



MN DNR Prescribed Burn Unit Plan

NA-01990-04

Burn Unit Name and ID:			Crow Hassan Unit 16				
County Name	Lat/Long	Sec	Township	Range	Forty	Management Unit Name and Number	Administrator
Hennepin	N 45 11 32 W 93 39 10	24	T120N	R24W	NW 1/4	CH 16	Three Rivers Park District

Burn Unit Description

Fuel Model ¹	MN Native Plant Community	Size of Burn (acres) ¹	Fuel Loading (tons/acre) ¹
70% model 9 30% model 1		7 acres 9 acres 2 acres	

Additional Burn Unit Descriptors (e.g. land management goals, overstory/understory, soil, water, other ownerships/administration within burn area, other descriptors (power lines, roads etc))

Burn unit is a mature oak woodlot with an old field on the southeast edge and a cattail marsh on the eastern edge. The unit is bound on the east side by a park gravel road, on the south side by a flooded wetland, and on the north side by a mowed fire break.

Objectives

Purpose of burn (measurable treatment objectives): To preserve an open oak woodlot by suppressing buckthorn and bush honeysuckle while encouraging growth of oak trees. The intensity of the fire should be sufficient to kill small saplings back to the ground while not impacting larger trees.

Long term resource objectives:

Range of acceptable results:

Timing of treatment (in calendar terms and phenological terms):

Burn Complexity: Use NWCG Complexity Rating Guide (NFES 2474) to Determine Burn Complexity (keep on file)	Low X	Moderate	High
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Burn Prescription Window

		Outputs Prescription Parameters				Guidance Prescription Parameters					
Wind Direction		Spread Rate		Flame Length		Wind Speed		Temp.	Relative Humidity	1 Hr Fuel Moisture	1000 Hr Fuel Moisture or Drought Code
		Head	Backing	Head	Backing	20'	Mid flame				
N,W	Maximum Prescription					Max	Max 20 mph	Max 80 F	Min 30 %		
	Minimum Prescription					Min	Min 5 mph	Min 45 F	Max 70 %		

Additional Considerations

Consideration	Mitigation
Cultural site(s):	
Natural Heritage Elements:	
Adjacent Land Concerns:	
Peat Soils or Wet Soils:	
Other:	

Emergency Telephone Numbers

Emergency Telephone Numbers		Burn Activity Contacts	
Fire Dept (Wright Co. Dispatch)	(763) 682-7600	DNR Hotline	(651) 772-7930
Fire Dept (Hennepin Co. Dispatch)	(763) 525-6210	DNR Dispatch (Carlos Avery)	(651) 982-9720
Medical	911	DNR Dispatch (Cambridge)	(763) 689-7116
		Hassan City Hall	(763) 428-4100
		Park Police	(763) 694-7731



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Personnel Needs

Burn Boss Level (Note: tied to the burn complexity level):		
Number Needed	Position	Names(Optional)
1	Burn Boss	
6	Firefighters	

Equipment Needs

Number needed	Equipment Type	Source
2	350 gal. high volume – low pressure units on 4x4 1-ton dump truck	
2	150 gal. high pressure – low volume units on 4x4 truck	
1	50 gal. high pressure – low volume unit on ATV	
3	Drip Torches	
7	Radios (for each person)	
6	5 gal. buckets	
1	Pulaski	
2	Shovels	
4	Fire Rakes	
1	Chainsaw and Safety Gear	
7	PPE gear (for each person)	
3	Cell phone	

Operations Plans

Pre-burn Site Preparation Plan: Rake around smaller oak trees and clear downed branches and leaves from mature tree trunks. Mow fire break.

Ignition/Firing Plan: (Include provisions for a test fire, firing pattern, firing device, preferred wind direction, hazards/special considerations):
 Lighting method: Drip Torch
 Radio Communication between burn boss and igniters
 Start in corner of burn unit opposite current prevailing winds
 Cease Lighting if spot fires occur

Holding Plan: (Staging area, holding lines, resources and positions):
 Crow-Hassan Trail Head parking lot

Patrol/Mop-up Plan: (Mop-up instructions, safety concerns, weather, contingency, rehab, patrol instructions):
 Mop up all flaming and smoldering materials

Contingency Plans

(Include secondary control lines, termination of ignition procedures, list of contingency resources and approximate response times, trigger points, backup plan for equipment failure etc.):
 Secondary control lines include turf trails and dirt roads surrounding the unit with the Crow River to the north and west. If the fire escapes, ignition will end, holding forces will take action under direction of burn boss to anchor, flank and pinch escape while containing existing burn. If fire line equipment fails, rotate a unit out with an ATV from the staging area and have one person work on the failing equipment if fixable in the field. Contingency resources may be drawn from Rogers Fire Department approximately 5 miles from the burn unit.

Smoke Management Plan¹

Smoke Dispersion Category (should be fair or better to burn)¹:

Distance and Direction from Smoke Sensitive Area(s)¹:
 Several residences within ¼ mile to the north and west of the burn unit.

¹ Required for MN Pollution Control Agency reporting requirements



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Smoke Management Plan (Describe how you intend to mitigate the effects of smoke on roads, firefighters, neighbors and other sensitive receptors. Include safety considerations)¹:

Burning under good dispersion conditions and prescribed wind direction will minimize potential problems for neighboring residences and roads. Duration of smoke is estimated at 2.5 hours.

Safety Plan

Identify safety zones, escape routes, communications plan:

Black areas and adjacent mowed turf areas are safety zones. Monitor and communicate any irregular fire behavior. All personnel will have access to radio communication.

Medical Plan

(In addition to notification of 9-1-1 dispatcher, identify nearest ground and air ambulance service, availability of paramedics, location of nearest hospital and list what first aid supplies are available at the burn site and what person or equipment they are assigned to):

Follow Three Rivers Park District procedures for work related injuries. Health Partners Occupational Medicine Clinics (952) 883-6999

List of Attachments

Project Map	X	Fire Behavior Calculations (optional)		
Permission to Burn on non-DNR Land		Road Control Plan (optional)		
Risk/Safety Assessment (optional)		Organization Chart (optional)		

Signatures

Prepared by: Brian Fredlund	Qualification Title: Wildlife Operations Specialist	Date: 2/15/2018
Reviewed by ² :	Qualification Title:	Date:
Reviewed by ³ :	Title:	Date:
Approved by ³ :	Title:	Date:

² All burn plans must be reviewed and signed by a qualified Burn Boss 1 or 2 as specified by Commissioner's Operational Order 47

³ As per Division policy