

# Indiana Department of Natural Resources - Division of Forestry

## PRESCRIBED BURNING PLAN

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

**Management Unit:** Archery Range Warm Season Grasses      **Sec:** 25      **Twp:** 7N      **Range:** 8W

**Projected Size of Burn**      5      acres

**Projected Date of Burn:** February – April 2011

**Description of Burn Unit (include information on over story, under story, fuel type and topography):**

Area is warm season grasses 3-4 feet tall surrounded by fescue.

**Resource Management Objective of Burn:**

Enhance warm season grasses.

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

2008 fall burn. warm season grass burned well popped bark on small saplings.

2005 warm season grass burned well, popped bark on small saplings.

2000 warm season grass burned well.

1997

Spring 1996

Burned 1994, fire crept a lot because warm season grass was very spotty.

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

Outside areas is fescue with a lake bordering the north side.

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

**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) 3-18
4. Allowable Mid-Flame Wind Speed (mph) 0-5
5. Allowable Wind Direction (circle all appropriate): N NE E SE S SW W NW
6. Relative Humidity (percent) 30 – 55
7. Temperature (degrees Fahrenheit) 50 – 69
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

**Pre-Burn Preparations Required:**

A disc fire line is needed on the west side. A rip-rap ditch and gravel road will be used on the south and east side.

**Equipment Needed:**

- |                                 |  |
|---------------------------------|--|
| a. ____ Dozers by Type          | j. ____ Backpack Pumps                                 |
| b. ____ Observation Aircraft    | k. ____ Hose Quantity (hose size ____)                 |
| c. <u>1</u> Engines by Type (8) | l. <u>2-4</u> Drip Torches (slash fuel qty <u>10</u> ) |
| d. <u>1</u> Chainsaws & Fuel    | m. <u>2</u> Mobile Radios                              |
| e. ____ Portable Pumps          | n. <u>5</u> Portable Radios                            |
| f. <u>1</u> Belt Weather Kits   | o. ____ Fire Behavior Printouts                        |
| g. ____ Brush Cutter & Fuel     | p. ____ Maps/Photographs                               |
| h. <u>3</u> Council Rakes       | q. ____ Flappers                                       |
| i. <u>1</u> Quadrunner          | r. <u>1*</u> Other (specify)                           |

\* 4x4 engine not classed with tank and pump

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

- 1 - Burn Boss
- 1 - Holding Specialist
- 2 - Firing 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):**

- Reservoir 26 Campground NE ½ mile
- Linton NE 3 miles
- Dugger N 3 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:**

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

**Burn Day:**

Weather Service	AM	Steve	Internet
All Cooperators	AM	Phil T	TX or Radio
Local Residents	AM	Phil T	TX or Personal
Fire Headquarters	AM	Phil T	TX or Radio

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

- |                         |                                   |
|-------------------------|-----------------------------------|
| 1. Sky _____            | 6. Highest Temperature _____      |
| 2. Precipitation _____  | 7. Lowest Relative Humidity _____ |
| 3. Cold Fronts _____    | 8. Atmospheric Stability _____    |
| 4. Last _____           | 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:** Archery Range WSG  
**DATE:** 2011

### Complexity Point Record

<u>Matrix Item</u>	<u>Parameter Value</u>	<u>Severity Points</u>
1. Firing Technique	<u>Perimeter</u>	<u>5</u>
2. Fuel Model Outside Unit	<u>1</u>	<u>5</u>
3. Unit Shape	<u>Uniform</u>	<u>2</u>
4. Fuel Model of Burn	<u>3</u>	<u>10</u>
5. Unit Size	<u>2</u>	<u>2</u>
6. Days Since Last Rain over <input type="checkbox"/> "	<u>3 Max</u>	<u>1</u>
7. Season of Year	<u>FEB-APR</u>	<u>4 - 10</u>
8. Types of Control Line	<u>Blacklines/natural</u>	<u>2</u>
9. Risk of Escape	<u>5-10%</u>	<u>3</u>
10. Values at Risk	<u>Grass/nothing</u>	<u>1</u>
11. Availability of Resources	<u>No other burns</u>	<u>1</u>
12. Dead Fuel Moisture (10-Hour Sticks)	<u>11 - 14</u>	<u>4</u>
13. Relative Humidity	<u>40 - 25</u>	<u>3 - 9</u>
14. Eye Level Wind speed	<u>0 - 5</u>	<u>1</u>

15. Temperature 50 - 69 4  
16. Time of Day 1000 - 1700 4  
Total Severity Points = 52 - 70

**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: 2/10/11

Reviewed by Section Chief: Dan Ernst Date: 2/21/11

Reviewed by Fire Headquarters: Drew Daily Date: 2/22/11

## **SAFETY**

The archery range and reservoir 26 parking areas on the south and east side will be the closest safe areas. Black areas could also be utilized.

## **PROBLEM AREAS**

There is a small cemetery on the east side. Fire may tend to creep around in the rip-rap ditch on this side. The shelter house roof has fiberglass shingles and should be checked if NE winds are present.

## **IGNITION SEQUENCE**

A combination backing, strip head and ring fire will be used. The area inside control lines will be blacked out. Once this is accomplished the area may be ring fired. The fire will be started backing into the wind.

**To submit a comment on this document, click on the following link:**  
[http://www.in.gov/surveytool/public/survey.php?name=dnr\\_forestry](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.

# Archery Range WSG



0 125 250 500 750 1,000 Feet





