

SECTION I. GENERAL BURN UNIT INFORMATION

Owner / Operator: Howard Johnson

Burn Unit: South 80

Address: 1234 Hardspot Drive, Rockridge SD

Phone No: 555-1234

E-mail: _____

Cell No: 555-1234

Legal Description: SE 1/4 Section 4-111N-62W

County: Beadle

Acres in Burn Unit: 85 acres

Land Use of Burn Unit: Range, Pasture, CRP, Crop, Other (describe): CRP

When burn unit includes multiple landowners, record the primary owner above and list other owners on an attachment.

SECTION II. OBJECTIVE OF BURN (Select all that apply)

- | | |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <input type="checkbox"/> Reduce Eastern Red Cedar | <input checked="" type="checkbox"/> Control of invasive grasses, forbs, and/or shrubs |
| <input checked="" type="checkbox"/> Stimulate Desirable Herbaceous Species | <input checked="" type="checkbox"/> Remove Litter |
| <input checked="" type="checkbox"/> Improve Wildlife Habitat | <input type="checkbox"/> Reduce Wildfire Hazard |
| <input type="checkbox"/> Improve Grazing Distribution | <input type="checkbox"/> Other-list _____ |

SECTION III. DESCRIPTION OF BURN UNIT

SECTION III, PART A. Woody Plant Species Present (List species, size and estimated canopy cover. If none, write in none):

Woody plants are in shelterbelts and wet areas of the burn unit. All trees will be protected by firebreaks.

SECTION III, PART B. Predominant herbaceous vegetation types present and likely growth-stage at proposed burn date (List type - cool season, warm season, forbs - height):

Herbaceous vegetation includes Big Bluestem, Indiangrass, Switchgrass and other warm and cool season grass species. Max height of the grass species reach up to 3 to 4 feet tall.

SECTION III, PART C. Fuel Load (Planned):

Determine a minimum fuel load to meet identified objective. Grazing deferment may be necessary.

Fine Fuel pounds per acre planned 3000 pounds/ac

* Normally at least one third of the fine fuel complex must be dead or cured in order to have an adequate ratio of live to dead material to carry a fire.

SECTION IV. FIRE PLAN - PREPARATION

SECTION IV PART A. Resource Maps: Attach copies of the following maps and information. Check off to indicate inclusion as determined by planner.

- Topographic Map (required if slopes exceed 5%)
- Burn Unit Map (Include North arrow, landowner and/or burn unit name, areas needing protection-see Section IV E-G, holding-line locations and type, firebreaks, firing sequence, water sources, location of equipment, safety zones, and surrounding land use and access)
- A map of the surrounding area, up to 3 miles out depending on anticipated smoke behavior based on prescription.(example: plat map)

SECTION IV, PART B. Existing Surrounding Land use: Describe land use adjacent to burn unit (all sides of unit) and indicate direction from burn unit.

	North	South	East	West
Grassland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cropland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Wildland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Developed Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION IV, PART C. Burn Unit History: Describe General Management over the past 5 years (i.e., grazed, rested, CRP, etc.) Include years since last grazing, haying, mowing or burning.

This is old CRP that has not been burned in recent years.

SECTION IV, PART D. Description of Planned Firebreaks or Fuel Breaks: Describe the type, length and width of firebreak and actions to be taken to create firebreak. (*Show on Burn Map*). Types of fire breaks include but are not limited to: mowed, grazed, disked, bare soil, road, wet line, and water.

Location of Firebreak or Fuel break	Type of Fire Break or Fuel Break	Min Width
All sides of the burn unit	mowed grass	30 Ft
Along all sides of the protected areas within unit	mowed grass with wet lines	30 Ft
Additional Comments about Planned Firebreaks and/or Fuel breaks		

SECTION IV, PART E. Areas needing Pre-Burn Protection within the burn unit: Show areas on Burn Map (Check items identified in the planning process and indicate date protection completed).

Area or Structure		Describe Protection Needed	Date Completed
<input checked="" type="checkbox"/>	Houses, Barns and Other Buildings	mowed fire break	9/16/2016
<input type="checkbox"/>	Feeders, Pens, Corrals		
<input type="checkbox"/>	Watering Systems		
<input type="checkbox"/>	Utility Poles, Power Lines, Other Hazards		
<input checked="" type="checkbox"/>	Fences	mowed fire break and wet line	9/16/2016
<input type="checkbox"/>	Equipment		
<input type="checkbox"/>	Hay/Feed		
<input type="checkbox"/>	Hunting Facilities		
<input type="checkbox"/>	Wind Turbines		
<input type="checkbox"/>	Oil or Gas Structures		
<input checked="" type="checkbox"/>	Desirable Wooded Areas	mowed fire break and wet line	9/16/2016
<input type="checkbox"/>	Special Wildlife Habitats		
<input type="checkbox"/>	Lakes, Streams, Wetlands		
<input type="checkbox"/>	Critically Eroding Areas		
<input type="checkbox"/>	Other - Describe (ex. rock piles)		
<input checked="" type="checkbox"/>	Threatened and Endangered Species, Cultural Resources are adequately evaluated and addressed	None identified	9/16/2016

SECTION IV, PART F. Describe access points to unit and escape routes: Include location of gates, stream crossings, open access, etc. Show locations on Burn Map . Give careful consideration of smoke direction and impacts of smoke on nearby structures, dwellings, and escape routes.

Access from north is through the farmstead and from the south side a gate to the field is located in the SE corner of the field.

SECTION IV, PART G. Residences and Businesses near the Burn Unit and those that may be impacted by smoke: Contact all before planned burn date.

Direction from Unit	Name	Physical Address	Phone Number
1.5 miles north	Nograss Ranch	13567 Hard Luck Road, Rockridge SD	555-2345

SECTION IV, PART H. Highways or other right-of-way: List all with the potential to be impacted by prescribed burn and smoke.

Example: US highway 6 - 2 miles south of unit

- 1 US HWY 37 - 3 miles to the east of the unit
- 2 County road 203 and 379 are adjacent to the unit
- 3 _____
- 4 _____
- 5 _____

SECTION IV, PART I. SAFETY PERSONNEL AND OTHER AGENCIES: List name and phone number at time of plan development; record date notified as notification occurs. DIAL 911 IN CASE OF EMERGENCY, FOLLOW ALL LOCAL PERMITS AND/OR PERMISSION THAT MAY NEED TO BE OBTAINED.

Name		Phone Number	Date Notified
FIRE DEPARTMENTS			
Primary Department:	Rockridge Volunteer Fire Dept	555-3456	9/16/2019
Chief (Name):	Bart Johnson		

SHERIFF'S DEPARTMENT			
Name of Department:	Rockridge Sheriffs Dept	555-7468	9/16/2019
Sheriff's Name:	Bart Johnson		

UTILITY COMPANIES: If not present fill in N/A			
A.	N/A		
B.			
C.			

OIL AND GAS COMPANIES (INCLUDING GAS PIPELINES): If not present fill in N/A			
A.	N/A		
B.			
C.			

OTHER INCLUDING WIND ENERGY COMPANIES: If not present fill in N/A			
A.	N/A		
B.			
C.			

SECTION V - FIRE PLAN - IMPLEMENTATION OF PRESCRIBED BURN

SECTION V, PART A. ENVIRONMENTAL CONDITIONS NEEDED TO ACCOMPLISH OBJECTIVES

1. Planned Date Range for Burn: 4/1/2017 through 4/30/2017
(Time of year and/or stage of plant growth that will best meet prescribed burn objectives)
2. List pertinent fuel conditions such as likely green-up at proposed date, type of fuels (cool or warm season grass), live fuel moisture, 10 hour fuel , etc. that could impact success of burn.
Cool season invasive grasses green up will be in 3-4 leaf stage and ready to burn.
3. Planned weather conditions for burn site

	Planned
a. Air Temperature	<u>40-65</u>
b. Relative Humidity %	<u>20-30</u>
c. Wind Speed	<u>5-15</u>
d. Acceptable Wind Direction	<u>N, NW, S, SE</u>

May reference NOAA at: <https://www.weather.gov/fsd/fire>

SECTION V PART B. FIRING SEQUENCE AND/OR IGNITION METHOD

Describe Firing Sequence and/or Ignition Method (backing fire, flank fire, head fire, strip fire, etc.) below. Indicate on burn map . If additional room is needed, attach description to the back of this form.

Fire lines shall be secured from the down-wind corner towards the upwind end utilizing backing, flanking , & strip head fires to meet the resource needs and to ensure safe and secure control lines. Final burn sequence shall be determined by the burn boss on the day of the burn after the weather factors have been confirmed and will inform fire personnel of the patterns at the beginning of the briefing. To speed fire operations, strip or spot strip fires may be fired through the center to increase the consumption of materials and create a varied fire pattern.

SECTION V, PART C. EQUIPMENT NEEDS

TYPE OF EQUIPMENT	NUMBER AND/OR GALLONS NEEDED	CHECK WHEN ACQUIRED	ADDITIONAL NOTES
Engines/Pumpers/Tenders (Number and size in gallons)	0	<input type="checkbox"/>	
Type VI Fire Fighting Equip (Number and size in gallons)	1/250	<input type="checkbox"/>	
ATVs/UTVs	3	<input type="checkbox"/>	
ATVs/UTVs w/Sprayers (Number and size in gallons)	1,1 50,100	<input type="checkbox"/>	
Drip Torches	2	<input type="checkbox"/>	
Torch Fuel (gallons)	6 gallons	<input checked="" type="checkbox"/>	
Backpack Sprayers	4	<input type="checkbox"/>	
Fire-Weather Kit, i.e. Kestrel	2	<input type="checkbox"/>	
2-Way Radios	1/crew member	<input type="checkbox"/>	
Highway Flags	N/A	<input type="checkbox"/>	
Flappers	2	<input type="checkbox"/>	
Rakes	4	<input type="checkbox"/>	
Chainsaws	N/A	<input type="checkbox"/>	
Shovels	2	<input type="checkbox"/>	
Drinking Water	2 cases bottled	<input type="checkbox"/>	
Matches/Lighter	1/person	<input type="checkbox"/>	
Burn Unit Maps (recommend all personnel have a map)	1/person	<input type="checkbox"/>	
Leaf Blower		<input type="checkbox"/>	
Wetting Agent		<input type="checkbox"/>	
Other (List):			
		<input type="checkbox"/>	
		<input type="checkbox"/>	

SECTION V, PART D. PERSONNEL REQUIRED. DEVELOP INDIVIDUAL CREW ASSIGNMENTS BEFORE BURN.

1. NUMBER OF PEOPLE NEEDED TO CONDUCT BURN: 7

2. NAME OF BURN BOSS: Howard Johnson

3. PERSONNEL TO CONSIDER FOR BURN:

POSITION	NUMBER	POSITION	NUMBER
a. Engine/Pumper Drivers	<u> </u>	e. Lead ATV/UTV Patrol	<u>1</u>
b. Hose Operators	<u> </u>	f. 2 nd ATV/UTV Patrol	<u>2</u>
c. Igniters	<u>2</u>	g. Weather/Lookout	<u>1</u>
d. Hand Tool Operators	<u> </u>	h. Spotters	<u> </u>
		i. Other (Specify Job)	<u> </u>

Develop a list of personnel, phone numbers, and e-mail contact information for the required positions before planned burn, see Example Burn Crew Roster. Have list available for pre-burn briefing and ensure that assigned personnel are familiar with their assigned job duties. Attach a copy of the personnel roster to the burn plan after completion of the prescribed burn.

SECTION V, PART E. MOP-UP PLAN

MOP UP STANDARDS: Patrol entire perimeter of burned area, put out all flames and smoke within 50 feet of burn line, all heavy fuels within 100 feet of burn line and all snags within 150 feet of burn line. Pay special attention to smoldering leaf/litter, dung pats, woody debris, and other coarse fuels.

Mop-up Plan Item	Person Responsible
Maintain close observation of burned area and weather conditions for 24-72 hours or until the fire is completely extinguished. Take immediate positive action to ensure safety, should a dangerous change in weather be forecasted.	Howard Johnson

SECTION V, PART F. Post-Burn Conservation Practices and Monitoring:

1. Describe desired conditions after the burn including % control of target species, and post-burn vegetation type, diversity, and condition.

All parts of the unit have been burned and the invasive cool season grasses are controlled.

2. List additional conservation practices to be implemented after the burn to assist in meeting the resource objectives including, but not limited to, prescribed grazing, herbaceous weed control, upland wildlife habitat management, or range planting.

Prescribe Grazing

3. Describe Monitoring Methods to be used to evaluate burn effectiveness (Type and Frequency). Options include, but are not limited to Photo points, GrassSnap, Apparent Trend, Woody Canopy, or Stem Counts.

Observation and photos

SECTION VI - CERTIFICATIONS AND APPROVALS OF PRESCRIBED BURN PLAN

COOPERATER CERTIFICATION AND SIGNATURE: Required

As the owner/operator, I, as the decision-maker have been involved in the planning process for this prescribed burn management plan. I have been informed that I could be liable for damages and the cost of fire suppression should the fire escape from the designated area as a result of this prescribed burn. No substitutions are allowed without the approval of the individual who developed the prescribed burn plan.

Signature of Owner or Operator (Circle One)

Date

PLAN PREPARED BY: Required

Plan Prepared by (Print Name): _____

Address: _____

Phone Number: _____

Company or Organization: _____

Signature: _____ Date: _____

*** If NRCS employee is preparing the plan, that person must have JAA approval for the Job Class of burn.**

PLAN CERTIFICATION - CERTIFIED TSP (TECHREG) DEVELOPED BURN PLAN: Only when prescribed burn plan is completed by TSP

I certify that I have reviewed the documents for technical adequacy and that the elements of the document are technically compatible, reasonable, and can be implemented. I have provided technical assistance to the client and provided deliverables to the client and NRCS for each element required by CAP 112 criteria. I certify that NRCS requirements are met and consistent with all applicable federal, state, and local laws and regulations. I have been informed that I could be liable for damages and the cost of fire suppression should the fire escape from the designed area as a result of this prescribed burn. This Prescribed Burn Plan 338 or CAP 112 Plan (*circle one*) addresses all items required in the Conservation Practice Standard and Design Procedures in the 338 Standard/CAP 112 Plan (*circle one*).

TSP Certification (Print Name): _____

Signature: _____ Date: _____

The 338 Prescribed Burn Plan or the CAP 112 Plan meets the requirements for NRCS Prescribed Burning outlined in the 338 Standard/CAP 112.

NRCS Certification (Print Name): _____

Signature: _____ Date: _____

BURN PLAN CERTIFICATION

*PLAN APPROVED BY NRCS (Print Name): _____

Signature: _____ Date: _____

*** Person approving design must have JAA approval for the Job Class of burn being checked.**

Plan reviewed by
other approving
agency

Print Name: _____ Date: _____

Signature: _____ Agency/Entity: _____

SECTION VII, PART A - PRESCRIBED BURN IMPLEMENTATION - POST-BURN EVALUATION

COMPLETE IMMEDIATELY AFTER BURN HAS BEEN COMPLETED

1. Burn Unit Name: _____
2. Acres Burned: _____
3. Date of Burn: _____
4. Beginning Time of Burn: _____
5. Time Mop-up Completed: _____
6. Observed Weather Changes During Burn: _____
7. Fire Behavior:
 - a. Spotting None Few Many
 - b. Difficult to Control Yes No
 - c. Convection Column Yes No
 - d. Fire Whirls Yes No
8. Objective of Burn was Met: Yes No

**Evaluation Completed by burn boss or
landowner/operator:** _____

Signature

Date

PRACTICE CERTIFICATION - (TO BE COMPLETED AFTER BURN HAS BEEN CONDUCTED)

This applied practice meets South Dakota Standards and Specifications.

Signature TSP: _____ Date: _____

(required when TSP provides implementation assistance)

This practice has been applied as designed.

Signature Landowner/Operator: _____ Date: _____

(required when producer implements prescribed burn)

*This practice meets the objectives of Prescribed Burn (338)**

* Documentation required: Completed (pages 1-7) and signed, copy of the go no-go pre-burn checklist and burn permit (if needed).

Signature NRCS: _____

Date: _____

*** Person certifying practice must have JAA for the job class of the burn being certified.**

PRESCRIBED BURN CHECKLIST

(To be reviewed and filled out before burning on the DAY OF BURN)

Pre-burn Checklist (Completed prior to day of burn):	YES	NO
1. Weather forecast favorable (predicted within burn prescription)	<input type="checkbox"/>	<input type="checkbox"/>
2. Necessary firebreaks have been constructed	<input type="checkbox"/>	<input type="checkbox"/>
3. Potential hazards have been accounted for	<input type="checkbox"/>	<input type="checkbox"/>
4. Special precaution areas noted	<input type="checkbox"/>	<input type="checkbox"/>
5. Backup/secondary firebreak locations noted	<input type="checkbox"/>	<input type="checkbox"/>
6. Safety equipment is adequate	<input type="checkbox"/>	<input type="checkbox"/>
7. Tools and equipment are available	<input type="checkbox"/>	<input type="checkbox"/>
8. Adequate personnel are available	<input type="checkbox"/>	<input type="checkbox"/>
9. Special considerations have been reviewed	<input type="checkbox"/>	<input type="checkbox"/>
10. Burn Permit obtained from local fire chief and on site (if required)	<input type="checkbox"/>	<input type="checkbox"/>

GO-NO GO CHECK LIST: (Complete on Day of Burn) If answer to any is NO, do not burn until corrected

Actual weather conditions at burn site:	Planned	Actual	Time Recorded
a. Air Temperature	40-65	_____	_____
b. Relative Humidity %	20-30	_____	_____
c. Wind Speed	5-15	_____	_____
	YES	NO	
d. Acceptable Wind Direction	<input type="checkbox"/>	<input type="checkbox"/>	
e. Actual Wind Direction	_____		
f. Forecasted conditions are favorable	<input type="checkbox"/>	<input type="checkbox"/>	
g. Mixing height	_____		
h. Transport winds	_____		
i. Ventilation rate (transport x mixing height)	_____		
Notification of units of government made:			
a. Local Fire Department	<input type="checkbox"/>	<input type="checkbox"/>	
b. Sheriff/County Dispatch	<input type="checkbox"/>	<input type="checkbox"/>	
Neighbors notified	<input type="checkbox"/>	<input type="checkbox"/>	
Other: (test fire observation)			

IF ANY OF THE ABOVE ARE ANSWERED "NO," DO NOT BURN

Checklist completed by: _____

Date: _____

CONTINGENCY PLAN

In the event a prescribed burn escapes the prescription area the following steps should be taken for the suppression of the fire:

- 1) Cease ignition immediately
- 2) Leave sufficient personnel with the prescribed burn to prevent further escape
- 3) Remainder of personnel move to suppress the escape
- 4) One person will be designated to bring the backup water supply
- 5) Burn Boss will call the fire department

OPTIONAL BURN CREW ROSTER

(Complete the day of Burn)

Burn Unit Name: South 80

Number of people needed to conduct burn: 7

Burn Boss Howard Johnson

TEAM ID 1

Engine/Pumper Drivers:

Hose Operators:

Igniters:

Christine Johnson

Howard Johnson

Lead ATV/UTV Patrol:

Van Johnson

Additional ATV/UTV Patrol:

Nelly Johnson

Bob Johnson

Hand Tool Operators:

Gabby Johnson

Tom Johnson

Lookout/Weather:

Howard Johnson

Other (Specify Job):

TEAM ID

Engine/Pumper Drivers:

Hose Operators:

Igniters:

Lead ATV/UTV Patrol:

Additional ATV/UTV Patrol:

Hand Tool Operators:

Lookout/Weather:

Other (Specify Job):

BURN UNIT MAP

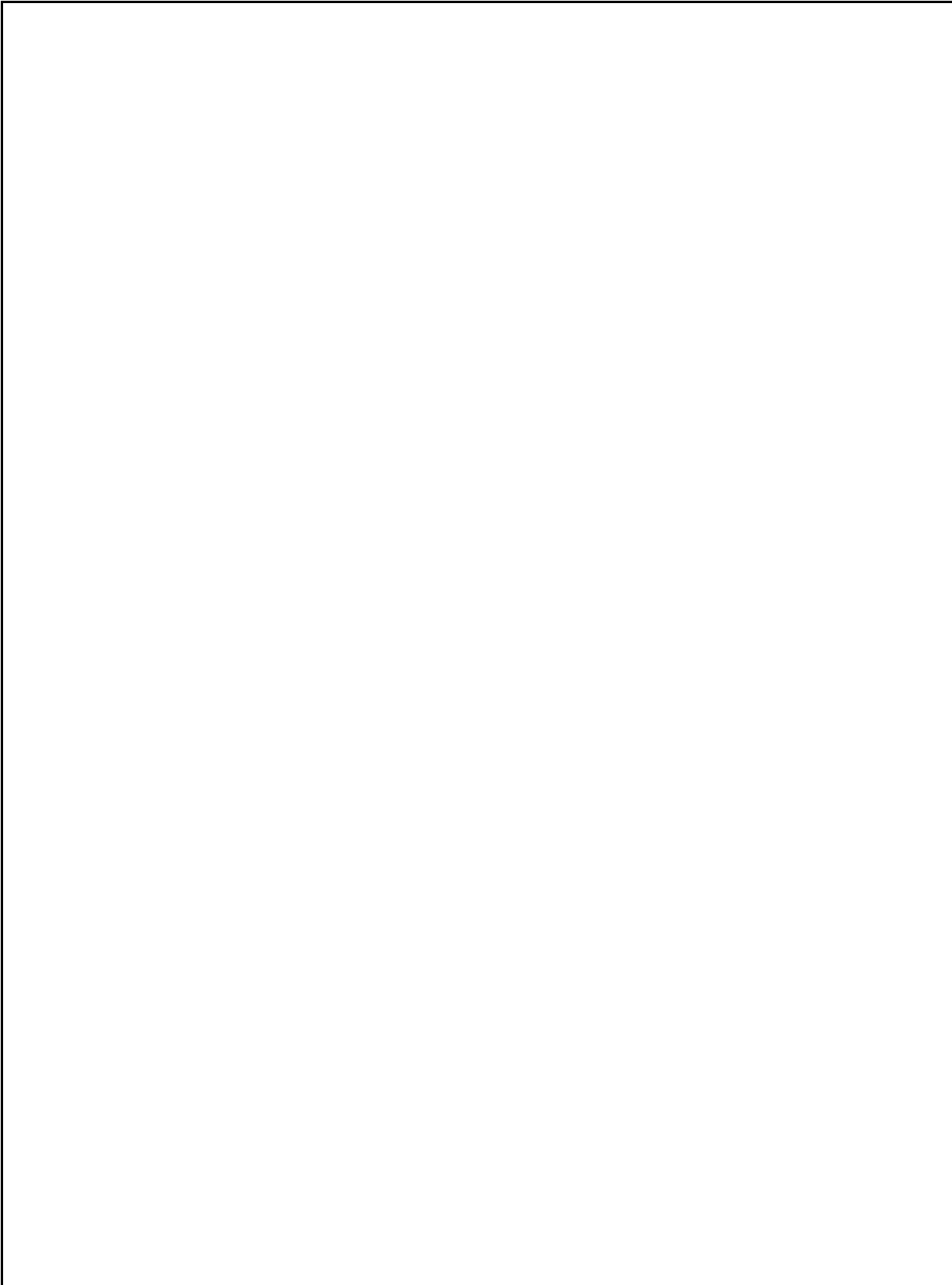
- | | | |
|-----------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|
| <input checked="" type="checkbox"/> Landowner and/or Burn Unit Name | <input checked="" type="checkbox"/> North Arrow | <input type="checkbox"/> Holding-line Locations |
| <input checked="" type="checkbox"/> Areas Needing Protection | <input checked="" type="checkbox"/> Safety Zones | <input type="checkbox"/> Location of Equipment |
| <input checked="" type="checkbox"/> Firing Sequence | <input checked="" type="checkbox"/> Water Sources | <input type="checkbox"/> Adjacent Land Uses |
| <input checked="" type="checkbox"/> Unit Access and All Escape Routes | <input checked="" type="checkbox"/> Firebreaks | <input type="checkbox"/> Hazards Within Unit |



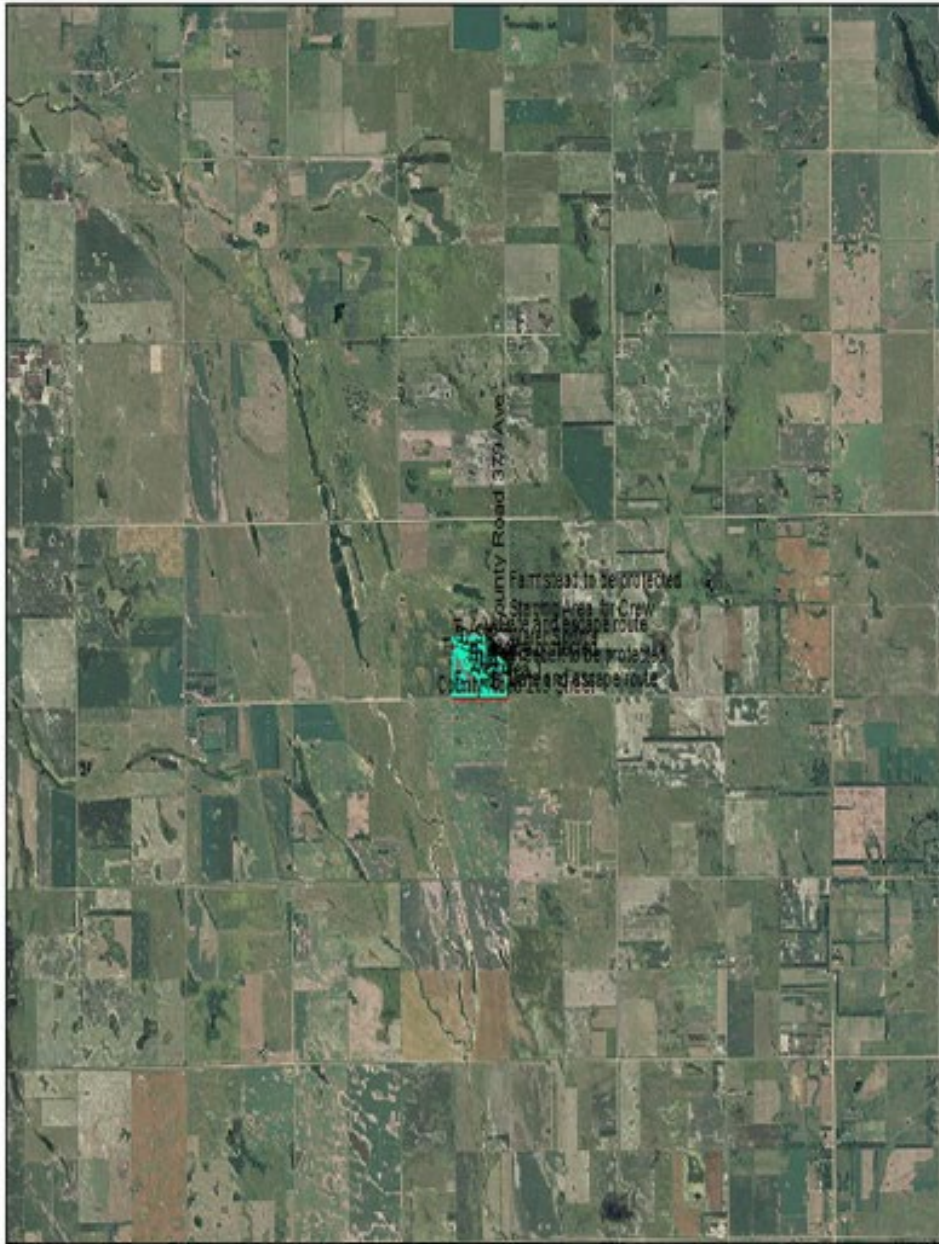
- Mowed Fire Breaks 30 feet wide
- Burn Unit

Burn Unit Map
Howard Johnson

TOPOGRAPHIC MAP



SURROUNDING AREA MAP



North

Moved Fire Breaks 30 feet wide

Burn Unit

Burn Unit Map
Howard Johnson