

Notice: Collection of this information is authorized pursuant to ss 26.11(1), Wis. Stats., and Chapter NR 30, Wis. Adm. Code. Personal information collected will be used for program administration and may be provided to requesters as required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

Instructions: See Chapter 60 of Prescribed Burn Handbook for instructions. Attach map(s) of burn unit(s) and any additional worksheets.

**BURN INFORMATION: 12 acres at Sauk Prairie Recreation Area (5716 Hillside Prairie 2015)**

Created Date 2/4/2015	Expiration Date 12/31/2018
Burn Coordinator: Frost, Nancy A	Burn Coordinator Supervisor: Ishmael, William E
Technical Reviewer: Young, Aaron M	Property Manager: Schmelzer, Steve J

**SUBJECT DESCRIPTION**

DNR Property Name: Sauk Prairie Recreation Area	FR Property Number: 5716 - SAUK PRAIRIE RECREATION AREA
County: Sauk	Municipality: TOWN OF SUMPTER
Management Unit: SAUK PRAIRIE RECREATION AREA	Town/Range/Section: 10N 6 E 1
Burn Unit: Hillside Prairie Last Burned On: 4/17/2014	

**AREA DESCRIPTION**

Cover Type	Percent of Area	Soil Type	Acres					
Central Hardwoods	50	SILT LOAM, LOAM, SILT	7.50					
Upland Grass	50	SANDY LOAM	4.50					
<b>Total Percent of Area : 100</b>		<b>Total Acres: 12</b>						
Fuel Load Type	Acres	1 Hr	10 Hrs	100 Hrs	Live	Total Hrs	1000 Hrs	Total With 1000 Hrs
9 - Hardwood litter or long needle pine litter	6	17.52	2.46	0.90	0.00	20.88	32.70	53.58
3 - Tall Grass (2.5 feet)	6	18.00	0.00	0.00	0.00	18.00	0.00	18.00
<b>Total:</b>	<b>12</b>	<b>35.52</b>	<b>2.46</b>	<b>0.9</b>	<b>0</b>	<b>38.88</b>	<b>32.7</b>	<b>71.58</b>
Fuel Break Type	Width (ft)	Comments	Firing Technique					
Mineral - Handline	< 5ft	N side	Dot/Spot					
Road - Unimproved	5ft - 10ft	W, S, E sides	Perimeter					
			Strip Head					
			Flanking					
			Backing					
Slope		Topography						
0-3% on north and east		east and north flat						

12-20% on south side  
 20% on west side

south side rolling  
 West side steep

XY Coordinate Type	X Value	Y Value	Comments	Aspect
Lat Long – Decimal Degrees	43.3360	-89.7380		SW

**LOGISTICAL INFORMATION**

Will public notice be required?	[ ] Yes [ X ] No 12
NR 429 alternatives considered and rejected?	[ X ] Yes [ ] No NR429
Are there rare species or natural communities present??	[ X ] Yes [ ] No NHI

**EQUIPMENT AND PERSONNEL NEEDS**

Equipment	How Many	Comment
Other	2	Backcans
ORV with Water	1	
Handtools	3	
Radios	5	
Engine - Type 8	1	

Personnel	How Many	Comment
Burn Boss	1	
Ignition Specialist	2	
Firefighters	2	

**PRESCRIPTION RANGE**

Temperature	Min. <u>35</u> Max. <u>75</u>	Minimum Smoke Dispersal: Poor < 13000 Minimum Mixing Height (ft): 500 Wind Direction: N,NW,S,SW,W Transport Wind Direction : All
Relative Humidity	Min. <u>25</u> Max. <u>65</u>	
1-Hour Fuel Moisture Percent :	Min. <u>5</u> Max. <u>30</u>	
10-Hour Fuel Moisture Percent	Min. <u>7</u> Max. <u>22</u>	
20 Ft Winds Speed (mph) :	Min. <u>4</u> Max. <u>20</u>	

**BEHAVE FUEL MODEL**

BEHAVE Fuel Type	Percent	Min. Flame Length	Max. Flame Length
3 - Tall Grass	50	1	15
9 - Hardwood Litter	50	1	5

**More Specific Prescription Comments:**

Enter Comments

<b>REVIEW AND APPROVAL</b>		
I certify that the information in this proposal and all attachments are true and correct.		
1	Preparer: Frost, Nancy A	Approved On 2/16/2015
2	Burn Coordinator: Frost, Nancy A	Approved On 2/16/2015
3	Property Manager: Schmelzer, Steve J	Approved On 3/9/2015
4	Technical Reviewer: Young, Aaron M	Approved On 3/15/2015
5	Burn Coordinator Supervisor: Ishmael, William E	Approved On 3/16/2015

<b>Approval Comments</b>		
Commented By	Commented On	Approval Comment

This checklist includes materials required to complete a Prescribed Burn Proposal.

<input type="checkbox"/> <b>1. General Management Plan &amp; Specific Objectives</b> <b>Mgmt Plan and Specific Objectives</b> The primary objective of this prescribed burn is to reinvigorate a remnant prairie and to control invasive species both herbaceous and woody. 90% blackout is the goal.	<b>Document</b>
<input type="checkbox"/> <b>2. Special Precautions</b> <b>Special Precautions</b> SPRA is planned to be open to the public starting the spring of 2015. USDA Dairy Forage owns land to the west of the road and may have workers in the fields. The army and DNR may have contractors working on demolition on DNR lands possibly nearby. Signs will be put on the road west of the burn unit. Army, contractors, and USDA will be notified of the burn. Information in the communication plan.	<b>Document</b>
<input type="checkbox"/> <b>3. Firing Plan &amp; Holding Plan</b> <b>Firing Plan and Holding Plan</b> A test fire will be conducted on the downwind side of the unit. If fire behavior is determined to be within prescription, ignition will continue with the test fire as the anchor point, for a perimeter firing technique. If it is determined it is within prescription but the test fire area is not the location for the anchor point, the anchor point will be moved to proper area. If it is not within fire prescription, the test fire will be extinguished and the burn postponed. Ignition will start at the anchor point in both directions utilizing drip torches creating a backing and flanking fire. When the flanking and backing fires have created significant black, igniters will proceed to light the head fire. Strip fire and dot fires may also be used based on weather, fuel conditions, number of personnel, etc. There should be one firefighter following behind the ignition specialist to control any spot fires or breached fire break. Frequent checks of the line to the ignition point will also be conducted. Mop up will focus on issues closest to the fire break (i.e. snags burning near break) and move towards the interior of the unit as appropriate/necessary. Currently, SPRA is not open to the public, but if that changes we will have one personnel checking for smoke on the road as needed.	<b>Document</b>
<input type="checkbox"/> <b>4. Communication Plan</b> <b>Communication Plan</b> Each member of the fire crew will have a portable radio or be next to someone who does, so communications can be heard or relayed to all on the crew. The burn boss, in addition, will carry a cell phone for communications outside the burn crew. (i.e. WDNR Dispatch and 911). The burn boss will primarily communicate with the line bosses. The line bosses will primarily communicate with their respective line crew. All personnel will communicate directly with the burn boss if necessary or appropriate. <b>IMPORTANT NUMBERS:</b> DNR Dodgeville Dispatch (608) 935-1929. DNR Wis. Rapids Dispatch (715) 421-7841; Sauk County Sheriff (608) 377-1195. Army contact Robert Sitton (Mike) Davis, army contractors if still on site are Delbert (Del) Davis, Debra (Deb) Fawcett, and USDA Dairy Forage will be contacted. USDA Dairy Forage Rick Walgenbach cell (608)575-5146, office (608)643-2438.	<b>Document</b>
<input type="checkbox"/> <b>5. Contingency Plan</b> <b>Contingency Plan</b> Small slop-over and spot fires will be attacked directly with equipment on the site. In the case of an escaped fire all ignition will be halted to contain the fire unless unsafe to do so. All available on site resources will be used to help secure the escape. A map of the larger area will be given to the crew	<b>Document</b>

prior to the burn. The SPRA has many old roads that can be used to contain an escaped fire. If the burn boss feels that the escaped fire can not be secured, 911 will be called and they will be asked to dispatch the local fire department for assistance on an escaped fire. Maps of the larger area will be provided to staff prior to the burn. SPRA has many old roads that can be used to contain an escaped fire. If additional resources are needed Wisconsin Rapids Dispatch (715) 421-7841 and Dodgeville DNR Dispatch (608) 935-1929 will be called. If traffic control is needed Sauk County Sheriff's Department will be called at (608) 377-1195.

**6. Endangered Resources Review**

**Endangered Resources Review**  
 SPRA Hillside Prairie NHI EO details 2015  
  
 SPRA Hillside Prairie NHI Review 2015

**Document**  
 See Uploaded Document  
 See Uploaded Document  
 Document

**7. Maps showing location and boundaries of the project/property**

**Maps**  
 SPRA Hillside Prairie Map Large Area  
 SPRA Hillside Prairie Map Close-up  
 SPRA Plat Map

**Document**  
 See Uploaded Document  
 See Uploaded Document  
 See Uploaded Document

**8. Pictures**

**Pictures**

**Document**

**9. Behave Models**

**Behave Models**

**Document**

**10. Other Plans**

**Others**

**Document**

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Region	County	Property No.	Burn Unit Name	Burn Unit No.	Year	Unit Acreage	Tracking Number
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**Burn Documentation**

Date of Burn	Phenological Stage	Burn Boss	% Area Burned	Acres Burned	Time of Ignition	Time Completed
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Firing Technique (s) Used: \_\_\_\_\_ sFiringTech \_\_\_\_\_

Precipitation		Palmer Drought Index	10 Hr Fuel Stick Moisture		Total Cost	Cost Per Acre
Days Since >.10"	Amount		%	Distance From Burn miles		

**Fire Behavior and Weather (Any single observation need not include all items)**

Time	Spot Fires	Spread Rate	Flame Height	Fuel Type	Stability Index	Temp	Relative Humid	Wind	Gust (mph)	Cloud Cover	Mixing Height	Transport Winds

Time	Distance from burn Site	Fire Intensity	Remarks

Additional Comments:

**Post-Burn Documentation (Immediately after burn, complete items which apply to objectives)**

% Consumed: | Litter: | Grass/Forb: | Brush: | Slash: |

Trees (Target Species Only)				
Species	Crown Scorch	Bark Scorch Ht.	Bark Char Ht.	Remarks

**Subsequent Evaluations (Target Species)**

#	% Top Kill	% Area Burned	% Duff Removed	% Residual Killed	Increase in Grass Height (inches)	# Seedlings / Acre Regen	By	Date

**Objectives Met?**

*If prescribed fire did not obtain your objective, explain why you think it didn't*

*If prescribed fire did obtain your objective, what do you feel were the most important factors (weather, time of year, fuel type, etc.)*

**Follow-up Strategy and Year of Treatment**

Type of treatment	Year	Comments

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<b>Noted (Sign and Date)</b>			
Property Manager	Date Signed	Burn Coordinator	Date Signed



Fuel Model 3 - Long Grass (Greater than 2.5 feet)

Flame Length Chart (Ft.)

1-h Moisture %	20-ft Wind Speed (Mi/Hr) (Midflame Wind Speeds)							
	0 (0)	4 (1.6)	8 (3.2)	12 (4.8)	16 (6.4)	20 (8.0)	24 (9.6)	28 (11.2)
1	4.6	11.5	16.9	21.3	25.2	28.7	32.0	35.1
2	4.1	10.4	15.2	19.2	22.7	25.8	28.8	31.6
3	3.8	9.4	13.8	17.4	20.6	23.5	26.1	28.7
4	3.4	8.6	12.6	15.9	18.9	21.5	24.0	26.3
5	3.2	8.0	11.7	14.8	17.5	19.9	22.2	24.3
6	3.0	7.5	11.0	13.8	16.4	18.7	20.8	22.8
7	2.8	7.1	10.4	13.1	15.5	17.7	19.7	21.6
8	2.7	6.8	9.9	12.5	14.8	16.9	18.8	20.6
9	2.6	6.5	9.6	12.1	14.3	16.3	18.1	19.9
10	2.5	6.4	9.3	11.7	13.9	15.8	17.6	19.3
11	2.5	6.2	9.1	11.4	13.5	15.4	17.2	18.8
12	2.4	6.1	8.9	11.2	13.2	15.1	16.8	18.4
13	2.4	5.9	8.7	10.9	12.9	14.8	16.5	18.0
14	2.3	5.8	8.5	10.7	12.7	14.4	16.1	17.6
15	2.2	5.6	8.2	10.4	12.3	14.0	15.6	17.1
16	2.2	5.4	8.0	10.1	11.9	13.6	15.1	16.6
17	2.1	5.2	7.6	9.6	11.4	13.0	14.5	15.8
18	2.0	4.9	7.2	9.1	10.7	12.2	13.6	14.9
19	1.8	4.6	6.7	8.4	9.9	11.3	12.6	13.8
20	1.6	4.1	6.0	7.6	9.0	10.2	11.4	12.5
21	1.4	3.6	5.2	6.6	7.8	8.9	9.9	10.8
22	1.2	2.9	4.3	5.4	6.4	7.3	8.1	8.9
23	0.9	2.1	3.1	3.9	4.7	5.3	5.6	5.6
24	0.5	1.2	1.8	2.2	2.2	2.2	2.2	2.2
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Assumptions:

1. Free Burning Head Fire (e.g. not being "drawn in")
2. All fuels are cured.
3. Level Terrain.

**Fuel Model 9 - Hardwood Litter/Long Needle Pine Litter**

**Flame Length Chart (Ft.)**

1-h Moisture %	20-ft Wind Speed (Mi/Hr) (Midflame Wind Speeds)							
	0 (0)	4 (0.8)	8 (1.6)	12 (2.4)	16 (3.2)	20 (4.0)	24 (4.8)	28 (5.6)
1	1.5	1.8	2.3	2.8	3.3	3.9	4.4	4.9
2	1.4	1.6	2.0	2.5	3.0	3.5	3.9	4.4
3	1.3	1.5	1.9	2.3	2.7	3.2	3.6	4.0
4	1.2	1.3	1.7	2.1	2.5	2.9	3.3	3.7
5	1.1	1.2	1.6	1.9	2.3	2.7	3.1	3.4
6	1.0	1.2	1.5	1.8	2.2	2.5	2.9	3.2
7	0.9	1.1	1.4	1.7	2.1	2.4	2.7	3.0
8	0.9	1.1	1.3	1.6	2.0	2.3	2.6	2.9
9	0.9	1.0	1.3	1.6	1.9	2.2	2.5	2.8
10	0.8	1.0	1.3	1.5	1.8	2.1	2.4	2.7
11	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.6
12	0.8	0.9	1.2	1.5	1.8	2.0	2.3	2.6
13	0.8	0.9	1.2	1.4	1.7	2.0	2.3	2.5
14	0.8	0.9	1.1	1.4	1.7	1.9	2.2	2.5
15	0.8	0.9	1.1	1.4	1.6	1.9	2.2	2.4
16	0.7	0.9	1.1	1.3	1.6	1.8	2.1	2.3
17	0.7	0.8	1.0	1.3	1.5	1.8	2.0	2.2
18	0.7	0.8	1.0	1.2	1.4	1.7	1.9	2.1
19	0.6	0.7	0.9	1.1	1.3	1.5	1.7	2.0
20	0.6	0.6	0.8	1.0	1.2	1.4	1.6	1.8
21	0.5	0.6	0.7	0.9	1.0	1.2	1.4	1.5
22	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3
23	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9
24	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Assumptions:**

1. Free Burning Head Fire (e.g. not being "drawn in")
2. All fuels are cured.
3. 10-Hr Fuel Moisture = 8%, 100-Hr Fuel Moisture = 10%
4. Level Terrain.

# Burn Unit Area Map

## Legend

-  Burn Break
-  DNR Managed Lands



0.5 0.25 0 0.5 Miles



non-public Entrance Rd.

PF Native Grass Field

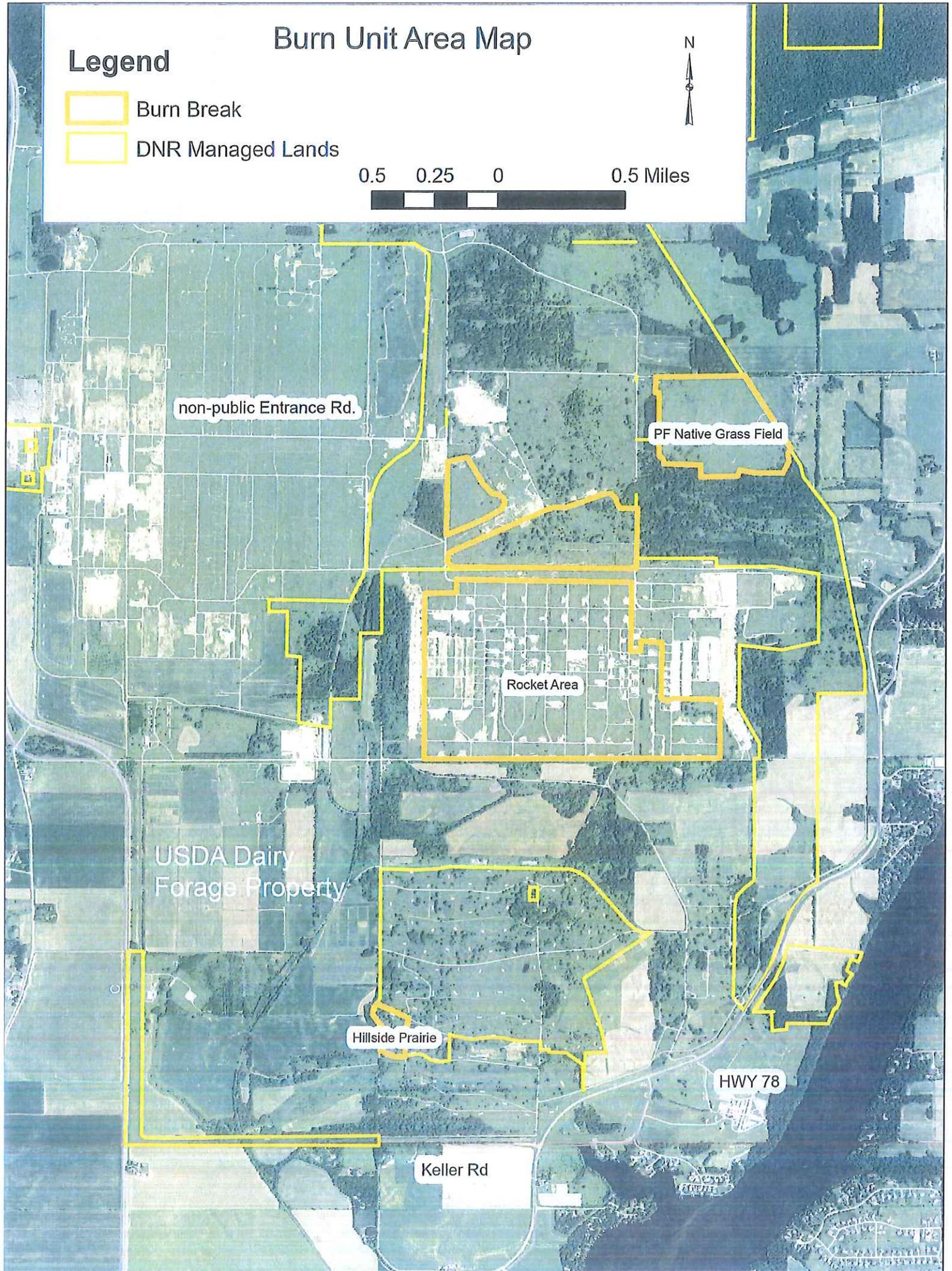
Rocket Area

USDA Dairy Forage Property

Hillside Prairie

HWY 78

Keller Rd



# Hillside Prairie Burn Unit

Tracking #:

5716Hillside Prairie 2015

Budget Code:



## Legend

 Burn Break

 Well Head

100 50 0 100 Feet



Cut in fence for access

A

old foundation

B

burn around well

C

USDA Dairy  
Forage Property

F

E

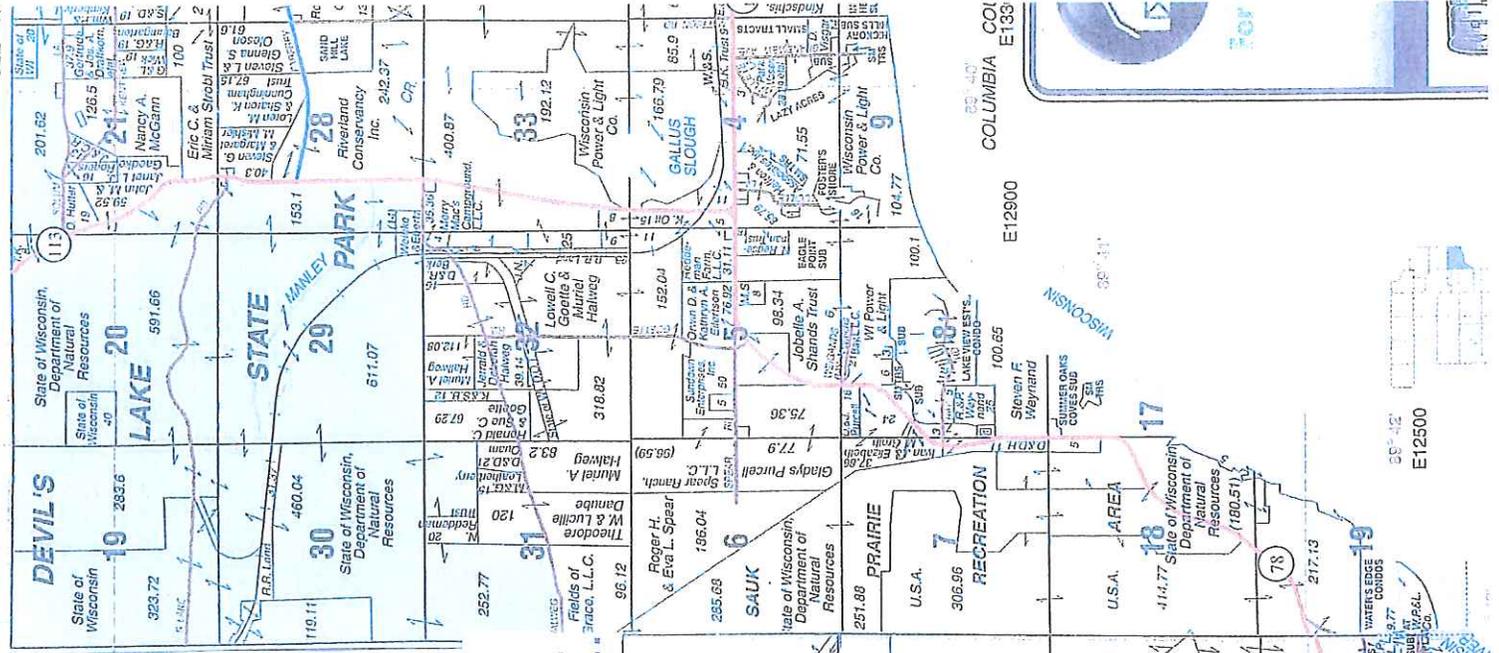
old foundation

D



MERRIMAC

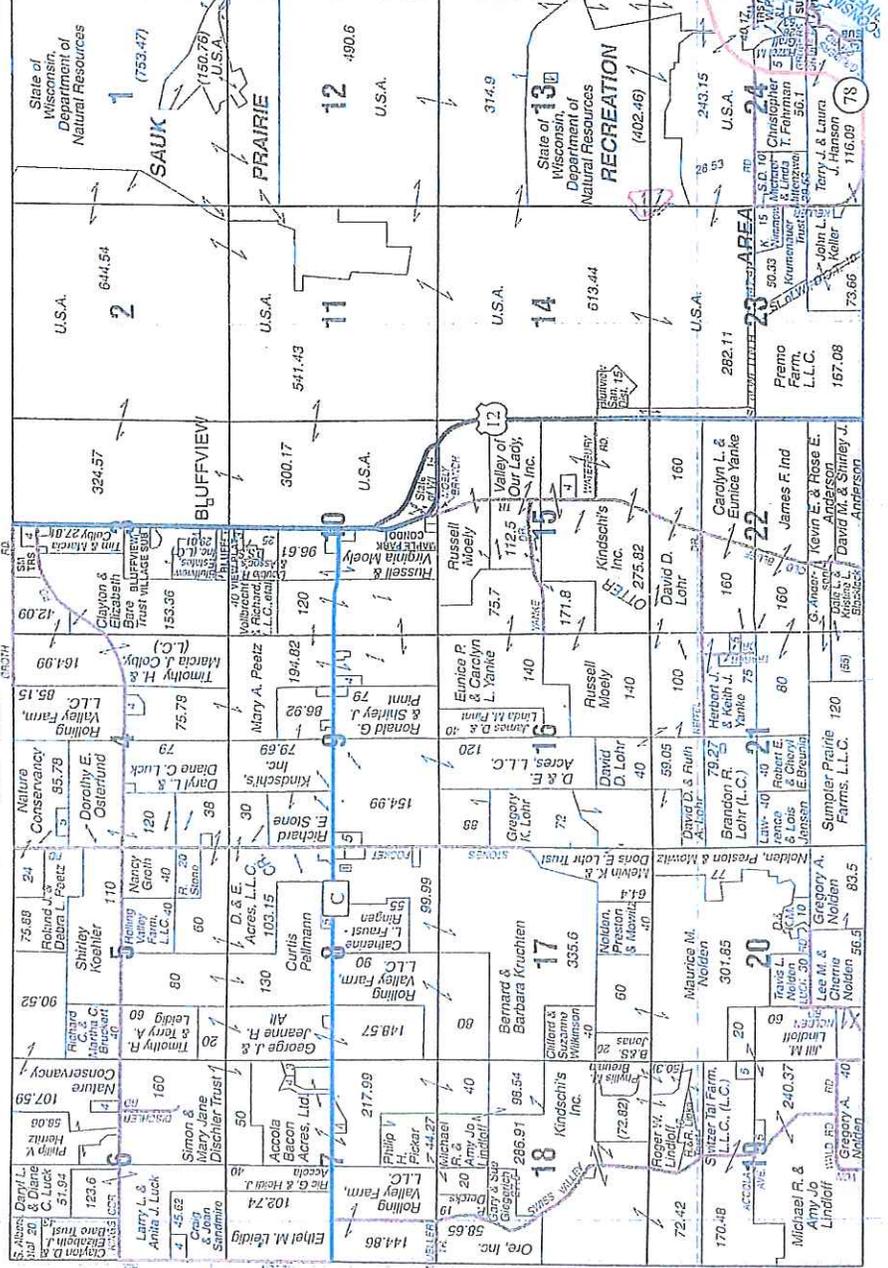
SEE PAGE 17



T.10N.-R.6E.

SOUTH PART SUMPTER

SEE PAGE 38



S7300

S7700

S8100

S8500

S8900

SEE PAGE 30

SEE PAGE 20

E12500

E12900

E12900

E12900

E12900

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