

**PRESCRIBED FIRE PLAN**

Refuge or Station \_\_\_\_\_ Unit \_\_\_\_\_ |

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
Refuge Biologist

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
Prescribed Fire Burn Boss

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
FMO

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
AFMO

The approved Prescribed Fire Plan constitutes the authority to burn, pending approval of Section 7 Consultations, Environmental Assessments or other required documents. No one has the authority to burn without an approved plan or in a manner not in compliance with the approved plan. Prescribed burning conditions established in the plan are firm limits. Actions taken in compliance with the approved Prescribed Fire Plan will be fully supported, but personnel will be held accountable for actions taken which are not in compliance with the approved plan.

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_  
Project Leader

**PRESCRIBED FIRE PLAN**

Refuge: \_\_\_\_\_ Refuge Burn Number: \_\_\_\_\_

Sub Station: \_\_\_ Fire Number: \_\_\_ See Burn # \_\_\_\_\_

Name of Area: \_\_\_\_\_ Unit No. NA \_\_\_\_\_

Acres To Be Burned: \_\_\_ Perimeter Of Burn: \_\_\_\_\_

Legal Description: Lat. \_\_\_ Long.  
Unit 1 Lat. \_\_\_ Long.

County & State:

Is a Section 7 Consultation being forwarded to Fish and Wildlife Enhancement for review? Yes \_\_\_ No \_\_\_ (check one).

(Page 2 of this PFP should be a refuge base map showing the location of the burn on Fish and Wildlife Service land)

The Prescribed Fire Burn Boss/Specialist must participate in the development of this plan.

I. GENERAL DESCRIPTION OF BURN UNIT

Physical Features and Vegetation Cover Types (Species, height, density, etc.):  
Primary Resource Objectives of Unit (Be specific. These are management goals):

Objectives of Fire (Be specific. These are different than management goals):

- 1)
- 2)
- 3)
- 4)

Acceptable Range of Results (Area burned vs. unburned, scorch height, percent kill of a species, range of litter removed, etc.):

- 1)
- 2)
- 3)
- 4)

**Resource Management Considerations**

**Cultural resources**

**RCRC filed with Regional Cultural Resources Office?**

**YES**

**NO (If not explain)**

**Cultural Resources Inventory Complete?**

**YES**

**NO (If not explain)**

**Cultural Resources Concerns (List concerns which need to be addressed during site preparation or project implementation):**

**Wildlife Management**

**Justification for the Project-**

**Potential Positive Impacts-**

**Potential Negative Impacts-**

## **II. PRE-BURN MONITORING**

<b>Vegetation Type Total</b>	<b>Acres</b>	<b>%</b>	<b>FBPS Fuel Model</b>
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**Habitat Conditions (Identify with transect numbers if more than one in burn unit.):**

**Type of Transects:**

**Photo Documentation (Add enough spaces here to put a pre-burn photo showing the habitat condition or problem you are using fire to change/correct. A photo along you're transect may reflect you're transect data.): .**

**Other:**

### **III. PLANNING AND ACTIONS**

**Complexity Analysis Results:**

**Site preparation (What, when, who & how. Should be done with Burn Boss)**

**Weather information required (who, what, when, where, how, and how much):**

**Safety considerations and protection of sensitive features (Adjacent lands, visitors, facilities, terrain, etc., and needed actions. Include buffer and safety zones. Be specific; indicate on a burn unit map. Map should be a USGS quadrangle if possible, so ridges, washes, water, trails be identified.)**

**Special Safety Precautions Needing Attention (Aerial ignition, aircraft, ignition from boat, etc.):**

**Media Contacts (Radio stations, newspaper, etc., list with telephone numbers):**

**Special Constraints and Considerations (Should be discussed with Burn Boss):**

**Communication and Coordination on the Burn (Who will have radios, frequencies to be used, who will coordinate various activities.):**

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**IV. IGNITION, BURNING AND CONTROL**

**Planned or Proposed**

**Actual**

**Scheduling: Approx. Date(s)** \_\_\_\_\_  
**Day** \_\_\_\_\_

**Time of**

**Acceptable Range**

FBPS Fuel Model	Low	High	Actual
Temperature			
Relative Humidity			
Wind Speed (20' forecast)			
Wind Speed (mid-flame)			
Wind Direction			
<b>ENVIRONMENTAL CONDITIONS</b>			
Soil Moisture			
1 hr. Fuel Moisture			
10 hr. FM			
100 hr. FM			
Woody Live Fuel Moisture			
Herb. Live Fuel Moisture			
Litter/Duff Moisture			
<b>FIRE BEHAVIOR</b>			
Type of Fire (H,B,F)	B	H	
Rate of Spread (ch/hour)			
Fireline Intensity			
Flame Length			
Energy Release Component NFDRS Fuel Model <u>  L  </u>			

**Note:**

**Cumulative effects of weather and drought on fire behavior:**

**Ignition Technique (Explain and include on map of burn unit. Use of aerial ignition must be identified in this plan. Last minute changes to use aircraft will not be allowed and will be considered a major change to the plan. This will require a resubmission):**

**Prescribed Fire Organization (See Section VII, Crew and Equipment Assignments. All personnel and their assignments must be listed. All personnel must be qualified for the positions they will fill.)**

**Other (If portions of the burn unit must be burnt under conditions slightly different than stated above, i.e., a different wind direction to keep smoke off of a highway or off of the neighbors wash, detail here.)**

**Prescription monitoring (Discuss monitoring procedure and frequency to determine if conditions for the burn are within prescription):**

## **V. SMOKE MANAGEMENT**

**Make any Smoke Management Plan an attachment. Also attach pertinent smoke variances (if any) and all SASEM runs.**

**Permits required (who, when):**

**Distance and Direction from Smoke Sensitive Area(s):**

**Necessary Transport Wind Direction, Speed and Mixing Height (Explain how this information will be obtained and used):**

**Visibility Hazard(s) (Roads, airports, etc.):**

**Actions to Reduce Visibility Hazard(s):**

**Residual Smoke Problems (Measures to reduce problem, i.e., rapid and complete mop-up, mop-up of certain fuels, specific fuel moistures, time of day, etc.):**

**Particulate emissions in Tons/Acre and how calculated (This should be filled in after the burn so more precise acreage figures can be used):**

**VI. FUNDING AND PERSONNEL**

**Activity Code:**

**Costs**

	<b>Equipment &amp; Supplies</b>	<b>Labor</b>	<b>Overtime</b>	<b>Staff Days</b>	<b>Total Cost</b>
<b>Administration (planning, permits, etc.)</b>					
<b>Site Preparation</b>					
<b>Ignition &amp; Control</b>					
<b>Travel/Per Diem</b>					
<b>Total</b>					

## VII. BURN-DAY ACTIVITIES

**Public/Media Contacts on Burn Day (List with telephone numbers):**

**Crew & Equipment Assignments (List all personnel, equipment needed, and assignments. The following is not an all inclusive list for what you may need.)**

**Crew Briefing Points (Communications, hazards, equipment, water sources, escape fire actions, etc. To be done by Burn Boss. Refer to Safety Considerations in Planning Actions and points listed below):**

**Ignition Technique (Methods, how, where, who, and sequence. Go over what was submitted in Section IV and any changes needed for the present conditions.)  
Attach ignition sequencing map if necessary:**

**Personnel Escape Plan:**

**Special Safety Requirements:**

**Go-No-Go Checklist:**

## GO-NO-GO CHECKLIST

\_\_\_\_\_  
Unit

- \_\_\_\_\_ Is burn plan complete and approved?
- \_\_\_\_\_ Are all fire prescriptions specifications met?
- \_\_\_\_\_ Are all smoke management prescriptions met?
- \_\_\_\_\_ Is the current and projected fire weather forecast favorable?
- \_\_\_\_\_ Have all air quality considerations and smoke requirements been met?
- \_\_\_\_\_ Have all required cultural resource protection objectives been met?
- \_\_\_\_\_ Are all personnel required in the prescribed burn plan on-site and are they all qualified for their assigned duties?
- \_\_\_\_\_ Have all personnel been briefed on the prescribed burn plan requirements?
- \_\_\_\_\_ Have all personnel been briefed on safety hazards, escape routes, and safety zones?
- \_\_\_\_\_ Is all required equipment in place and in working order?
- \_\_\_\_\_ Are available (including back-up) resources adequate for containment of escapes under the worse-case conditions?
- \_\_\_\_\_ Are answers to all of the above questions “YES”?
- \_\_\_\_\_ In your opinion, can the burn be carried out according to the plan and will the burn meet planned objectives?
- \_\_\_\_\_ Is there an adequate contingency plan developed and proofed?

All 14 questions have been answered “YES”.

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

\_\_\_\_\_  
Date

\_\_\_\_\_  
Refuge Manager or Designee

\_\_\_\_\_  
Date

**Holding and Control:**

**Critical Control Problems:**

**Water Refill Points:**

**Other:**

**Contingency Plan for Escaped Fire (Are there crews standing by to initial attack or will people doing other jobs be called upon to do initial attack, who must be called in case of an escape, what radio frequencies will be used, etc.)**

**Mop Up and Patrol:**

**Rehabilitation Needs:**

**DI 1202 Submission Date:**

**Special Problems:**

### **VIII. CRITIQUE OF BURN**

**Were burn objectives within acceptable range of results? (Refer to Section I):**

**What would be done differently to obtain results or get better results?**

**Was there any deviation from plan? If so, why?**

**Problems and general comments:**

**IX. POST-BURN MONITORING**

**Date: \_\_\_\_\_ Refuge Burn Number:**

**Length of Time after Burn:**

**Vegetative Transects:**

**Comments on Habitat Conditions, etc.:**

**Photo Documentation:**

**Other:**

**X. FOLLOW-UP EVALUATION**

**Date: \_\_\_\_\_ Refuge Burn Number:**

**Length of Time after Burn:**

**Vegetative Transects:**

**Comments on Habitat Conditions, etc.:**

**Photo Documentation:**

**Other:**

**DAILY FIRE BEHAVIOR MONITORING SHEET**

**Refuge:**

**Project Name:** \_\_\_\_\_ **RX Fire Number:**

**Date of Burn:**

**Ignition Time: Start:** \_\_\_\_\_ **Finish:**

**Weather Observations During Burn:**

Time of Weather Observations

Dry Bulb Temp							
Wet Bulb Temp							
RH							
Wind Speed							
Wind Direction							
Cloud Cover %							

**Comments Concerning Weather:**

**Last Live Fuel Moisture Measurement:** \_\_\_\_\_ **1-Hour Fuel Moisture:**

**10-Hour Fuel Moisture (from fuel stick):** \_\_\_\_\_ **Haines Index:**

**Test Fire Results:**

**Firing Pattern:**

**Fire Behavior Characteristics** (Rate of Spread, Flame Length, Fire Spread Direction, etc.):

**Acres Treated:**

**Smoke Dispersal Narrative** (venting height, transport wind speed & direction, visibility, holding problems, problem spots, complaints, etc.):

**Burn Severity**

**Effects to Vegetation Narrative:**

**Ground Char (%):** Unburned \_\_\_\_\_ Light \_\_\_\_\_ Moderate \_\_\_\_\_ Deep \_\_\_\_\_

**Soil Moisture on Day of Burn:**

**Were Resource Objectives Met?** (If burn was successful, what conditions made it possible, ie: low live fuel moisture, high winds, etc.)

**Photos of Fire Area:**

Preburn	Yes	_____	No
During Burn	Yes	_____	No
Postburn	Yes	_____	No

**Daily Burn Cost:** \_\_\_\_\_ **Vehicles Used:** \_\_\_\_\_

Personnel Cost:	\$	_____	_____
Equipment Cost:	\$	_____	_____
Fuel Cost:	\$	_____	_____
<b>Total:</b>	<b>\$</b>	_____	_____

**Cost per Acre:** \$ \_\_\_\_\_

**Burn Organization:**

**Burn Boss:** \_\_\_\_\_  
**Holding Specialist:** \_\_\_\_\_  
**Ignition Specialist:** \_\_\_\_\_  
**Lighting Crew:** \_\_\_\_\_

**Holding Crew:**

**Burn Evaluation Prepared By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

\*\*Attach pertinent Spot Weather Forecast, WIMS/NFDRS, Smoke Mgt Variance, etc. information for burn day to back of sheet.