	1858	0516	1938	0443	2015	0442	2027	0510	2003	0549	1912	0628	1813	0711	1718	0752	1646	0814	1653

Add one hour for daylight time, if and when in use.

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Reserved for future use.

**WATFORD CITY
ACCOMMODATIONS**

Name	Little Missouri Inn & Suites	Black Gold Suites	Comfort Inn & Suites	Mainstay Suites	Teddy's Residential Suites
Address	109 9th Ave SE P.O. Box 489	3617 6th Avenue NE	600 3rd Ave SW	2222 Prairie Hills Road	113 9th Ave SE P.O. Box 489
City	Watford City, ND 58854	Watford City, ND 58854	Watford City, ND 58854	Watford City, ND 58854	Watford City, ND 58854
General Manager	Colleen Crespo	Nicole Rowe	Dana Livings	Natalya Fode	Colleen Crespo
Web Site	www.watfordcitymissouri.com	www.blackgoldresortnewatford.com	www.choicehotels.com/nd055	www.mainstaynewatford.com	www.watfordcityrs.com
Primary Phone	701-942-6262	701-444-4100	701-842-6565	701-444-4002	701-842-6480
Reservation Phone	701-942-6262	701-444-4100	877-424-6423	701-444-4009	701-842-6480
Email Address	Missouri@outlook.com	book@watfordcitynewatford.com	nd055@choicehotels.com	nd069@choicehotels.com	teddyrs.residential@outlook.com
Total Rooms	89	89	89	89	103
Type/Qty	King 30 Double Queen 45 Double Queen Ext. 14	King Suites 30 Double Queen Suites 45	Suites 23 King 23 Double Queen 43	1 BR Suite 12 2 BR Suite 3 Studio Suite - King 28 Studio Suite - Dbl Queen 46	King 13 Kin Executive 6 King Luxury 13 King Deluxe 5 King -2 Bedroom 1 Double Queen Luxury 47 Double Queen Standard 18 Maltese 12 Elkhorn 24 Grand Ranch 180
Meeting Space/Qty	Grasslands Banquet 140	Board Room 15	Board Room 15		
Special Features	They have continental breakfast, on site guest laundry, pool & spa. Also have a fire pit & grills for guest use as well as being across from South Park Lounge, 24-hr fitness room onsite.	They have continental breakfast, on site guest laundry and free WiFi, 24-hr fitness room onsite, in room kitchenette.	On site guest laundry, marketplace, exercise room, business center, complimentary hot breakfast buffet, free WiFi, meeting room, Choice Privileges Rewards	On site free guest laundry, business center, fitness center, free daily hot buffet breakfast, lounge with weekly reception, extensive DVD library to enjoy in your room.	On site guest laundry, spa & fitness room, South Park Lounge located just off of lobby.

*ROOMS INCLUDE THE AMENITIES LISTED W/ 12 ROOMS AT 132 3RD STREET SW, WATFORD CITY, ND 58854 - ROGER MAHL, OWNER, TELEPHONE NUMBERS IS 701-444-8880 or 800-842-8888, www.ndresidential.net

**WATFORD CITY
ACCOMMODATIONS**

**TOTAL NUMBER
OF ROOMS* 824**

Name	Address	City	General Manager	Web Site	Primary Phone	Reservation Phone	Email Address	Total Rooms	Type/Qty
Roosevelt Inn & Suites	600 2nd Ave SW P.O. Box 1003	Watford City, ND 58854	Lindsey Tharrs & Bethany Devlin	www.rooseveltinn.com	701-842-3686	800-887-9170	manager@rooseveltinn.com	150	Cabins (Single/Doubles) 46 Suites-Extended Stays 30 King Single/Queen Dbl 74
The Watford	810 3rd Ave SW	Watford City, ND 58854	Nancy Cook, Regional Manager Cindy Abernethy, Assistant Manager	www.thewatford.com	701-842-6800	701-842-6800	frontdesk@thewatfordhotel.com	77	Double Queen 45 King Suites 20 Whirlpool King Suites 2
Woodspring Suites	4005 Frontier Avenue	Watford City, ND 58854	Brandi Vega	www.woodspring.com	701-842-3130	701-842-3130	info58854@woodspring.com	124	Handicap Studios 2 Studios 75 Handicap Sleeper Studio 5 Sleeper Studio 1 Doubles 41
Meeting Space/Qty	Board Room 15 Meeting Room 25 Breakfast Room 50	Meeting Room 65							
Special Features	<p>24 hr complimentary coffee & cookies. All rooms have fridge, microwave, iron & board, hair dryer, maximum 32" flat screen TV, free Wi-Fi, indoor pool, spa, sauna, deluxe continental breakfast, free shuttle in town, business center. Executive level floor with private key access.</p> <p>Pool on site, wireless internet, fitness center, convenience store, hot breakfast, business center, guest transportation, oversized parking available.</p> <p>All rooms have a full kitchen, free internet, onsite laundry facilities, 24 hour security and key card access to the building. Located directly off of the Highway 23 bypass.</p>								

LOCAL LODGING FACILITIES FOR SHEYENNE AND GRAND/CEDAR RIVER RD.

LISBON, ND		
SUPER 8 MOTEL	724 Main Street Lisbon, ND 58054	701-683-9076
ENDERLIN, ND		
ENDERLIN INN	1 Railway St N, Enderlin, ND 58027	701-437-2000
CASSELTON, ND		
DAYS INN	2050 Governor's Dr, Casselton, ND 58012	(701) 353-0479
WAHPETON, ND		
Baymont	1800 2 10 Dr, Wahpeton, ND 58075	701-642-5000
Americinn	2029 2 10 Dr, Wahpeton, ND 58075	701-642-8365
Rodeway Inn	209 13th St S, Wahpeton, ND 58075	701-642-1115
LEMMON, SD		
Dakota Lodge	5 10th St East Lemon, SD 57638	605-374-7815
Lemmon Country Inn	19405 US Highway 12 Lemmon, SD 57638	605-374-3711
HETTINGER, ND		
Tip Top Motel	508 3rd Ave S Hettinger, ND 58639	701-567-2437
BOWMAN, ND		
Bowman Lodge and Convention Center	207 US-12, Bowman, ND 58623	701-523-7750
Super 8	408 3rd Ave SW, Bowman, ND 58623	701-523-0975
Bowman Inn and suites	502 5th Ave SW, Bowman, ND 58623	701-458-2000

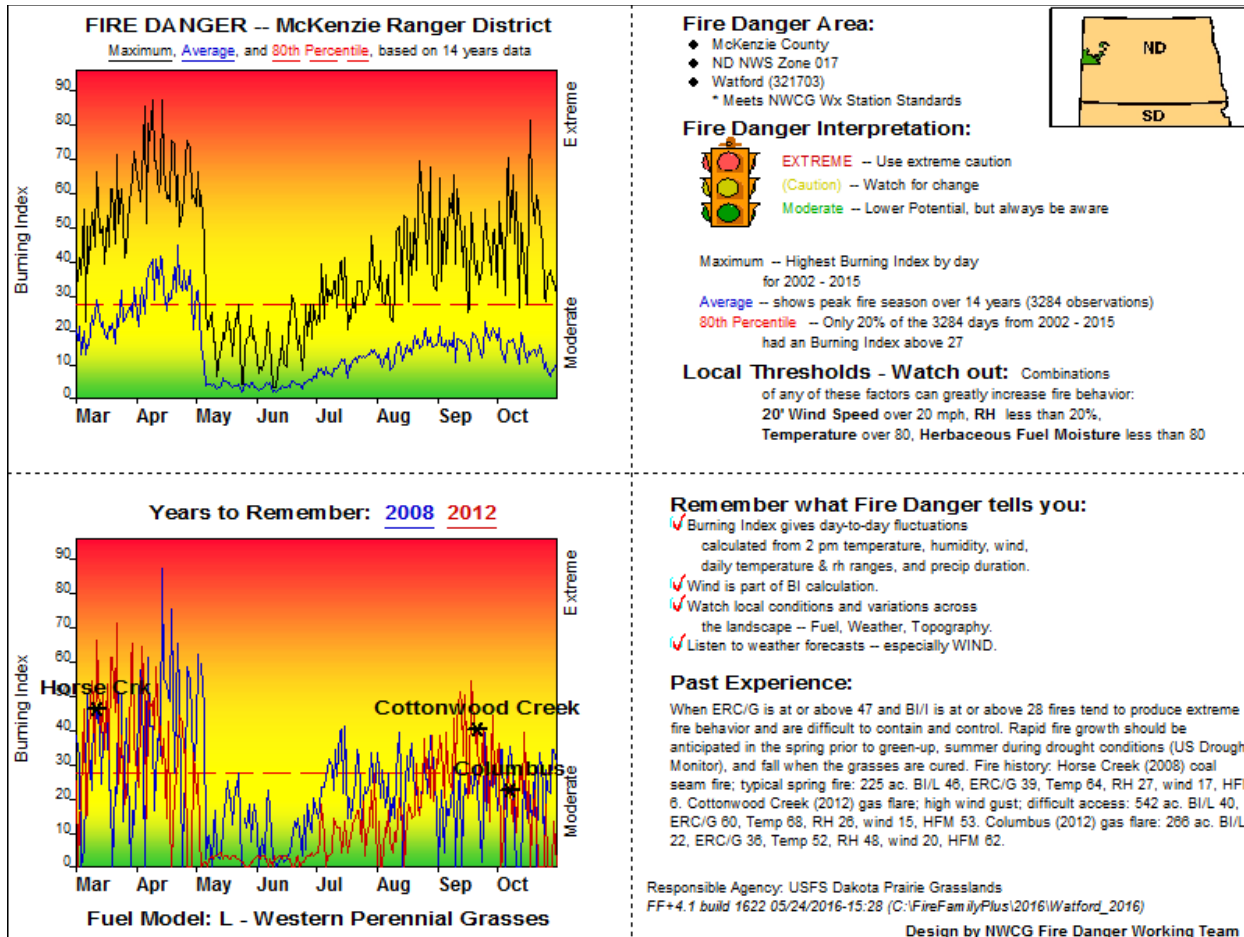
Local Lodging Facilities for Dickinson, ND

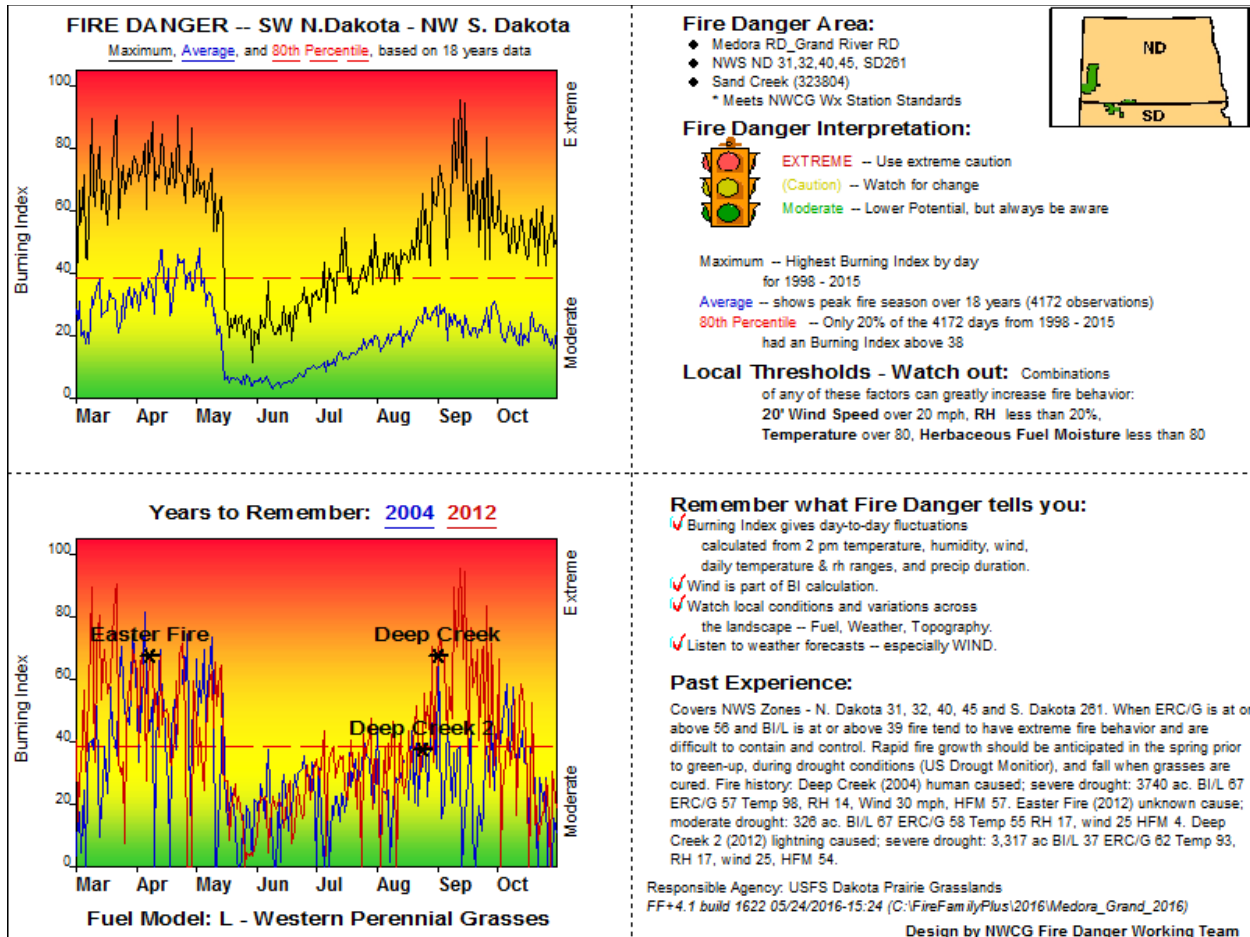
Comfort Inn	493 Elks Dr, Dickinson, ND 58601	701-264-7300
Hampton Inn	110 14th St W, Dickinson, ND 58601	701-456-0100
Americinn	229 15th St W, Dickinson, ND 58601	(844) 388-7316
Ramada Inn	532 15th St W, Dickinson, ND 5860	(701) 483-5600
Holiday Inn Express	103 14th St W, Dickinson, ND 58601	701-456-8000
La Quinta Inn	552 12th St W, Dickinson, ND 58601	701-456-2500
Astoria	363 15th St W, Dickinson, ND 58601	701-456-5000
Hawthorne Suites	1170 Roughrider Blvd, Dickinson, ND 58601	(701) 297-2129
Microtel	1597 6th Ave W, Dickinson, ND 5860	701-456-2000
TownePlace	240 29th St W, Dickinson, ND 58601	(701) 483-4724
Quality Inn	475 15th St W, Dickinson, ND 58601	(701) 456-8400
Candlewood	1430 Sims St, Dickinson, ND 58601	(701) 761-2050
My Place Hotel	2431 3rd Ave W, Dickinson, ND 58601	(701) 483-0300
Wood Spring	3233 Legend Dr, Dickinson, ND 58601	(701) 483-6900
Rodeway Inn	637 12th St W, Dickinson, ND 58601	(701) 227-1215

Local Lodging Facilities for Bismarck, ND

Ramkota	800 S 3rd St, Bismarck, ND 58504	701-258-7700
Staybridge Suites	2801 Gateway Ave, Bismarck, ND 58503	701-223-1499
Radisson	605 E Broadway Ave, Bismarck, ND 58501	701-255-6000
Quality Inn	1030 E Interstate Ave, Bismarck, ND 58503	701-223-1911
Comfort Suites	929 Gateway Ave, Bismarck, ND 58503	701-223-4009
Ramada Inn	1400 E Interchange Ave, Bismarck, ND 58501	701-258-7000
Courtyard	3319 N 14th St, Bismarck, ND 58503	701-223-6667
Wingate	1421 Skyline Blvd, Bismarck, ND 58503	(701) 751-2373
La Quinta	2240 N 12th St, Bismarck, ND 58501	701-751-3313
Holiday Inn Express	3001 N 15th St, Bismarck, ND 58503	701-221-0850
Country Inn and Suites	3205 N 14th St, Bismarck, ND 58503	701-258-4200
Holiday Inn	3903 State St, Bismarck, ND 58503	(701) 751-8240
Sleep Inn	1510 E Century Ave, Bismarck, ND 58503	(701) 751-4860
Expressway Suites	180 E Bismarck Expy, Bismarck, ND 58504	701-222-3311
My Place	2640 Centennial Rd, Bismarck, ND 58503	(701) 751-5080
Ramada Limited	3808 Miriam Ave, Bismarck, ND 58501	(701) 354-5052
Fairfield Inn & Suites	135 Ivy Ave, Bismarck, ND 58504	(701) 223-9293

Residence by Marriot	3421 N 14th St, Bismarck, ND 58503	(701) 258-6088
Hampton Inn	1440 Mapleton Ave, Bismarck, ND 58503	701-751-3100
Home2Suites	1122 W Turnpike Ave, Bismarck, ND 58501	701-751-3411
Hampton Inn and Suites	2020 Schafer St, Bismarck, ND 58501	701-751-5656
Days Inn	1300 E Capitol Ave, Bismarck, ND 58501	(701) 214-6376
Americinn	3235 State St, Bismarck, ND 58501	(701) 353-0436
Mainstay Suites	2507 N 9th St, Bismarck, ND 58503	(701) 223-9119
Candlewood	4400 Skyline Crossings, Bismarck, ND 58503	(701) 751-8900
Fairfield Inn and Suites	1120 E Century Ave, Bismarck, ND 58503	(701) 223-9077
Everspring	200 E Bismarck Expy, Bismarck, ND 58504	701-222-2900





NOTES:

