

Tract: \_\_\_\_\_  
 \_\_\_\_\_

<b>PRESCRIBED FIRE PLAN</b>
-----------------------------

NCFS District: \_\_\_\_\_  
 County: \_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**PART 1: GENERAL INFORMATION**

Landowner: _____ Address: _____ _____ _____ Phone: _____ Agent: _____ Agent Phone: _____	<p><b>Estimates</b></p> Acres to Burn: _____ Bladed Line (miles): _____ Plowed Line (miles): _____ Hand Line (feet): _____ Other: _____ Other: _____	<p><b>Purpose of Burn</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;"><input type="checkbox"/></td> <td>Site Preparation</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Silviculture</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Hazard Reduction</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Wildlife Habitat</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Other: _____</td> </tr> </table>	<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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<input type="checkbox"/>	Other: _____											

**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): _____	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border: 1px solid black;">Continuous</td> <td style="width: 50%; border: 1px solid black;">Patchy</td> </tr> <tr> <td style="border: 1px solid black;">Mineral</td> <td style="border: 1px solid black;">Organic</td> </tr> </table>	Continuous	Patchy	Mineral	Organic
Continuous	Patchy						
Mineral	Organic						

% Slope: \_\_\_\_\_ Aspect: \_\_\_\_\_ Elevation (ft): \_\_\_\_\_ Soil: \_\_\_\_\_

**For In-Stand Burning:** Basal Area (ft<sup>2</sup>/acre): \_\_\_\_\_ Ht. to Live Crown (ft.): \_\_\_\_\_ Allowable Scorch Height (ft.): \_\_\_\_\_

**Smoke Management:**

Direction to Smoke Sensitive Area (SSA)	<b>N</b>	<b>NE</b>	<b>E</b>	<b>SE</b>	<b>S</b>	<b>SW</b>	<b>W</b>	<b>NW</b>
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: \_\_\_\_\_

<b>Prior to ignition on day of burn, Burn Manager must confirm the following;</b>							
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: \_\_\_\_\_

Follow Up Checks: Date: \_\_\_\_\_ Time: \_\_\_\_\_ By Whom: \_\_\_\_\_

**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 <sup>1</sup>	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**

<b>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:</b>			
<b>Command:</b>	Who will declare an escaped fire & who will direct suppression efforts until additional resources arrive, if needed?		
<b>Trigger Points</b>	What trigger points will initiate implementation of your contingency plan?		
<b>Notifications:</b>	(list of who to notify, contact info and by whom)		
		By	
		By	
		By	
<b>Additional Resources Needed &amp; Acceptable Response Times</b>	(who/what are they; how will you contact them?)		
<b>Other Information:</b>			

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