

## Prescribed Burn Plan

Landowner/Operator:  County:

Address:

Phone:  Acres to Burn:  Planned Timing of Burn:

Field(s):  T:  R:  Section:

**A. Description of Burn Area:**

1. Land Use:

2. Present Plant Cover:

**a. Woody Plants**

Species:	Height (ft.)	Basal Diameter (in.)	% Canopy
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>

**b. Herbaceous Plants**

Species:	Height (ft.)	Tons / Acre
Cool Season Grasses		
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
Warm Season Grasses		
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
Forbs / Broadleaf:		
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
<input style="width: 100%;" type="text"/>	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>

3. Topography:

	a. Slope %	b. Aspect
field no.	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
field no.	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>
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field no.	<input style="width: 50%;" type="text"/>	<input style="width: 50%;" type="text"/>

**B. Objective and Growth Stage for Burn:**

- Stimulate Warm Season Grass (WSG) (1-3" new growth)
- Control Woody Plants (full leaf)
- Stimulate Cool Season Grass (CSG) (1-3" new growth)
- Distribute Grazing (1-3 " new growth)

- Reduce Wildfire Hazard
- Stimulate Forbs
- Reduce CSG Growth (1-3" new growth WSG)
- Remove litter / Create Bare Ground

Additional / Detailed Objective(s):

**C. Acceptable Conditions for Prescribed Burns:**

Humidity	20 ft. (above ground) Wind Speed in Miles per Hour *						
	4	6	8	10	12	14	16
25-34%	C-S	C-S	C-S	C			
35-39%	C-S	C-S	C-S	C-S	C		
40-44%	C-S	C-S	C-S	C-S	C-S	C	
45-59%	C-S	C-S	C-S	C-S	C-S	C-S	C
60-69%	S	C-S	C-S	C-S	C-S	C-S	C-S
70-79%		S	C-S	C-S	C-S	C-S	C-S
80-89%			S	C-S	C-S	C-S	C

\* Most weather forecasts give wind speeds measured at 20 feet above ground. Eye level wind speed is approximately 1/2 of the 20 ft. wind speed

C = 60-90% cloud cover or Before 10:00 AM or After 3:00 PM

S = 0-59% cloud cover or from 10:00 AM till 3:00 PM

**Specific or Ideal Weather Conditions:**

**1. Comments:**

Starting time of the burn will generally be before 10:00 AM or After 3:00 PM when humidity, temperature and wind speed / direction are favorable for safe burning. Between 10:00 AM and 3:00 PM temperature and wind speeds are at their daily highest and humidity at its lowest. Be more cautious of starting a burn during this time frame. Review the table above for humidity, cloud cover, and wind speed guidance.

- \*\*\*\* **The best wind direction for burning is:**
- \*\*\*\* **Plan map firing sequence wind direction:**
- \*\*\*\* **Alternative wind direction(s) [firing sequence must be altered]:**

**2. Ignition Plan and Firing Sequence: (See the plan map)**

Due to the small size of the burns the Back Fire or Flank Fire method will be used. The firing crew will start at the d and travel slowly to complete the downwind portion of the line.

**\* Parties igniting a prescribed burn may be liable for damages resulting from the fire and smoke, and control costs, should the fire escape the designated area.**

Additional Instructions:

**D. Preparation of Area for Burning:**

**1. Firebreak Construction:**

- a. Firebreak width should be two times the height of the adjacent vegetation
- b. Plowed, disked, and burned firebreaks, being essentially devoid of fuel, provide the least danger of fire escape.
- c. Close mowed and cool season grass firebreaks have fuel available that can provide an avenue for fire escape. Smoke from green growth reduces visibility inhibiting burn monitoring
- d. High mowed fire intensity reduction lines (8-12" stubble) will be installed if fine fuel exceeds 1.5 tons / acre. Line width will be at least 10 feet at 1.5 - 3 tons / acre and 20 feet at > 3 tons / acre.

**e. Kind of Firebreak:**

	Width
Disked / Plowed:	
Close Mowed:	
Cool Season Grass:	
High Mowed Intensity Reduction:	
Other Firebreaks i.e. raked, black lines:	

- \* See plan map for location and extent of firebreaks
- \* Firebreaks should be installed as far in advance (6 months) of anticipated burning period as possible

**f. Existing Firebreaks: (describe here and show location and extent on the plan map)**

**g. Potential Hazards Present within the Burn Area:**

(describe here and show location and extent on the plan map)

**E. Adjacent Areas: (outside of burn area)**

**1. Special Precaution Areas: (describe here and show location on the plan map)**

**2. Backup or Secondary Firebreaks: (describe here and show locations on the plan map)**

**F. Equipment / Personnel Needs:**

**1. Safety Equipment:**

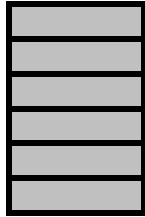


- Clothing - natural fiber (cotton, wool)
- Boots - leather
- Gloves - leather, cotton, wool
- Bandanas / Face Mask



- Goggles
- First Aid Kit
- Drinking Water

**2. Tools / Equipment: (check equipment required and state numbers of tool needed)**



- 100-300 gallon backup water supply with pump, 100 ft. of hose and hand wand
- ATV w/ Sprayer (hose and hand wand)
- Drip Torch(es)
- Backpack Sprayer(s)
- Flapper(s)
- Blower(s)



- Cell Phone
- Radios
- Broom Rake(s)
- Wire Cutters
- Chain Saw

**3. Personnel Needed:**



total no. of people needed

Designated Fireboss:  (name of person)



Ignition crew (no. of people using a drip torch)



Holding crew (no. of people using flapper, rake, backpack, ATV w/ Sprayer containing the fire in the designated area)



Mop-Up Crew (no. of people following the holding crew checking for escapes, using flappers, rakes, backpack, ATV w/ sprayer)



Traffic Control Spotters (no.)

\* Using the Ring-Head Fire Method of Ignition typically two crews with 2 to three people each are used. One person lights the fire with the drip torch, with one crew member serving as the holding crew putting out fire along the firebreak if needed, trailed by another person serving as the mop-up crew, watching for escapes

**G. Special Considerations:**

**1. Precautions to Prevent Fire Escape:**



- Check Firebreaks
- Check tools and Equipment
- Check and monitor weather conditions
- Review the burn plan with all crew members
- Review with crew members plan to handle an escape, who does what and goes where
- Check fire behavior with a test fire in down wind corner / side of burn area
- Allow back and flank fires to burn 50 ft. into the burn area before lighting the head fire

**2. Suppression Plan if Fire Escapes:**



- Cease Ignition
- Leave sufficient personnel with the prescribed burn to prevent further escape
- Remainder of personnel move to suppress the escape
- One person will be designated to bring the backup water supply
- One person will call the fire department

**3. Patrol and Mop-Up:**



- The burn crews will remain on-site until all fires are extinguished
- Patrol the firebreaks before leaving the site
- Check wooded areas for spot-overs

**H. Prescribed Burn Plan Map:**

See Attached Sketch

See Attached Aerial Photocopy

**1. Plan Map Requirements:**

- North Arrow
- Planned Wind Direction
- Firing Crew Designations
- Firing Direction
- Firing Sequence
- Location of Backup Water Supply
- Firebreaks:

- Existing Firebreaks
- Hand lines (raked, blower)
- Burned Firebreak (black lines)
- Cool Season Grass
- Plowed / Disked
- Close Mowed
- High Mowed Intensity Reduction
- Secondary / Backup Firebreaks

- Land uses (fuel types) Surrounding Burn Area
- Special Precaution Area(s) {inside and outside burn area}
- Other Items: (optional)

- Ingress / Egress (escape) Route(s)
- Gate Location(s)
- Fences

Plan Prepared By:

\_\_\_\_\_

(signature)

Date:

\_\_\_\_\_

Plan Checked By:

\_\_\_\_\_

(signature)

Date:

\_\_\_\_\_

**I have requested the preparation of this burn plan; my signature establishes my acceptance of full liability resulting from implementation of this plan.**

Landowner/Legal Power-of-Attorney:

\_\_\_\_\_

(signature)

Date:

\_\_\_\_\_

## Pre-Burn Checklist (Day of the Burn):

Landowner/Operator:

Field(s):

**\* Parties igniting a prescribed burn may be liable for damages resulting from the fire and smoke, and control costs, should the fire escape the designated area.**

1. Weather Forecasts Obtained? 

	Yes		No
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2. Weather Forecast Favorable? 

	Yes		No
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3. Necessary Firebreaks Constructed? 

	Yes		No
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4. Potential Hazards Accounted For? 

	Yes		No
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5. Special Caution Areas Noted? 

	Yes		No
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6. Backup and Secondary Firebreak Locations Noted? 

	Yes		No
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7. Safety Equipment Adequate? 

	Yes		No
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8. Tools / Equipment On Site and in Operable Condition? 

	Yes		No
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9. Personnel Needed are Available? 

	Yes		No
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10. Special Considerations Reviewed with Crew? 

	Yes		No
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11. Actual Weather at Time of Burn:

<input style="width: 80px; height: 20px;" type="text"/>	Temperature	<input style="width: 80px; height: 20px;" type="text"/>	Humidity	<input style="width: 80px; height: 20px;" type="text"/>	Wind Speed at eye level
<input style="width: 80px; height: 20px;" type="text"/>	Cloud Cover %			<input style="width: 80px; height: 20px;" type="text"/>	Wind Direction
					Fronts / Changes Expected?

12. Neighbors Informed? 

	Yes		No
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Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

13. Other Notifications:

	Phone No.			Phone No.
<input style="width: 80px; height: 20px;" type="text"/> MO Dept. of Conservation				
<input style="width: 80px; height: 20px;" type="text"/>				
<input style="width: 80px; height: 20px;" type="text"/> Fire Department				

14. Necessary Permits Acquired? 

	Yes		
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15. Are Any Restrictions to Open Burning in Place? 

	Yes		
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16. Did Test Fire Behave as Expected? 

	Yes		
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If no, explain reason(s) and response:

No permits necessary. No restrictions in place for open burning. \* = non-emergency dispatch

**Checked by:** \_\_\_\_\_

Date: \_\_\_\_\_

## Post-Burn Evaluation (Day of Burn):

Landowner/Operator:

Field(s):

1. Firing Method Used?

2. Timing of Burn:            Start:         (AM)     (PM)  
    Completed:     (AM)     (PM)

3. Observed Weather Changes During Burn:

4. Fire Behavior:

		None		Few		Many
Escapes						
Difficult to Control				Yes		No
Convection column				Yes		No
Fire Swirls				Yes		No

5. Objectives of Burn Met?

6. Additional Treatment Needed?             Yes     No  
 If yes, explain:

7. Timing (mm/yy) and Objective of Next Burn?

8. Additional Comments:

**Checked by:** \_\_\_\_\_

Date: \_\_\_\_\_

**Follow -Up Evaluation (60-90 Days after the burn):**

Landowner/Operator:

Field(s):

1. Objectives of Burn Met?  Yes  No

If no, explain:

2. Additional Treatment Needed?  Yes  No

If yes, explain:

3. Timing (mm/yy) and Objective of Next Burn?

4. Additional Comments:

**Checked by:**

\_\_\_\_\_

Date:

\_\_\_\_\_