

INDIANA DEPARTMENT OF NATURAL RESOURCES

PRESCRIBED BURNING PLAN

Property Name: Martin State Forest County: Martin

Management Unit: C7, T7, 9 & 10 Sec. 25 & 26 Twp. 3N Range 3W

Projected Size of Burn 135 acres

Projected Date of Burn March 2011

Description of Burn Unit (include information on overstory, understory, fuel type and topography): Mixed hardwood overstory. Mixed understory with maple being main component. Fuel model 9. Burn area will be primarily south and southwest slopes.

Purpose of Burn: (Management objective): This area has been marked for a timber harvest using the shelterwood method to regenerate shade intolerant species, primarily oak and hickory. The purpose of the burn is to both prepare a better seedbed for oak and hickory, and to reduce competition from the current shade-tolerant understory.

History of Previous Burns (include dates, results, wildfire or prescribed, etc.): No records of other burns.

Description of adjacent area (if significantly different in fuels, topography, etc.): Ridgetop and north slopes to the north. Northeast slopes to the south. Mowed field and southwest slopes to the west.

Special Considerations (include flora, fauna, safety, public not in agreement, etc.): None

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 Spread (specify ft./min. or ch./hr.) 15
3. Allowable Flame Length (feet) 2.5
4. Allowable Mid-Flame Wind Speed (mph) 8
5. Allowable Wind Direction (circle all appropriate) (**E, SE, S, SW, W**)
6. Relative Humidity (percent) 20-40
7. Temperature (degrees Fahrenheit) 50-90
8. Time of Year (circle all appropriate) (**Spring**) Fall – Late Summer
9. Fuel Moisture 1-hr. TLFM 5-15 10-hr. TLFM (fuel sticks) 8-20
10. Days Since Last Rain 3

Pre-Burn Site Preparations Required: _____
Line will be constructed and improved around burn area where there are no roads or firelanes. Fallen trees and logjams will be cleared from stream that will be used as a firebreak. Leaf litter will be blown or scraped from firelanes and skid trails that will be used as firebreaks.

Equipment Needed:

- | | |
|--------------------------------|---|
| a. _____ Dozers by Type | j. <u>3</u> Backpack Pumps |
| b. _____ Observation Aircraft | k. <u>150</u> Hose Quantity (hose size <u>1"</u>) |
| c. <u>2</u> Engines by Type 6X | l. <u>5</u> Drip Torches (slash fuel qty. <u>10 gal.</u>) |
| d. <u>4</u> Chainsaws & Fuel | m. <u>2</u> Mobile Radios |
| e. <u>2</u> Portable Pumps | n. <u>6</u> Portable Radios |
| f. <u>1</u> Belt Weather Kits | o. <u>X</u> Fire Behavior Printouts |
| g. _____ Brush Cutter & Fuel | p. <u>X</u> Maps / Photographs |
| h. <u>4</u> Council Rakes | q. _____ Flappers |
| i. <u>2</u> Quadrunner | r. <u>2</u> Other (specify) Polaris Ranger 6x6 and JD Gator |

Personnel Needed (include number and qualifications): 6- Red carded, 2- not carded

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: _____
U.S. Highway 50: 2.5 miles northwest; 1 County Road: .25 miles south; several residences one-half mile south
and several residences 3/4 miles east; town of Huron: five miles northeast; town of Shoals – five miles west.

Contingency Plan for Escaped Fire (**only employees that meet physical fitness and training requirements can be utilized during active suppression**): _____
Three red carded employees will initiate fire suppression and call for assistance from Shoals VFD if needed.

Contacts:

Pre-Burn:

Contact	When	Who Will Do	How
Weather Service	Day before	Jim/Abe	Internet
Fire Departments	Day before	Jim	Phone
County Sheriff	Day before	Jim/Abe	Phone
County Health	1 – 2 days before	Jim/Abe	Phone or in person
Local Residents (adjacent landowners)	1 – 2 days before	Jim/Abe	Phone or in person

Burn Day:

Weather Service	1 Hour before burn	Jim/Abe	Internet
All Cooperators	1 Hour before burn	Jim/Abe	Briefing
Local Residents	1 Hour before burn	Jim/Abe	Phone or in person
Fire Headquarters	1 Hour before burn	Jim/Abe	Phone

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: _____

Backing fire will go west from DP 1. Then a flanking fire will go south from DP 1. As lines are strengthened, strip head fires will be used to burn out the interior. Interior skid trails and firelanes will be used to help advance fire down the slopes.

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

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: Jim Lauck Date: 3-9-11

Reviewed By Section Chief: Dan Ernst Date: 3-11-11

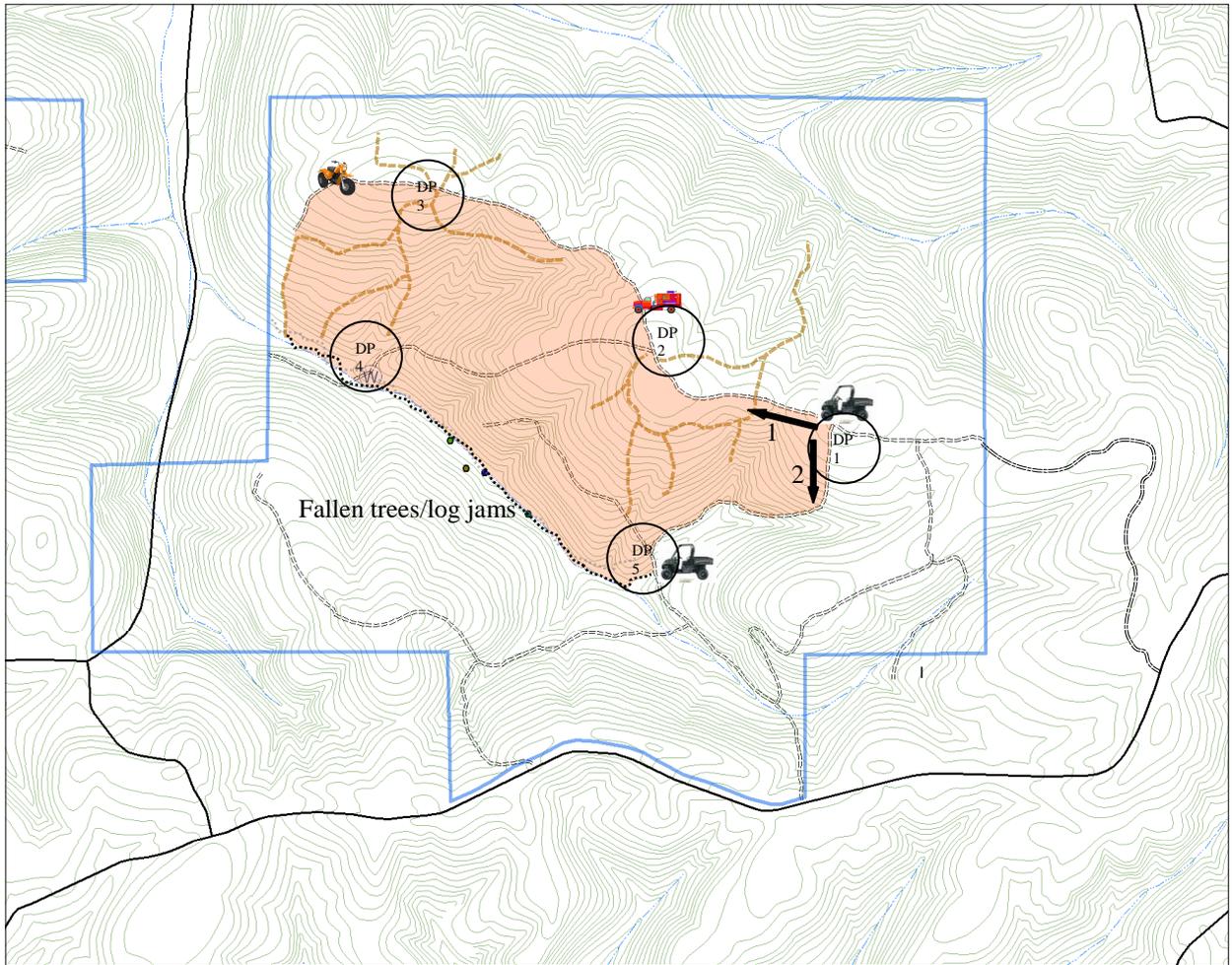
Reviewed By Fire Headquarters: _____ Date: _____

Approved: C7, T7, 9 & 10

Date: 03/11/2011

Notes: Approved as written – no modifications.

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Legend

- burn boundary
- compartment
- MSF Firelanes
- skid trail
- handline

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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.