

PRESCRIBED FIRE PLAN

 Tract: _____

 Date: _____
 NCFS District: _____
 County: _____

Latitude _____ Longitude _____

PART 1: GENERAL INFORMATION

Landowner: _____ Address: _____ _____ _____ Phone: _____ Agent: _____ Agent Phone: _____	Estimates Acres to Burn: _____ Bladed Line (miles): _____ Plowed Line (miles): _____ Hand Line (feet): _____ Other: _____ Other: _____	Purpose of Burn <input type="checkbox"/> Site Preparation <input type="checkbox"/> Silviculture <input type="checkbox"/> Hazard Reduction <input type="checkbox"/> Wildlife Habitat <input type="checkbox"/> Other: _____ _____
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PART 2: PRE-BURN PLANNING

Specific Objectives: _____

Overstory Species: _____ Avg. Hgt. (ft.): _____ Avg. DBH(in.): _____

Age of Dominant Species: _____ Understory Species: _____

Fine Fuels: _____ Litter Depth (in.): _____ Fuel Type(Model): _____

Continuous	Patchy
Mineral	Organic

% Slope: _____ Aspect: _____ Elevation (ft): _____ Soil: _____

For In-Stand Burning: Basal Area (ft²/acre): _____ Ht. to Live Crown (ft.): _____ Allowable Scorch Height (ft.): _____

Smoke Management:

Direction to Smoke Sensitive Area (SSA)	N	NE	E	SE	S	SW	W	NW
Distance to SSA (miles)								

Tonnage: Estimated Acres _____ X Estimated Available Tons/Acre _____ = _____ Estimated Total Tons to be Burned

Acceptable Range of Weather Parameters:

Temp. (°F): _____ to _____ RH(%): _____ to _____ NWS 20' Wind Speed (MPH): _____ to _____

Wind Direction (Surface): N NE E SE S SW W NW

Mix Height (ft.): _____ to _____ Wind Direction (Transport): N NE E SE S SW W NW

Night-time Smoke Dispersion (minimum): _____ Acceptable Burn Categories: 1* 2 3 4 5

KBDI: _____ to _____ Fine Fuel Moisture (%): _____ to _____

*Tracts may be burned outside of VIS parameters by using Atmospheric Dispersion Modeling (ADM). ADM may only be used by those certified as an Atmospheric Dispersion Modeler by the NCFS. Model run data must be submitted to NCFS prior to ignition. Refer to the Smoke Management Program for details.

Other Weather Considerations: _____

Special Situations or Instructions: _____

Prepared By: _____ Title: _____ Certified Burner # _____ Date: _____

PART 3: PREPARATION FOR BURN

Resources needed: _____

Prior to ignition on day of burn, Burn Manager must confirm the following;							
NCFS Notified	Y N N/A	NFDRS Values Acceptable	Y N N/A	Area checked for new SSAs	Y N N/A	Adjacent landowners notified	Y N N/A
County 911 Center Notified	Y N N/A	Fire Line Installed & Cleaned	Y N N/A	Point Forecast Evaluated	Y N N/A	Crew Briefed	Y N N/A
Known T&E Species, Cultural, Historic Resources Protected	Y N N/A	Burning Permit Obtained	Y N N/A	On-Site Weather within Parameters	Y N N/A	Other: _____	Y N N/A
Burn Manager: _____ Title: _____				Certified Burner # _____ Date: _____			

PART 4: BURN EXECUTION

Base Line Location: _____

Base Line Width: _____ or # of Fire Lines: _____

Firing Technique: _____ Aerial Ignition Spacing (Ch., Ft.): _____

Test Fire Behavior: _____

Ignition Started: Date: _____ Time: _____

Ignition Completed: Date: _____ Time: _____

Active Burning Completed: Date: _____ Time: _____

On-Site Weather Readings, etc.				
Time of Readings:				
Temp. (°F)				
RH (%)				
Wind Direction				
Wind Speed (MPH)				
Calculated FFM				
Trans. Wind Direction				
KBDI Value				

PART 5: MOP-UP

Critical Areas/Special Instructions: _____

Distance Inside Line to be Mopped Up (ft.): _____ Applicable BMPs Used: **Y N N/A** Tract in FPG Compliance: **Y N**

Fire line to Rehabilitate (ft.): _____

Follow Up Checks: Date: _____ Time: _____ By Whom: _____

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PART 6: POST BURN EVALUATION

Acres Actually Burned: _____

Burn Objectives

Met

Partially Met

Unsatisfactory

Fire Effects	
Scorch Height (ft.)	
Crop Tree Mortality (%)	
Soil Exposure (%)	
Slash Removed (%)	
Fire Line Rehab Satisfactory	Y N N/A

Emissions: Acres Burned _____ X Tons/ Acre Burned _____ = _____ Total Tons Burned

Observations/Damage/Recommendations for Follow Up: _____

Evaluated By: _____ Date: _____

Estimated Forest Fuel Loading

Fuel Type	Estimated Available Tons Per Acre*		
	Low	Medium	High
Pine litter	3	6	12
Hardwood Litter	3	5	7
Mixed litter	4	6	8
Brush < 2 ft.	4	7	10
Brush 2 - 4 ft.	6	8	15
Brush > 4 ft.	10	20	30
Light (thin) slash	5	10	20
Medium (chopped) slash	10	20	40
Heavy (clearcut harvest) slash	30	40	60
Short grass (Wire grass)	2	5	7
Tall grass (Broomsedge/Marsh)	3	6	8

**This information is based on results of actual sample measurements and has represented accurately the fuel availability based on the selected loading range. Research studies and surveys that provide more accurate site-specific information concerning tonnage or fuel availability can be used.*

Smoke Management Allowable Tonnage Table

Burn Category	1 ¹	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5
Burn Type	Under story	Open	Under story	Open	Under story	Open	Under story	Open	Under story	Open	Understory	Open	Under story	Open	Under story	Open	Under story
Night Smoke Dispersion	Any	Poor to Very Poor	Poor to Very Poor	Good to Fair	Good to Fair	Poor to Very Poor	Poor to Very Poor	Good to Fair	Good to Fair	Poor to Very Poor	Poor to Very Poor	Good to Fair	Good to Fair	Poor to Very Poor	Poor to Very Poor	Good to Fair	Good to Fair
Time of Burn	Day Only	Day Only	Day Only	Day or Night	Day or Night	Day Only	Day Only	Day or Night	Day or Night	Day Only	Day Only	Day or Night	Day or Night	Day Only	Day Only	Day or Night	Day or Night
Miles to SSA																	
0<1/2	0	0	0	0	0	0	0	0	0	0	0	0	1030	0	0	0	1350
1/2 <5	50	360	720	720	1080	450	900	900	1350	720	1440	1440	2160	900	1800	1800	2700
5<10	100	720	1440	1440	2160	900	1800	1800	2700	1400	2880	2880	4320	1800	3600	3600	5400
10<20	150	1080	2160	2160	3024	1350	2700	2700	4150	2160	4320	4320	6480	2700	5400	5400	8100
20<30	150	1200	2400	2400	3600	1600	3200	3200	4800	2500	5000	5000	7500	3000	6000	6000	9000
30+	200	1440	2880	2880	4320	1800	3600	3600	5400	2880	5760	5760	8640	3600	7200	7200	10800

PART 7: CONTINGENCY PLANS

If the fire escapes beyond the suppression capabilities of the burning crew, or smoke dispersion is not occurring as planned, then the following contingency plan will be implemented:			
Command:	Who will declare an escaped fire & who will direct suppression efforts until additional resources arrive, if needed?		
Trigger Points	What trigger points will initiate implementation of your contingency plan?		
Notifications:	(list of who to notify, contact info and by whom)		
		By	
		By	
		By	
Additional Resources Needed & Acceptable Response Times	(who/what are they; how will you contact them?)		
Other Information:			

¹ Predicted minimum mixing height of 1,640 feet AND minimum transport wind speed of 9 MPH.