

# Indiana Department of Natural Resources - Division of Forestry

## PRESCRIBED BURNING PLAN

**Property Name:** Greene-Sullivan State Forest      **County:** Sullivan

**Management Unit:** Dugger, NE Bass      **Sec:** 8      **Twp:** 7N      **Range:** 8W

**Projected Size of Burn :** 22      **acres**

**Projected Date of Burn:** Feb-April 2011

**Description of Burn Unit (include information on overstory, understory, fuel type and topography):**

Fairly flat with primarily fescue ground cover. There are some islands of willow trees and areas of warm season grass. There is also a stand of phragmites along the inlet into Bass lake from Long lake. This area is reclaimed strip mine land.

**Resource Management Objective of Burn:**

To kill of woody species and promote warm season grasses.

**History of Previous Burns (include dates, results, wildfire or prescribed, etc.):**

Area was burned in the fall of 2007. Area burned well.  
A prescribed burn was done in 2000 prior to planting warm season grass plots in the tracts. Area burned well except for pockets of willows in the wet areas. Area was burned in the Spring of 2004. The warm season grass plots are expanding, but so are the wiollows.

**Description of adjacent area (if significantly different in fuels, topography, etc.):**

Area has water or county road for a boundary.

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

bird nesting, fisher people

**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 chain/hr
3. **Allowable Flame Length (feet)** 2-12
4. **Allowable Mid-Flame Wind Speed (mph)** 3-12
5. **Allowable Wind Direction (circle all appropriate):** N NE E SE S SW W NW
6. **Relative Humidity (percent)** 28-50
7. **Temperature (degrees Fahrenheit)** 45-85
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** 2-10

**Pre-Burn Preparations Required:**

check area for fisher people

**Equipment Needed:**

- |                                       |  |
|---------------------------------------|--|
| a. <u>      </u> Dozers by Type       | j. <u>  3  </u> Backpack Pumps                           |
| b. <u>      </u> Observation Aircraft | k. <u>      </u> Hose Quantity(hose size <u>      </u> ) |
| c. <u>  1  </u> Engines by Type 8     | l. <u>  4  </u> Drip Torches(slash fuel qty <u>10</u> )  |
| d. <u>  1  </u> Chainsaws & Fuel      | m. <u>  2  </u> Mobile Radios                            |
| e. <u>  1  </u> Portable Pumps        | n. <u>  4  </u> Portable Radios                          |
| f. <u>  1  </u> Belt Weather Kits     | o. <u>      </u> Fire Behavior Printouts                 |
| g. <u>      </u> Brush Cutter & Fuel  | p. <u>  1  </u> Maps/Photographs                         |
| h. <u>      </u> Council Rakes        | q. <u>      </u> Flappers                                |

I.   1   **Quadrunner**

r.        **Other (specify)**

**Personnel Needed (include number and qualifications):**

- 1 burn boss
- 1 holding specialist
- 2 firing specialists
- 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 – southwest 1 mile
- SR 54 – north 1 mile
- Sullivan – northwest 4 miles

**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:**

<b>Contact</b>	<b>When</b>	<b>Who Will Do</b>	<b>How</b>
<b>Weather Service</b>	<b>Day before</b>	Steve	<b>TX</b>
<b>Fire Departments</b>	<b>Day before</b>	Philomene	<b>TX</b>
<b>County Sheriff</b>	<b>Day before</b>	Philomene	<b>TX</b>
<b>County Health</b>	<b>Day before</b>	Philomene	<b>TX</b>
<b>Local Residents (adjacent landowners)</b>	<b>ASAP and day before</b>	Steve	<b>Personal/TX</b>

**Burn Day:**

<b>Weather Service</b>	<b>AM</b>	Steve	<b>TX</b>
<b>All Cooperators</b>	<b>AM</b>	Philomene	<b>TX or Radio</b>
<b>Local Residents</b>	<b>AM</b>	Philomene	<b>TX or Personal</b>
<b>Fire Headquarters</b>	<b>AM</b>	Philomene	<b>TX or Radio</b>

**Spot Weather Forecast (circle source):** NOAA Weather    NWS    Internet    Media  
 (specify)    Other (specify)

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

**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:**

**DATE:**

**Complexity Point Record**

<u>Matrix Item</u>	<u>Parameter Value</u>	<u>Severity Points</u>
1. Firing Technique	<u>backing-head</u>	<u>1-9</u>
2. Fuel Model Outside Unit	<u>2</u>	<u>8</u>
3. Unit Shape	<u>somewhat uniform</u>	<u>5</u>
4. Fuel Model of Burn	<u>1-3</u>	<u>5-11</u>
5. Unit Size	<u>22</u>	<u>7</u>
6. Days Since Last Rain over 1/2"	<u>2-10</u>	<u>2-6</u>

7. Season of Year	<u>Aug-Sept</u>	<u>3-12</u>
8. Types of Control Line	<u>natural</u>	<u>2</u>
9. Risk of Escape	<u>&lt;5%</u>	<u>1</u>
10. Values at Risk	<u>grass</u>	<u>1</u>
11. Availability of Resources	<u>no wildfires</u>	<u>2</u>
12. Dead Fuel Moisture (10 Hour Sticks)	<u>11-14</u>	<u>2-5</u>
13. Relative Humidity	<u>28-50</u>	<u>2-7</u>
14. Eye Level Windspeed	<u>3-12</u>	<u>1-10</u>
15. Temperature	<u>45-85</u>	<u>2-10</u>
16. Time of Day	<u>1000-1600</u>	<u>4-13</u>
<b>Total Severity Points =</b>		<b><u>46-103</u></b>

**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: \_\_\_\_\_ Date: \_\_\_\_2/11/11\_\_\_\_\_  
Steve Siscoe, Property Manager

Reviewed by Section Chief:     Dan Ernst     Date: \_\_\_\_2/21/11\_\_\_\_\_  
\_\_\_\_\_

Reviewed by Fire Headquarters:     Drew Daily     Date: \_\_\_\_2/22/11\_\_\_\_\_  
\_\_\_\_\_

## BURN PLAN: DUGGER NE BASS

### SAFETY

The parking areas on the county roads to the north, west and east sides will be safety zones. There is also parking areas on the north and east side of turtle lake. Riparian areas can also be found on the lakeshores which may be utilized.

Smoke will be monitored to see if it creates visibility problems on the county roads. If it does drivers will be cautioned and advised to turn headlights on before driving into smoke.

### PROBLEM AREAS

Wooden signs at the NE corner need to be protected.

### IGNITION SEQUENCE

Assuming a west or southwest wind. Burn out around signs on NE corner. Then start torches west along the north and south perimeters. If needed 2 strips may be run through middle of area.

The burn should not occur with the presence of an inversion.

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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.

