

# PRESCRIBED BURN PLAN

(This template may only be used for tracts 100 acres or less and all parts must be filled out to be considered a properly prepared plan.)

## UNIT INFORMATION

Landowner's name and phone#: \_\_\_\_\_

Tract size (acres): \_\_\_\_\_

Location (S/T/R): \_\_\_\_\_

County: \_\_\_\_\_ GPS Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Unit Conditions (Should include a brief description of fuel types and fuel loading):

## OFFICIAL NOTIFICATIONS BEFORE BURN

Forestry Division Dispatch: 1-800-830-8015

Sheriff's office (phone #): \_\_\_\_\_

Fire Dept. (name & phone #): \_\_\_\_\_

## NEIGHBOR NOTIFICATIONS (within ¼ mile)

Name & Phone: \_\_\_\_\_

Name & Phone: \_\_\_\_\_

Name & Phone: \_\_\_\_\_

Name & Phone: \_\_\_\_\_

Name & Phone: \_\_\_\_\_

## PRESCRIBED BURN OBJECTIVE

### MANAGING THE BURN (Describe how each of the following will be addressed)

Fireline preparation (This should include any hazard trees or snags that need removed prior to burning)

Firing techniques:

Fire sensitive areas (adjacent young pine plantations, buildings, etc.):

Smoke sensitive areas (smoke screening map prepared on topographic and/or county road, that will identify roads, drainages, and residences):

Contingencies (include safety zones, escape routes, escape response procedures):

### Weather Information

Parameters	Do Not Burn	Recommended Range
Date of Burn		
Air Temp (°F)		
Relative Humidity (%)	< or = 25%	
Prob. Of Ignition	> or = 80%	
Mid Flame Windspeed		
Wind Direction		
Smoke Category Day	1 or 5	

### Smoke Management Calculation:

Fuel Type See Table 1	Fuel Loading See Table 1	Tons/Acre See Table 1	Acres	Total Tons (Tons/Acre X Acres)
			<b>Total Tons for Tract</b>	

See Table 2 for burn/no burn recommendation based on Category Day.

Table 1. Common Fuel Types and Loadings and Typical Fuel Model Numbers (Table 1 is an average)

TYPICAL ARKANSAS TIMBER AND VEGETATIVE TYPES	FUEL LOADING RANGE	AVAILABLE FUELS (TONS/ACRE)
<u>GRASS/BRUSH</u> – FIRST FUEL TYPE TO APPEAR ON SITE PREPARED, BURNED, OR CUTOVER AREAS. ALSO APPLIES TO PASTURES, OLD FIELDS, OR YOUNG PINE STANDS WHERE GRASS IS THE PRIMARY CARRIER OF THE FIRE. (103, 105, 108, 123, 124)	LOW MEDIUM HEAVY	2.0 3.0 5.0
<u>SHORTLEAF PINE REGENERATION</u> – OVERSTORY COMPOSED OF IMMATURE SHORTLEAF PINE MIXED WITH SCATTERED OAK BRUSH. SURFACE FUEL IS MOSTLY GRASS, BRIERS, AND LOW SHRUBS. (143, 144, 146, 148, 149)	LOW MEDIUM HEAVY	2.6 3.8 5.1
<u>LOBLOLLY PINE REGENERATION</u> – OVERSTORY COMPOSED OF IMMATURE LOBLOLLY PINE MIXED WITH SCATTERED OAK BRUSH. SURFACE FUELS ARE MOSTLY GRASS, BRIERS, AND LOW SHRUBS. (143, 144, 146, 148, 149)	LOW MEDIUM HEAVY	4.4 7.6 8.5
<u>SHORTLEAF/LOBLOLLY WITH GRASS</u> – OPEN OVERSTORY COMPOSED OF LOBLOLLY OR SHORTLEAF PINE. AMOUNT OF GRASS OR LITTER WILL VARY WITH AGE OF THE STAND, DEGREE OF CROWN CLOSURE, AND AGE OF ROUGH. (106, 163)	LOW MEDIUM HEAVY	1.5 3.8 5.9
<u>SHORTLEAF PINE WITH OAK</u> – OVERSTORY COMPOSED OF SHORTLEAF PINE STANDS MIXED WITH OAK OR OAK/HICKORY. AMOUNT OF LITTER WILL VARY WITH THE AGE OF THE STAND, DEGREE OF CROWN CLOSURE, SPECIES AND AGE OF ROUGH. (181, 183, 184, 185, 188)	LOW MEDIUM HEAVY	3.0 4.0 4.4
<u>LOBLOLLY PINE WITH OAK</u> – OVERSTORY COMPOSED OF LOBLOLLY PINE MIXED WITH OAK OR OAK/HICKORY. AMOUNT OF LITTER WILL VARY WITH AGE OF THE STAND, DEGREE OF CROWN CLOSURE, SPECIES, AND AGE OF ROUGH. (181, 183, 184, 185, 188)	LOW MEDIUM HEAVY	6.4 6.8 7.9
<u>HARDWOOD LEAF LITTER</u> – OVERSTORY USUALLY COMPOSED OF OAK OR HICKORY WITH A MIXTURE OF OTHER HARDWOODS SUCH AS MAPLE, ELM, OR GUM. AMOUNT OF LITTER WILL VARY WITH THE AGE OF THE STAND, DEGREE OF CROWN CLOSURE, SPECIES, AND AGE OF ROUGH. (182, 186, 189)	LOW MEDIUM HEAVY	0.8 1.5 2.5
<u>DISPERSED SLASH</u> – NORMALLY FOLLOWS HEAVY THINNING, OR A CLEAR-CUT, WHERE DEBRIS IS NOT PILED. NEEDLE OR LEAF LITTER MAY OR MAY NOT BE PRESENT. LIMB-GATE PILES SHOULD BE EXCLUDED BECAUSE OF RESIDUAL SMOKE. (201, 202, 203)	LOW MEDIUM HEAVY	4.0 6.0 8.0
<u>PILED DEBRIS</u> – NORMALLY FOLLOWS LAND CLEARING OR TIMBER CUTTING WHERE ALL DEBRIS IS PILED. DUE TO HEAVY FUEL LOADING, FUEL SIZE AND ARRANGEMENT, AND INEFFICIENT BURNING, PILED DEBRIS PRODUCES GREATER AMOUNTS OF SMOKE AND PARTICULATE MATTER FOR LONG TIME PERIODS.	LOW MEDIUM HEAVY	5.0 7.5 10.0

Table 2. The maximum tons of fuel that can be allocated to an airshed based upon the downwind distance to the nearest smoke-sensitive area and the category day.

DISTANCE TO SMOKE-SENSITIVE AREA (MILES)	CATEGORY DAY 2	CATEGORY DAY 3	CATEGORY DAY 4	CATEGORY DAY 5
	TONS OF FUEL			
0-0.19 (0-1,000 FT.)	RECOMEND DO NOT BURN			
0.2-4.9	488	560	720	1,280
5-9.9	1,000	1,200	1,840	3,200
10-19.9	1,840	2,240	4,200	7,200
20 OR GREATER	2,880	3,280	6,400	11,600

**A Smoke Screen Map and Unit Map must be attached to the plan. Also, the Burning Assignments and the Burn Day Checklist must be completed the day of the burn.**

Signature of Qualified Prescribed Burner: \_\_\_\_\_

Signature of Landowner: \_\_\_\_\_

By signing, the Landowner agrees to assume all risk, and shall not hold the Department or its officers, employees, agents, or representatives liable for any damage or injury to the Landowner, the Landowner's property, or to the person or property of any third parties during the implementation of this prescribed burn plan. The Landowner further agrees to indemnify and hold the Department harmless against any and all claims, actions, losses, costs, damages, expenses (including attorneys' fees), personal injuries, or deaths resulting from the burn.

This Burn plan is not complete unless the following information is added by the Burn Boss on the Day of the Burn!

### BURNING ASSIGNMENTS

Burn Boss: \_\_\_\_\_

#### INSTRUCTIONS TO IGNITION PERSONNEL

<u>Ignition Person</u>	<u>Instructions</u>
1) _____	_____
2) _____	_____

<u>Division A</u> Crew Member	Assignment
_____	_____

<u>Division B</u> Crew Member	Assignment
_____	_____

<u>Division C</u> Crew Member	Assignment
_____	_____

<u>Division D</u> Crew Member	Assignment
_____	_____

<u>Division E</u> Crew Member	Assignment
_____	_____

Provide for the prescribed burn crew a map with physical and topographic features and division assignment boundaries. Designate safety zones, drop points, and what equipment and materials are located at these drop points.

## BURN DAY CHECKLIST

Date of Burn: \_\_\_\_\_

Parameters	Do Not Burn	Recommended Range	Forecasted Weather Conditions
Date of Burn			
Air Temp (°F)			
Relative Humidity (%)	< or = 25%		
Prob. Of Ignition	> or = 80%		
Mid Flame Windspeed			
Wind Direction			
Smoke Category Day	1 or 5		

### BURN ONLY IF ALL ITEMS ARE ADDRESSED:

- Burning assignments
- Map for crew
- Extra precautions for fire sensitive areas
- Smoke sensitive areas not threatened
- Official notifications made
- Neighbor notifications made
- Personal Protective Equipment in use
- Equipment assigned to divisions on site and available
- Transport trucks(s) and other equipment in a safe area
- Fire line width adequate
- Hazards and Snags mitigated
- Forecasted temperature within recommended range
- Forecasted relative humidity > 25%
- Forecasted probability of ignition < 80%
- Forecasted mid flame wind speed within recommended range
- Forecasted wind direction as recommended
- Forecasted smoke Category day 2, 3, or 4

### Hourly Belt Weather Recording During the Burn

	1	2	3	4	5	6	7	8
Temp								
RH								
Wind Speed								
Wind direction								

Signature of Burn Boss \_\_\_\_\_ Date: \_\_\_\_\_