Indiana Department of Natural Resources - Division of Forestry

PRESCRIBED BURNING PLAN

Property Name: Greene-Sullivan State Forest          County: Sullivan
Management Unit: Dugger - West Bass Lake  Sec: 7&8  Twp: 7N  Range: 8W
Projected Size of Burn  92  acres
Projected Date of Burn:  Feb-April 2011

Description of Burn Unit (include information on overstory, understory, fuel type and topography):
Reclaimed strip mined ground. Predominately fescue with scattered patches of willows. Terrain is slightly rolling. Has three warm season grass plots located throughout the tract.

Resource Management Objective of Burn:
To kill off woody species and promote warm season grasses.

History of Previous Burns (include dates, results, wildfire or prescribed, etc.):
2008 fall prescribed burn
2006 prescribed burn
2004 prescribed burn- area burned well except for stands of willows in low areas.
2000 prescribed burn- Area burned well except for stands of willows in low areas.
1998 prescribed burn

Description of adjacent area (if significantly different in fuels, topography, etc.):
Water south, west and east sides. County road north side.

Special Considerations (include flora, fauna, safety, public not in agreement, etc.):
bird nesting

Safety
The parking areas adjacent to county roads to the north, south, east and west will be safety zones. Riparian areas can also be found along the lake shores which may be used. Black Areas may also be utilized.
Smoke will be monitored to see if it creates visibility problems on the county roads. If it does drivers will be cautioned to wait or advised to turn headlights on before driving into the smoke.

The engine will patrol the perimeter of the fire from the county roads.

**Problem Areas**

Wet spots throughout the area will pose problems for vehicles driving across the area.

**Ignition Sequence**

Torch 1 will start in the NE corner and proceed south along the east perimeter. Torch 2 will go west along the county road on the north side to the NW corner and then proceed south and meet torch one where Bass lake overflows into Duck lake.

**Complexity of Burn based on Complexity Rating System (attach rating scale)(circle one):**

Basic    Complex

**Acceptable Burning Parameters (minimum/maximum):**

1. Type of firing method (circle all appropriate): backing flank ring strip head head
2. Allowable Rate of Speed (specify ft./min. Or ch./hr.) 69-270 ch/hr
3. Allowable Flame Length (feet) 3.5 - 12
4. Allowable Mid-Flame Wind Speed (mph) 3-7
5. Allowable Wind Direction (circle all appropriate): N NE E SE S SW W NW
6. Relative Humidity (percent) 30-50
7. Temperature (degrees Fahrenheit) 45-70
8. Time of Year (circle all appropriate): Spring Fall
9. Fuel Moisture 1 hr. TLFM 7-8 10 hr. TLFM(fuel sticks) 11-14 10. Days Since Last Rain 3-10

**Pre-Burn Preparations Required:**

At the NW corner of Turtle Lake black line or disc 6’ strip to Duck Lake.

**Equipment Needed:**

a. _____ Dozers by Type  
   j. _____ Backpack Pumps
b. _____ Observation Aircraft  
   k. _____ Hose Quantity(hose size___)
c. _____ Engines by Type 8  
   l. _____ Drip Torches(slash fuel qty 20)
d. _____ Chainsaws & Fuel

m. 2. Mobile Radios

e. _____ Portable Pumps

n. 5. Portable Radios

f. 1. Belt Weather Kits

o. _____ Fire Behavior Printouts

g. _____ Brush Cutter & Fuel

p. _____ Maps/Photographs

h. 3. Council Rakes

q. 3. Flappers

I. 1. Quadrunner

r. _____ Other (specify)

Personnel Needed (include number and qualifications):

1  burn boss
3  firing specialist
1  holding specialist
2  crew members

NOTE: All personnel must wear all personal protective equipment as outlined in the Division of Forestry Wildland Fire/Prescribed Fire Policy.

Smoke Sensitive Areas within 10 Miles (specify type, distance and direction from site):

Dugger – east 3 miles
Turkey Barn – SW 1 mile
SR54 – North 1 mile
Sullivan – NW 4 mile

Contingency Plan for Escaped Fire (only employees that meet physical fitness and training requirements can be utilized during active suppression):

Qualified personnel will suppress wildfire. Other personnel will continue to hold prescribed line or retreat to safety zone. Local fire departments will be contacted for assistance if needed.
Contacts:

Pre-Burn:

<table>
<thead>
<tr>
<th>Contact</th>
<th>When</th>
<th>Who Will Do</th>
<th>How</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather Service</td>
<td>Day before</td>
<td>Steve</td>
<td>Internet</td>
</tr>
<tr>
<td>Fire Departments</td>
<td>Day before</td>
<td>Philomene</td>
<td>TX</td>
</tr>
<tr>
<td>County Sheriff</td>
<td>Day before</td>
<td>Philomene</td>
<td>TX</td>
</tr>
<tr>
<td>County Health</td>
<td>Day before</td>
<td>Philomene</td>
<td>TX</td>
</tr>
<tr>
<td>Local Residents</td>
<td>ASAP and day before</td>
<td>Steve</td>
<td>Personal/TX</td>
</tr>
<tr>
<td>(adjacent landowners)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Burn Day:

<table>
<thead>
<tr>
<th>Weather Service</th>
<th>AM</th>
<th>Steve</th>
<th>Internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Cooperators</td>
<td>AM</td>
<td>Philomene</td>
<td>TX or Radio</td>
</tr>
<tr>
<td>Local Residents</td>
<td>AM</td>
<td>Philomene</td>
<td>TX or Personal</td>
</tr>
<tr>
<td>Fire Headquarters</td>
<td>AM</td>
<td>Philomene</td>
<td>TX or Radio</td>
</tr>
</tbody>
</table>

Spot Weather Forecast (circle source):

- NOAA Weather
- NWS
- Internet
- Media (specify) TV
- Other (specify)

1. Sky
2. Precipitation
3. Cold Fronts
4. LASI
5. Wind Direction
6. Highest Temperature
7. Lowest Relative Humidity
8. Atmospheric Stability
9. Wind Speed

Firing Techniques and Preparation

Attach a map or detailed drawing showing area to be burned, firebreaks, ignition sequence, equipment and personnel placement, roads, water supplies, etc.

PROJECT NAME: West Bass
DATE: 2011

Complexity Point Record

<table>
<thead>
<tr>
<th>Matrix Item</th>
<th>Parameter Value</th>
<th>Severity Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Firing Technique</td>
<td>backing/strip head</td>
<td>2-7</td>
</tr>
<tr>
<td>2. Fuel Model Outside Unit</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>3. Unit Shape</td>
<td>somewhat uniform</td>
<td>5</td>
</tr>
<tr>
<td>4. Fuel Model of Burn</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>
5. Unit Size 93 a 12
6. Days Since Last Rain over " 3-10 days 1-7
7. Season of Year Feb/April 4
8. Types of Control Line 1
9. Risk of Escape \(<5\%\) 1
10. Values at Risk grass, nothing 1
11. Availability of Resources no wildfires/other burns 1
12. Dead Fuel Moisture 11-14 3-5 (10 Hour Sticks)
13. Relative Humidity 30-50% 3-7
14. Eye Level Windspeed 3-7 mph 1-4
15. Temperature 45-70 3-7
16. Time of Day 1000-1700 5-13
Total Severity Points = 53-85

GO-NO-GO Check List:

1. Are all fire prescription specifications met?
2. Is the weather forecast favorable now and throughout burn?
3. Are all necessary lines constructed and checked?
4. Are all personnel required in the plan on-site?
5. Have all personnel been briefed on the prescribed burn plan?
6. Have all personnel been briefed on safety hazards, escape routes, and safety zones?
7. Do all personnel have the required PPE with them?
8. Is all required equipment in place and in working order?
9. Do you have direct communication to a DNR dispatcher?
10. Have you made all notifications?
11. In your opinion can the burn be carried out according to the plan and will it meet the planned resource management objectives?

If all 11 questions were answered yes, you may proceed with the test fire.

Proposal Prepared By: Steve Siscoe, Property Manager
Date: 2/11/11
To submit a comment on this document, click on the following link:
http://www.in.gov/surveytool/public/survey.php?name=dnr_forestry

You must indicate the State Forest Name, Compartment Number and Tract Number in the “Subject or file reference” line to ensure that your comment receives appropriate consideration. Comments received within 30 days of posting will be considered.