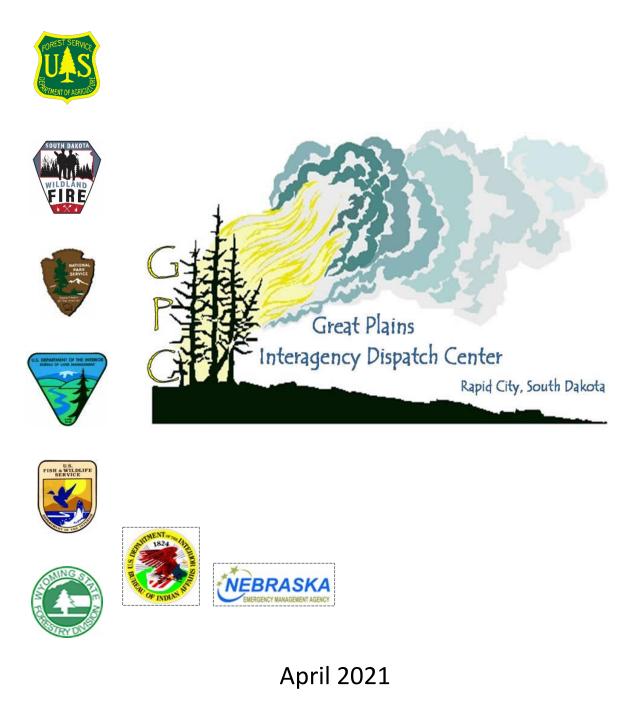
## Interagency Fire Danger Operating Plan



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## Interagency Fire Danger Operating Plan

Approved By:



HOR	S  Raymond Hart	4/16/21
SILLE	Raymond Hart- Regional Fire Management Officer	
	Bureau of Indian Affairs	
E	S/ Dick Terry	4/16/21
5	Dick Terry - District Forester	
	Wyoming State Forestry Division, District #1	
	S  Mark Redfox	4/16/21
	Mark Redfox - Acting Forest Fire Management Officer	
	US Forest Service, Nebraska National Forest	
,	S] Jay Esperance	4/16/21
	Jay Esperance - Director	
	SD Wildland Fire Division, Rapid City, SD	
	S/ Colby Crawford	4/16/21
	Colby Crawford - Zone Fire Management Officer	
	US Fish & Wildlife Service, Mountain Prairie Region	
•	S   Jason Virtue	4/16/21
	Jason Virtue - Forest Fire Management Officer	
	US Forest Service, Black Hills National Forest	

## Interagency Fire Danger Operating Plan

**Approved By:** 



WYOMING

DISTRICT

INS

S / Eric Allen Eric Allen - Fire Management Officer	4/16
National Park Service, Northern Great Plains	
S/ Craig Short	4/16/
Craig Short - Fire Management Officer	
Bureau of Land Management, High Plains District Field	
Office	
S/ Travis Lipp	4/16
Travis Lipp - Fire Management Specialist	
Bureau of Land Management, South Dakota Field Office	
S  Earl Imler	4/16
Earl Imler - NEMA Operations Section Manager	
Nebraska Emergency Management	
S/ Andy Solvie	4/16
Andy Solvie - Center Manager	-, 10
Great Plains Dispatch Center, Office	



**NEBRASKA** 

Name - Title Agency Name, Office

## Interagency Fire Danger Operating Plan

## Prepared By: Technical Group



S/Al Stover	4/16/21
Al Stover - Assistant Fire Management Officer	
National Park Service, Northern Great Plains	
S] Jay Wickham	4/16/21
Jay Wickham - District Office Operations Manager	
SD Department of Agriculture, Wildland Fire Division	
SI ann Ham	1/16/21
S amy Ham	4/16/21
Amy Ham - Fire Planner	
US Forest Service, Black Hills National Forest	
News The	
Name - Title	
Agency Name, Office	
Name - Title	
Agency Name, Office	

Name - Title Agency Name, Office

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## I. INTRODUCTION

## A. PURPOSE

The public, industry, and our own agency personnel expect the interagency wildland fire management agencies to implement appropriate and timely decisions which ultimately result in safe, efficient, and effective wildland fire management actions. This plan is intended to document a decision-making process for agency administrators, fire program managers, fire operations specialists, dispatchers, agency cooperators, and firefighters by establishing interagency planning and response levels using the best available scientific methods and historical weather/fire data.

An appropriate level of preparedness to meet wildland fire management objectives is based upon an assessment of vegetation, climate, and topography utilizing the National Fire Danger Rating System (NFDRS). This plan provides a science-based "tool" for interagency fire managers to incorporate a measure of risk associated with decisions which have the potential to significantly compromise safety and control of wildland fires.

1. Preparedness

Interagency policy and guidance require numerous unit plans and guides to meet preparedness objectives. Some of these plans and guides are interrelated; some plans and guides provide the basis for other plans/guides as shown in Figure 1.

This Fire Danger Operating Plan (FDOP) guides the application of information from decision support tools (such as NFDRS) at the local level. This FDOP is supplemental to the Fire Management Plan; it documents the establishment and management of a fire weather station network and describes how fire danger ratings



will be applied to local unit fire management decisions. The actual implementation of the fire business thresholds is described in the following supplemental action plans.

The decision points are identified and documented in the Great Plains Zone Fire Danger Operating Plan.

a. Preparedness Plan

Preparedness plans provide management direction given identified levels of burning conditions, fire activity, and resource commitment, and are required at national, state/regional, and local levels. Preparedness Levels (1-5) are determined by incremental measures of burning conditions, fire activity, and resource commitment. Fire danger rating is a critical measure of burning conditions. The Preparedness Levels are identified and documented in the Great Plains Zone Fire Danger Operating Plan; the associated decisions and planned actions are located in *Appendix A*.

b. Staffing Plan

The Staffing Plan describes escalating responses that are usually noted in the FMP. Mitigating actions are designed to enhance the unit's fire management capability during short periods (one burning period, Fourth of July or other pre-identified events) where normal staffing cannot meet initial attack, prevention, or detection needs. The decision points are identified and documented in the Great Plains Zone Fire Danger Operating Plan; the associated decisions and planned actions are in *Appendix B*.

c. Prevention Plan – Fire Danger Components

Prevention plans document the wildland fire problems identified by a prevention analysis. The analysis examines human-caused fires, but also the risks, hazards, and values for the planning unit. Components of the plan include mitigation (actions initiated to reduce impacts of wildland fire to communities), prevention (of unwanted human-caused fires), education (facilitating and promoting awareness and understanding of wildland fire), enforcement (actions necessary to establish and carry out regulations, restrictions, and closures), and administration of the prevention program. Currently Prevention Plans reside with individual agencies, but will look to be a consolidated plan in the future. Planned actions can be a coordinated effort between agencies depending on fire activity and events occurring within the zone. The process for fire danger determination for all agencies is described in *Appendix C*.

d. Public Fire Restriction Plan

A Restriction Plan is an interagency document that outlines interagency coordination efforts regarding fire restrictions and closures. An interagency approach for initiating restrictions or closures helps provide consistency

among the land management partners, while defining the restriction boundaries so they are easily distinguishable to the public. Based on the fire danger, managers may impose fire restrictions or emergency closures to public lands. There is not a written Public Fire Restriction Plan for the Great Plains Zone due to large variations of fuels conditions that occur across the zone. Fire restrictions calls are held between all agencies when the fire danger reaches high to very high or counties begin to enact restrictions. This enables consistency and coordination when conditions allow. Refer to *Appendix D* for further information.

- 2. Wildfire Response
  - a. Initial Response Plan

Initial response plans, also referred to as run cards or pre-planned response plans, specify the fire management response (e.g. number and type of suppression assets to dispatch) within a defined geographic area to an unplanned ignition, based on fire weather, fuel conditions, fire management objectives, and resource availability. Response levels are identified and documented in the Great Plains Zone Fire Danger Operating Plan. The number and type of suppression resources dispatched to a reported fire is documented in the associated initial Dispatch / Response Plan (*Appendix E*).

b. Local Mobilization Plan

The Great Plains Zone Mobilization Guide identifies standard procedures, which guide the operations of multi-agency logistical support activity throughout the coordination system. The Mobilization Guide is intended to facilitate interagency dispatch coordination, ensuring the timeliest and most cost-effective incident support services available are provided. Communication between Units, GACCs, State, Regional Offices and other cooperative agencies are addressed. The Mobilization Guide can be located on the Dispatch Center web site https://gacc.nifc.gov/rmcc/dispatch\_centers/r2gpc/.

- 3. Fuels Management
  - a. Prescribed Burn Approval Plan (USFS)
    - All high complexity prescribed fire plans will be approved by the Forest Supervisor.
    - Line officers are delegated authority to approve moderate and low complexity prescribed fire plans based on qualifications.
    - All prescribed fire plans must be technically reviewed, signed, and dated by a Prescribed Fire Burn Boss, qualified for the complexity level of the proposed project.

- Technical reviewers from other National Forests or agencies may also review burn plans if they are a qualified Burn Boss for the level of plan being reviewed.
- In addition, prescribed fire plans must be reviewed and signed by a certified Silviculturist.

## **B. POLICY AND GUIDANCE**

Interagency policy and guidance regarding the development of Fire Danger Operating Plans can be found in the <u>Interagency Standards for Fire & Aviation</u> <u>Operations</u> (Red Book). Agency-specific direction can be found in:

- U.S. Forest Service Manual 5120 Fire Management Preparedness
- Bureau of Land Management Manual 9211 1 Fire Planning Handbook
- National Park Service Manual 18, Chapter 5 Preparedness
- Fish and Wildlife Service Fire Management Handbook, Chapter 10 Preparedness

• Bureau of Indian Affairs – Wildland Fire and Aviation Program Management Operations Guide

## C. OPERATING PLAN OBJECTIVES

- 1. Provide a tool for agency administrators, fire managers, dispatchers, agency cooperators, and firefighters to correlate fire danger ratings with appropriate fire business decisions in fire danger planning area.
- 2. Delineate fire danger rating areas (FDRAs) in fire danger planning area with similar climate, vegetation, and topography.
- 3. Establish an interagency fire weather-monitoring network consisting of Remote Automated Weather Stations (RAWS) which comply with NFDRS Weather Station Standards (PMS 426-3).
- 4. Determine climatological breakpoints and fire business thresholds using the Weather Information Management System (WIMS), National Fire Danger Rating System (NFDRS), FireFamilyPlus software to analyse and summarize an integrated database of historical fire weather and fire occurrence data.
- 5. Define roles and responsibilities to make fire preparedness decisions, manage weather information, and brief fire suppression personnel regarding current and potential fire danger.
- 6. Determine the most effective communication methods for fire managers to communicate potential fire danger to cooperating agencies, industry, and the public.

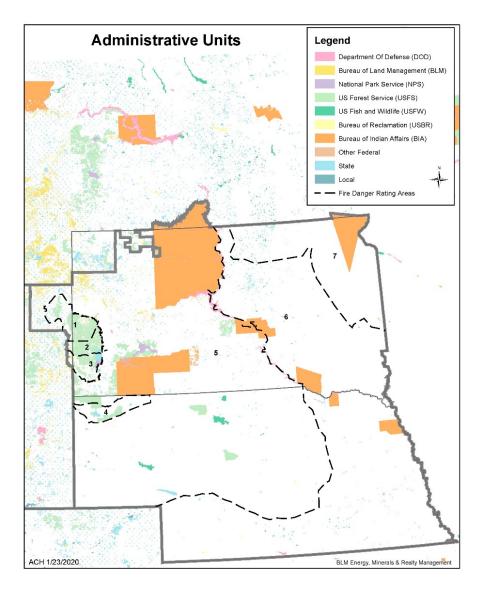
- 7. Provide guidance to interagency personnel outlining specific daily actions and considerations at each preparedness level.
- 8. Identify seasonal risk analysis criteria and establish general fire severity thresholds.
- 9. Identify the development and distribution of fire danger pocket cards to all personnel involved with fire suppression within the fire danger planning area.
- 10. Identify program needs and suggest improvements for implementation of the Fire Danger Operating Plan.

## II. FIRE DANGER PLANNING AREA INVENTORY AND ANALYSIS

#### A. ADMINISTRATIVE UNITS

This document serves as an *interagency* example of consistent and effective application of fire danger decisions is applied across multiple jurisdictional boundaries. Wildland fire management and suppression responsibilities are shared among Federal, State, and local cooperators.

1. Overview Map



Map 1: Fire Danger Planning Area Overview

#### 2. Ownership Table

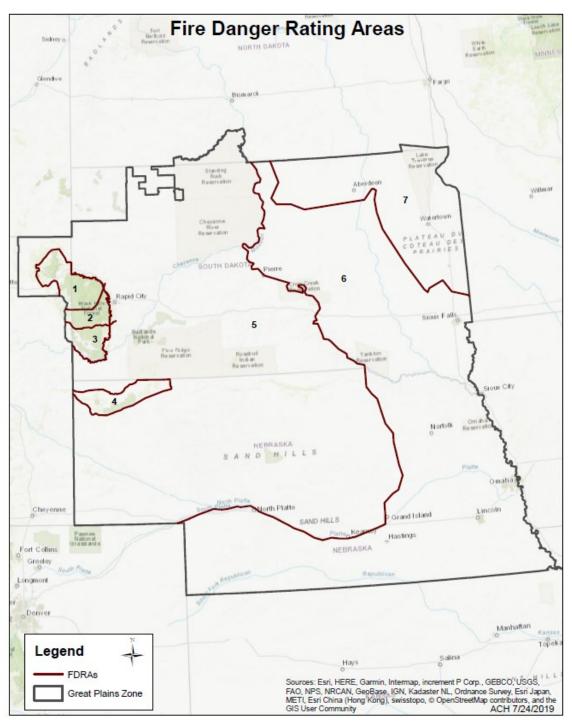
Agency	Acreage
Forest Service	2,646,422
State	751,342
National Park Service	162,084
Bureau of Land Management	476,612
State of Nebraska	360,140
Bureau of Indian Affairs	17,030,639
Fish & Wildlife Service	545,499
Private	932,676
Other	2,608,994

 Table 1: Ownership Table

## B. FIRE DANGER RATING AREAS

A Fire Danger Rating Area (FDRA) is defined as a large geographic area relatively homogenous with respect to *climate, vegetation* and *topography*. Because of these similarities, it can be assumed that the fire danger within a FDRA is relatively uniform. Fire Danger Rating Areas were delineated based upon an analysis of these three factors: climate (Appendix I), vegetation (Appendix H), and topography (Appendix G). A detailed description of each FDRA is located in *Appendix L*. The final FDRA delineation is depicted here:

#### 4. FDRA Map



Map 2: Fire Danger Rating Areas (FDRAs)

#### 5. FDRA Table

Fire Danger Rating Area	Acreage	% of Total
FDRA #1	1,225,993	0.8%
FDRA #2	546,146	0.3%
FDRA #3	686,553	0.4%
FDRA #4	994,778	0.7%
FDRA #5	95,403,487	62%
FDRA #6	37,174,910	24%
FDRA #7	16,929,910	11%
	Table 2: Fire Danger Rat	

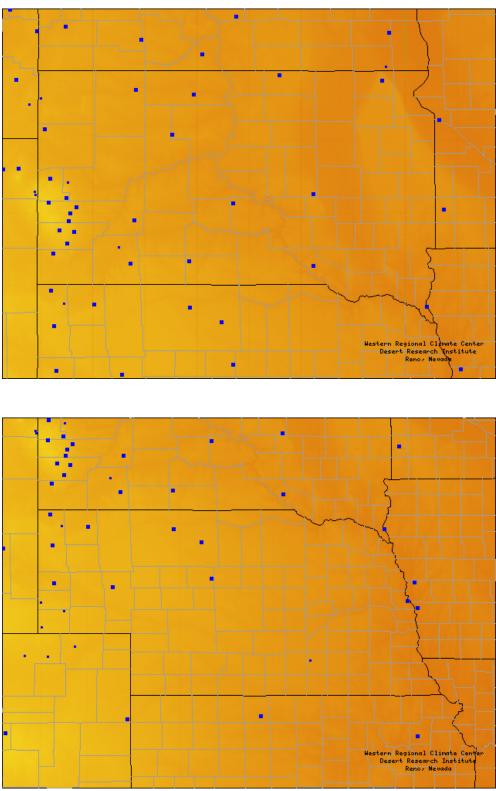
Table 2: Fire Danger Rating Areas (FDRAs)

## C. WEATHER STATIONS

All Remote Automated Weather Stations (RAWS) comply with the National Wildfire Coordinating Group (NWCG) weather station standards. http://www.nwcg.gov/pms/pubs/PMS426-3.pdf.

Each RAWS receives, at a minimum, one annual on-site maintenance visit by either the local user or contracted personnel to ensure sensors are within calibration standards and verify site and station conditions.

## 6. RAWS Maps



Map 3: Remote Automated Weather Station (RAWS)

## 7. RAWS Catalogue Table (Active Stations Only)

							Table 3: RA	WS Catalogue
			_	AVAIL				
			AGENCY /	DATA				REPORTING
STATION NAME	WIMS ID	NESDIS ID	OWNER	YEARS	ELEV	LATITUDE	LONGITUDE	TIME
<u>Nemo</u>	392506	3230668C	BKF/USFS	1993-2021	4644	44.190000	-103.51060	12
Devils Tower	480606	FA64F588	DTP/NPS	1999-2021	3900	44.581700	-104.71940	13
<b>Bearlodge</b>	480605	32362548	BKF/USFS	1985-2021	5280	44.597200	-104.42810	12
<u>Custer</u>	393506	326760FA	BKF/USFS	2000-2021	5821	43.778390	-103.64058	13
Baker Park	392606	32828142	BKF/USFS	2001-2021	4674	43.979200	-103.42500	13
Rapid City West	392608	32D5515C	SDS/STATE	2014-2021	3793	44.0693056	-103.311667	13
<u>Whitetail</u>	392607	AAC100AA	BKF/USFS	2005-2021	6848	44.1260500	-103.843900	13
Custer State Park	393507	32D35192	SDS/STATE	2008-2021	3950	43.728600	-103.354200	12
Red Canyon	395105	323075FA	BKF/USFS	1993-2021	4644	43.425800	-103.758900	12
WICA_Elk Mountain	393505	FA6600F8	WCP/NPS	1996-2021	4111	43.557500	-103.491400	13
Mount Rushmore	392603	FA66138E	MRP/NPS	2000-2021	5400	43.8778170	-103.449597	13
<u>KINCAN</u>	250203	32382120	NBF/USFS	1989-2021	4080	42.7236000	-102.971700	13
Indian Butte	390901	3276D610	MBLM/BLM	2005-2021	3380	45.1393056	-103.912639	12
Grand River	390301	AAC207A4	NDSRA/BIA	2010-2021	2176	45.6142690	-101.062872	13
<u>Tatanka Prairie</u>	328501	3280E150	NDSRA/BIA	2008-2021	2316	46.1602530	-100.901333	13
Bear Creek	391201	52109588	Cheyriver/BIA	1993-2021	2290	45.0569580	-101.467711	12
Fort Pierre	393801	3231B21E	USFS/NBF	2003-2021	2274	44.1153000	-100.301400	12
<u>Pinnacles</u>	392602	FA64C012	BDP/NPS	1998-2021	3080	43.8806000	-102.237800	13
Magpie Creek	395601	521167F6	BIA/Rosebud	1987-2021	2840	43.3183420	-101.145325	13
<u>Agate</u>	250105	FA6643F2	AFP/NPS	1997-2021	4400	42.4250000	-103.735800	13
Valentine	250402	8375A71A	FWS/Valentine	2002-2021	2927	42.4839000	-100.523100	13
Bessey	252402	32674616	USFS/NBF	1987-2021	2873	41.8972000	-100.310600	12
Scotts Bluff	251905	FA40F15C	SBP/NPS	2001-2021	4224	41.8294000	-103.708100	12
Porcupine	395202	52111166	BIA/Pineridge	1992-2021	3786	43.2894890	-102.271039	12
Huron	393101	83787214	FWS/Hurwmd	2003-2021	1876	44.2411000	-98.7700000	12

				AVAIL				
			AGENCY /	DATA				REPORTING
STATION NAME	WIMS ID	NESDIS ID	OWNER	YEARS	ELEV	LATITUDE	LONGITUDE	TIME
Lake Andes	395901	83788290	FWS/Lk Andes	2003-2021	1710	43.2586000	-98.7592000	12
Loess Hills TNC Broken	132207	FD101282	State/TNC Broke	2004-2021	1170	42.6972860	-96.5758330	13
<u>Desoto</u>	135501	83762600	FWS	2002-2021	1000	41.5333000	-96.0833000	13
Sand Lake	390501	83794574	FWS/SD-SLR	2004-2021	2030	45.8778000	-99.4108000	13
Red Station	216901	CA52737C	NPS/PIPE	2005-2021	1660	44.0103030	-96.3212000	13
Marshall Co.	390701	8376A014	FWS/Waubaynv	2008-2021	2010	45.8039000	-97.4508000	12
Big Stone NWR	213501	8378F400	Other Fed/Big	2004-2021	878	45.2611000	-96.3417000	12
			Stone					
<u>Spearfish</u>	392507	3281953A	State	2019-2021	3898	44.4582333	-103.818733	13
<u>Montrose</u>	250103	AA10C4B4	NBF/USFS	2017-2021	3734	42.923056	-103.793056	13
			1	1		1		1

## 8. Special Interest Groups (SIGs)

Special Interest G	roup (SIG): FDRA	A #1	
Station / WIMS	Number	Station Name	Weight
392506	Nemo		1.00
480606	Devils To	ower	1.00
480605	Bearlodg	ge	1.00

Table 4: FDRA #1 SIG

Special Interest Group (SIG	): FDRA #2	
Station / WIMS Number	Station Name	Weight
393506	Custer	1.00
392606	Baker Park	1.00
392608	Rapid City West	1.00
392607	Whitetail	1.00

Table 5: FDRA #2 SIG

Station / WIMS Number	Station Name	Weight
395105	Red Canyon	1.00
393505	WICA Elk Mountain	1.00
393507	Custer State Park	1.00
393506	Custer	1.00
392603	Mt. Rushmore	1.00

Special Interest Group (SIG	): FDRA #4		
Station / WIMS Number		Station Name	Weight
250203	Kings Canyon		1.00

Table 7: FDRA #4 SIG

Special Interest Group	<i>(SIG):</i> FDRA #5	
Station / WIMS Num	ber Station Name	Weight
390901	Indian Butte	1.00
390301	Grand River	1.00
328501	Tatanka Prairie	1.00
391201	Bear Creek	1.00
393801	Fort Pierre	1.00
392602	Pinnacles	1.00
395601	Magpie Creek	1.00
250105	Agate	1.00
250402	Valentine	1.00
252402	Bessey	1.00
251905	Scotts Bluff	1.00
395202	Porcupine	1.00
Table 9. EDDA #E SIC		

Table 8: FDRA #5 SIG

Station / WIMS Numb	er Station Name	Weight
393101	Huron	1.00
395901	Lake Andes	1.00
132207	Loess Hills TNC Broken	1.00
135501	Desoto	1.00
390501	Sand Lake	1.00
216901	Red Station	1.00

Table 9: FDRA #6 SIG

Station / WIMS Number	Station Name	Weight
390501	Sand Lake	1.00
390701	Marshall Co	1.00
213501	Big Stone NWR	1.00
216901	Red Station	1.00

Table 10: FDRA #7 SIG

## III. FIRE DANGER WORKLOAD ANALYSIS

To apply fire danger rating as a viable decision support tool, fire managers must be able to associate fire suppression workload with a specific target groups. An understanding of the specific target group from which the suppression workload originates will help determine the appropriate communication methods and deterrence measures which may effectively change the behaviour of the respective target group.

## A.IDENTIFICATION / FRAMING OF THE FIRE OCCURRENCE WORKLOAD

The ability to regulate, educate, or control a user group will be based upon the interface method and how quickly they can react to the action taken. Consequently, the most appropriate decision tool would depend upon the sensitivity of the target group to the implementation of the action. In addition, each action will result in positive and/or negative impacts to a user group. In selecting a component and/or index, several factors must be considered:

- 1. Affected Target Group: The group of people commonly associated with the problem (Agency, Industry, or Public).
  - a. **Agency**: Employees of the federal, state, and local governments involved in the cooperative effort to suppress wildland fires. This includes Federal, State, and County land management employees, along with volunteer fire departments who share a similar protection mission to manage wildland fires.
  - b. **Industry**: Employees affiliated with organizations which utilize natural resources and/or obtain permits or leases to conduct commercial activities on federal, state, or private lands. These entities or activities could include ranchers, wilderness camps, railroads, mines, timber harvesting, filming, building construction, oil and gas, electric generation, guiding services, etc.
  - c. **Public**: Individuals who use public lands for non-commercial purposes such as off-highway vehicle (OHV) use, camping, hiking, hunting, fishing, skiing, firewood gathering, agriculture, mountain biking, general travel and recreation. This group also includes those living within the wildland/urban interface (WUI).
- 2. **Workload Description**: This is the fire unit's suppression workload. Human-caused fires are usually described in terms of an ignition cause related to public and industrial target groups. Natural-caused (or lightning) fire workload is usually described as the Agency's workload. For example, lightning is not "the problem"; rather, the problem is the local unit's ability to respond to multiple ignitions, exceeding the staffing capabilities.

## B. FIRE WORKLOAD ANALYSIS TABLE

The ability to regulate, educate, or control a user group will be based upon the interface method and how quickly they can react to the action taken. In addition, each action will result in positive and/or negative impacts to the user groups. Consequently, the decision tool which would be most appropriate would depend upon the sensitivity of the target group to the implementation of the action, and ultimately change their behaviour. Table 11 illustrates the differences between target groups (Agency, Industry, and Public) and the associated fire cause.

**TARGET GROUP IGNITION CAUSE** RELATIVE **DEGREE OF** COMMUNICATIO GENERAL SPECIFIC GENERAL SPECIFIC CONTROL N METHODS WORKLOAD DESCRIPTION Public Overnight 4 - Campfire Unattended (and Moderate Communicated The unit is experiencing a significant number of campers & dayescaped) Campfires by Dispatch use picnickers. around developed an Center daily to escaped campfires in Private campfire dispersed recreation agency personnel dispersed camping areas. sites. Campfire rings for newspaper, The campfires are rings. at private residences. "Smokey's Arm" abandoned by single-day or overnight campers when sign. In the Black fuels are critically dry and Hills Forest Fire Protection high wind events and not District a permit extinguished properly. is required for all open fires. 1 - Lightning Very High Agency INITIAL ATTACK: Agency policy will dictate Agency Natural ignitions Administrators, which may be If a fire plots management actions. Fire Fire Management suppressed or within management with a managed for resource confine/contain strategy may Officers, Duty designated areas, Officers benefit. **Dispatch will** require suppression resources for an extended notify Agency DO and dispatch time. closest resources

Table 11: Planning Area Fire Workload Analysis

TAF	RGET GROUP	IGN	ITION CAUSE	RELATIVE		
GENERAL	SPECIFIC	GENERAL	SPECIFIC	DEGREE OF CONTROL	COMMUNICATIO N METHODS	WORKLOAD DESCRIPTION
					based on response level. Appropriate management response will be determined by agency policy.	
Public	Private landowners.	5 - Debris Burning	Escaped brush piles.	Moderate	Permits are required prior to ignition of piles. Press releases and social media posts are utilized raise awareness of potential for escapes.	The unit is experiencing a significant number of escaped fires from debris burning. Open burning is allowed from Nov 1 <sup>st</sup> to Mar 31 <sup>st</sup> in the fire protection district.
Public	Equipment and vehicle operators.	2 - Equipment	Vehicle exhaust systems igniting tall grass.	Moderate	A travel management plan is in place and maps are available to the public.	The unit is experiencing a significant number of wildfires due to off road vehicle use.

TAF	TARGET GROUP		NITION CAUSE	RELATIVE		
GENERAL	SPECIFIC	GENERAL	SPECIFIC	DEGREE OF CONTROL	COMMUNICATIO N METHODS	WORKLOAD DESCRIPTION
Public	Recreational shooting.	9- Miscellaneo us	Exploding targets and recreational target shooting.	Low	SDCL and agency policy. Web based and periodic press releases.	The unit is experiencig a significant number of wildfires due to recreational shooting.
Industry	Equipment Operation	2- Equipment	Logging, construction, railroads, oil & gas, wind energy, electrical utilities, ranching operations.	Moderate	Contract and permit requirements related to fire prevention on federal lands are utilized. Additional fire restrictions may apply during times of elevated fire danger.	The unit is experiencing a significant number of wildfires due to a variety of industrial related activities.

## IV. FIRE DANGER DECISION ANALYSIS

Decision points can be based upon either:

- Climatological Breakpoints, or
- Fire Business Thresholds.

The following table provides a summary of the planning area's fire danger problems and concerns. In addition, each problem is associated with a specific target group whose activities can be influenced through effective communication and implementation of specific control measures.

This Fire Danger Operating Plan will be used to support preparedness, staffing and response decisions which are made at specific decision points. A "decision point" is a point along the range of possible output values where a decision shifts from one choice to another. When the combination of events and conditions signal that it is time to do something different, a "decision point" has been identified for each Fire Danger Rating Level within each Fire Danger Rating Area.

#### A.CLIMATOLOGICAL ANALYSIS

Climatological breakpoints are points on the cumulative distribution curve of one fire weather/danger index computed from climatology (weather) without regard for associated fire occurrence/business. For example, the value at the 90<sup>th</sup> percentile ERC is the climatological breakpoint at which only 10 percent of the ERC values are greater in value.

It is equally important to identify the period or range of data analysis used to determine the agency percentiles. The percentile values for the calendar year (Jan - Dec) will be different from the percentile values for the fire season (May - Oct). Each agency will have specific (and perhaps different) direction for use of climatological percentiles.

The decision thresholds identified in this Fire Danger Operating Plan are based upon the statistical correlation of historical fire occurrence and weather data and, therefore, do not utilize climatological (percentiles) for decision points.

#### **B. FIRE BUSINESS ANALYSIS**

To apply a fire danger system which will assist managers with fire management decisions, ignition problems should be identified, quantified, framed, and associated with a target group to determine the most appropriate fire danger-based decision "tool" to mitigate any given issue.

## C. DECISION SUMMARY TABLE

Target Group	Fire Danger Rating Area(s)	Statistical Cause	Climatological Breakpoints or Fire Business Thresholds	Index / Comp	NFDRS2016 Fuel Model	Management Tool	Number of Decision Points	Preparedness Plan(s) to Modify Target Group Behaviour
Public	FDRA 1, 2, 3, 4	4 - Campfire	Fire Business Thresholds	ERC/ BI	Y	Adjective Fire Danger Rating Level	5	Prevention Plan
Public	FDRA 5, 6, 7	4 - Campfire	Fire Business Thresholds	BI	V	Adjective Fire Danger Rating Level	5	Prevention Plan
Agency	FDRA 1, 2, 3, 4	1 - Lightning	Fire Business Thresholds	ERC/ BI	Y	Adjective Fire Danger Rating Level	5	Response Plan
Agency	FDRA 5, 6, 7	1 - Lightning	Fire Business Thresholds	BI	V	Adjective Fire Danger Rating Level	5	Response Plan
Public	FDRA 1, 2, 3, 4	5 - Debris Burning	Fire Business Thresholds	ERC/ BI	Y	Adjective Fire Danger Rating Level	5	Other
Public	FDRA 5, 6, 7	5- Debris Burning	Fire Business Thresholds	BI	V	Adjective Fire Danger Rating Level	5	Follow applicable State & local regulations
Public	FDRA 1, 2, 3, 4	2- Equipment	Fire Business Thresholds	ERC/ BI	Y	Adjective Fire Danger Rating Level	5	Other
Public	FDRA 5, 6, 7	2- Equipment	Fire Business Thresholds	BI	V	Adjective Fire Danger Rating Level	5	Other

Target Group	Fire Danger Rating Area(s)	Statistical Cause	Climatological Breakpoints or Fire Business Thresholds	Index / Comp	NFDRS2016 Fuel Model	Management Tool	Number of Decision Points	Preparedness Plan(s) to Modify Target Group Behaviour
Public	FDRA 1, 2, 3, 4	9- Miscellane ous	Fire Business Thresholds	ERC/ BI	Y	Adjective Fire Danger Rating Level	5	Other
Public	FDRA 5, 6, 7	9- Miscellane ous	Fire Business Thresholds	BI	V	Adjective Fire Danger Rating Level	5	Other
Industry	FDRA 1, 2, 3, 4	2- Equipment	Fire Business Thresholds	ERC/ BI	Y	Adjective Fire Danger Rating Level	5	Other
Industry	FDRA 5, 6, 7	2- Equipment	Fire Business Thresholds	BI	V	Adjective Fire Danger Rating Level	5	Other
Agency BLM only	FDRA 5, 1, 2, 3	All	Climatological only	ERC	Y	Seasonal Trend Analysis	n/a	Web based link available to all firefighters

 Table 12: Decision Summary Table

## V. FIRE DANGER RATING LEVELS

The NFDRS utilizes the WIMS processor to manipulate weather data and forecasted data stored in the National Interagency Fire Management Integrated Database (NIFMID) to produce fire danger ratings for corresponding weather stations. NFDRS outputs from the WIMS processor can be used to determine various levels of fire danger rating to address the fire problems identified previously in the Fire Problem Analysis Chart. The system is designed to model worst-case fire danger scenario. NFDRS (along with other decision support tools) will be utilized to produce levels (thresholds) of fire business to address local fire problems by targeting public, industrial, or agency groups.

## A. RESPONSE (OR DISPATCH) LEVEL

Response (or Dispatch) Levels are pre-planned actions which identify the number and type of resources (engines, crews, aircraft, etc.) initially dispatched to a reported wildland fire based upon fire danger criteria.

## **B. STAFFING LEVEL**

Staffing Levels will be used to make daily internal fire preparedness and operational decisions. At the protection unit level, the staffing level can form a basis for decisions regarding the "degree of readiness" for initial attack resources and support resources. Specific preparedness actions are defined at each staffing level. Although Staffing Level can be a direct output in WIMS, the WIMS output is only based upon weather observations and climatological percentiles. The use of climatological percentiles for daily staffing decisions is optional. The preferred method to delineate Staffing Level thresholds is based on statistical correlation of weather AND fire occurrence.

## C. PREPAREDNESS LEVEL

The Preparedness Level is a five-tier (1-5) fire danger rating decision tool that is based on NFDRS output(s) and other indicators of fire business (such as projected levels of resource commitment). Preparedness Levels will assist fire managers with more long-term (seasonal) decisions with respect to fire danger.

## D. FIRE DANGER ADJECTIVE RATING LEVEL

In 1974, the Forest Service, Bureau of Land Management and State Forestry organizations established five standard Adjective Fire Danger Rating Levels descriptions for public information and signing.

The Adjective Fire Danger Rating Level for the GPC zone is obtained as a direct output from WIMS; strictly based on weather and climatological percentiles (90th / 97th) with no regard to historical fire occurrence.

## VI. FIRE DANGER OPERATING PROCEDURES

## A. ROLES AND RESPONSIBILITIES

- 1. Agency Administrators
  - Responsible for all aspects of fire management.
  - Ensure Dispatch Centers are prepared with mobilization and initial response plans to detect and respond to wildfires with effective coordination and mobilization of wildland fire management assets.
  - Ensure that adequate plans, hardware, software, qualified personnel, and facilities are available to coordinate, support, and process the timely and accurate assessment of weather conditions (RAWS network and WIMS), NFDRS), and risk (Wildland Fire Decision Support System (WFDSS)).
  - Implement applicable actions identified in initial response systems and plans.
  - Signatory on the FDOP.
- 2. Fire Program Managers
  - Responsible for overall program management.
  - Assists in FDOP development.
- 3. Fire Danger Technical Group
  - Develop, review annually, and update the plan as necessary to ensure it meets preparedness needs of the local units.
- 4. Fire Weather Station Owners/Managers
  - Ensures that maintenance is performed per standards and that this maintenance and all other significant station activity is documented in Wildland Fire Management Information (WFMI).
  - Visually confirm outputs from the station to check that the information reflects actual conditions, and notify appropriate organizations if data quality is suspect.
  - Ensures the stations are physically secure and that the site is maintained as needed.
- 5. Dispatch/Communication Center
  - Responsible for maintaining weather station catalogs for the IA area RAWS within the Weather Information Management System (WIMS) throughout the year.
  - Generates and communicates daily NFDRS outputs to the field.
  - Responsible for implementing the plan.
  - The center manager should immediately relay any noticed problems related to any RAWS stations to the appropriate RAWS coordinator.

- The Center Manager for the Great Plains Interagency Dispatch Center is responsible for ensuring that there are adequate and properly trained personnel assigned to the center that have WIMS edit access.
- The Center Manager ensures any changes to station catalog information is relayed to the agency representative to ensure correct station information is being utilized in Fire Family Plus applications.
- Will contact local SD and WY BLM offices for seasonal trend analysis products as needed.
- 6. Duty Officers
  - Implement the plan.
  - Document variation that occurs.
- 7. GIS Specialists
  - Assist with mapping needs as requested.
- 8. National Weather Service
  - Maintain and update Fire Weather Zones as needed.
  - Create fire weather forecasts for zones.
- 9. Education / Mitigation / Prevention Specialists
  - Assist in development or analysis of statistics as requested.
- 10. Fire Planners
  - Coordinate with agency leads to draft/update FDOP annually.
  - Participate as part of Fire Danger Technical Group.

## B. SEASONAL SCHEDULE

With the change to NFDRS16 green-up, curing, and freeze dates are no longer manually entered. Growing season index, now included in the model, predicts green-up and dormancy from surface weather data. Snow flags are entered into WIMS by Great Plains Dispatch with the input of the FMOs and field personnel.

#### C. DAILY SCHEDULE

Daily Timeline

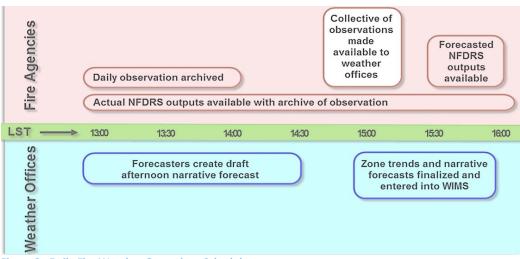


Figure 2: Daily Fire Weather Operations Schedule

After 1345 daily observations are edited in WIMS and forecasted observations are produced to be utilized the next day.

## D.WEATHER STATION MONITORING AND MAINTENANCE

Each agency is responsible for the annual maintenance and calibration of their RAWS. The Remote Sensing Laboratory located at the National Interagency Fire Center (NIFC) maintains and calibrates the BLM RAWS annually.

RAWS stations are maintained in accordance with Interagency Wildland Fire Weather Station Standards & Guidelines (PMS 426-3, NWCG March 2019).

**RAWS coordinators:** 

- Jason Virtue-Black Hills National Forest
- Mark Red Fox-Nebraska National Forest
- Al Stover-Northern Great Plains Fire Management, National Park Service
- Mark Browning-Bureau of Indian Affairs
- Richard Sterry-U.S. Fish and Wildlife Service, Mountain Prairie Region
- Jay Wickham-SD Wildland Fire

Certified RAWS technicians include:

- Todd Hoover, Black Hills National Forest
- Jason Virtue-Black Hills National Forest
- Corey Lewis-Black Hills National Forest
- Josh Hoffman-Black Hills National Forest
- Ben Jech-Nebraska National Forest (Pine Ridge RD)
- Nate Hanson-Nebraska National Forest (Bessey RD)

- Jay Wickham-SD Wildland Fire
- Al Stover-National Park Service

The Bureau of Indian Affairs, National Interagency Fire Center has two maintenance contracts to maintain the BIA owned RAWS stations. The first being BLM NIFC and the second being Forest Technology Systems LTD.

## VII. FIRE DANGER PROGRAM NEEDS

## A.WEATHER STATIONS

• For specific project needs there are portable RAWS available for use. Contact Jason Virtue (BKF) or Jay Wickham (SD Wildland Fire) regarding availability.

#### **B.COMPUTER / EQUIPMENT**

• None needed

#### C.TRAINING

• Additional RAWS technicians should be trained to provide for adequate certified personnel. There should be at least two certified technicians per Fire Weather Zone.

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# APPENDIX A-PREPAREDNESS PLAN

Representatives from each fire management organization are responsible for establishing appropriate actions for each preparedness level. Actions include fuels, fire prevention/education, suppression, information and others.

# Purpose

Preparedness plans provide management direction given identified levels of burning conditions, fire activity, and resource commitment, and are required at national, state/regional, and local levels. Preparedness Levels (1-5) are determined by incremental measures of burning conditions, fire activity, and resource commitment. Fire danger rating is a critical measure of burning conditions.

# **Preparedness versus Staffing Levels**

### **Preparedness Levels**

Preparedness Levels often get confused with Staffing Levels. Staffing Levels only consider fire danger, while Preparedness Levels incorporate additional items, such as current level of local fire occurrence, live fuel moisture, and suppression resources committed. Additionally, Preparedness Levels incorporate stable variables (e.g. ERC, Live Fuel Moisture, 100-hr Fuel Moisture, etc.) to help with long-term decisions, such as the need to request severity funding or activation of public-use restrictions.

# **Policy and Guidance**

Policy and guidance regarding the development of Preparedness Level plans can be found in chapter 10 of the Interagency Standards for Fire & Aviation Operations (Red Book).

Preparedness Level Plans are required at the national, state/regional, and local levels. These plans address the five Preparedness Levels (1-5) and provide management direction based on identified levels of burning conditions (fire danger), fire activity, resource commitment/availability, such as incident management teams assigned, and other considerations (in contrast to Staffing Levels, which typically only consider fire danger). Preparedness Level Plans may be developed by a state/regional office for agency-specific use.

Supplemental preparedness actions to consider include, but are not limited to, the following items:

- Management briefings, direction, and considerations;
- Support function: consideration given to expanded dispatch activation and other support needs (procurement, supply, ground support, and communication);

- Support staff availability outside of fire organization;
- Fire danger/behavior assessment;
- Fire information internal and external;
- Multi-agency coordination group/Area command activation; and
- Prescribed fire direction and considerations.

Refer to the National Interagency Mobilization Guide and GACC Mobilization Guides for more information on Preparedness Level Plans.

Preparedness Levels are established to assist fire managers with weekly or monthly planning decisions based upon seasonal fire danger elements. FireFamilyPlus is used to establish fire business thresholds. A statistical analysis of fire occurrence and historical weather was completed for each FDRA. The final Preparedness Level determination may incorporate a measure of current and projected levels of resource commitment due to fire activity and a measure of ignition risk. Each agency will consider management actions identified in the FDOP appendix based upon the five local Preparedness Levels.

GPC p	GPC preparedness levels with management actions and considerations					
Each a	Each action specified under a level is in addition to all actions taken in preceding levels.					
Level	Description	Management Actions /	Responsibility			
		Considerations				
I	No large fire activity on	A. Review and update all	GPC Board of Directors			
	wildland fire agencies	operating plans and	reps or agency designees			
	jurisdictional lands. Most	cooperative agreements.	and district or unit FMOs			
	districts or units have low to					
	moderate adjective class	B. Update fire	GPC Board of Directors			
	ratings. Little or no	management plans	reps or agency designees			
	commitment of resources		and district or unit FMOs			
	locally or nationally.					
	Preseason preparedness	C. Identify and train	GPC Board of Directors			
	duties being accomplished.	personnel to meet	reps or agency designees,			
		possible expanded	district or unit FMOs and			
	Other characteristics of this	dispatch organization	Lead Interagency			
	preparedness level may	needs	Dispatcher			
	include the following:					
		D. Prepare preseason	Contract/Procurement			
	ERC/BI -Refer to ERC and BI	BPA's, Equipment Rental	Unit Leaders in			
	breakpoints listed by FDRA	Agreements	conjunction with units			
	in the following table		and/or FMOs			

The following tables identify the Great Plains Dispatch Zone specific action guide:

	E. Weather stations	
1000 hr. fuels - greater th		Lead Interagency
20%	season starts so they can	Dispatcher and /or district
2078	adjust properly	or unit FMOs, or agency
Resources committed - 10		
		designees
or less	F. Red cards completed	
	and work capacity tests	
<b>KBDI</b> - 0 to 300	administered	GPC Board of Directors
		reps or agency designees,
US Drought Monitor –		district or unit FMOs, Lead
normal, some pockets of	G. Incident Support	Interagency Dispatcher
abnormally dry area exist		
Conditions are normal wit	h Identify and train	GPC Board of Director
some short-term dryness,	personnel to meet	reps, or agency designees
slowing plant growth, son	ne organization	and Lead Interagency
lingering water deficits		Dispatcher
	H. Preparedness review	
	meetings with other	
	agencies as needed	GPC Board of Directors
		reps or agency designees
	I. Forest communication,	and district or unit FMOs
	State digital system and	
	other unit radio systems	District or unit FMOs, NZ
	operational	IRM tech, State radio
		communications reps and
	J. Analyze Fire Severity,	or other technical
	resources committed and	specialist
	validate preparedness	specialise
	levels.	GPC Board of Director
		reps, or agency designees,
	K. Prescribed fire	and district or unit FMOs,
	operations monitored	Lead Interagency
	operations monitored	• ·
	L During fire seeson	Dispatcher and
	L. During fire season,	Cooperators
	daily Situation Report is	
	prepared and sent to	GPC Board of Directors
	RMACC by Lead	reps or agency designees,
	Interagency Dispatcher.	and Lead Interagency
	(Includes preparedness	Dispatcher
	levels, prescribed	
	burning operations and	
	available resources)	All Districts or Units

Level Description	Management Consideration	
<ul> <li>II Class A and B fires occulurisdictional lands and a prescapes to larger (projing one or more districts of experiencing moderate adjective rating class. If within the GPC Zone and cooperators are handling situation. A potential erequesting additional mathematic from RMACC.</li> <li>Other Characteristics of preparedness level mathematic following:</li> <li>ERC/BI - Refer to ERC a breakpoints listed by Following table</li> <li>1000 hr. fuels - 16% to Resources committed 25%</li> <li>KBDI - 301 to 399</li> <li>US Drought Monitor – dry and moderate drom building into some are damage to crops and mathematics or work some water shortages</li> </ul>	urring on I /orA. Analyze fire fire resources in place during 	e severity, ready and fire agency designees, and Lead Interagency o media GPC Board of Directors reps or agency designees, and Lead Interagency Dispatcher o media GPC Board of Directors reps or agency designees, districts or ed actions , on and GPC Board of Directors reps and/or agency designees, burning iewed at ch day re any Board of Directors reps or agency designees.

Level	Description	Management Actions / Considerations	Responsibility
111	Two or more incidents (Class B, C or larger) on jurisdictional lands or	A. Possible activation of ISO and expanded	GPC Board of Directors reps, or
	adjacent lands requiring a major	dispatch	agency designees,
	commitment of resources or		district or unit
	major special event with		FMOs, and Lead
	significant increase in human		Interagency
	caused risk and resultant drain on	B. All prescribed burning	Dispatcher
	resources. Likelihood of additional	operations suspended	
	resources being requested and		GPC Board of
	mobilized through RMACC. The		Director reps or
	weighted adjective rating class		agency designees,
	across the Zone is high to very	C. Evaluate the need for	Prescribed Fire
	high. One or more districts/units	fire restrictions in Black	Managers, district
	or a majority of the local	Hills Fire Protection area	or unit FMO, Burn
	reinforcement resources are	and/or restrictions on	Boss
	committed to regional and	other jurisdictional lands	
	national responses.		GPC Board of
		D. Consider requesting	Directors reps, or
	Other characteristics of this	other resources for pre-	agency designees,
	preparedness level may include	positioning	district or unit
	the following:		FMOs, Line Officers,
		E. Detection flights	and local
	ERC/BI- Refer to ERC and BI	routine / daily	Cooperators
	breakpoints listed by FDRA in the		
	following table		GPC Board of
			Directors reps, or
	<b>1000 hr. fuels</b> - 13% to 16%	F. Review Fire Severity	agency designees
		Plan for implementation	and district or unit
	Resources committed - 50% to		FMOs
	75%		
		G. Interagency Incident	GPC Board of
	<b>KBDI</b> - 400 to 449	Management Team	Directors reps, or
		organized with key	agency designees,
	US Drought Monitor –Severe and	positions assigned and	and district or unit
	moderate drought dominates	accepted for initial	FMOs
	much of the area. Crop and	management of escaped	
	rangeland losses likely water	fires	GPC Board of
	shortages common water		Directors reps, or
	restrictions imposed.	H. Implement Runcards	agency designees
		for automatic initial	
		attack dispatch	GPC Board of
		procedures to adjacent	Directors reps, or

units at ERC > 65 or >fire weather watch= or >red flag warning= in effect	agency designees. Incident Commander and cooperators
	GPC Board of Directors reps, or agency designees, and district or unit FMOs

IV e T ł	One or more district or units experiencing fire incidents requiring	Actions / Considerations A. ISO and/or	
IV e T ł			
IV e T ł		A. ISO and/or	
T F r	experiencing fire incidents requiring		Lead Interagency
r		Expanded Dispatch	Dispatcher and GPC
r	Type I or II teams or special event high	activated	Board of Directors
	human caused risk activities requiring		reps, or agency
N	management by the Interagency Initial	B. ALL PRESCRIBED	designees.
	Management Group or Type I or II	BURNING	
t	teams. Potential for numerous	OPERATIONS must	GPC Board of
i	incidents exist and/or numerous other	be actively moved to	Directors reps, or
	incidents being reported or are in	"OUT" status	agency designees,
	progress, depleting local resources.	declarations	and district or unit
	On-going mobilization of resources		FMOs
	through RMACC. Adjective rating class	C. Implement fire	
	is high to extreme on jurisdictional	restrictions or	
	lands. Most of the local reinforcement	closures if not done	Agency
	resources are committed to local,	previously	Administrators LE
	regional, and national responses. No		Officers, Special
	relief in fire severity or fire weather		Agents and Local
C	conditions predicted near term.	D. Activate local	County Sheriff(s)
		multi-agency	
	Other characteristics of this	conference calls	1
	preparedness level may include the		Lead Interagency
I	following:		Dispatcher and GPC Board of Director
	EPC/PL Defer to EPC and PL		
	ERC/BI - Refer to ERC and BI breakpoints listed by FDRA in the		reps
	following table		
	<b>1000 hr. fuels</b> - 8% to 12%		

<b>Resources committed</b> - greater than 75%	
<b>KBDI</b> - 450 to 499	
US Drought Monitor – Extreme drought exists across a large areas. Widespread crop and rangeland losses continue to occur. Widespread water shortages or restrictions are in place.	

Level	Description	Management Actions / Considerations	Responsibility
V	Interagency and cooperator resources are committed to multiple incidents and/or major incidents and initial attack on jurisdictional lands or committed to regional / national suppression efforts. Resource orders placed with RMACC are outstanding. Adjective rating class is very high to extreme. Other characteristics of this preparedness level may include the following: <b>ERC/BI</b> - Refer to ERC and BI breakpoints listed by FDRA in the following table <b>1000 hr. fuels</b> - less than 8%	<ul> <li>A. All available resources assigned to incidents or ready and in contact for immediate initial attack response</li> <li>B. Active enforcement of fire orders in effect</li> </ul>	GPC Board of Directors reps, or agency designees and district or unit FMOs Agency Administrators, district or unit managers, LE Officers, and Special Agents

Resources committed - most assigned to incidents, initial attack capability severely limited	
KBDI - greater than 500 US Drought Monitor – Extreme to Exceptional drought exists across large areas. Exceptional and Widespread crop and rangeland losses continue to occur. Shortages of water creating a water emergency.	

PL	FDRA 1	FDRA 2	FDRA 3	FDRA 4	FDRA 5	FDRA 6	FDRA 7
	(ERC)	(ERC)	(ERC)	(BI)	(BI)	(BI)	(BI)
1	0-14	0-19	0-20	0-16	0-10	0-9	0-8
2	15-23	21-27	21-29	17-22	11-17	10-15	9-15
3	24-31	28-35	30-39	23-28	18-25	16-21	16-20
4	32-40	63-43	40-49	29-34	26-34	22-26	21-25
5	40+	44+	50+	35+	35+	27+	25+

# APPENDIX B-STAFFING PLAN

# Purpose

This Staffing Plan is intended to provide day-to-day guidance for decisions regarding the "degree of readiness" of initial attack (IA) resources. The Preparedness Level (PL) is used as a basis to make daily internal fire operations decisions affecting our agency personnel. At each PL, this plan identifies:

- 1. Daily staffing
- 2. Draw-down levels
- 3. Step-up actions

This Plan will function most effectively when decisions are made in preparation for escalating fire danger and potential fire activity. Waiting until the day of a critical event during extreme fire danger will prove this plan ineffective.

To facilitate preparedness planning and orderly, effective, and efficient dispatching of initial attack forces, the BKF has established several aids to dispatching that are described below.

**Preparedness level (PL)** is a wide-scoping planning mechanism that is based not only on current and forecasted burning conditions, but more importantly, based on fire activity, both present and expected and on resource availability and commitment. Five preparedness levels are recognized and summarized as follows:

**PL-1** – No large fire activity on Forest or adjacent lands. Most Districts have low to moderate adjective class ratings. Little or no commitment of forest resources locally or nationally. Preseason preparedness duties being accomplished

**PL-2** – Class A and B fires occurring on Forest and/or adjacent lands and a potential for escapes to larger (project) fires. One or more Districts experiencing moderate to high adjective rating class. Resources within the Forest and local cooperators are handling the situation. A potential does exist for requesting additional resources from RMACC.

**PL-3** – Two or more incidents (Class B, C or larger) on Forest or adjacent lands requiring a major commitment of resources or major special event with significant increase in human caused risk with a resultant drain on resources. Likelihood of additional resources being requested and mobilized through RMACC. Adjective rating class is high to very high. One or more Districts or a majority of the local reinforcement resources are committed to regional and national responses.

**PL-4** – One or more Districts is experiencing fires requiring Type I or II teams or special events with high human caused risk activities, requiring management by the local Initial Attack organizations or a need to request additional Incident Management support. Potential for numerous additional incidents exist and/or numerous other incidents are being reported or are in progress depleting local resources. On-going mobilization of resources through RMACC. Adjective rating class is high too extreme on the Forest. Most of the local reinforcement resources are committed to local, regional, and national responses. No relief in fire severity or fire weather conditions predicted near term.

**PL-5** –Forest and cooperator resources are committed to local, regional and national incidents and initial attack is high causing a potential for additional major incidents on the Forest. Resource orders placed with RMACC are outstanding. Adjective rating class is very high to extreme.

Preparedness level will be used to determine staffing needs for the Black Hills National Forest and these levels may also be utilized to address needs within the greater Great Plains Interagency Dispatch Zone (GPC). A determination of the appropriate daily preparedness level will be determined by the GPC Board of Directors, either by a conference call or face-to-face meeting.

# Preplanned Single Incident Initial Attack Dispatching Guidelines

Initial attack dispatching for the Black Hills NF is centralized and managed by GPC. This Dispatch Center provides initial attack dispatching services to the forest and other federal and state agencies within the Black Hills Fire Protection District, parts of Nebraska and Wyoming. The Center also provides dispatch support to numerous organizations within South Dakota, Nebraska, Wyoming and part of North Dakota. The Center's goal is to provide a dispatch system that safely and promptly mobilize resources, such as qualified personnel, equipment and supplies needed to support wildland fires and All Risk incidents. It has developed and maintained a safe, cost effective organization that follows National and Regional procedures identified in mobilization guides (National, Regional and Local).

A pre-identified Dispatch Plan (Run Cards) has been developed for the Black Hills NF, and computer aided dispatch software called Wildcad is used to efficiently dispatch and track initial attack resources. This process provides for a thought out preplanned initial attack response by response area; resource staffing needs, at different planning levels; and consideration of additional responses as appropriate. Significant deviation from these preplanned responses may occur after consultation between the GPC Manager, the FFDO, and Zone FDO's as needed. Rationale for these deviations will be recorded on the incident report.

During the normal fire season, the need for extended staffing beyond 1800 will be determined through discussions by the FFDO, respective Zone FDO, and GPC Manager as needed. Needed extensions should be read by GPC over the radio to ensure all forest resources are informed. Reasons for extending staffing can include increased human risk, recent, forecasted or ongoing lightning, ongoing fire suppression activities, and support to adjoining units.

# Draw-Down

Draw-down is the predetermined number and type of suppression resources that are required to maintain viable initial attack (IA) capability at either the local or geographic area. The probability of initial attack success is contingent upon the availability of suppression resources during periods of high fire danger. Drawdown resources are considered unavailable outside the local or geographic area for which they have been identified. Drawdown is intended to:

- Ensure adequate fire suppression capability for local and/or geographic area managers; and
- Enable sound planning and preparedness at all management levels.

# Factors Affecting Draw-Down

Draw-down levels can change dramatically in a short period of time. A few factors which can affect staffing and resource commitment/availability include the following:

# 1. Response (or Dispatch) Level

Staffing Levels have a direct effect on the ability to send pre-determined suppression resources to wildland fires, depending upon the Response Level (and vice versa). Even under normal threat levels, a routine call for service can deplete the availability of a unit's resources and result in a degree of drawdown. If an incident becomes prolonged or requires the commitment of resources beyond the initial response, the agencies capabilities can be affected.

# 2. Unit Size

The size of an agency has a direct impact on its ability to manage its drawdown status. The deeper resource pool allows more flexibility for maintaining adequate coverage within the home jurisdiction. Agencies of medium to smaller size can be challenged to maintain geographical coverage at times of increased emergency activity. In the case of some smaller agencies, a single resource committed to an incident can result in extreme drawdown and challenge their ability to meet their basic jurisdictional coverage responsibilities.

# 3. 5-day Versus 7-day Resource Staffing

When considering the full capacity of a unit, we include all personnel and resources. For ground resources (engines, dozers, water tenders) and overhead (FOS, ICs, Dispatchers, FMOs, AFMOs, Duty Officers, Resources Advisors, etc.), the daily operating capacity is typically a fraction of the full capacity due to staffing limitations and scheduling days off. Therefore, the "daily" capacity is used as the benchmark for draw-down levels unless a unit has sufficient personnel to keep a resource operational 7 days per week. Aviation resources are typically under contract during the fire season to be available 7-days per week. Aviation resources are highly mobile and will respond to fire activity with the greatest need; often, outside the local jurisdiction.

# 4. Interagency Cooperation & Commitment

Most wildland fire emergency communication centers provide dispatch services to multiple agencies. When multiple agencies respond to incidents on each other's jurisdiction – usually based on the closest available resource(s) –coordination amongst the affected agencies is essential to maintain interagency relationships and provide effective and efficient response to incidents.

# 5. Multiple Fires

Maintaining capacity to respond to a reported incident is the intended outcome of a Staffing Plan. However, when more than one incident occurs concurrently within the respective unit's response area, a unit's capacity is certainly diminished or exhausted.

# Minimum BKF Drawdown Levels

"Draw-Down" is the degree of response capabilities of an agency due to the impact of emergency activity within their home jurisdiction and/or their commitment of resources to the mutual aid system for incident response outside of their jurisdiction. Minimum drawdown levels provide guidelines for determining the minimum number and type of resources that need to be available on-forest or ordered as the list is depleted, at a given staffing level. This list of resources is considered adequate to provide additional coverage should more than one fire occur simultaneously across the BKF (see charts and lists that follow). As with the dispatching guidelines, any deviations from these guidelines will involve consultation between GPC Manager, the FFDO, and Zone FDO's, and the rationale for any change will be documented in dispatch logs. Forest Duty Officer qualifications will be DIVS and ICT3 or RXB2.

# **Management Actions and Management Action Points**

Management Action Points for each staffing level have been established to determine management actions related to filling off-forest resource orders and responses to single and multiple incidents.

The following charts and lists clarify the information that will be used to assist Fire Managers during initial attack dispatching.

# **Black Hills National Forest Drawdown Levels**

# PREPAREDNESS LEVEL 1

Minimum BKF Drawdown Level	
1 FFDO (qualified at DIVS and ICT3 or RXB2)	
3 Zone FDOs (qualified at DIVS and ICT3 or RXB2)	
3 Wildland Engines (1/Zone)	

Management Action Point	Management Action
Single unplanned ignition:	Follow GPC Runcards
Anticipating or experiencing more than 1 ignition.	Maintain Minimum Drawdown Level (MDL) – shift BKF resources or order appropriate resources. Consider extended staffing into the evening.
Requests for resources outside Zone	Fill resource orders and go below MDL if needed to support other geographic areas.

# PREPAREDNESS LEVEL 2

Minimum BKF Drawdown Level	
1 FFDO (qualified at ICT3 and DIVS or RXB2)	
3 Zone FDOs (qualified at DIVS and ICT3 or RXB2)	
6 Wildland Engines (2/Zone) or	
1 IA Squad (5 People) and 1 Wildland Engine (per zone)	

Management Action Point	Management Action
Single unplanned ignition:	Follow GPC Runcards
Anticipating or experiencing more than 1 ignition.	Maintain Minimum Drawdown Level (MDL) – shift BKF resources or order appropriate resources. Consider extended staffing into the evening.
Requests for resources outside Zone	Fill resource orders and consider going below MDL to support other geographic areas when Preparedness level is expected to remain on average at PL 2.

# PREPAREDNESS LEVEL 3

Minimum BKF drawdown Level	
1 FFDO (Consider 2) (ICT3 and DIVS or RXB2)	
3 Zone FDOs (1/Zone) (DIVS and ICT3 or RXB2)	
9 Wildland Engines (3/Zone) (T3, T4 or T6)	
1 IA Module and/or T2 or T2IA Handcrew	
1 T3 Helicopter with Module	
ATB Staffed with ATBM and Loaders	
2 ICT3s	
1 Dozer with HEQB	

Management Action Point	Management Action
Single unplanned ignition:	Follow GPC Runcards
Anticipating or experiencing more than 1 ignition.	Maintain Minimum Drawdown Level (MDL) – shift BKF resources or order appropriate resources. Status and monitor BKF Dozers (2). Consider extended staffing into the evening. Consider need for severity funding and request as appropriate. Start weekly FMO conference calls.
Requests for resources outside Zone	Consider filling resource orders but maintain MDL while supporting other geographic areas.

# PREPAREDNESS LEVEL 4

Minimum BKF Drawdown Level	
2 FFDO (ICT3 and DIVS or RXB2)	
3 Zone FDO's (*1/Zone) (DIVS and ICT3 or RXB2)	
12 Wildland Engines	
1 Type 2 or T2 IA Handcrew	
1 T3 Helicopter w/Module	
2 Dozers with HEQB	
1 Fire Investigator	
ATB Fully Staffed with ATBM, Loaders, and support personnel	
3 ICT3s	

\* Consider ordering an additional Zone DO when activity warrants additional help on a zone/district.

Management Action Point	Management Action
Single unplanned ignition:	Follow GPC Runcards
Anticipating or experiencing more than 1 ignition.	Maintain Minimum Drawdown Level (MDL) – shift BKF resources or order appropriate resources. Consider staffing into the evening. Status and monitor BKF Dozers (2) with HEQB if possible. Consider ordering additional engines, Type 1 or II I.A. crews, additional T3 Helicopter, Heavy A/T, ATGS w/Platform, Prevention Patrols, Fire Information Officer, Prevention Team, Fire Behavior Analyst, and additional overhead including safety. Consider putting Type III Organization on alert. Districts consider filling support positions – planning, logistics and finance. FFDO, Zone FDOs and GPC will consult to set incident priorities and order additional resources listed above as needed, considering number of starts to date and resistance to control and other current conditions. Provide arriving off-Forest resources with thorough briefing on fuel conditions, observed and anticipated fire behavior. Continue requests for severity funding. Consider BKF restrictions/closures. Request GPC LMAC Group meeting or call as needed.
Requests for resources outside Zone	Consider filling resource orders but maintain MDL if supporting other geographic areas.

# PREPAREDNESS LEVEL 5

Minimum BKF Drawdown Level	
2 FFDO (ICT3 and DIVS or RXB2)	
3 Zone FDO's (*1/Zone) (DIVS and ICT3 or RXB2)	
14 Wildland Engines	
1 Type 2 or T2 IA Handcrew	
1 T3 Helicopter w/Module	
3 Dozers with HEQB	
ATB Fully Staffed with ATBM, Loaders, and support personnel	
3 ICT3s	

\* Consider ordering an additional Zone DO when activity warrants additional help on a district/zone.

Management Action Point	Management Action
Single unplanned ignition:	Follow GPC Runcards
Anticipating or experiencing more than 1 ignition.	Maintain Minimum Drawdown Level (MDL) – shift BKF resources or order appropriate resources. Consider ordering resources listed at PL 4 and in addition, consider type 1 helicopter, prevention team, 1 additional ATGS and other additional air support resources, additional Fire Information Officers, additional SEAT and strike team of engines (consider both heavy and light engine strike teams/task forces) additional crews, and additional overhead including Safety positions. Put Type III organization on alert. Districts consider filling support positions – planning, logistics, and finance. FFDO, Zone FDOs and GPC will consult to set incident priorities and order additional resources listed above as needed, considering number of starts to date and resistance to control and other current conditions. Provide arriving off-Forest resources with thorough briefing on fuel conditions, observed and anticipated fire behavior. Implement BKF restrictions/closures. Request GPC MAC Group meet daily.
Requests for resources outside Zone	Maintain MDL and any requests for resources that would cause the Forest to drop below this level must be approved by the Fire Staff Officer or Deputy Fire Staff Officer.

# SDWF Staffing Levels

GPC Preparedness Level 1	<ul> <li>1 Duty Officer</li> <li>1 ICT4</li> <li>2 Type 6 or larger Engine (1 North, 1 South)</li> </ul>
GPC Preparedness Level 2	<ul> <li>1 Duty Officer</li> <li>1 ICT4</li> <li>2 Type 6 or larger Engines (1 North, 1 South)</li> <li>1 Ten-person module</li> <li>Dozer availability ensured</li> <li>Ops call as needed</li> <li>Consider opening SEAT base in Black Hills area</li> </ul>

GPC Preparedness Level 3	1 Duty Officer
	<ul> <li>2 ICT4</li> </ul>
	<ul> <li>4 Type 6 or larger Engines</li> </ul>
	<ul> <li>1 Type 2 IA Crew</li> </ul>
	<ul> <li>Dozer loaded on transport with operator</li> </ul>
	identified
	• 1 HEQB
	• 1 INVF (Order)
	• 2 SEAT
	• 1 SDNG Helicopter
	• State Type 3 Team notified (Type 3 IC and IC
	trainee position verified)
	• 1 PIO identified and required attendance on
	weekly ops call
	Weekly Ops call
	Consider public information campaigns
	regarding fire danger and human caused fire
	ignitions
	Maintain Black Hills Fire Restriction website
GPC Preparedness Level 4	2 Duty Officers
	• 3 ICT4
	6 Type 6 or larger Engines
	• 2 Type 2 IA Crews
	Dozer loaded on transport and dozer staffed
	with two operators (Double shift)
	• 2 HEQB (Double shift)
	• 1 INVF (Order)
	• 2 SEATs
	1 SDNG Helicopter
	1 Air Attack platform with ATGS
	• State Type 3 Team on alert (Command and
	General staff identified on roster and
	available to respond in 2 hours.)
	<ul> <li>SDWF – 2 Plans Trailer</li> </ul>
	CDM/E 2 Einanco Trailor
	<ul> <li>SDWF – 3 Finance Trailer</li> <li>1 PIO consider ordering an additional PIO</li> </ul>
	• 1 PIO, consider ordering an additional PIO
	<ul> <li>1 PIO, consider ordering an additional PIO based on workload, PIO required</li> </ul>
	• 1 PIO, consider ordering an additional PIO

	<ul> <li>1 SDWF Administrative staff with purchasing authority</li> <li>1 Logistics Manager with a minimum of 2 drivers</li> <li>Daily Ops call</li> <li>Consider public information campaigns regarding fire danger and human caused fire ignitions</li> <li>Consider implementing fire restrictions in coordination with interagency partners</li> </ul>
GPC Preparedness Level 5	<ul> <li>2 Duty Officers</li> <li>4 ICT4, 2 ICT3</li> <li>8 Type 6 or larger Engines</li> <li>2 Type 2 IA Crews</li> <li>2 Dozers loaded on transport staffed with 4 operators (Double shift)</li> <li>4 HEQB (Double shift)</li> <li>1 INVF (Order)</li> <li>2 SEAT</li> <li>2 SDNG Helicopters</li> <li>1 Air Attack platform with ATGS</li> <li>State Type 3 Team on alert (Command and General staff identified on a roster and available to respond in 1 hour)</li> <li>SDWF – 2 Plans Trailer</li> <li>SDWF – 3 Finance Trailer</li> <li>1 PIO, consider ordering an additional PIO based on workload, PIO required attendance on daily ops call, consider locating PIO at GPC</li> <li>2 SDWF Administrative staff with purchasing authority</li> <li>1 Logistics manager with a minimum of 2 drivers</li> <li>Daily Ops calls</li> <li>Agency Administrator identified</li> <li>Vehicles and drives identified for team trailers</li> </ul>

	<ul> <li>Implement public information campaigns regarding fire danger and human caused fire ignitions</li> <li>Implement fire restrictions in coordination with interagency partners</li> </ul>
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# BLM WY HPD Step-up and Draw-down plan based on GPC preparedness levels:

Note: all actions described below in the following table are managed exclusively by the HPD duty officer.

	Preparedness LEVEL 1
Initial Attack Operations	Duty Officer available 24-7         Minimum Drawdown:         ☑       Duty Officer         ☑       1 engine in either Buffalo or Casper (excess of 2 hour response time)         Normal Staffing Hours
	Preparedness LEVEL 2
Initial Attack Operations	Duty Officer available 24-7 Minimum Drawdown: ☑ Duty Officer ☑ 1 engine in either Buffalo or Casper (excess of 2 hour response time) Normal Staffing Hours
	Preparedness LEVEL 3
Initial Attack Operations	Duty Officer available 24-7         Minimum Drawdown:         ☑       Duty Officer         ☑       2 engines in either Buffalo or Casper (excess of 2 hour response time)         ☑       Ensure readiness of engines for local dispatch         Normal Staffing Hours unless extended by HDD ODO
	Preparedness LEVEL 4
Initial Attack Operations	Duty Officer available 24-7         Minimum Drawdown:         ☑       Duty Officer         ☑       1 ICT3 (Can be coordinated with Inter-agency partners.)         ☑       3 HPD engines in either Buffalo or Casper (excess of 2 hour response time)         Step/up considerations       ☑         ☑       HPD duty officer will consider prepositioning 1 engine at Newcastle (on Severity)         ☑       HPD duty officer will consider supporting Great Plains Dispatch with extended staffing needs.         Normal staffing hours unless need to extend as determined by HPD ODO or FMO/AFMO

	Preparedness LEVEL 5
Initial Attack Operations	Duty Officer available 24-7         Minimum Drawdown:         ☑       Duty Officer         ☑       1 ICT4 (Can be coordinated with Inter-agency partners.)         ☑       1 ICT3 (Can be coordinated with Inter-agency partners.)         ☑       1 ICT3 (Can be coordinated with Inter-agency partners.)         ☑       3 HPD engines in either Buffalo or Casper (excess of 2 hour response time)         Step/up considerations:       ☑         ☑       HPD duty officer will consider prepositioning 1 engine at Newcastle (on severity)         ☑       HPD duty officer will consider supporting Great Plains Dispatch with extended staffing or additional staffing needs. (on Severity)         기       day coverage         On Duty during Holidays       Normal staffing hours unless need to extend as determined by HPD ODO or FMO/AFMO

# **US FWS Great Plains Fire Zone: Nebraska**

### Step-Up Plan

The Step-up plan is designed to direct incremental preparedness actions in response to increasing or decreasing fire danger. The Fire Management Officer will use a combination of the factors below in determining the appropriate staffing level. The FWS Fire Management Handbook requires that the 90<sup>th</sup> and 97<sup>th</sup> percentiles of the BI are used in determining staffing levels 4 and 5.

The step-up plan outlines the responses to five classes of fire danger which relate with adjective class ratings. Staffing levels 1-5 correspond with Low, Moderate, High, Very High, and Extreme adjective ratings.

The Burning Index and 1,000 hour fuels were calculated from the RAWS located at Valentine NWR for the years of 2003-2009 with Fuel Model G being used. The Valentine and Crescent Lake station represents the area but limited amount of data is available as the stations started operating in December of 2003. Once an adequate history is developed from those stations, they will be used to calculate burning indices and track 1,000 fuel levels.

S/L	BI	Drought Monitor	1,000 Fuels	KDBI
5	97 <sup>th</sup> > 50	D4-D3	<u>&lt;</u> 12	>501
4	90 <sup>th</sup> 40-50	D3-D2	13-14	451-500
3	30-39	D2-D1	14-15	450-400
2	10-29	D1-D0	>15	399-300
1	0-9	D0	>15	299-0

In addition to the considerations listed in the table, the Fire Management Officer may also consider the predicted Lighting Activity Level, Mechanical ranching activities along or near refuge boundaries, resources committed, high visitor occurrence days, and preparedness levels, in determine the appropriate staffing level.

Preparedness	Actions To Be Taken
Level/ Staffing	
Class,	
Adjective Rating	
Level 1	Limited number of engines fully operational in heated engine
Low Fire Danger	bays.
Level 2	Equipment will be checked weekly, ICT5 may respond to
Moderate Fire	reported fires, Collateral duty fire staff have PPE at office,
Danger	Weekly sit report send to GPC and regional fire staff
Level 3	Open PEO6 accounts, Collateral duty fire staff carry PPE in field
High Fire Danger	
Level 4	Consider ordering ICT3, prepare interagency severity request,
Very High Fire	Respond to reported fires with minimum of three T6 engines
Danger	and ICT 4, Adjust personnel schedules to burn period, Insure
	personnel are in place to perform dispatch duties, Sit report
	send daily to GPC and regional fire staff
Level 5	Place resource order for ICT3 if there is not one in FMU,
Extreme Fire	Respond to all reported fires with a minimum of five T6
Danger	engines and ICT4, consider limiting public access, broadcast
	fire danger through local radio stations, 7 day staffing
	coverage, Consider canceling training and annual leave.

Each higher level requires previous levels actions will continue implementation.

# APPENDIX C-PREVENTION PLAN (FIRE DANGER COMPONENTS)

# Fire Danger Determination

Fire danger adjective ratings are determined separately and differently for the area within the Black Hills Forest Fire Protection District (Black Hills Area) and the grassland areas. The Black Hills area index is an observation based system whereas the grassland index is a forecast based system.

Black Hills Area fire danger is calculated by Great Plains Dispatch and issued daily as required. Calculations are determined through the use of WIMS and RAWS data. Fire danger for the Black Hills Area utilizes the RAWS listed below and is separated into the following geographical areas; Northern Hills (Lawrence County), Central Hills (Pennington and Meade counties), and Southern Hills (Custer and Fall River counties) and is posted on the GPC Website. The highest fire danger adjective rating from the RAWS within the Black Hills Area is used. Response levels are calculated based upon energy release component or burning index, dependent on the representative fuel model, as forecast day.

- Nemo 392506
- Baker Park 393606
- White Tail 392607
- Custer 393506
- CSP 393507
- Red Canyon 395105
- Bearlodge 480605
- Rapid City West 392608
- Spearfish 392507

# Note: Smokey Bear signs should reflect the closet RAWS adjective rating or local conditions.

Grassland area fire danger is a forecast index calculated by the National Weather Service and is issued daily as required (typically April through November). Calculations account for vegetative greenness - derived through satellite interpretation and fire manager condition reports - and weather conditions. The weather condition component accounts for forecast wind, temperature, and relative humidity.

# APPENDIX D- PUBLIC FIRE RESTRICTION PLAN

Current fire restrictions for the Black Hills area are posted at

<u>http://blackhillsfirerestrictions.com/</u>. Each agency updates their information as conditions dictate. Fire restrictions coordination calls occur between all agencies when the fire danger reaches high to very high or counties begin to enact restrictions.

# APPENDIX E-RESPONSE PLAN

# A. Purpose

Local-level Initial Pre-planned Response Plans, also referred to as "Run Cards", specify the fire management response (e.g., number and type of suppression assets to dispatch) within a defined geographic area to an unplanned ignition, based on fire weather, fuel conditions, fire management objectives, and resource availability.

### B. Terminology

### 1. Response Level

Response levels (e.g. "Low", "Moderate", "High") are established to assist fire managers with decisions regarding the most appropriate response to an initial fire report until a qualified Incident Commander arrives at the incident. Fire Family Plus software is used to establish the Response Level thresholds. A statistical analysis of fire occurrence and historical weather has been completed for each FDRA. The correlation of various combinations of NFDRS outputs with weather records is listed in Appendix A.

### 2. Response Zone

Response Zones are identified for the Great Plains Zone. Response zones may be based on various criteria such as: common management objectives, land use, fire load, dispatch locations, estimated response times, WUI locations, topographical features, vegetation communities, etc.

# 3. Dispatch Center

Each geographic area has established dispatch centers that mobilize and demobilize resources directly with the geographic area coordination center. The dispatch center is the focal point for mobilizing firefighting resources between units within the dispatch area responsibility, coordinating incoming resources into the dispatch area, dispatching resources mobilized out of the dispatch area, and collecting and disseminating fire intelligence information within dispatch area and with the geographic area coordination center.

# 4. Pre-Planned Response Plan

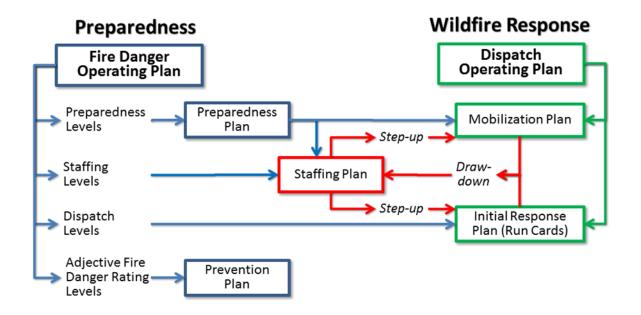
Each dispatch center with the responsibility for initial response to wildland fires shall have a pre-planned response plan that allocates resources to new wildland fires in accordance with fire management direction, initial attack agreements, and established ordering procedures. The pre-planned response plan will be reviewed and updated annually prior to fire season.

### C. Policy and Guidance

Policy and guidance regarding the development of Pre-Planned Response Plans can be

found in chapter 19 of the Interagency Standards for Fire & Aviation Operations (Red Book).

Fire Management Officers will ensure that Pre-planned Response Plans are in place, utilized, and provide for initial response commensurate with guidance provided in the FMP and/or LRMP. Initial Pre-planned Response Plans will reflect agreements and annual operating plans and will be reviewed annually prior to fire season. These plans may be modified as needed during fire season to reflect the availability of national, prepositioned, and/or severity resources. Specific agency directives and interagency guidance requires numerous unit plans and guides to meet fire preparedness and wildfire response objectives. Some of these plans and guides are inter-related; one or more plans/guides provide the basis for other plans/guides. The Response Plan is an operational plan tiered from the Fire Danger Operating Plan as shown below:



# D. Run Card Overview

The Interagency Run Cards are developed by a group of interagency representatives to provide guidance to Great Plains Dispatch for initial attack dispatching of wildland fire suppression resources within pre-identified geographic areas (response zones). The run cards will be used when a wildfire is reported and doesn't meet the discretionary smoke report criteria listed below. When an NWCG qualified Incident Commander is on scene of the fire, they may adjust the pre-established initial attack response as identified on the run card by cancelling resources currently enroute (or about to be dispatched) or by ordering additional resources as needed. Until such time as an IC is on scene, the Duty Officer is responsible for the fire response and can modify the run card as necessary.

During periods of large/multiple fire activity, when there are not enough resources to fill the run cards, the Duty Officers will be available to Great Plains Dispatch to determine incident prioritization and response.

# E. Run Card Procedures

- During working hours, Great Plains Dispatch will dispatch the closest available resource according to the appropriate Fire Danger Rating Area (FDRA) Dispatch Level.
- After resource duty hours, dispatchers will contact the jurisdictional Duty Officer, who will determine the level of response.
- Volunteer fire departments (or any other resource not dispatched by Great Plains Dispatch) will not be considered as meeting the run card requirements for numbers of resources during the initial attack dispatch unless it is it is specifically stated under Special Instructions For Dispatchers."

### 1) Discretionary Smoke Reports:

When any of the following smoke reports are received, the run card will not be sent, and the jurisdictional Duty Officer will be contacted to determine the response.

- o Federal Aviation Administration (FAA) Report
- o Abandoned Campfires, when clearly stated that it is still within the ring
- Incidents that local volunteer fire departments have responded to, or are on scene and are requesting no additional resources

### 2) Limited Response Plan:

Periodically Great Plains Dispatch dispatch zone gets widespread lightning activity resulting in numerous starts, many of these single tree lightning strikes. It is not possible to dispatch the number and type of resources called for in the run card plan to each of these fires. This plan is designed to provide guidance to Great Plains Dispatch staff in order to coordinate an initial response under these multiple start conditions (generally considered 3 or more starts).

Under circumstances where multiple starts are likely to occur (i.e. forecasted LAL 6) or are occurring and each FDRA is at a Dispatch Level of Moderate or higher the Great Plains Dispatch Center run card plan may be suspended and guidance provided by area Duty Officers for initial response to new starts. It is desired that the Duty Officer's meet at Great Plains Dispatch to provide coordinated guidance to the floor supervisor whenever possible. A MAC call may be initiated if meeting in person is not possible.

Duty Officers should consider using the following priorities for dispatching resources\*:

- 1. When there is a direct threat to human life
- 2. When there is a direct threat to homes or communities
- 3. When there is a direct threat to other high value infrastructure or

improvements

- 4. When the fire is in an identified sage grouse protection area
- 5. All others

Until such time as the Duty Officers are able to provide coordinated direction to Great Plains Dispatch, the floor supervisor is authorized to determine the fire priorities based on given direction and make modifications to the established run card response during multiple start events.

During circumstances where there are no longer resources available to be dispatched to a new smoke report, Great Plains Dispatch staff will notify the Duty Officers of each new report and they will, considering the priorities mentioned above, make a determination of needed staffing adjustments and provide guidance to Great Plains staff as to what resources to dispatch to each new smoke report.

\*Additionally, if on any given day when all FDRAs are at a Dispatch Level of Moderate or higher and Great Plains Dispatch recognizes the inability of daily staffed resources to fulfill a dispatch of any run card then the Great Plains Dispatch Response Plan/run cards may be suspended, and any start would use the prioritization process as identified above.

# APPENDIX F-RUN CARDS

#### Great Plains Interagency Dispatch Center

PREPLANNED DISPATCH CARD

I.A. Response Zone: BADLANDS N.P.

Representative RAWS: Pinnacles 392602 (Y Model)

DUTY OFFICER CONTACT Primary: <u>NGP Duty Officer</u> Secondary: <u>Wall District Duty Officer</u>

			DISPATC	H ACTIO	N BASED ON RESP	ONSE LEVEL
Resource	S		DNSE LEVEL 1 BI = 0-20	RES	SPONSE LEVEL 2 BI = 21-29	RESPONSE LEVEL 3 BI = 30+
Engine(s) – Type 3, 4 or 6		1	Respond		Respond 2	Respond 3
Squad / Module						Respond 1
ICT4		R	espond 1		Respond 1	
ICT3		IN	espone i		respond 1	Respond 1
Water Tender		N	lotify		Notify	Respond
Respond Resources will	proceed directly	to the incid	lent at the directi	on of the d	lispatchers.	
Notify Notification w	ill be the response	sibility of the	e Duty Officer.			
NPS ownership – Practice 1 Dozer and retardant use mu Tender available from Bad Special Area – Badlands W D= DIGITAL, N=NARRC	Mist tactics on N ist be authorized ands NP ilderness, Natura	PS Land by Park Sup	erintendent.		Special Concern	
		Initial A	Attack Commur	nications F	Plan	
CHANNEL	RECEIVE	CG/NAC	TRANSMIT	CG/NAC	D	ESCRIPTION
NBF Wall Repeater						with GPC from East end
NBF East Willow Repeater						with GPC from West end
CZ Rushmore Repeater VFIRE 22	4				*Command: Alterr Tactical	nate Como with GPC
VFIRE 22 VFIRE 23	4				Tactical	
VFIRE 21	4			•	Tactical - Structure	e Protection
Badlands Direct	4				Tactical – Digital t	
Badlands Repeater	1			•	Tactical – Digital t	
A/G 25	Ī			•	Air to Ground - Pri	imary
A/G 31	I				Air to Ground - Se	condary
VMED 28				-	A/G AIR AMBUL	ANCE W/I GPC ZONE
Ma ana 1	1		D (11 D		1 771 : :111 1	
*IC or GPC may designate	alternate repeate	r or request	a Portable Repea	ater for con	nmand. This will be b	based on location of fire.

PREPLANNED DISPATCH CARD

I.A. Response Zone: Bearlodge

Representative RAWS: 480605 Bearlodge (Y Model)

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 NZ FS D.O.

 Secondary Duty Officer:
 Crook County WY

		DISPATCH ACTION	BASED ON ENERGY REL	EASE COMPONENT			
Resources		<b>RESPONSE LEVEL 1</b> ERC = 0 - 13	RESPONSE LEVEL 2 ERC = 14 - 33	RESPONSE LEVEL 3 ERC = 34 +			
Engine(s) – Type 3, 4 or 6		**Respond 1	Respond 1/** Respond 1	Respond1/**Respond 1			
IA Module		**Respond 1	**Respond 1	**Respond 1			
IA Helicopter			Respond	Respond			
SEAT(s)				Respond			
Air Tanker(s)				Respond			
Air Attack				Respond			
		** Send only one unit Whichever is closest	** Send only one unit Whichever is closest	** Send only one unit Whichever is closest			
Respond Resources will proce	ed directly to t	he incident at the direction of	the dispatchers.				
Notify Notification will be t	ne responsibili	ty of the Duty Officer.					
		Areas of Special Con	cern				
Name of Concern Area	Descriptio	n of Concern Area					
Sundance (WUI Issues)	Any start w	/in a 5-mile radius of Sundar	nce, WY.				
Hulett (WUI Issues)		/in a 5-mile radius of Hulett,					
Hay Creek RNA		n in this area (T54N, R62W,		ed on AMR and current			
(Resource Issues)		if conditions warrant, consid					
Farral (WUI Issues)	Farral, WY	to Cook Lake – Any start ale	o Cook Lake – Any start along FDR 843; w/in one mile on either side of road				
Alva (WUI Issues) Devil's Tower Nat'l Monument	Alva, WY	to Aladdin, $WY - Any$ start a	addin, WY – Any start along Highway 24; w/in a one mile on either side of Rd. , R65W, Sec 7). Practice MIST tactics on NPS land. Dozer use, off-road				
(Resource, and WUI Issues)		33N, R65W, Sec 7). Practice I retardant use must be autho					
Sundance US-AFS (Health and Safety)		nrren Peak L.O. – Restricted Area/No admittance w/in fenced area 3W, Sec 20)					
Gantz Pond (Do Not Use)	Gantz Pone helicopter o	l (44° 46' 01" x 104° 25' 05" / T55N, R63W, Sec 09) is NOT to be used as a lip site.					
	Spe	ecial Instructions for D	ispatchers				
Have <u>all</u> responding	units take radi	o traffic to North Zone.					
	Init	ial Attack Communica	tions Plan				
CHANNEL (GRP 1)				ESCRIPTION			
*2-NZ WARREN			*Command – Co	omo with GPC			
7-VFIRE 21		Tac 1					
10-CROOK TALK AROUND			Tac 2				
12-R2 FIRE TAC			Tactical				
13-BKF FIRE TAC			Tactical	1 D'			
14-A/G 35			SD-Air to Groun Air to Ground –	na –Primary			
14-A/G 25(Group 3) 15-VMED28				Alternate JLANCE W/I GPC ZONE			
15-VMED28 16-AIR GUARD			Emergency Air				
*IC or GPC may designate alterna	te repeater or	aquest a Portable Repeater f					
Revised: February 02, 2021	I	Ţ					

**Great Plains Zone** Interagency Fire Danger Operating Plan

PREPLANNED DISPATCH CARD

I.A. Response Zone: BEAVER

Representative Raws: 395105 Red Canyon (Y Model)

DUTY OFFICER CONTACT Primary: <u>SZ FS D.O</u> Secondary: <u>Weston County Wy</u>

			DISPATCH	ACTIC	ON BASED ON RESPO	ONSE LEVEL
Resources		E	NSE LEVEL 1 RC = 0 - 24	RF	SPONSE LEVEL 2 ERC = 25 - 44RESPONSE LEVI ERC = 45 +	
Engine(s) – Type 3. 4. Or 6			Respond 1		Respond 1	Respond 2
ICT4					Respond 1	Respond 1
ICT3					Notify	Notify
IA Helicopter		I	Respond		Respond	Respond
Air Attack						Respond 1
n						6
N						
<b>Respond</b> Resources will pro	and directly to	the ineid	ant at the direction	of the d	lispatchers. * Confirm	with IC
Notify Notification will b				or the c	uspateners. • Comm	wiuriC
Notifie Notification will t	e me responsion	iny of the	Duly Officer.			
Limited access.	Special filst	ructions	for Dispatchers/	creas of	f Special Concern	
Retardant and heavy equipment	nt use restricted i	n Whoor	up Canvon and on	portion	s of BLM land.	
BLM Land Notify HPD DO o						
,	,					
		Initial	Attack Communi	ations	Plan	
CHANNEL (GRP 13)	RECEIVE	CG	TRANSMIT	CG	DE	SCRIPTION
1-FOREST NET					*Alternate Command	d-Como with GPC
3-SZ ELK	1				*Command-Como w	
**4-SZ PORTABLE	1				*Command-Como w	
5-(GRP 5) SZ BALL	T				*Command-Como w	
5-WESTON EAST	T					County Repeater-Como to
COUNTY REPEATE	1				Weston County Sher	
7-WESTAC	4				Tactical – Weston C	
8-VFIRE 21	4				Tactical - Structure I	
9-VFIRE 22	4				Tactical-Meade and	
10-VFIRE 23	4				Tactical - Custer and	
11-A/G 15	4				Air to Ground -Alter	
12-A/G 24	1				Air to Ground – Prin	
13-A/G 35	1				Air to Ground - Alte	
14-WESTON PAGE	1				New Castle/Weston	
15-VMED28	1					NCE W/I GPC ZONE
16-AIR GUARD					Emergency Air Trafi	
*IC or GPC may designate alt	ernate repeater of	r request	a Portable Repeate	r for co	mmand. This will be ba	ased on location of fire
**stored at Hell Canyon fire c	1					

PREPLANNED DISPATCH CARD

I.A. Response Zone: Bessey

Representative RAWS: 252402 Bessey (Y Model)

DUTY OFFICER CONTACT Primary: <u>Bessey District Duty Officer</u> Secondary: <u>Nebraska National Forest Duty Officer</u>

BI = 0-19     BI = 20-27     BI = 28+       Engine(s) - Type 3, 4 or 6     Respond 1     Respond 1     Respond 1       Ingine(s) - Type 7     Image: Comparison of the temporal image: Comparison of temporal image: Comparison of temporal image: Comparison of tempora				DISPATCI	I ACTI	ON BASED ON RESPO	DNSE LEVEL
Engine(s) – Type 7       Respond 1       Respond 1       Respond 1         ICT4       Respond 1       Respond 1       Respond 1         ICT3       Notify       Notify         SEAT(s)       Respond 1       Respond 2         Respond       Respond 1       Respond 2         Respond       Resources will proceed directly to the incident at the direction of the dispatchers.       Notify         Notify       Notification will be the responsibility of the Duty Officer.       Image: Constructions for Dispatchers/Areas of Special Concern         Remote location and limited access-personnel equipped to dig handline required.       Image: Constructions for Dispatchers/Areas of Special Concern         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.       Image: Construction of the response if local county dispatch center confirms they are responding.         I-EAST DIRECT       Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       I-ANTER       *PRIMARY Command-Commo with GPC       *ALTERNATE Command-Commo with GPC         16-NENZEL       REPEATER       Image: Construction of Constr	Resourc	es	RES		R		RESPONSE LEVEL 3 BI = 28+
ICT4       Respond 1       Respond 1       Respond 1         ICT3       Respond 1       Respond 1       Respond 1         SEAT(s)       Respond 1       Respond 2         Respond       Respond 1       Respond 2         Respond       Resources will proceed directly to the incident at the direction of the dispatchers.       Image: Construction of the dispatchers.         Notify       Notification will be the responsibility of the Duty Officer.       Image: Construction of the response of the response of the response of the responder.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.       Image: Construction of the response of the response of the response of the responder.         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Image: Construct of the response of the responder.       Image: Construct of the response of the response of the responder.         VFD units may be considered as part of the response of the response of the responder.       Image: Construct of the response of the responder.       Image: Construct of the responder.         I-EAST DIRECT       Image: Construct of the responder.       Image: Construct of the responder.       Image: Construct of the responder.				Respond 1			
ICT3       ICT Provided and Provided as part of the response if local county dispatch center confirms they are responding.       ICT Provided as part of the response if local county dispatch center confirms they are responding.         Remote location and limited access-personnel equipped to dig handline required.       Initial Attack Communications Plan         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.       INITIAL Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Initial Attack Communications Plan       *PRIMARY Command-Commo with GPC       *ALTERNATE Command-Commo with GPC         4-R2 TACTICAL       Air to Ground Primary       Air to Ground Primary			8				
SEAT(s)       Respond 1       Respond 2         Respond       Respond 1       Respond 2         Respond       Resources will proceed directly to the incident at the direction of the dispatchers.       Image: Construction of the dispatchers.         Notify       Notification will be the responsibility of the Duty Officer.       Image: Construction of the dispatchers.         Remote location and limited access-personnel equipped to dig handline required.       Image: Construction of the response if local county dispatch center confirms they are responding.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.       Image: Channel (GRP 11)         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Initial Attack Communications Plan       *PRIMARY Command-Commo with GPC       *ALTERNATE Command-Commo with GPC         16-NENZEL REPEATER       Image: Construct of the response of the construction of the dispatch center confirms they are responding.       Tactical         5-A/G 25       Image: Construct of the construction of the construct of the construction of the dispatchers.       Respond 2         Image: CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Image: Construct of the construct of				Respond 1		Respond 1	Respond 1
Respond       Resources will proceed directly to the incident at the direction of the dispatchers.         Notify       Notification will be the responsibility of the Duty Officer.         Special Instructions for Dispatchers/Areas of Special Concern         Remote location and limited access-personnel equipped to dig handline required.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       IAR2 TACTICAL       FRIMARY Command-Commo with GPC         4-R2 TACTICAL       Tactical       Air to Ground Primary							
Notify         Notification will be the responsibility of the Duty Officer.           Special Instructions for Dispatchers/Areas of Special Concern           Remote location and limited access-personnel equipped to dig handline required.           VFD units may be considered as part of the response if local county dispatch center confirms they are responding.           Initial Attack Communications Plan           CHANNEL (GRP 11)         RECEIVE         CG         TRANSMIT         CG         DESCRIPTION           1-EAST DIRECT         I-EAST DIRECT         *PRIMARY Command-Commo with GPC           16-NENZEL         REPEATER         Initial Attack         Tactical           4-R2 TACTICAL         Air to Ground Primary	SEAT(s)					Respond 1	Respond 2
Notify         Notification will be the responsibility of the Duty Officer.           Special Instructions for Dispatchers/Areas of Special Concern           Remote location and limited access-personnel equipped to dig handline required.           VFD units may be considered as part of the response if local county dispatch center confirms they are responding.           Initial Attack Communications Plan           CHANNEL (GRP 11)         RECEIVE         CG         TRANSMIT         CG         DESCRIPTION           1-EAST DIRECT         I-EAST DIRECT         *PRIMARY Command-Commo with GPC           16-NENZEL         REPEATER         Initial Attack         Tactical           4-R2 TACTICAL         Air to Ground Primary							
Notify       Notification will be the responsibility of the Duty Officer.         Special Instructions for Dispatchers/Areas of Special Concern         Remote location and limited access-personnel equipped to dig handline required.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Initial Attack Communications Plan       *PRIMARY Command-Commo with GPC         16-NENZEL,       REPEATER							
Notify       Notification will be the responsibility of the Duty Officer.         Special Instructions for Dispatchers/Areas of Special Concern         Remote location and limited access-personnel equipped to dig handline required.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Initial Attack Communications Plan       *PRIMARY Command-Commo with GPC         16-NENZEL       REPEATER							
Notify       Notification will be the responsibility of the Duty Officer.         Special Instructions for Dispatchers/Areas of Special Concern         Remote location and limited access-personnel equipped to dig handline required.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       Initial Attack Communications Plan       *PRIMARY Command-Commo with GPC         16-NENZEL       REPEATER       *ALTERNATE Command-Commo with GPC         4-R2 TACTICAL       Air to Ground Primary					_		
Special Instructions for Dispatchers/Areas of Special Concern         Remote location and limited access-personnel equipped to dig handline required.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION					on of the	e dispatchers.	
Remote location and limited access-personnel equipped to dig handline required.         VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       I-EAST DIRECT       *PRIMARY Command-Commo with GPC         16-NENZEL       REPEATER       Tactical         4-R2 TACTICAL       Air to Ground Primary	Notification v	vill be the response	sibility of	the Duty Officer.			
VFD units may be considered as part of the response if local county dispatch center confirms they are responding.         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT		Special I	nstructio	ns for Dispatchers/	Areas	of Special Concern	
Initial Attack Communications Plan         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       *PRIMARY Command-Commo with GPC       *AL TERNATE Command-Commo with GPC         16-NENZEL REPEATER       *AL TERNATE Command-Commo with GPC         4-R2 TACTICAL       Tactical         5-A/G 25       Air to Ground Primary	Remote location and limit	ed access-personn	el equipp	ed to dig handline re	equired.		
Initial Attack Communications Plan         Initial Attack Communications Plan         CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       *PRIMARY Command-Commo with GPC       *AL TERNATE Command-Commo with GPC         16-NENZEL REPEATER       *AL TERNATE Command-Commo with GPC         4-R2 TACTICAL       Tactical         5-A/G 25       Air to Ground Primary		4 10 10 10					•
CHANNEL (GRP 11)       RECEIVE       CG       TRANSMIT       CG       DESCRIPTION         1-EAST DIRECT       *PRIMARY Command-Commo with GPC       *ALTERNATE Command-Commo with GPC         16-NENZEL REPEATER       *ALTERNATE Command-Commo with GPC         4-R2 TACTICAL       Tactical         5-A/G 25       Air to Ground Primary	/FD units may be conside	ered as part of the	response	if local county dispa	itch cen	ter confirms they are res	ponding.
1-EAST DIRECT       *PRIMARY Command-Commo with GPC         16-NENZEL       *ALTERNATE Command-Commo with GPC         REPEATER       *         4-R2 TACTICAL       Tactical         5-A/G 25       Air to Ground Primary			Initia	al Attack Commun	ication	s Plan	
16-NENZEL       *ALTERNATE Command-Commo with GPC         REPEATER       *         4-R2 TACTICAL       Tactical         5-A/G 25       Air to Ground Primary		RECEIVE	CG	TRANSMIT	CG		
REPEATER     Tactical       4-R2 TACTICAL     Tactical       5-A/G 25     Air to Ground Primary	-EAST DIRECT						
4-R2 TACTICAL     Tactical       5-A/G 25     Air to Ground Primary						*ALTERNATE Comn	and-Commo with GPC
		1				Tactical	
10.37774 (0.11	5-A/G 25	1				Air to Ground Primary	
12-VIAC11 lactical	2-VTAC 11	1				Tactical	
13-VTAC 12 Tactical		]				02303530967302385	
3-A/G 5 Air to Ground Secondary	J-A/G 5					Air to Ground Second	ary
*IC or GPC may designate Command Channel or request a Portable Repeater for command. This will be based on location of fir							

PREPLANNED DISPATCH CARD

I.A. Response Zone: Cement

Representative RAWS: 480605 BEARLODGE (Y Model)

DUTY OFFICER CONTACT: Primary Duty Officer: <u>NZ FS D.O</u> Secondary Duty Officer: <u>South Dakota State Duty Officer or Crook County WY</u>

		DISPA	TCH ACTION	BASED ON I	ENERGY RELEA	ASE COMPONENT			
Resources	5		nse Level I $C = 0 - 13$		onse Level II C=14-33	Response Level III ERC = 34 +			
Engine(s) – Type 3, 4 or 6			spond 1		/ **Respond 1	Respond 2/ **Respond 1			
IA Module		**Re:	spond 1	**Re	espond 1	**Respond 1			
TA TT-1:				D	and the second	D			
IA Helicopter					spond	Respond			
SEAT(s) Air Tanker(s)				Res	pond 1	Respond 1 Respond			
Air Attack				Respond					
All Attack		** Send or	nly one unit	** Send c	nly one unit	** Send only one unit			
			r is closest		er is closest	Whichever is closest			
Respond Resources will proc	eed directly t	o the inciden	t at the directio	n of the dispat	chers.	There is to be been			
Notify Notification will be				1					
	÷			7					
			of Special (	Joncern					
Name of Concern Area		ion of Conc							
Inyan Kara (Fuel Loading, and Resource Issues)		Action taken in this area will be based on AMR and current conditions, if conditions warran consider MIST tactics; restrictions on mechanized equipment / retardant.							
Sand Creek Roadless Area	Beulah,	WY to Rifle	Pit Divide – A	ny start along I	DR 863; w/in a 1	/2 mile on either side of Rd.			
(Access, and WUI Issues)	Heavy fu	Heavy fuel loading from savoy to Cheyenne Crossing from Tornado damage T5N; R1E; S19 – Any start w/in a 2-mile radius of Tinton							
Tinton (WUI Issues)	T5N; R1	E; S19 – Any	y start w/in a 2	-mile radius of	Tinton	O TT' 1 144 / TT			
Spearfish Canyon (Access, and WUI Issues)	From the	mouth of th	e canyon, begi	nning @ Spear	fish, SD along U.	S. Highway 14A to Hanna			
Spearfish Work Center (WUI	Any star	w/in a 5-mi	le radius of the	LISES Spearfi	sh Work Center.				
Issues)	1			-	ar tronc conter.				
Iron Creek (WUI Issues)	Any star	t w/in a 3-mi	le radius of Iro	n Creek .					
	s	pecial Inst	tructions fo	r Dispatche	rs				
<ul> <li>Have <u>all</u> responding</li> </ul>	g units take ra	idio traffic to	North Zone.						
BLM Land Notify	HPD DO of a	ny fires on B	LM or within	1 mile to BLM	Lands				
	Ъ	nitial Atta	ck Commur	ications Pla	ın				
CHANNEL (GRP 1)	RECEIVE	CG	TRANS	CG		DESCRIPTION			
*3-NZ TERRY			MIT		*Command –	Como to GPC			
7-VFIRE 21					Tac 1	and a second			
8-VFIRE 22					Tac 2				
11-CROOK TALK AROUNE					Tactical				
12-R2 FIRE TAC					Tactical				
13-BKF FIRE TAC					Tactical				
14-A/G 35						ound – Primary			
14-A/G 25 (Group 3)					Air to Ground				
15-VMED28						BULANCE W/I GPC ZONE			
16-AIR GUARD *IC or GPC may designate alterr	ota ranaatar :	r raquact o T	Portobla Dancet	ar for common	Emergency A	ir iraiiic			
-ic of GPC may designate alter	iate repeater (	л request a P	onable Repeat	er for comman	iu. This will de da	ased on location of life.			

#### PREPLANNED DISPATCH CARD

\_\_\_\_Representative RAWS: <u>393507 Custer State Park</u>

I.A. Response Zone: CusterState Park

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 South Dakota State Duty Officer

 Secondary Duty Officer:
 SZ FS D.O

	Reso	urces			DISPATCH AC COMPONENT		ASED ON ENER	GY RELEASE
					Response Level I ERC = 0 - 24		Response Level II ERC = 24-44	Response Level III ERC=45+
Engine(s	) – Type 3, 4 or (	6			Respond 1		Respond 2	Respond 3
ICT4							Respond 1	Respond 1
Type 2 L	A Crew							Respond 1
IA Helico	opter						Respond	Respond
SEAT(s)						Î.		Respond 1
Air Attac								Respond
Dozers W	V/HEQB							Respond 1
Respon d	fireguard engi	nes are not	conside	ered p	art of the respon	ise.	the dispatchers.	Custer State Park
Notify	Notification w	ill be the re	esponsib	ility c	of the Duty Offic	er.		
		Speci	al Inst	ructi	ions for Disp	atchers	/ Areas of	
					pecial Conce			
Instructi	ons/Concern				•			
Aviation	resources				ty Officer or Ini is not present.	tial Attack	IC before mixing	g aircraft on incident
Multiple Fires	Starts/Comple	x Cor rest	nfirm witt oonse on	th Du secoi	ty Officer before nd or third starts	e punching in the vic	g-out the appropri	ate planning level ncident.
		2	[nitia] .	Atta	ck Commun	ications	Plan	
(	CHANNEL	RECEI E	A TO ANY OF TAXABLE A	CG	TRANSMI T	CG	dillorentaria soor	DESCRIPTION
SZ - CIC	ERO						*Command, South Zone	
Black Hi Digital	lls Fire 3-	-					*Alternate Co	mmand, South Zone
VFIRE 2	3						Tac 1 – Tactic	al Operations
VFIRE 2	2						Tac 2 – Tactic	al Operations
VFIRE 2	1						Tac 3 – Tactic	cal Operations
A/G 24							Air to Ground	-Primary
A/G 35							Air to Ground	
VMED 2	253						A/G AIR AM	
		te alternate	repeater	or re	quest a Portable	Repeater	for command. Th	is will be based on
location						~~~~		
†lf USFS	or NPS resourc	es are respo	onding, A	Analo	g 1s preterred fo	r Commar	nd.	

PREPLANNED DISPATCH CARD

I.A. Response Zone: CUSTER

Representative Raws: 393506 Custer (Y Model)

DUTY OFFICER CONTACT
Primary: <u>SZ FS D.O</u>
Secondary: South Dakota State Duty Officer

		DISPATCH ACTION BASED ON RESPONSE LEVEL						
Resources			SE LEVEL 1 C = 0 - 20	E	DNSE LEVEL 2 IRC = 21 - 38RESPONSE LEVEL 2 ERC = 39 +			
Engine(s) – Type 3, 4 or 6		Res	spond 1		Respond 2	Respond 3		
ICT4					Respond 1	Respond 1		
ICT3					Notify	Notify		
IA Helicopter		Re	espond		Respond	Respond		
Air Tanker(s)						Respond 1		
SEAT(s)						Respond 1		
Air Attack						Respond		
DOZER W/HEQB						Respond 1		
Respond Resources will pre	oceed directly	z to the incid	ent at the directi	on of the d	ispatchers.			
Notify Notification will b								
Special areas-Norbeck Wildlif	e Preserve Ur	nits and Jewe	el Cave NM					
Practice MIST tactics on NPS		use, off-road				irk Superintendent		
	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan			
CHANNEL (GRP 4)		use, off-roac Initial A	l travel, retardan		lan	DESCRIPTION		
	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan I *Alternate Comn	DESCRIPTION nand-Como to GPC		
CHANNEL (GRP 4) 1-FOREST NET	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan	DESCRIPTION nand-Como to GPC o to GPC		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan *Alternate Comn *Command-Com *Command-Com	DESCRIPTION nand-Como to GPC o to GPC o to GPC		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan *Alternate Comn *Command-Com	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan *Alternate Comn *Command-Com *Command-Com *Command-Com	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO **-6-SZ PORTABLE	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan *Alternate Comn *Command-Com *Command-Com *Command-Com *Command-Com	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC o to GPC		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO **-6-SZ PORTABLE ***-8-SOA	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan *Alternate Comm *Command-Com *Command-Com *Command-Com *Command-Com Tactical Tactical	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC o to GPC e Protection		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO **-6-SZ PORTABLE ***-8-SOA 9-VFIRE 21	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	lan *Alternate Comm *Command-Com *Command-Com *Command-Com Tactical Tactical Tactical-Structur Tactical-Meade a	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC o to GPC		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO ***-6-SZ PORTABLE ***-8-SOA 9-VFIRE 21 10-VFIRE 22	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	Ian *Alternate Comm *Command-Com *Command-Com *Command-Com *Command-Com Tactical Tactical Tactical-Structur Tactical-Meade a Tactical-Custer a	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC o to GPC e Protection nd Pennington Counties		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO ***-6-SZ PORTABLE ***-8-SOA 9-VFIRE 21 10-VFIRE 22 11-VFIRE 23	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	Ian *Alternate Comm *Command-Com *Command-Com *Command-Com *Command-Com Tactical Tactical Tactical-Structur Tactical-Meade a Tactical-Custer a	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC e Protection nd Pennington Counties nd Fall River Counties to Custer Co Sheriff Office		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO ***-6-SZ PORTABLE ***-8-SOA 9-VFIRE 21 10-VFIRE 21 10-VFIRE 22 11-VFIRE 23 12-EM CICERO PEAK	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	Ian *Alternate Comn *Command-Com *Command-Com *Command-Com Tactical Tactical-Structur Tactical-Meade a Tactical-Custer a Command-Comc Air to Ground - F	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC e Protection nd Pennington Counties nd Fall River Counties to Custer Co Sheriff Office		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO **-6-SZ PORTABLE ***-8-SOA 9-VFIRE 21 10-VFIRE 22 11-VFIRE 23 12-EM CICERO PEAK 14-A/G 24 15-VMED28	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	Ian *Alternate Comn *Command-Com *Command-Com *Command-Com Tactical Tactical-Structur Tactical-Meade a Tactical-Custer a Command-Comc Air to Ground - F	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC e Protection nd Pennington Counties nd Fall River Counties to Custer Co Sheriff Office Primary LANCE W/I GPC ZONE		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO **-6-SZ PORTABLE ****-8-SOA 9-VFIRE 21 10-VFIRE 21 10-VFIRE 22 11-VFIRE 23 12-EM CICERO PEAK 14-A/G 24	Lands, dozer	use, off-roac Initial A	d travel, retardan Attack Commun	ications P	Ian *Alternate Comn *Command-Com *Command-Com *Command-Com Tactical Tactical-Structur Tactical-Structur Tactical-Structur Tactical-Custer a Command-Comc Air to Ground - F A/G AIR AMBU	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC o to GPC e Protection md Pennington Counties nd Fall River Counties to Custer Co Sheriff Office Trimary LANCE W/I GPC ZONE Niternate		
CHANNEL (GRP 4) 1-FOREST NET 2-SZ BEAR 3-SZ ELK 4-SZ CICERO **-6-SZ PORTABLE ***-8-SOA 9-VFIRE 21 10-VFIRE 22 11-VFIRE 23 12-EM CICERO PEAK 14-A/G 24 15-VMED28 14(GRP 5) A/G 35	Lands, dozer	use, off-roac Initial A /E CG	a Portable Repea	ications P	Ian  *Alternate Comn *Command-Com *Command-Com Command-Com Tactical Tactical-Structur Tactical-Structur Tactical-Custer a Command-Comc Air to Ground - I A/G AIR AMBU Air to Ground - 4 Emergency Air 1 mand. This will b	DESCRIPTION nand-Como to GPC o to GPC o to GPC o to GPC o to GPC e Protection ind Pennington Counties nd Fall River Counties to Custer Co Sheriff Office Primary LANCE W/I GPC ZONE Viternate raffic based on location of fire.		

PREPLANNED DISPATCH CARD

I.A. Response Zone: Deerfield DUTY OFFICER CONTACT

DUTY OFFICER CONTACT Primary: <u>CZ FS D.O</u> Representative Raws: Whitetail 392607 (Y Model)

### Secondary: South Dakota State Duty Officer

	DISPATCH ACTION BASED ON RESPONSE LEVEL						
Resources	RESPONSE LEVEL 1 ERC = 0 - 23	RESPONSE LEV ERC = 24 - 3					
Engine(s) – Type 3, 4 or 6	Respond 1	Respond 1	Respond 2				
ICT3			Notify 1				
IA Helicopter		Respond	Respond				
Air Tanker(s)			Respond 1				
SEAT(s)			Respond 1				
Air Attack			Respond				
Dozer W/HEQB			Respond				
<b>Respond</b> Resources will proceed directly to the incident at the direction of the dispatchers.							
Notify Notification will be	the responsibility of the Duty Officer.	*					
Retardant and heavy	N 2E S 26,27,34,35 near Taylor Spring. equipment use restricted. ds within North Fork Castle Creek RI						
	Initial Attack Commu	nications Plan					
CHANNEL (GRP 3)	RECEIVE CG TRANSM	T CG	DESCRIPTION				
*5-CZ SETH			*Command-Como with GPC				
8-VFIRE 21			Tac 1				
9-VFIRE 22			Tac 2				
10-VFIRE 23			Tac for Structure Protection Group				
11-BKF FIRE TAC			Tactical				
13-A/G 31			Air to Ground - Primary				
14-A/G 25			Air to Ground - Alternate				
15-VMED 28		5.0.00 PH/0.00000000000000000000000000000000000	A/G AIR AMBULANCE				
16-AIR GUARD			Emergency Air Traffic				
*IC or GPC may designate alter	mate repeater or request a Portable Repe	ater for command. This v	vill be based on location of fire.				

PREPLANNED DISPATCH CARD

I.A. Response Zone: Exemption Area

Representative RAWS: 392506 NEMO (Model Y)

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 South Dakota State Duty Officer

Secondary Duty Officer: NZ FS D.O

		DISPATCH A	DISPATCH ACTION BASED ON ENERGY RELEASE COMPONENT				
Resources		Response Lev ERC = 0 - 19	Response Level I ERC = 0 - 19		Response Level III ERC = 35 +		
Engine(s) – Type 3, 4, 5 or 6		Respond1		Respond 3	Respond 5		
ICT-4		Respond 1		Respond 1 Respond 1			
ICT-3					Notify		
Squad (6 personnel)				Respond1	Respond 1		
Water Tenders				Respond1	Respond 1		
IA Helicopter				Respond	Respond		
SEAT(s)				Respond	Respond		
Air Attack				Respond	Respond		
Dozers W/ HEQB					Respond		
Respond       Resources will proceed directly to the incident at the direction of the dispatch. VFD and Municipal engines can be considered part of response for Engines and Tenders in this Response Zone.         Notify       Notification will be the responsibility of the Duty Officer.							
Special Instructions for Dispatchers / Areas of Special Concern							
Name of Concern Area	Description o	Description of Concern Area					
Exemption Area	Any start w/in a 2-mile radius of the Lead Exemption Area due to population density. This area includes Lead, Deadwood, Central City, Maitland, Mt. Roosevelt, west end of Boulder Canyon, Strawberry Hill, Brownsville, Englewood, Deer Mt., and Terry Peak.						
Spearfish Canyon	The Response Zone's west boundary is Highway 14A. Any start within 1 mile of 14A within this response zone.						
BLM Land	Notify BLM DO of any fires on BLM or within 1 mile.						
Aviation resources	Confirm with Duty Officer or Initial Attack IC before mixing aircraft on incident if ATGS or Lead is not present.						
Structure Protection Special	tection Specialist is automatically ordered when the IAIC orders Type 1 or Type II ucture protection, no matter what planning level.						
Multiple Starts/Complex Fires         Confirm with Duty Officer before punching-out the appropriate planning level resp second or third starts in the vicinity of the first incident.							
Initial Attack Communications Plan							
CHANNEL	RECEIVE CO	G TRANSMIT	CG		SCRIPTION		
NZ Terry			1	*†Command - Como with GPC primary			
NZ Custer				*+Command - Como with GPC alternate			
Black Hills Fire 1 - Digital		*†Command - Como with GPC alternate					
VFIRE 22	Tac 1 – Scene of Action						
VFIRE 23	Tac 2 – Tactical Operations						
VFIRE 21	Tac 3 – Structure Protection						
R2 FIRE TAC	Tactical						
A/G 35	Air to Ground - Primary						
A/G 25	Air to Ground -Alternate						
VMED 28				A/G AIR AMBULANCE			
*IC or GPC may designate alternate repeater or request a Portable Repeater for command. This will be based on location of fire.							
*If USFS or NPS resources are							
THE OPPO OF MED RESOURCES and	e responding, Analog	s is preferred for Colli	manu.				

PREPLANNED DISPATCH CARD

I.A. Response Zone: Central Foothills

Representative RAWS: 392608 Rapid City-West

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 South Dakota State Duty Officer

Secondary Duty Officer: If within 1 mile of federal ownership, contact appropriate federal duty officer

_				DISPA	ICH ACT	ION BASE	D ON ENERGY RE	LEASE COMPONENT
Resour	rces				se Level = 0 - 21	I Re	esponse Level II ERC = 22 - 43	Response Level III ERC = 44 +
Engine(s) – Type 3, 4 or 6				Res	oond 1		Respond 3	Respond 5
ICT4					Respond	Respond 1		
ICT3								Notify
Squad (6 Personnel)							Respond	Respond 1
Water Tenders							Respond 1	Respond 1
IA Helicopter							Respond	Respond
SEAT(s)							Respond	Respond
Air Attack							Respond	Respond
Dozers W/HEQB								Respond 1
Respond Resources will considered part								cipal engines can be
Notify Notification wi	ll be the	e respons	ibility of th	e Duty O	fficer.	1		
	Snecia	l Instru	ictions fo	r Disna	tchers /	Areas of 3	Special Concern	
Instructions/Concern	рсспа	i məti u		r Dispa	uners / .	iii cus oi	special concern	
Aviation resources		Confirm	n with Duty	· Officar	or Initial A	ttook IC ba	for a missing airoraft	on incident if ATGS or
Aviation resources			not presen		or mual P	Mack IC De	tore mixing an cran	on incluent if ATGS of
Structure Protection Speci	ialist				list is auto	matically o	rdered when the IAI	C orders Type 1 or Type II
Su detare i rottetton speci	anst						lanning level.	condens type tor type it
Multiple Starts/Complex H	Fires							ing level response on
		second	or third sta	rts in the	vicinity of	the first inc	ident.	
Ft Meade Recreation Area	r i						Equipment and Retar	dant use must be
		authori	zed by SD I	BLM Fie	ld Manager	r Chip Kiml	ball Cell 605-631-95	07 office 605-892-7001
Camp Mniluzahan								aw enforcement has
					esponders.	Responders	s confirm safety via	Tac channel before
		entering	, the encam	pment.				
		]	Initial At	tack Co	mmuni	cations Pl	an	
CHANNEL	RE	ECEIVE	CG	TRA	ANSMIT	CG	DE	ESCRIPTION
NZ - TERRY			0.000			Contractor	*†Command, No	rth Zone
CZ - SETH	1					-	*†Command, Ce	ntral Zone
CZ - RUSHMORE	1					-	*†Command, Ce	ntral Zone
Black Hills Fire 1-Digital						-	*Alternate Comn	nand, North Zone
Black Hills Fire 2-Digital						-	*Alternate Comn	nand, Central Zone
VFIRE 22	1					-	Tac 1- Scene of A	Action
VFIRE23	1					-	Tac 2-Tactical O	perations
VFIRE 21	1					-	Tac 3- Structure	Protection
R2 FIRE TAC	1					-	Tactical	
Nº LINE TWO	+					•	Air to Ground- N	of Black Hawk
A/G 35							mi to oround- is	OI DIACK HAWK
	┨					-		lack Hawk to Hermosa
A/G 35								lack Hawk to Hermosa
A/G 35 A/G 25			1			-	Air to Ground- B	lack Hawk to Hermosa
A/G 35 A/G 25						-	Air to Ground- B	lack Hawk to Hermosa
A/G 35 A/G 25	alternat	e repeater	or request	a Portabl	e Repeater	for comma	Air to Ground- B A/G AIR AMBU	lack Hawk to Hermosa LANCE

#### PREPLANNED DISPATCH CARD

#### I.A. Response Zone: Fall River

Representative RAWS: 395105 Red Canyon (Y Model)

## DUTY OFFICER CONTACT Primary: <u>Fall River District Duty Officer</u> Secondary: <u>Nebraska National Forest Duty Officer</u>

		DIS	SPATCH A	CTION BASEI	ON RESP	ONSE LEVEL			
Resourc	ces	RESPONSE LEV BI = 0-21		RESPONSE I BI = 22		RESPONSE LEVEL 3 BI = 29+			
Engine(s) – Type 3, 4, 5 c	or 6	Respond 1		Respon	d 2	Respond 3			
ICT4		Respond 1		Respon	d I	Respond 1			
SEAT(s)						Respond 2			
Respond Resources w	ill proceed directly	to the incident at the	direction o	f the dispatcher	e e				
		ibility of the Duty Of		r the dispatemen	3.				
	in an of the respective								
	Special I	nstructions for Dispa	atchers/Are	eas of Special C	Concern				
						be avoided by suppression			
Igloo			district and VFD resources are familiar with these areas. Resources responding from a to report to the IC for a complete safety briefing.						
	adjacent units n	eed to report to the IC	$\sim$ for a comp	blete safety brie	ling.				
<b>Railroad Buttes</b>	Military Aircrat	ft from Ellsworth AFI	B conduct tr	aining missions	s in this area	L.			
VFD'S	VFD units may responding.	be considered as part	t of the resp	onse if local co	unty dispatel	h center confirms they are			
Communications	IC may designa	te an alternate comm	and repeater	r if radio covera	ge of other 1	repeaters is inadequate.			
		Initial Attack Co	ommunicat	ions Plan					
CHANNEL	(GRP 3)	RECEIVE	CGT	RANSMIT	CG	DESCRIPTION			
1-WEST DIRECT	()					mmand, Hot Springs area			
2-WOLF REPEATER					*Co	mmand, South side			
3-WEST WILLOW REP.	EATER				*Co	mmand, East end			
4-COYOTE REPEATER					*Co	mmand, West end			
6-VMED 28					Med	lical Evacuation			
8-NBF TAC					Tact				
9-VFIRE 22					Tact				
10-VFIRE 23					Tact				
14-A/G 25						to Ground Primary			
13-(Grp3) A/G 35						to Ground Secondary			
*IC or GPC may designate	te Command Chani	nel or request a Portal	ble Repeate	r tor command.	This will be	e based on location of fire.			

### PREPLANNED DISPATCH CARD

Representative RAWS: 393801 Ft. Pierre (Y Model)

I.A. Response Zone: **Ft. Pierre** DUTY OFFICER CONTACT Primary: <u>Ft. Pierre District Duty Officer</u> Secondary: <u>Nebraska National Forest Duty Officer</u>

			DISPATCH	I ACTION I	BASED ON RESP	ONSE LEVEL
Resource	es		SE LEVEL 1 [ = 0-20	CONTRACTOR AND A STORE AND A	ONSE LEVEL 2 BI = 21-30 RESPONSE LEV BI = 31+	
Engine(s) - Type 3,4, or 6		R	espond 2	Respond 3		
TOTA		D		D	1 1	D 11
ICT4 ICT3		Re	spond 1	K	espond 1	Respond 1 Notify 1
1015						Notify 1
SEAT(s) – Confirm order	with IC					Respond 2
	l proceed directly			n of the disp	oatchers.	
Notify Notification w	vill be the respons	sibility of the	Duty Officer.			
VFD'S	VFD units may	be considere	or Dispatchers/	10		ounty dispatch center confirms
	that they are res	sponding.				
Army Corps of Engineers	Notify the State	of South Da	kota Duty Office	er if the poin	t of origin is on Co	orps of Engineers jurisdiction.
Communications	IC may designa	te alternate fi	requencies if rad	io communi	cations are not ade	quate.
		Initial A	ttack Commun	ications Pla	n	
CHANNEL (GRP 8)	RECEIV	/E CG	TRANSMIT	CG	D	ESCRIPTION
1-EAST DIRECT					*Command	
2-FT PIERRE REPEATER	2				*Command	
4-A/G 31					Air to Ground Prir	
5-A/G 24					Air to Ground Sec	ondary
YOU UNDERSEAR OF CARDON	8-NBF TAC			_	Tactical	
9-VFIRE 21 10-VFIRE 22					Tactical	
10-VFIRE 22	<u> </u>			1	Factical	

Revised: March 26, 2021

#### PREPLANNED DISPATCH CARD

I.A. Response Zone: Lakes

Representative Raws: Baker Park 392606 (Y Model)

#### DUTY OFFICER CONTACT Primary: <u>CZ FS D.O</u> Secondary: <u>South Dakota State Duty Officer</u>

	ACTION B.	IION BASED ON RESPONSE LEVEL							
Resources	RESPONSE LEVEL 1 ERC = 0 - 28		NSE LEVEL 2 RC = 29 - 41	RESPONSE LEVEL 3 ERC = 42 +					
Engine(s) – Type 3, 4 or 6	Respond 1	I	Respond 2	Respond 3					
ICT3			Notify	Notify					
IA Helicopter	Respond		Respond	Respond					
Air Tanker(s)				Respond 1					
SEAT(s)				Respond 1					
Air Attack				Respond					
Dozer W/HEQB				Respond 1					
	lirectly to the incident at the direction	of the dispa	tchers.						
Notify Notification will be the re	esponsibility of the Duty Officer.								
1N 4E Sec 1, 2, 3 & 2N 4E 3 Sheridan Lake Road – Clo Creek Trailhead along Sheri Oftedal Construction- Norm GPC will Notify and Coordi Sheridan Lake Rd Area. Thi Request a designated road g during normal hours of oper Oftedal Construction- After GPC will Contact Project M safety issues/concerns within resources to gain access by c	7 RNA nent use restricted. Utilize MIST stand	Hwy 385/Sh ilosure) Boti oject Superir ond the bar s to prevent & aviation) . Provide co y considera l not be desi	eridan Lake Rd. I n locations will ha tendent of any en ricades or a worki delayed response of any potential h urtesy notification tions to respondin gnated flaggers o	ntersection east to Spring ve barricades nergency response within the ng incident in the area. Will only provide flaggers plasting operations. n of access needs and verify g resources and instruct utside of normal hours of					
Project Manager- Jeremiah	n Assman 307-277-4880								
Project Superintendent- Ba	ret Hough 307-315-2215	Project Manager- Jeremiah Assman 307-277-4880 Project Superintendent- Bret Hough 307-315-2215							
Air Attack must be ordered with 3 or more aircraft.									
Air Attack must be ordered									
Air Attack must be ordered		ations Plan	Í						
	with 3 or more aircraft.			DESCRIPTION					
	with 3 or more aircraft. Initial Attack Communic								
CHANNEL (GRP 3)	with 3 or more aircraft. Initial Attack Communic								
CHANNEL (GRP 3) 1 *5-CZ SETH	with 3 or more aircraft. Initial Attack Communic		*Command-Co						
CHANNEL (GRP 3) 1 *5-CZ SETH 8-VFIRE 21	with 3 or more aircraft. Initial Attack Communic		*Command-Co Tac 1 Tac 2						
CHANNEL (GRP 3) 1 *5-CZ SETH 8-VFIRE 21 9-VFIRE 22	with 3 or more aircraft. Initial Attack Communic		*Command-Co Tac 1 Tac 2	omo with GPC					
CHANNEL (GRP 3) 1 *5-CZ SETH 8-VFIRE 21 9-VFIRE 22 10-VFIRE 23	with 3 or more aircraft. Initial Attack Communic		*Command-Cc Tac 1 Tac 2 Tac for Structu Tactical	mo with GPC re Protection Group					
CHANNEL (GRP 3) 1 *5-CZ SETH 8-VFIRE 21 9-VFIRE 22 10-VFIRE 23 11-BKF FIRE TAC	with 3 or more aircraft. Initial Attack Communic		*Command-Co Tac 1 Tac 2 Tac for Structu	mo with GPC re Protection Group Primary					
CHANNEL (GRP 3) 1 *5-CZ SETH 8-VFIRE 21 9-VFIRE 22 10-VFIRE 23 11-BKF FIRE TAC 13-A/G 31	with 3 or more aircraft. Initial Attack Communic		*Command-Cc Tac 1 Tac 2 Tac for Structu Tactical Air to Ground	mo with GPC re Protection Group - Primary - Alternate					
CHANNEL (GRP 3) 1 *5-CZ SETH 8-VFIRE 21 9-VFIRE 22 10-VFIRE 23 11-BKF FIRE TAC 13-A/G 31 14-A/G 25	with 3 or more aircraft. Initial Attack Communic		*Command-Co Tac 1 Tac 2 Tac for Structu Tactical Air to Ground Air to Ground	mo with GPC re Protection Group - Primary - Alternate ULANCE					

PREPLANNED DISPATCH CARD

I.A. Response Zone: LIMESTONE

Representative Raws: 392506 Nemo (Y Model)

DUTY OFFICER CONT. Primary: <u>SZ FS</u> Secondary: <u>CZ F</u>	<u>D.O_</u>			
	DISPATCH ACTIO	ON BASED ON RESI	PONSE LEVEL	
Resources		SPONSE LEVEL 2 ERC = 20 - 35	RESPONSE LEVEL 3 ERC = 36 +	
Engine(s) – Type 3, 4 or 6	Respond 1	Respond 2	Respond 2	
ICT4		Notify	Respond 1	
IA Helicopter	Respond	Respond	Respond	
Air Attack			Respond	
Respond Resources will proc	eed directly to the incident at the direction of the	e dispatchers.		
Notify Notification will be	the responsibility of the Duty Officer.			
Mutual Aid with Weston County		f Special Concern		
If Point of Origin is on Private L	and notify the State DO.			
BLM Land Notify HPD DO of a	ny fires on BLM or within 1 mile to BLM Lands	ŝ		
	Initial Attack Communications	Plan		
CHANNEL (GRP 5)	RECEIVE CG TRANSMIT C		DESCRIPTION	
1-FOREST NET			mmand-Como to GPC	
2-SZ BEAR	1	*Command-C		
3-SZ ELK	1	*Command-C		
**6- SZ PORTABLE	7	*Command-C	omo to GPC	
8-VFIRE 21	7		ture Protection	
9-VFIRE 22	]		le and Pennington Counties	
10-VFIRE 23			er and Fall River Counties	
11-WESTON CO REPEATER		Command-WI	EX Repeat-Como to WEX SO	
13-A/G 24		Air to Ground		
14-A/G 35		Air to Ground		
15-VMED28			BULANCE W/I GPC ZONE	
16-AIR GUARD		Emergency A:	ir Traffic	
2 (Grp1) NZ WARREN			imand-Como to GPC	
7-(Grp13) WEX TAC		Tactical		
*IC or GPC may designate alterr	nate repeater or request a Portable Repeater for c	ommand. This will be	e based on location of fire.	
** Stored at Hell Canyon Fire C	ache ***Stored at the BKF Fire Cache – BOTH	need to be ordered th	rough GPC for the incident	

PREPLANNED DISPATCH CARD

I.A. Response Zone: McKelvie

Representative RAWS: 252402 BESSEY (Y Model)

DUTY OFFICER CONTACT Primary: <u>Bessey District Duty Officer</u> Secondary: <u>Nebraska Forest Duty Officer</u>

	DISPATCH ACTION BASED ON RESPONSE LEVEL						
Resources	RESPONSE LEVEL 1 BI = 0-19	RESPONSE LEVEL 2 BI = 20-27	RESPONSE LEVEL 3 BI = 28+				
Engine(s) – Type 3, 4 or 6	Respond 1	Respond 1 from Bessey	Respond 1 from Bessey				
		Respond 1 from Valentine	Respond 1 from Valentine				
Engine(s) – Type 7		National Wildlife Refuge Respond 1 from Bessey	National Wildlife Refuge Respond 1 from Bessey				
Engine(s) – Type /		Respond I from Bessey	Respond 1 from Bessey				
ICT4	Respond 1	Respond 1	Respond 1				
ICT3			Notify				
SEAT(s)		Respond 1	Respond 2				
<b>Respond</b> Resources will proceed directly	to the incident at the direction	n of the dispatchers					
<b>Notify</b> Notification will be the response		n of the dispatements.					
	,,						
Special I	nstructions for Dispatchers/.	Areas of Special Concern					
Remote location and limited access - person	nel equipped to dig handline r	equired.					
VFD units may be considered as part of the	response if local county dispa	tch center confirms they are res	ponding.				
	Initial Attack Communi	t Dise					
	Initial Attack Communi	cations Flan					
CHANNEL (GRP 12) RECEIV	E CG TRANSMIT	CG DI	ESCRIPTION				
10-NENZEL REPEATER			mand-Commo with GPC				
3-NBF TACTICAL		Tactical					
11-A/G 25		Air to Ground Prir	· · · · · · · · · · · · · · · · · · ·				
8-A/G 5		Air to Ground Sec	ondary				
13-VTAC 11 14-VTAC 12		Tactical					
	u al au va au act a Dantala l- D	Tactical	based on langtion of fir-				
*IC or GPC may designate Command Chan	nei or request a Portable Repe	ater for command. This will be	based on location of fire.				

#### Center

PREPLANNED DISPATCH CARD

I.A. Response Zone: Minnekahta

Representative RAWS: 395105 Red Canyon (Y MODEL)

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 South Dakota State Duty Officer

Secondary Duty Officer: SZ FS D.O

			DISPATCH ACTION BASED ON ENERGY RELEASE COMPONENT					
	Resources			onse Level I C = 0 - 24		nse Level II C=25 - 44	Response Level III ERC=45+	
Engine(s) -	– Type 3, 4 or 6		Re	espond 1	Re	espond 2	Respond 3	
ICT-4					Re	spond 1	Respond 1	
ICT-3							Notify	
Crews							Respond 1	
IA Helicop	oter		Re	spond		spond	Respond	
SEAT(s)					Re	spond	Respond 1	
Air Attack					R	espond	Respond	
Dozers W/	HEQB						Respond 1	
Respond	Resources will procee considered part of res	ponse for Engine	s and Tende	rs in this Respo		VFD and Munic	cipal engines can be	
Notify	Notification will be the	ie responsibility	of the Duty	Officer.				
	-	l Instruction	s for Disp	atchers / Are	eas of Spe	cial Concern	L	
Instructio	ns/Concern							
Aviation r	resources			r or Initial Attac e that Air Attack			on incident if ATGS or e mixed.	
Structure	Protection Specialist	Structure Prot	ection Speci		cally ordere	d when the IAIC	C orders Type 1 or Type II	
Multiple S	Starts/Complex Fires	Confirm with	Duty Office		g-out the a	propriate planni	ing level response on	
				Communicati				
	CHANNEL	RECEIVE	CG	TRANSMIT	CG	Г	DESCRIPTION	
FS SZ – B		KECEI VE		TRANSIMIT	CU		mo with GPC, South end	
FS SZ - C							mo with GPC, North end	
Forest Net	2010/256/256/255/2642						to with GPC, Alternate	
C10202 U.V. ROP BERGE U.U.S.L.F.	s Fire 3 - Digital						no with GPC, Alternate	
VFIRE 22	<u> </u>					Tac 1 – Scen		
VFIRE 22 VFIRE 23							cal Operations	
VFIRE 23							ture Protection	
BKF FIRE	ТАС					Tactical - Alte	· · · · · · · · · · · · · · · · · · ·	
R2 FIRE T						Tactical - Alte	0200141021233102	
A/G 35						Air to Ground	100.00000000	
A/G 33 A/G 24						Air to Ground		
A/G 24 VMED 28						A/G AIR AM		
		a ranaatar ar raa	ugat a Dortal	ala Danaotar far	a ammon 1			
ALC OF GPG	C may designate alternat	the repeater or req	uest a Porta	for Common 1	command.	i nis will be base	eu on location of fire.	
TI USFS a	or NPS resources are res	ponding, Analog	is required	for Command.				

PREPLANNED DISPATCH CARD

I.A. Response Zone: Nemo

Representative RAWS: 480605 Nemo (Y Model)

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 NZ FS D.O

 Secondary Duty Officer:
 South Dakota State Duty Officer

		DISPATCH ACTION	I BASED ON ENERGY RE	ELEASE COMPONENT		
Resources		RESPONSE LEVEL 1 ERC = 0 - 19	RESPONSE LEVEL 2 ERC = 20 - 35	RESPONSE LEVEL 3 ERC = 36 +		
Engine(s) – Type 3, 4 or 6		**Respond 1	Respond 1/** Respond	Respond 2		
IA Module		**Respond 1	**Respond 1	Respond 1		
ICT3				Notify		
IA Helicopter			Respond	Respond		
SEAT(s)			Respond	Respond		
Air Tanker(s)			Respond	Respond		
Air Attack			Respond	Respond		
		**Send only one unit - Whichever is closest	**Send only one unit - Whichever is closest			
Respond         Resources will proceed           Notify         Notification will be the	e responsibility	incident at the direction of t of the Duty Officer. Areas of Special Conc				
Name of Concern Area		f Concern Area				
Exemption Area (WUI Issues)		a 2-mile radius of the Lead	Evenntion Area			
Beaver Park (Access Issues)	Beginning @	Sturgis SD south to FS Rd	169: east from Vanocker Ca	anyon Rd to I 90 Any start		
ikavel I alk (Access issues)	Beginning @ Sturgis, SD south to FS Rd 169; east from Vanocker Canyon Rd to I 90 Any start w/in this "general" descriptive area will have delayed response due to access issues. Consider Aircraft, ATV/UTV use.					
Spearfish Canyon (WUI Issues)	From the mouth of the canyon, beginning @ Spearfish, SD along U.S. Highway 14A to Hanna. Heavy fuel loading from savoy to Cheyenne Crossing from Tornado damage.					
Rural SD Communities (WUI Issues)	CCC, Girl Sco		Galena, Boulder Park, Boul ak – Any start w/in a ½ mile	lder Canyon Road, Boxelder e radius of these rural		
Custer Peak (Health and Safety Issues)		TLE KILL AREA - Any s e Duty Officer!!	start within a 1.5 mile radius	s of Custer Peak Lookout		
	Speci	al Instructions for Dis	patchers			
Have <u>all</u> responding	units take radio t	raffic to North Zone.				
	Initia	l Attack Communicat	ions Plan			
CHANNEL (GRP 2)	RECEIVE	CG TRANSMIT	CG I	DESCRIPTION		
3-NZ TERRY			8 D.C.	Como to GPC		
7-VFIRE 21	ł		Tac 1	energementin indi ni		
8-VFIRE 22	ŀ		Tac 2			
14-A/G 35	·			round – Primary		
14-A/G 25 (Group 3)	·		Air to Ground			
9-VFIRE 23	·		Tactical			
13- BKF FIRE TAC	ŀ		Tactical			
15-VMED28			A/G AIR AM	BIILANCE		
16-AIR GUARD	•		Emergency A			
*IC or GPC may designate alternat	a rapactar or rac	uast a Dortabla Dapastor for				
Provide de Folkmanne 02, 2021	c repeater of req	uesi a rottable Repeater for	command. This will be bas	ou on location of file.		

PREPLANNED DISPATCH CARD

I.A. Response Zone: Northern Foothills

Representative RAWS: 392506 Nemo (Y Model)

 DUTY OFFICER CONTACT:

 Primary Duty Officer:
 South Dakota State Duty Officer

 Secondary Duty Officer:
 NZ FS D.O

			DISPATCH ACTION BASED ON ENERGY RELEASE COMPONENT					
	Resources		Response Level I ERC=0-19	Response Level II ERC = 20 - 35	Response Level III ERC = 36 +			
	- Type 3, 4 or 6		Respond 1	Respond 3	Respond 5			
ICT4			Respond 1	Respond 1	Respond 1			
ICT3				Notify 1	Notify 1			
Crews/Squ	ads (6 Personnel)			Respond 1 Squad	Respond 1 Crew			
STEN or T		)]			Respond 1			
Water Tend				Respond 1	Respond 2			
IA Helicop	oter			Respond	Respond			
SEAT(s)				Respond 1	Respond 1			
Air Tanker	(s)			Respond	Respond			
Air Attack	11100			Respond	Respond			
Dozers W/	HEQB				Respond 1			
STPS					Respond 1			
Respond				he dispatch. VFD and Munic	cipal engines can be			
and the second se	Notification will be th	ponse for Engine	s and Tenders in this Respo	nse Zone.				
Notify	of completeness above stores	1	THE COULD REPORT DURING THE DURING					
		al Instruction	s for Dispatchers / Are	eas of Special Concern	Î			
Instruction	ns/Concern							
Aviation r	esources			k IC before mixing aircraft	on incident if ATGS or			
		Lead is not pro						
Structure	Protection Specialist			ically ordered when the IAI	C orders Type 1 or Type II			
			ucture protection, no matter					
Multiple S	starts/Complex Fires			ng-out the appropriate plann	ing level response on			
			d starts in the vicinity of the	1				
		Initia	l Attack Communicati	ions Plan				
CH	IANNEL R	ECEIVE C	G TRANSMIT	C1077	ESCRIPTION			
NZ Terry					omo with GPC primary			
NZ Custer					omo with GPC alternate			
NZ Warren	ı			1	omo with GPC alternate			
	s Fire 1 - Digital			*†Command - Co	omo with GPC alternate			
VFIRE 22				Tac 1 – Scene of				
VFIRE 23				Tac 2 – Tactical				
VFIRE 21				Tac 3 – Structure	Protection			
R2 FIRE T	AC			Tactical				
VMED 28				A/G AIR AMBU	LANCE			
A/G 25				Air to Ground				
A/G 31				Air to Ground				
A/G 35				Air to Ground				
				command. This will be base	ed on location of fire.			
†If USFS c	or NPS resources are res	ponding, Analog	is preferred for Command.					
D 1 I								

#### PREPLANNED DISPATCH CARD

I.A. Response Zone: PILGER

Representative Raws: 395105 Red Canyon (Y Model)

DUTY OFFICER CONTACT Primary: <u>SZ FS D.O</u> Secondary: <u>South Dakota State Duty Officer</u>

1.000			DISPATCH ACTION BASED ON RESPONSE LEVEL						
	Resources			NSE LEVEL 1 C = 0 - 24		NSE LEVEL 2 RC = 25 - 44	RESPONSE LEVEL 3 ERC = 45 +		
Engine(s)	– Type 3, 4 or 6		Re	espond 1	F	Lespond 2	Respond 2		
Dozer W/H	HEQB						Respond 1		
ICT4					F	Lespond 1	Respond 1		
ICT3						Notify	Notify		
IA Helicop	oter		R	lespond		Respond	Respond		
Air Tanker	r(s)						Respond 1		
SEAT(s)	bas.				F	Lespond 1	Respond 1		
Air Attack						Respond	Respond		
			-				P		
Respond	Resources will procee	ed directly to the	e incident a	t the direction of	the dispat	chers.			
Notify	Notification will be th	ne responsibility	of the Dut	y Officer.					
						1.0			
				ispatchers/Areas					
Darrow /	Freezeout / Triangle U	Jranium Mines	s – see ma	p and fact sheet	. Conside	r NOT taking ar	y suppression action due		
to high le	vels of radionuclides i	n the soils and	l contamin	ated water in th	e area.				
Area of Cr	itical Environmental cor	ncern – Fossil C	'ycad Natio	nal Monument - I	Heavy equ	ipment use must l	e authorized by SD BLM		
Field Mana	ager – Chip Kimball, Ce	11 605-631-950	7 Office 60	5-892-7001					
Retardant a	and dozer use restricted	in Craven Cany	on.						
		In	itial Attacl	x Communicatio	ns Plan				
CHA	ANNEL (GRP 4)	RECEIVE	CG	TRANSMIT	CG	D	ESCRIPTION		
1-FOREST	Г NET					*Alternate Com	mand-Como to GPC		
2-SZ BEA	R					*Command-Co			
3-SZ ELK	50 640 y					*Command-Co	mo to GPC		
4-SZ CICE	ERO					*Command-Co	mo to GPC		
5-SZ BAL	L					*Command-Co	mo to GPC		
**6-SZ PC	ORTABLE					*Command-Co	mo to GPC		
***8-SOA						Tactical	CARACTERS CONTRACTORS		
9-VFIRE 2						Tactical – Struc	ture Protection		
10-VFIRE							le & Pennington Counties		
11-VFIRE							er & Fall River Counties		
14-A/G 24	19.35.7C2					Air to Ground -			
15-VMED							ULANCE W/I GPC ZONE		
100-50 Providence-51 Pro	5 P32 P32					Air to Ground -			
	4-(GRP 5)-A/G 35						- Alternate		
16-AIR GUARD Emergency Air Traffic									
		a repeater or to	quest a Dor	table Repeater fo	rcommer	Emergency Air	Traffic		
*IC or GP	UARD C may designate alternat t Hell Canyon fire cache	te repeater or re	quest a Por	table Repeater for	r comman	Emergency Air d. This will be bas	Traffic red on location of fire.		

#### PREPLANNED DISPATCH CARD

#### I.A. Response Zone: Pine Ridge

Representative Raws: 250203 Kings Canyon (Y Model)

#### DUTY OFFICER CONTACT Primary: <u>Pine Ridge District Duty Officer</u> Secondary: <u>Nebraska National Forest Duty Officer</u>

_				DISPATCH ACTION BASED ON RESPONSE LEVEL					
	Resour	ces	RESP	PONSE LEVEL 1 BI = 0-21	RE	SPONSE LEVEL 2 BI = 22-30	RESPONSE LEVEL 3 BI = 31+		
Engine(s)	– Type 3, 4 or 6			Respond 1		Respond 2	Respond 2		
Type 2 Crev	Type 2 Crews     Notify 1     Notify 1								
ICT4				Respond 1		Respond 1	Respond 1		
ICT3							Notify 1		
SEAT(-)							Demand 2		
SEAT(s)							Respond 2		
Respond	Resources wi	ll proceed directly t	o the inci	dent at the direction	n of the di	spatchers			
Notify		vill be the responsib			i or the di	spatemers.			
		•		s for Dispatchers/		•			
Sold	ier Creek	Soldier Creek Wi	ilderness v	will have all fires s	uppressed.	. Resources responding	g from adjacent units need to		
0.01.5210	lderness	report to the IC fo	or a comp	lete fire and safety	briefing.	220 S	17 722		
	ier Creek								
	ess & Oglala	Military aircraft f	from Ellsv	worth AFB conduct	training r	nissions in the area.			
Nationa	ıl Grassland								
v	/FD'S	VFD units will be	e consider	red as part of the re	sponse wł	nen Chadron Dispatch	confirms they are responding.		
Comm	unications	IC may designate	an altern	ate command repea	ater if radi	o coverage of other rej	peaters is inadequate.		
Wate	er Sources	Ponds located in	T.31N., R	51W., Sec. 19 are	used for u	aranium mining- not to	be used.		
			Initial	Attack Commun	ications F	Dan			
CILAN		RECEIVE	21104032400484025	TRANSMIT	CG	ne selection of	ESCRIPTION		
1-WEST I	NEL (GRP 2)	KECEIVE	CG	TKANSMIT	CG	*Command	SORIFIION		
the contraction of the second	REPEATER					*Command *Command			
3-NE TAC						Tactical			
11-VFIRE		-				Tactical			
12-VFIRE		-				Tactical			
13-A/G 25						Air to Ground Prim	arv		
14-A/G 5						Air to Ground Seco			
15-VMED	28		-		•	Medical Evacuation	2		
*IC or GP	C may designate	Command Channe	el or reque	est a Portable Repe	ater for co	mmand. This will be t	based on location of fire.		

#### PREPLANNED DISPATCH CARD

I.A. Response Zone: Southern Foothills

\_\_Representative RAWS: <u>393507 Custer State Park (Y)</u>

# DUTY OFFICER CONTACT: Primary Duty Officer: South Dakota State Duty Officer Secondary Duty Officer: SZ FS D.O

			DISPA	DISPATCH ACTION BASED ON ENERGY RELEASE COMPONENT					
Resources				Response Level I Re ERC = 0 - 24			Response Level III ERC = 45 +		
Engine(s) – Type 3, 4	4 or 6		Re	pond 1		ERC = 25 - 44 Respond 2	Respond 3		
ICT4				1		Respond 1	Respond 1		
Type 2 IA Crew						1	Respond 1		
IA Helicopter						Respond	Respond		
SEAT(s)							Respond 1		
Air Attack							Respond		
Dozers W/HEQB							Respond 1		
Respond	Resources will	proceed di	rectly to the in	ncident at the direct	ction of the	dispatchers.			
Notify	Notification w	ill be the re	sponsibility o	the Duty Officer					
	Snecial I	nstructio	ns for Disn	atchers / Area	s of Snec	ial Concern			
Instructions/Concer			<b>r</b>						
Aviation resources		Co	nfirm with Du	ty Officer or Initia	al Attack IC	before mixing ai	rcraft on incident if		
			GS or Lead is			U			
Multiple Starts/Con	nplex Fires	Co	nfirm with Du	ty Officer before	punching-o	ut the appropriate	planning level		
212		res	ponse on seco	nd or third starts i	n the vicini	ty of the first incid	lent.		
		Initi	al Attack (	ommunicatio	ns Plan				
CHANNEL		RECEI	VE CG	TRANSMI T	CG	I	DESCRIPTION		
SZ - CICERO						*Command, So	outh Zone		
Black Hills Fire 3-Di	igital	t				*Alternate Con	nmand, South Zone		
VFIRE 23	-	T I				Tac 1 – Tactica			
VFIRE 22		T				Tac 2 – Tactica	al Operations		
VFIRE 21		[				Tac 3 – Tactica			
A/G 24		[				Air to Ground-			
A/G 35						Air to Ground			
VMED 28						A/G AIR AME			
*IC or GPC may des	ignate alternate repo	eater or req	uest a Portable	Repeater for con	mand. This	s will be based on	location of fire.		
†If USFS or NPS res	ources are respondi	ng, Analog	is preferred fo	or Command.					

PREPLANNED DISPATCH CARD

I.A. Response Zone: TEPEE

Representative Raws: 3935105 Red Canyon (Y Model)

DUTY OFFICER CONTACT
Primary: <u>SZ FS D.O</u>
Secondary: South Dakota State Duty Officer

			DISPATCH	ACTION I	BASED ON RESP	PONSE LEVEL
Resources			LEVEL 1 = 0 - 24	And a second	ONSE LEVEL 2 RC = 25 - 44	RESPONSE LEVEL 3 ERC = 45 +
Engine(s) – Type 3, 4 or 6		Resp	ond 1		Respond 2	Respond 2
ICT4				F	Respond 1	Respond 1
ICT3					Notify	Notify
IA Helicopter		Respond			Respond	Respond
Air Tanker(s)						Respond 1
SEAT(s)					Respond 1	Respond 1
Air Attack					Respond	Respond
DOZER W/HEQB						Respond 1
Respond Resources will proce	ed directly to the	incident	at the direction	of the disp	oatchers.	
Notify Notification will be t	he responsibility	of the Di	uty Officer.			
After 1900 response level decreas During hours 1730-0900: Contact	duty officer to d	letermine	responding resc ck Communics		n	
CHANNEL (GRP 5)	RECEIVE	CG	TRANSMIT	CG		DESCRIPTION
1-FOREST NET	ICLODI VL	00				mand-Como with GPC
2-SZ BEAR	-				*Command-Co	
3-SZ ELK	•				*Command-Co	
4-SZ CICERO					*Command-Co	mo to GPC
5-SZ BALL	-				*Command-Co	
**6-SZ PORTABLE	•				*Command-Co	mo to GPC
8-VFIRE 21	•				Tactical – Struc	cture Protection
9-VFIRE 22						de & Pennington Counties
10-VFIRE 23	•				Tactical - Cust	er and Fall River Counties
11-Weston EAST CO Repeater						Rrp Como to WEX CO SO
13-A/G 24					Air to Ground -	
14-A/G 35	-				Air to Ground -	
15-VMED28	-					ULANCE W/I GPC ZONE
16-AIR GUARD	•				Emergency Air	Traffic
7-(grp13) WEX TAC	·				Tactical	
*IC or GPC may designate alterna	te repeater or re	quest a Po	ortable Repeater	for comm	and. This will be	based on location of fire.
** Stored at Hell Canyon fire cach	ne ***Stored at I	BKF Fire	Cache-BOTH n	eed to be	ordered through G	PC for the incident

Revised: February 02, 2021

Area 15

PREPLANNED DISPATCH CARD

I.A. Response Zone: Wall

Representative Raws: 392602 Pinnacles (Y Model)

DUTY OFFICER CONTACT Primary: <u>Wall District Duty Officer</u> Secondary: <u>Nebraska Forest Duty Officer</u>

			DISPATCH A	CTION E	ASED ON RESP	PONSE LEVEL
Resou	RESPONSE BI =			SE LEVEL 2 = 21-29	RESPONSE LEVEL 3 BI = 30+	
Engine(s) – Type 3, 4 or	:6	Respo	ond l	R	espond 2	Respond 3
ICT4		Respo	ond 1	R	spond 1	Respond 1
ICT3						Notify 1
SEAT(s)						Respond 2
SLAI(3)						Respond 2
Respond Resources	will proceed directly t	o the incident at	t the direction o	f the dispa	tchers.	
	n will be the responsib			1		
	Special Ins	tructions for D	ispatchers/Are	eas of Spe	cial Concern	
	Military Aircraft	from Ellaworth	AED conduct to		aiona in thia area	. Indian Creek is a proposed
Indian Creek	wilderness area.	nom Ensworu	APD conduct u	anning mi		. Indian Creek is a proposed
		e considered as	part of the resp	onse if loc	al county dispate	h center confirms they are
VFD'S	responding.		1		5 1	
Communications	IC may designate	an alternate co	mmand repeater	r if radio o	overage of other i	repeaters is inadequate.
Communications	TO may designate	an alternate eo	initialità repeatei	i ii iadio c	overage of other i	epeaters is madequate.
		Initial Attac	k Communicat	ions Plan		
CHANNEL (GR	P 7) RECE	VE CG	TRANSMI	T CO	r	DESCRIPTION
1-WALL REPEATER					*Command	
2-EAST WILLOW REF	DEATED				*Command	
3-WEST WILLOW KE	EATER				*Command	
4-EAST DIRECT					*Command	
9-NE TAC				Tactical		
10-R2 FIRE TAC				Tactical		
11-FIRE GROUND				Pennington	County Tactical	
12-VFIRE 22				Tactical	· · · · · · · · · · · · · · · · · · ·	
13-VFIRE 23				Tactical		
15-A/G 25				Air to Grou		
15-A/G 31			-			nd Secondary
*IC or GPC may design	ate Command Channe	el or request a P	ortable Repeate	r for comr	and. This will be	e based on location of fire.

#### Northern Great Plains Interagency Dispatch Center

PREPLANNED DISPATCH CARD

I.A. Response Zone: WIND CAVE

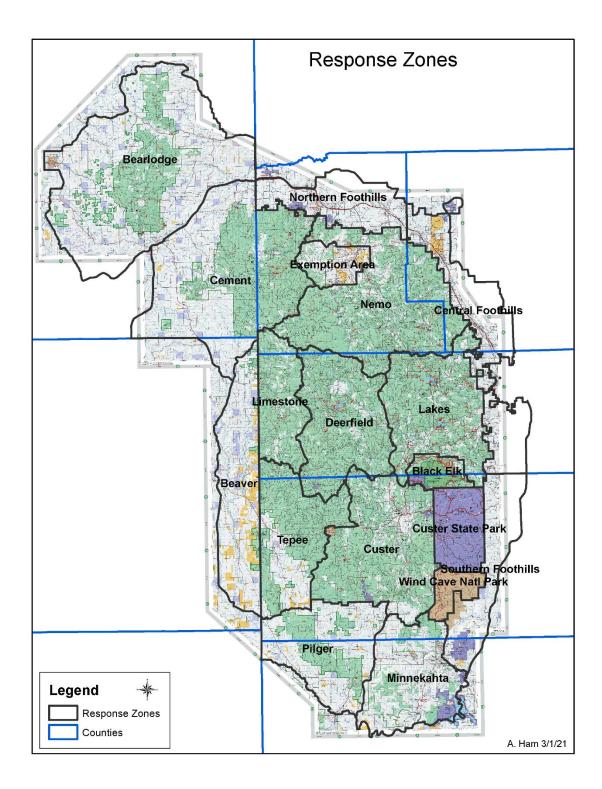
Representative RAWS: WICA Elk Mountain 393505 (Y Model)

DUTY OFFICER CONTACT Primary: <u>NGP Duty Officer</u> Secondary: <u>South Dakota State Duty Officer</u>

		DISPATCH ACTION BASED ON RESPONSE LEVEL						
Resources		RESPO	NSE LEVEL 1 BI = 0-23	R	ESPONSE LEVEL 2 BI = 24-31		RESPONSE LEVEL 3 BI = 32+	
Engine(s) – Type 3, 4 or 6			Respond 1		Respond 2	1	Respond 3	
			F					
Squad/Module							Respond 1	
ICT4			Respond		Respond			
7.00TA								
ICT3							Respond	
Water Tender							Respond 1	
IA Helicopter			Respond		Respond		Respond	
1. m. 1. ()							D 1	
Air Tanker(s)							Respond	
SEAT(S)							Respond	
Air Attack						-	Respond	
RespondResources will pNotifyNotification will	proceed directly t	to the inci	ident at the direction	on of th	e dispatchers.			
Notify INOtification will	i de trie responsi	onity of t	ne Duty Officer.					
	Special I	nstructio	ns for Dispatcher	·s/Area	s of Special Concern			
Practice MIST tactics on NPS	S land. Dozer use	e, off-roa	d driving, and reta	rdant us	se must be authorized by	y Park	Superintendent.	
Type 3 Water Tender availab								
NPS personnel use radio Gro WICA Addition – Location S		Wind Cav	e Boundary – Ger	neral Ke	whole area			
HIGHING DOUMDING		in and our	e Doulidaily out		Shore area			
		Initia	al Attack Commu	nicatio	ons Plan			
CHANNEL	RECEIVE	CG	TRANSMIT	CG	0.15		RIPTION	
SZ - Cicero					*Command: Commu	nicati	ons with GPC	
VFIRE 23	Ļ				Tactical - Primary			
VFIRE 22	ł				Tactical - Secondary		* crowe	
VFIRE 21 WICA Direct	ł				Tactical - Structure P			
WICA Direct WICA Rankin Repeater	ł				Tactical – Digital to I Tactical – Digital to I			
WICA Rankin Repeater WICA Elk Mtn Repeater	ł				Tactical – Digital to I Tactical – Digital to I			
A/G 24	ł				Air to Ground – Prim	orv	14	
A/G 24 A/G 35	ł				Air to Ground – Alter			
VMED 28	ł				A/G AIR AMBULA			
and the constraints of the first	t							
*IC or GPC may designate	alternate repeate	r or reque	st a Portable Repe	ater for	command. This will be	base	d on location of fire	
D 1 L 1 00 0								

Revised: February 02, 2021,

# G. GPC Initial Attack Area Fire Response Zones





# APPENDIX G-PRESCRIBED BURN APPROVAL PLAN

# Prescribed Burn Approval Act of 2016 (USFS)

## Introduction

Beginning in 2016, prescribed fires on National Forest System (NFS) lands require additional approval at the Regional Forester level if the National Fire Danger Rating System (NFDRS) is indicating an extreme fire danger level (Prescribed Bum Approval Act of 2016 and Associated Interim Directive, File Code 5140, April 7, 2017).

This law prohibits the Secretary of Agriculture, acting through the Chief of the U.S. department of Agriculture's Forest Service, from authorizing a prescribed burn on National Forest System (NFS) lands if, for the county or contiguous county in which the land to be treated is located, the National Fire Danger Rating System (NFDRS) is indicating an extreme fire danger level. The Secretary may authorize the prescribed fire to be conducted if coordination with applicable state government and local fire officials has occurred. See USDA Forest Service Regional Office Prescribed Fire Authorization Worksheet at the end of this appendix.

This Interagency Fire Danger Operating plan outlines the analysis process used for the determination of the adjective fire danger rating to be used in the fulfillment of this law. This will apply to all counties covered within this Fire Danger Operating Plan (FDOP). For contiguous counties located outside of this FDOP planning area, The Forest Service will coordinate with adjoining third tier dispatch centers to access adjective ratings for those surrounding FDRA's. If a FDOP plan is not developed or utilized for the contiguous county(s), the Forest Service will use the adjective rating from WIMS to determine the adjective rating for the contiguous county(s). If any portion of those county(s) are reporting extreme adjective fire danger levels, the law applies and approval to ignite is elevated to the Regional Forester level.

## A. Adjective Fire Danger Ratings

In 1974, the Forest Service, Bureau of Land Management and state forestry organizations established a standard adjective description for five levels of fire-danger for use in public information releases and fire prevention signing. For this purpose, only fire danger is expressed using the adjective levels and color codes are described below.

The Adjective Fire Danger Rating will be used by agency personnel to inform the public of the current level of fire danger associated with a specific FDRA. The amount of interaction will depend on the magnitude of the adjective fire danger.

# B. Adjective Fire Danger Rating Determination

Great Plains Dispatch will determine the Adjective Fire Danger Rating. The actual determination of the daily adjective rating is based on the current or forecasted value of

a selected staffing index (i.e. ERC and ignition component [IC]) using the example tables below.

Fire Danger Rating and Color Code	DESCRIPTION
Low (L) (Green)	Fuels do not ignite readily from small firebrands although a more intense heat source, such as lightning, may start fires in duff or punky wood. Fires in open cured grasslands may burn freely a few hours after rain, but woods fires spread slowly by creeping or smoldering, and burn in irregular fingers. There is little danger of spotting.
Moderate (M) (Blue)	Fires can start from most accidental causes but, with the exception of lightning fires in some areas, the number of starts is generally low. Fires in open cured grasslands will burn briskly and spread rapidly on windy days. Timber fires spread slowly to moderately fast. The average fire is of moderate intensity, although heavy concentrations of fuel, especially draped fuel, may burn hot. Short-distance spotting may occur, but is not persistent. Fires are not likely to become serious and control is relatively easy.
High (H) (Yellow)	All fine dead fuels ignite readily and fires start easily from most causes. Unattended brush and campfires are likely to escape. Fires spread rapidly and short-distance spotting is common. High-intensity burning may develop on slopes or in concentrations of fine fuels. Fires may become serious and their control difficult unless they are attacked successfully while small.
Very High (VH) (Orange)	Fires start easily from all causes and, immediately after ignition, spread rapidly and increase quickly in intensity. Spot fires are a constant danger. Fires burning in light fuels may quickly develop high intensity characteristics such as long-distance spotting and fire whirlwinds when they burn into heavier fuels.
Extreme (E) (Red)	Fires start quickly, spread rapidly, and burn intensely. All fires are potentially serious. Development into high intensity burning will usually be faster and occur from smaller fires than in the very high fire danger class. Direct attack is rarely possible and may be dangerous except immediately after ignition. Fires that develop headway in heavy slash or in conifer stands may be unmanageable while the extreme burning condition lasts. Under these conditions the only effective and safe control action is on the flanks until the weather changes or the fuel supply lessens.

A. USFS Regional Office Prescribed Fire Authorization Worksheet



# USDA Forest Service Regional Office Prescribed Fire Authorization Worksheet

Region:		
Date:		
Submitted by:		
Telephone/Email:		
Approval	National Preparedness Level 4 or 5:	NFDRS is "Extreme":
<b>Required For:</b>		

Forest	Burn Unit ID	Unit Acres	Start/End Date	Personnel/Crews/Equipment To Implement Burn	Forecast NFDRS Rating
TOTALS					

Actual and Forecasted Fire Business, Fire Weather and Fire Behavior Conditions:

# Values and Risk/Benefit Assessment:

Coordination with Fed/State/Local Partners, Mitigation Measures, & Other Precautions:

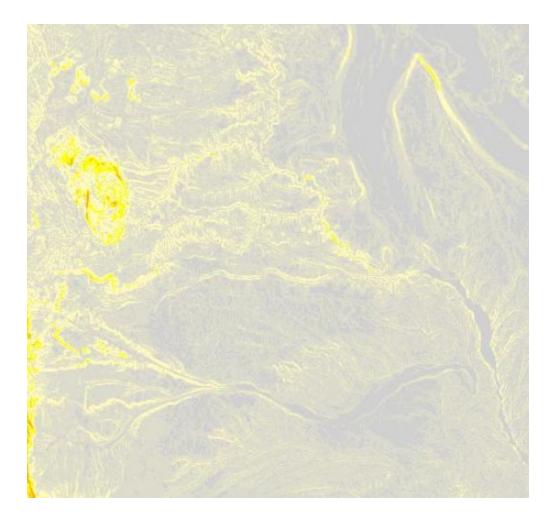
**Regional Office Use Only:** 

FAM Recommendation	Approve:	Deny:
FAM Notes:		
Regional Forester (or	Approve:	Deny:
Designee) Decision:		
Decision Rationale:		
Date/Time:	Signature:	

Note: Please use the following link to report all authorizations granted by the Regional Office to fulfil mandatory reporting requirements -

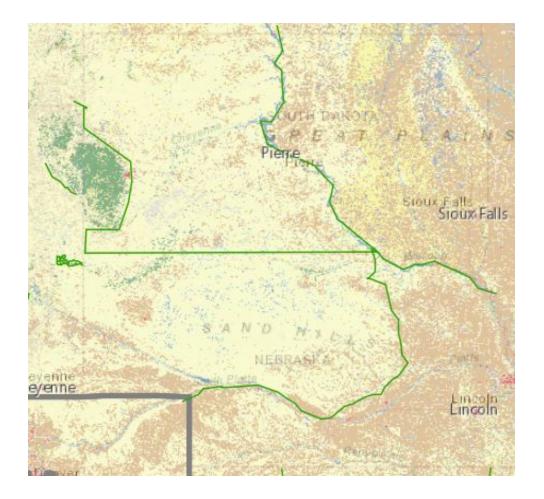
USDA FOREST SERVICE REGIONAL-LEVEL PRESCRIBED FIRE AUTHORIZATIONS

# **APPENDIX H-TOPOGRAPHY**





# **APPENDIX I-VEGETATION**







# APPENDIX J-CLIMATE

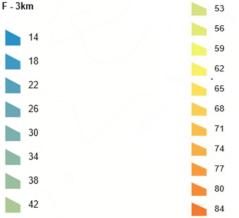
		-77
S		h
	L'Z	

 30yr Normal Annual Max Temperature 46

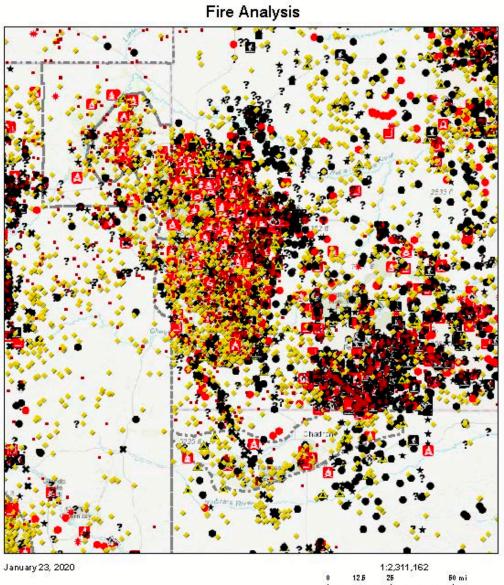
 Degrees F - PRIŞM - CONUS - 1981-2010
 50

 Normal Annual Maximum Temperature 50

 F - 3km
 53

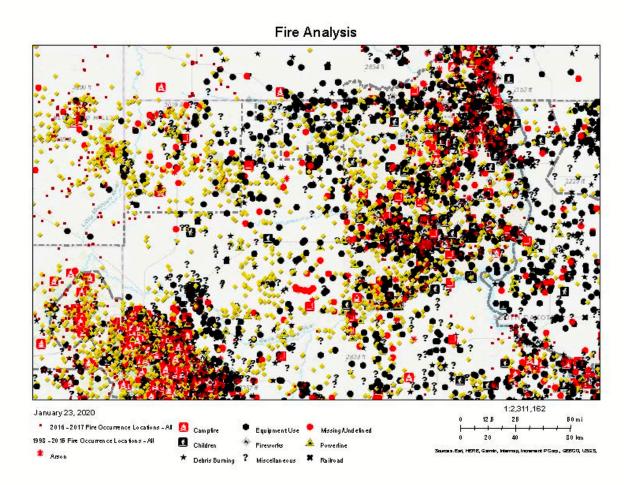


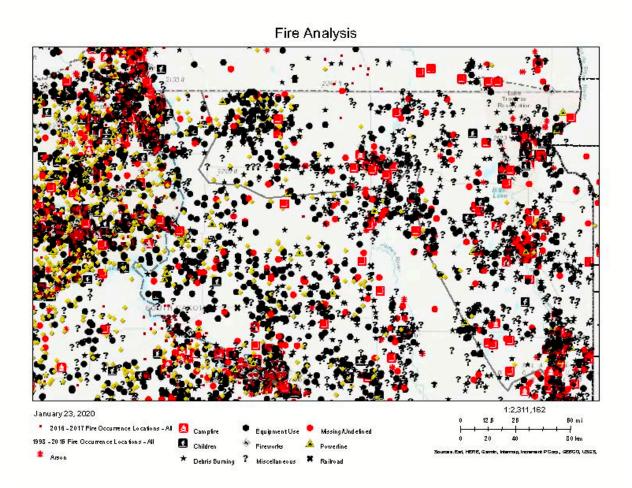
# **APPENDIX K-FIRE OCCURRENCE**

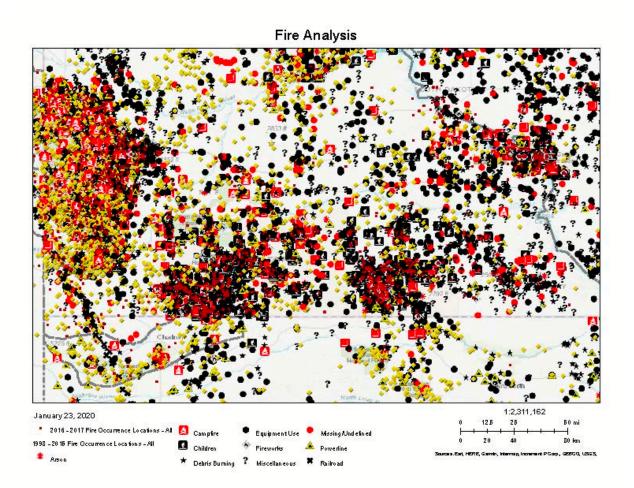


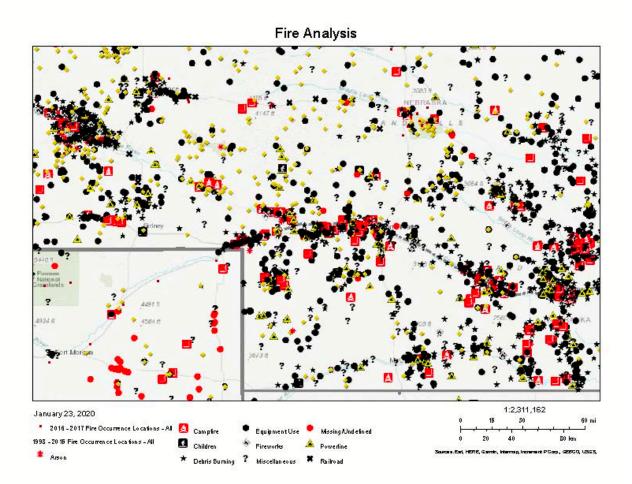
80 km

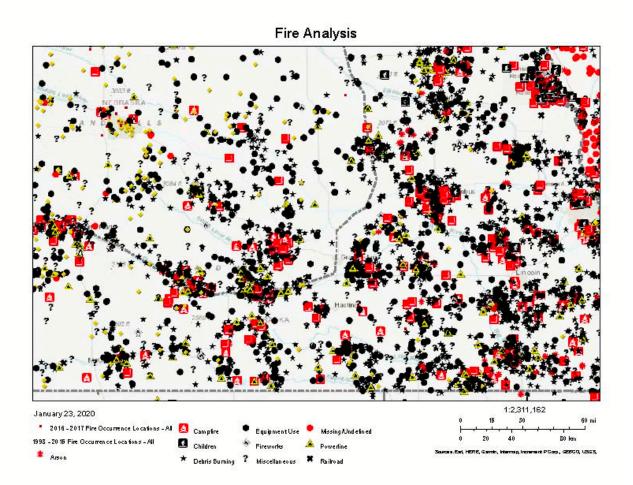
20



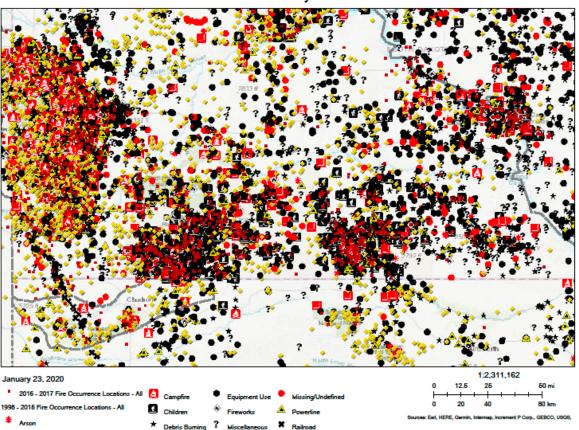












# APPENDIX L-FIREFAMILYPLUS ANALYSIS

FireFamilyPlus Analysis Parameters

Table 13: FireFamilyPlus Parameters

Large Fire		
Size (acres)	25	
Multiple Fire	5	
Day (fires/day)	5	

SIG: FDRA #1

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8
Weather Station Name	Nemo	Devils Tower	Bearlodge					
NFDRS Fuel Model	Y	Y	Y					
Data Years Used in Analysis	2000- 2019	2003-2019	1993- 2019					
Weight	1.00	1.00	1.00					

Large Fire		
Size (acres)	25	
Multiple Fire Day (fires/day)	5	

SIG: FDRA #2

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8
Weather Station Name	Custer	Baker Park	Rapid City West	Whitetail				
NFDRS Fuel Model	Y	Y	Y	Y				
Data Years Used in Analysis	2000- 2019	2001-2019	2014- 2019	2005- 2019				
Weight	1.00	1.00	1.00	1.00				

**Great Plains Zone** 

Large Fire		
Size (acres)	25	
Multiple Fire		
Day (fires/day)	5	

## SIG: FDRA #3

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8
Weather Station Name	Red Canyon	Elk Mountain	Custer State Park	Custer	Mt. Rushmore			
NFDRS Fuel Model	Y	Y	Y	Y	Y			
Data Years Used in Analysis	2000- 2019	2005-2019	2008- 2019	2000- 2019	2000- 2019			
Weight	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Large Fire Size (acres)	100	
Multiple Fire		-
Day (fires/day)	5	

SIG: FDRA #4

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8
Weather Station Name	Kings Canyon							
NFDRS Fuel Model	Y							
Data Years Used in Analysis	2000- 2019							
Weight	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Large Fire	
Size (acres)	25
Multiple Fire	
Day (fires/day)	5

## SIG: FDRA #5

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8	RAWS #9	RAWS #10	RAWS #11	RAWS #12
Weather Station Name	Indian Butte	Grand River	Tatanka Prairie	Bear Creek	Fort Pierre	Pinn- acles	Magpie Creek	Agate	Valen- tine	Bessey	Scotts Bluff	Porcu- pine
NFDRS Fuel Model	V	V	V	V	V	V	V	V	V	V	V	V
Data Years Used in Analysis	2005- 2017	2010- 2017	2008- 2017	1993- 2019	2003- 2019	2003- 2019	2001- 2019	2005- 2019	2002- 2017	1990- 2019	2012- 2019	1996- 2019
Weight	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Large Fire		
Size (acres)	25	
Multiple Fire Day (fires/day)	5	

## SIG: FDRA #6

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8
Weather Station Name	Huron	Lake Andes	Loess Hills TNC Broken	Desoto	Sand Lake	Red Station		
NFDRS Fuel Model	V	V	V	V	V	V		
Data Years Used in Analysis	2003- 2017	2003-2017	2004- 2017	2002- 2017	2004- 2017	2005- 2017		
Weight	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Large Fire		
Size (acres)	25	
Multiple Fire		
Day (fires/day)	5	
1		

## SIG: FDRA #7

Weather Station Number $\rightarrow$	RAWS #1	RAWS #2	RAWS #3	RAWS #4	RAWS #5	RAWS #6	RAWS #7	RAWS #8
Weather Station Name	Sand Lake	Marshall Co.	Big Stone NWR	Red Station				
NFDRS Fuel Model	V	V	V	V				
Data Years Used in Analysis	2004- 2017	2008-2017	2004- 2017	2005- 2017				
Weight	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# **Preparedness Levels**

		Preparedness Levels						
RAWS	ERC/BI	Level 1	Level 2	Level 3	Level 4	Level 5		
Nemo-392506	ERC	0-6	7-19	20-31	32-42	43+		
Red Canyon-395105	ERC	0-12	13-27	28-39	40-50	51+		
Red Canyon-395105	BI	0-19	20-23	24-27	28-32	33+		
Custer-393506	ERC	0-8	9-22	23-33	34-45	46+		
Whitetail-392607	ERC	0-14	15-26	27-36	37-42	43+		
Baker Park-392606	ERC	0-21	22-30	31-39	40-47	48+		
Rapid City West-392608	ERC	0-15	16-27	28-39	40-48	49+		
Custer State Park-393507	ERC	0-10	11-24	25-36	37-47	48+		
Bearlodge-480605	ERC	0-7	8-18	19-31	32-45	46+		
Agate-250105	BI	0-17	18-21	22-26	27-31	32+		
Kings Canyon-250203	BI	0-18	19-23	24-28	29-34	35+		

Valentine-250402	BI	0-16	17-20	21-24	25-29	30+
Mount Rushmore-392603	BI	0-15	16-21	22-25	26-29	30+
Devils Tower-480606	BI	0-17	18-20	21-23	24-27	28+
Indian Butte-390901	BI	0-9	10-21	22-29	30-37	37+
WICA Elk Mountain-	BI	0-19	20-24	25-29	30-34	35+
393505						
Fort Pierre-393801	BI	0-16	17-21	22-26	27-32	33+
Marshall Co390701	BI	0-5	6-14	15-21	22-28	29+
Sand Lake-390501	BI	0-8	9-18	19-26	27-33	33+
Tatanka Prairie-328501	BI	0-9	10-20	21-29	30-37	38+
Grand River-390301	BI	0-10	11-21	22-31	32-40	41+
Bear Creek-391201	BI	0-8	9-18	19-26	27-34	35+
Big Stone NWR-213501	BI	0-6	7-14	15-20	21-25	26+
Huron-393101	BI	0-9	10-17	18-24	25-30	31+
Red Station-216901	BI	0-6	7-15	16-20	21-26	27+
Lake Andes-395901	BI	0-7	8-16	17-23	24-30	31+
Loess Hills TNC Broken-	BI	0-9	10-15	16-20	21-24	25+
132207						
Desoto-135501	BI	0-7	8-14	15-18	19-23	24+
Scotts Bluff-251905	BI	0-16	17-20	21-24	25-28	29+
Bessey-252402	BI	0-16	17-20	21-24	25-28	29+
Pinnacles-392602	BI	0-17	18-23	24-27	28-33	34+
Crescent Lake-252101	BI	0-15	16-20	21-25	26-31	32+
Fort Pierre-393801	BI	0-16	17-21	22-26	27-32	33+
Porcupine-395202	BI	0-15	16-21	22-27	28-33	34+
Magpie-395601	BI	0-21	22-27	28-33	34-40	40+

# APPENDIX M-FIRE DANGER RATING AREA DETAILS

### 1. FDRA #1

• General Location:

This FDRA covers the northern Black Hills in South Dakota and Wyoming and includes Devil's Tower National Monument. It contains portions of Crook, Lawrence, Meade, and Pennington Counties. It includes Fire Weather Zones 318 in WY and 319 in SD.

• Vegetation:

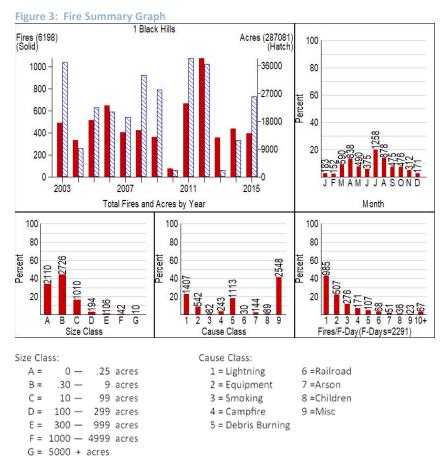
The predominant tree species in the Black Hills is ponderosa pine, although white spruce, aspen and other hardwood species occur, as do meadows and natural openings with grass, shrub and forb species. The forest is largely a mosaic of tree groups of different ages and heights. There are some natural openings or meadows of various sizes and shapes. At Devil's Tower National Monument the vegetation is predominately open & closed canopy ponderosa pine over 62% of the area. Along the floodplain of the Belle Fourche River and along stringers that follow tributaries of the river, there is deciduous woodland. The monument is 29% prairie. NFDRS fuel models V (grass), Y (timber), and some Z (slash/blowdown are representative of this FDRA.

• Climate:

This FDRA is characterized by NFDRS Climate Class 2: Sub-humid/ Savanna

• Topography:

The Northern Black Hills is characterized by steep to very steep side slopes, narrow valley bottoms and outcrops of granite. Spearfish Canyon consists of narrow canyon walls, which rise sharply from the stream and highway carved from the bottom of the canyon. The Bear Lodge Mountains are similar to the Northern Hills with less exposed rock outcrops. Situated in the Wyoming Black Hills, Devil's Tower National Monument is a high monolith of igneous rock intruding through sedimentary layers of sandstone and shale. The Belle Fourche River meanders through the southeast corner of the monument.



## • FDRA #1 – Fire Summary Graph

#### 2. FDRA #2

General Location

This FDRA covers the central Black Hills, Mount Rushmore National Memorial, and the northern portion of Custer State Park in South Dakota. I contains portions of Custer, Pennington, Lawrence Counties, and a small portion of NE Weston County Wyoming. It includes Fire Weather Zone 320 and a small portion of 322.

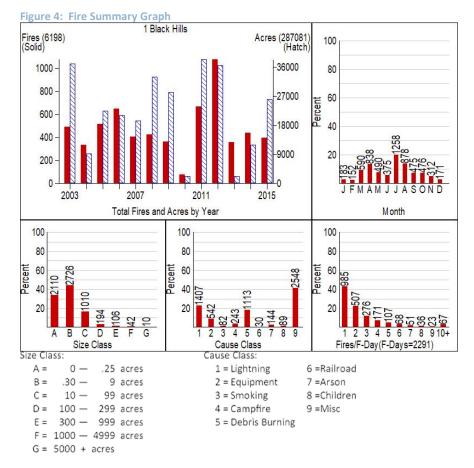
• Vegetation:

The predominant tree species is ponderosa pine, although white spruce, aspen and other hardwood species occur, as do meadows and natural openings with grass, shrub and forb species. The forest is largely a mosaic of tree groups of different ages and heights. Mount Rushmore National Memorial contains mostly NFDRS Fuel Model Y (timber), Western Long Needled Pine which may be characterized as closed stands of Ponderosa Pine. NFDRS fuel models V (grass), Y (timber), and some Z (slash/blowdown) are most representative of this FDRA. • Climate:

This FDRA is characterized by NFDRS Climate Class 2: Sub-humid/ Savanna.

• Topography:

The central Black Hills is characterized by steep to very steep side slopes, narrow valley bottoms and outcrops of granite. The valley bottoms generally are less than 300 feet in width in the Black Elk Wilderness area. Mount Rushmore National Memorial has steep slopes, sheer cliff faces and large rock outcroppings typical of the Central Black Hills.



• FDRA #2 – Fire Summary Graph

- 3. FDRA #3
  - General Location:

This FDRA covers the southern Black Hills, Wind Cave National Park, Jewel Cave National Monument, and the southern portion of Custer State Park in South Dakota. It contains portions of Custer and Fall River Counties, and a small portion of NE Weston County Wyoming. It includes Fire Weather Zone 321 and the northern portion of 322.

• Vegetation:

The predominant tree species is ponderosa pine, although white spruce, aspen and other hardwood species occur, as do meadows and natural openings with grass, shrub and forb species. The forest is largely a mosaic of tree groups of different ages and heights. Wind Cave National Park consists of three major fuel types with approximately 63% prairie grassland, 29% forest, and 7% shrub lands that can be classified as NFDRS Fuel Models V (grasses), Y (timber) and Z (slash/blowdown).

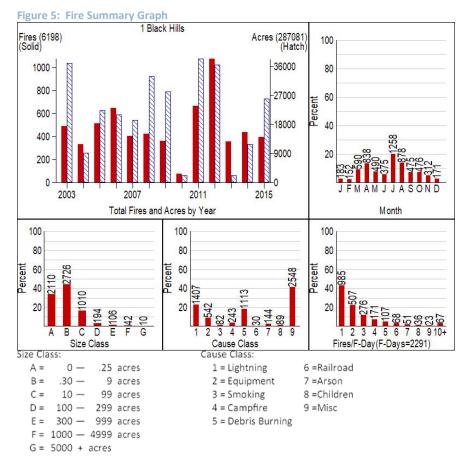
Jewel Cave National Monument was affected by a major wildland fire in August and September of 2000. The Jasper Fire burned approximately 95% of the Monument causing much of the forest habitat to be returned to an early successional stage of growth. This FDRA can be best characterized by NFDRS fuel models V (grass), Y (timber), and some Z (slash/blowdown).

• Climate:

This FDRA is characterized by NFDRS Climate Class 2: Sub-humid/ Savanna.

• Topography:

The southern Black Hills are dominated by open grasslands and areas of woody vegetation. Deep sandstone canyons run through the area and surface water is limited. In Wind Cave National Park the topography varies from mountainous to flat plains but is predominantly rolling hills. Elevations range from a low of 3,560 feet to a high of 5,013 feet (Rankin Ridge). At Jewel Cave National Monument, two canyons dominate the surface topography. Hell Canyon is on the west and Lithograph Canyon is on the southeast with the junction of the two at the south boundary of the Monument. Elevation ranges from 5,090' to 5,880'.



### • FDRA #3 – Fire Summary Graph

- 4. FDRA #4
  - General Location:

This FDRA is located in northwestern Nebraska and includes the Nebraska National Forest and Fort Robinson State Park. It includes fire weather zones 311 and 204.

• Vegetation:

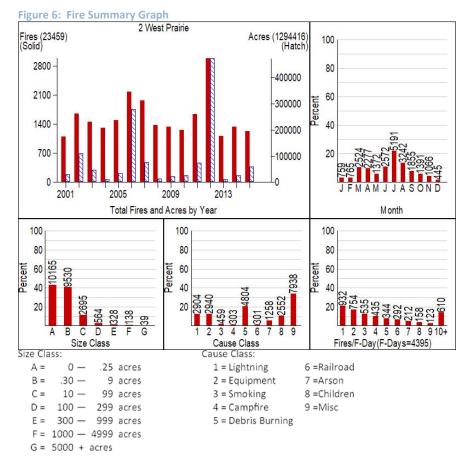
The predominant vegetation of Oglala National Grassland, the Soldier Creek Wilderness, and other non-forested areas of the zone is perennial grasses and forbs (NFDRS fuel model V). The predominant vegetation of the Pine Ridge area is open ponderosa pine stands with a perennial grasses and forbs (NFDRS fuel model Y).

• Climate:

This FDRA is characterized by NFDRS Climate Class 1 – Arid-Desert / Steppe and Climate Class 2 – Sub-humid/ Savanna.

• Topography:

The topography of the Oglala National Grasslands is a blend of rolling plains and badlands, including highly eroded benches, clay hardpan, and bluffs Elevations range from 3,600 feet above sea level near Rock Butte Reservoir to 4,700 feet at Eagle Eye Rock, about two miles south of Hudson-Meng. The Pine Ridge portion of the zone is an escarpment of sandstone bluffs that extends just beyond the border in Wyoming, through northwestern Nebraska into southwestern South Dakota. Elevations range between 3,440 feet at Bordeaux Creek to 4,600 feet in the Deadman Creek area.



• FDRA #4 – Fire Summary Graph

### 5. FDRA #5

• General Location:

This FDRA covers western SD including Custer County Plains, the eastern half of Pennington County, most of Meade, Fall River, Pine Ridge, Badlands National Park, Bennet, Haakon, Butte, Harding, Perkins, Ziebach, Corson, Dewey, Mellette, Stanley, Lyman, Gregory, Jones, Todd, and Tripp Counties, and Sioux County in ND. It also covers western Nebraska, including the counties of Sioux, portions of Dawes, Box Butte, Scottsbluff, Banner, Kimball, Morrill, Cheyenne, Deuel, Garden, Sheridan, Cherry, Grant, Hooker, Thomas, Arthur, McPherson, northern Keith, Logan, Blaine, Loup, Custer, northeastern Dawson, Buffalo, NW Hail, Sherman, Howard, Valley, Greeley, Garflield, Wheeler, Brown, Rock, Holt, western Boone and Nance. It contains Agate Fossil Beds National Monument, Scotts Bluff National Monument, Samuel McKelvie National Forest, Sand Hills, Crescent Lake, North Platte, Fort Niobrara, and Valentine National Wildlife Refuges in NE and Lake Andes, Sand Lake, Waubay, and Lacreek National Wildlife Refuges in SD. It also contains Standing Rock, Cheyenne River, Pine Ridge, Rosebud, and a portion of the Crow Creek Reservation, within Wyoming this FDRA encompasses the non-forested portions of Crook County. It includes fire weather zones 003, 015, 033, 045, 048, 050, 133, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332,3 33, 334, 335, 267, and 268 in SD and 311, 312, 313, 204, 206, 208, 209, 39, 40, 46, 47, 60-62 in NE.

• Vegetation:

The predominant vegetation in the zone is perennial grasses and forbs (NFDRS fuel models V and W). Woody plant communities occur among the canyons of the Badlands wall, and along springs, streams, stock ponds, and geologic slumps. These woody draws are best characterized by NFDRS fuel model Y. The Agate Fossil Beds National Monument is comprised of perennial grasses and forbs. The fuels at Scotts Bluff National Monument are characterized by perennial grasses and forbs (NFDRS fuel model V). There are areas that contain woody vegetation at the summit of Scotts Bluff/South Bluff, along the North Platte River floodplain and in woody draws which may be represented as NFDRS fuel models Y and W.

• Climate:

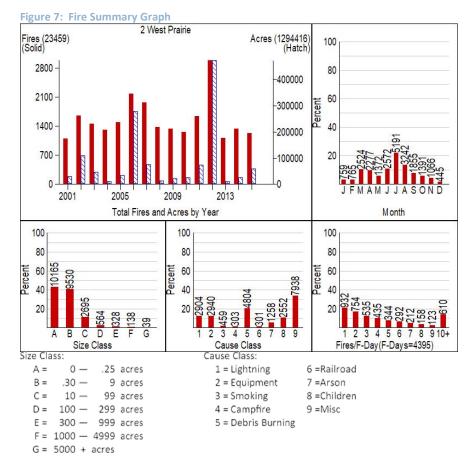
This FDRA is characterized by NFDRS Climate Class 1: Arid-Desert / Steppe and Climate Class 2 – Sub-humid/ Savanna.

• Topography:

The zone is a blend of rolling hills and plains, rugged badlands formations, river breaks, and flat bottomlands that drain into the Cheyenne River and its tributaries. Elevations range from about 2,450 feet along the Cheyenne River

to 4,200 feet near the former Black Hills Army Ordnance Depot - the highest point in the zone. The topography of the zone consists of rolling grassland above the "Wall" badlands landscape feature. This landscape features drops vertically an average of about 600 feet. Badlands features and flat clay hardpan with sparse vegetation are generally located below the "Wall". The Indian Creek area consists of very steep juniper breaks with large intermingled badland formations. Elevations range from approximately 2,200 feet along the White River to 3,300 feet near Pinnacles Ranger station at Badlands National Park. The topography of Agate Fossil Beds National Monument consists of rocky bluffs that line both the northern and southern edges of the park with the Niobrara River running through the center. Valleys with rolling grasslands as well as small canyons can be found in the park. The elevations within the park range from 4,380 feet at the Niobrara River on the eastern boundary, to a high of 4,560 feet at the top of the fossil hills. Scottsbluff National Monument has a massive promontory rising steeply about 800 feet above the North Platte River to an elevation of 4,649 feet. The topography of the Oglala National Grasslands is a blend of rolling plains and badlands, including highly eroded benches, clay hardpan, and bluffs Elevations range from 3,600 feet above sea level near Rock Butte Reservoir to 4,700 feet at Eagle Eye Rock, about two miles south of Hudson-Meng.

The vegetation component within the exterior boundaries of BIA-Great Plains Indian Reservations varies from tall grass prairie/mixed hardwood in northeastern Nebraska and eastern South Dakota to short grass prairie/mixed hardwood and conifer in western South Dakota. Generally, the predominant native/desirable grasses in the eastern region are Indian grass, big bluestem and switchgrass, while native/desirables in the west are western wheat, blue grama and several subspecies of needle grass. Invader species are in abundance in both eastern and western systems, and are composed primarily of smooth brome, cheat grass and crested wheatgrass. Although the invaders are encroaching upon native prairie, some value is still attributed to each of them and they are managed accordingly. When combined with other wetland species such as cattails, canary reed grass, phragmites and softwoods along with the upland agricultural vegetation component and forested riparian zones, Nebraska and Dakota Indian Reservations are composed of a nearly continuous blanket of fine flashy fuel.



### • FDRA #5 – Fire Summary Graph

- 6. FDRA #6
  - General Location:

This FDRA covers a portions of eastern South Dakota as well as eastern and southern Nebraska. It includes the eastern part of the Crow Creek, Yankton, and Omaha Reservations. It stretches from Cambell County south along the eastern side of the Missouri River to Charles Mix, east to Union, north to Minneahaha up to Spink and across Faulk and up through Walworth in SD. It covers a portion of Keith, Lincoln, Dawson, Hall, Hamilton, Holt, Boyd, Howard, Greeley, Wheeler, and York Counties as well as Chase, Hayes, Dundy, Hitchcock, Frontier, Red Willow, Gosper, Furnas, Harlan, Phelps, Kearney, Franklin, Adams, Webster, Nuckolls, Clay, Thayer, Fillmore, Saline, Gage, Jefferson, Johnson, Pawnee, Nemaha, Richardson, Otoe, Lancaster, Cass, Seward, Butler, Saunders, Douglas, Colfax, Dodge, Washington, Burt, Cuming, Stanton, Thurston, Wayne, Cedar, Dixon, Dakota, Merrick, Nance, Boone, Antelope, Knox, Pierce, Madison in NE. This area includes the FWS Rainwater Basin Wetland Management District (WMD). A WMD consists of small tracts of fee-title owned lands known as Waterfowl Production Areas (WPAs). It includes portions of fire weather zones 004, 005, 009, 010, 018, 019, 039, 054, 055, 056, and all of 016, 017, 025, 034, 035, 036, 037, 038, 051, 052, 053, 057-071 in SD and 11, 12, 15, 249, 16, 17, 18, 30- 34, 41-45, 48, 49, 50, 51, 52, 53, 60, 62-68, 72-92, and 210 in NE.

• Vegetation:

The majority of fuels within this FDRA of NFDRS fuel model V, short intermixed perennial grasses semiarid grasses with isolated scatterings of semiarid to arid drought tolerant plant species. In the Rainwater Basin there are also forbs increasing in height and density as you move east across the district. The fuel bed is very fragmented in portions of this FDRA with much of the area classified as Agriculture Lands in Landfire. These areas are capable of supporting active fire spread during certain times of the year depending on the crop and farming practice utilized.

The area including FWZs 057, 058, 063, and 064 in SD can be characterized by dominance of the "Missouri Coteau" and the Missouri River Valley Corridor. The majority of fuels on this weather zone consist of short intermixed perennial humid grasses intermixed with isolated pockets of native tall grass prairie (fuel model V), with intermixed semiarid to arid drought tolerant plant species along the Missouri River corridor. The shaded and moister drainages and river bottoms are composed of fuel stringers consisting of short grass and Rocky Mountain Juniper and Riparian hardwood forest (fuel model Y).

The area near FWZs 038, 053, 054, 059, 060, 061 is predominately composed of the James River Basin. The basin runs North to South and is composed of cattails, phragmities, reed canary grass, sedges and portions of the "Big Three Warm Season Grasses (fuel model V). District lands are fragmented amongst the prairie potholes and ever present farm land.

Weather Zones 039, 040, 055, 056, and 062 consist of fertile agricultural land that transforms into large tracts of pastures, with intermixed native hardwood species as eastern species intermix more with western species. Fuels consist mostly of Fuel Model V with a mosaic scattering of Fuel model Y (Hardwood Litter) as you gradually climb the extending "Prairie Coteau Ridge" and Turkey Ridge.

FWZs 065, 066, 067, 068, 069, 070, and 071 are composed of the merging of the Missouri river corridor and prairie Coteau ridge. Fuels consist primarily of intermixed humid and semi humid grasses (fuel model V). District lands are heavily intermixed among farm lands with large grazing pastures. Tundra and short needle litter dominate many of the low lying drainages.

The area of FWZs 034, 035, 036, 037, 051 is characterized by dominance of the "Missouri Coteau" and the Missouri River Valley Corridor. The majority of fuels on this weather zone consist of short intermixed perennial grasses

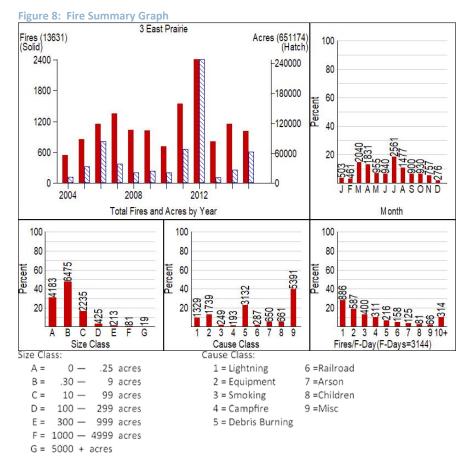
semiarid grasses with isolated scatterings of semiarid to arid drought tolerant plant species (fuel models V and W). The difference between this zone and zone 255 is the more humid class grasses are found in Zone 255.

• Climate:

This FDRA is a combination of NFDRS Climate Class 1: Arid/ Desert and Climate Class 2: Sub-humid/ Savanna.

• Topography:

The Rainwater Basin is a 4,200 mi. region of shallow lakes, marshes and other wetlands located mostly south of the Platte River in south-central Nebraska. These oval basins occur mostly south of the Platte River on the loess-covered landscape of Nebraska. Elevation in the Rainwater Basin drops from around 3,000 feet in the west to 1,600 feet in the east. In the majority of the rest of the FDRA elevations range from 1,200 to 3,600 feet. This FDRA overlaps 4 physiographic regions Great Plains Province, Central Lowlands Province, James River Basin Province, and Lake Dakota Plain Province. Terrain is rolling hills to flat.



• FDRA #6 – Fire Summary Graph

### 7. FDRA #7

• General Location:

This FDRA is located in the northeastern corner of South Dakota. It includes the Lake Traverse Reservation, Sand Lake National Wildlife Refuge and Waubay National Wildlife Refuge. It covers a portion of Campbell, Walworth, Edmunds, McPherson, Brown, Spink, Clark, Kingsbury, Lake, and Moody Counties as well as Brookings, Hamlin, Deuel, Codington, Grant, Day, Roberts, and Marshall. It includes portions of fire weather zones 004, 006, 009, 010, 018, 019, 039, 055, 056, and all of 005, 007, 008, 011, 020, 021, 022, 023, 040.

• Vegetation:

The predominant vegetation is perennial grasses and forbs (NFDRS fuel model V and W.) The vegetation component found on the Great Plains Fire Zone fee title lands (Waterfowl Production Areas (WPA's,) and National Wildlife Refuges) transitions from the east to west. EWZ's 008 and 021 are best represented by NEDRS Evel Model V. Native and

FWZ's 008 and 021 are best represented by NFDRS Fuel Model V. Native and Restored tall grass prairie tracts of land are like postage stamp seas of grass, interspersed amongst valley farm land. Dominant vegetation found here can be represented by the "Big Three" warm season native grasses: Big Blue Stem, Indian, and Switch grasses. Encroaching on their environment are the cool season exotics: Kentucky bluegrass and smooth brome grass. In FWZ's 007, 011, 019, 020, 022, 023, 039, 040, 055, and 056 vegetation and fuels found on the Great Plains Fire Zone Fee Title Land doesn't change as much as the surrounding land use. Fertile agricultural land transforms into large tracts of luscious pastures. It consists of a transition from sawgrass into western perennial grass with intermixed Hardwood Litter as you climb the "Prairie Coteau." Dominant vegetation on-top of the Prairie Coteau consist of Big Three Warm Season Grasses and encroaching cool season exotics. In FWZ's 006, and 018 fuels and vegetation remain consistent with the previous FWZ. The one noticeable change comes with the large drainage that is prominent in this FWZ. This drainage is known as the James River Basin. The Basin runs north to south. The majority of the Basin in composed of cattails, phragmities, reed canary grass, sedges and portions of the "Big Three Warm Season Grasses. District WPA lands become a little more segmented amongst the ever present farm land.

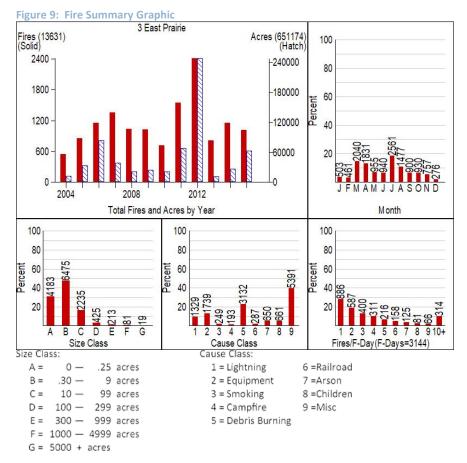
FWZ's 004, 005, 009, 010 can be characterized by dominance of the "Missouri Coteau." The majority of fuels on this Coteau are similar to that of the Prairie Coteau. The dominant fuel becomes a short grass with small portions of wetland edges. As with the Prairie Coteau, the district lands are surrounded by large tracts of Western Perennial Grasses.

• Climate:

This FDRA is a combination of NFDRS Climate Class 1: Arid/ Desert and Climate Class 2: Sub-humid/ Savanna.

• Topography:

As the FWZ transitions from 273 to 272 an elevation change from 900 ft. to 2010 ft. occurs. The transition to FWZ 271 includes an elevation change from 2010 ft. to 1286 ft. at Sand Lake NWR. Where FWZ 271 transitions to 269 the elevation rises to 2030 ft. with some of the highest points at 2550 ft.



• FDRA #7 – Fire Summary Graph

# APPENDIX N-POCKET CARDS

