Indiana Department of Natural Resources - Division of Forestry

PRESCRIBED BURNING PLAN

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

Management Unit: Dugger (between Goose and Pump) **Sec:** 8 **Twp:** 7N **Range:** 8W

Projected Size of Burn 93 **acres**

Projected Date of Burn: February – April 2011

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

Mainly fescue with a few scattered clumps of willows. Topography is flat to slightly rolling. 6 small lakes inside burn area. Unit is reclaimed strip mine ground and was pasture until 1995. Several plots were planted in warm season grasses in 2000. The primary ground cover in the warm season grass plots is currently goldenrod. Some eroded ditches of variable depth are present. There are also some large rocks on the surface.

Resource Management Objective of Burn:

To control woody vegetation and maintain grasses.

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

Area prescribe burned in spring 2008
Area prescribe burned in spring 2005
Area prescribe burned in spring 2002
Area prescribe burned in spring 1999

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

North, South and West is water. East is wooded and cropland.

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

Highway 1 mile north. Cemetery on east side. Wooden fence post.

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 1 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 - 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** 2 - 10

Pre-Burn Preparations Required:

A dozer line or disc line should be put in on the east side to help prevent wooden fence post and cemetery area from burning. Burn out NE corner around rip-rap area.

Equipment Needed:

a. _____ **Dozers by Type**

b. _____ **Observation Aircraft**

c. 1 **Engines by Type (8)**

d. 1 **Chainsaws & Fuel**

e. 1 **Portable Pumps**

f. 1 **Belt Weather Kits**

g. _____ **Brush Cutter & Fuel**

h. 3 **Council Rakes**

I. 1 **Quadrunner**

j. 3 **Backpack Pumps**

k. _____ **Hose Quantity(hose size____)**

l. 4 - 6 **Drip Torches(slash fuel qty 20)**

m. 2 **Mobile Radios**

n. 5 **Portable Radios**

o. _____ **Fire Behavior Printouts**

p. _____ **Maps/Photographs**

q. _____ **Flappers**

r. 1* **Other (specify)**

4x4 engine not classed with tank and pump

Personnel Needed (include number and qualifications):

1 - Burn Boss
1 - Holding Specialist
4 - Firing Specialist

2 - Crew Members

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

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:

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

Burn Day:

Weather Service	**AM**	Steve	**Internet**
All Cooperators	**AM**	Philomene	**TX or Radio**
Local Residents	**AM**	Philomene	**TX or Personal**
Fire Headquarters	**AM**	Philomene	**TX or Radio**

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

1. **Sky** _____
2. **Precipitation** _____
3. **Cold Fronts** _____
4. **LAST** _____
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: Goose / Pump
DATE: 2011

Complexity Point Record

Matrix Item	Parameter Value	Severity Points
1. Firing Technique	backing-strip head	1 - 6
2. Fuel Model Outside Unit	9	2
3. Unit Shape	Somewhat uniform	2 - 6
4. Fuel Model of Burn	1	5
5. Unit Size	93 A	11
6. Days Since Last Rain over □"	2 - 10	2 - 6
7. Season of Year	FEB-APR	3 - 12
8. Types of Control Line	natural, dozer	1 - 5
9. Risk of Escape	<5%	2
10. Values at Risk	brush	3
11. Availability of Resources	available	1 - 4
12. Dead Fuel Moisture (10 Hour Sticks)	11 - 14	3 - 5
13. Relative Humidity	28 - 50	2 - 6
14. Eye Level Windspeed	3 - 12	1 - 8
15. Temperature	45 - 70	3 - 7
16. Time of Day	1000 - 1700	5 - 13
Total Severity Points =		47 - 101

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_____

SAFETY

The county roads on the east and west sides will be safety zones. The riparian area associated with the six lakes on the interior of the burn will also act as safety zones. There are also some areas of sparse vegetation located on the interior. There is a valley that runs North-South in the middle of the area.

If there are east or north winds, smoke management may be a problem on county roads.

Eroded gullies inside the burn area will be a hazard for persons operating ATV's, trucks or tractors. In most cases these are not visible until riders are very near them. Speed should be kept to a minimum.

PROBLEM AREAS

The greatest risk of escape is at the NE and SE corners. A gravel road is present on the east side of those areas. Wooden fence posts should not be allowed to burn.

IGNITION SEQUENCE

Assuming prevailing winds from a SW direction, a black line should be established on the east side. The northeast corner has the highest potential for escape and should be burned out first. Firing then should go from east to west with four parallel lines. This will produce a strip head or a flanking fire.

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.

Goose & Pump Lakes Burn Map