

## DAY OF BURN CHECKLIST

**Area/Field, Stand or Unit No.:**

**Date:**

**Burn Day Checklist (Go/No Go):**

Refer to contents of Burn Plan

\_\_\_\_\_ Notifications made

\_\_\_\_\_ All equipment present and in working order

\_\_\_\_\_ Personnel on site with proper personal protective equipment

\_\_\_\_\_ Personnel briefed on procedures and contingencies

\_\_\_\_\_ Personnel briefed on communications and safety zones

\_\_\_\_\_ Backup resources available

\_\_\_\_\_ Weather within prescription

Time: \_\_\_\_\_

Wind speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Temperature: \_\_\_\_\_ RH: \_\_\_\_\_

\_\_\_\_\_ First aid kits fully stocked

Emergency medical services: \_\_\_\_\_  
Name Phone

I certify that all items on the checklist are "go" for the burn:

\_\_\_\_\_  
Prescribed Fire Burn Boss

## POST-BURN EVALUATION

### Weather

Pre-burn Time: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Relative humidity: \_\_\_\_\_  
Windspeed: \_\_\_\_\_  
Direction: \_\_\_\_\_

Post-burn Time: \_\_\_\_\_  
Temperature: \_\_\_\_\_  
Relative humidity: \_\_\_\_\_  
Windspeed: \_\_\_\_\_  
Direction: \_\_\_\_\_

### Fire behavior

Rate-of-spread: \_\_\_\_\_  
Flame lengths: \_\_\_\_\_

Circumstances of any erratic fire behavior:

Smoke dispersal during burn:

Percent of area burned:

Amount of fuel consumed:

Any public interest during burn – pro or con:

#### 4.9 Missouri Natural Resources Conservation Service Burn Plan

## Part MO413 – Prescribed Burning

### Subpart B - Policy

#### MO413.10 Prescribed Burning.

- A. Natural Resources Conservation Service (NRCS) assistance to private landowners in Missouri during the application of prescribed burning is prohibited. Missouri NRCS employees will not be present during prescribed burns on private land.
- B. Prescribed burning may be planned by NRCS employees on all land uses to manipulate or manage the vegetation to meet specific resource management objectives. Planning will be in accordance with the National Planning Procedures Handbook, Prescribed Burning (Code 338) practice standard criteria, Section IV, Missouri Field Office Technical Guide, GM 190 – Part 413 Subpart B and this Missouri amendment to national policy.

#### MO413.11 Training.

- A. Missouri NRCS employees who include Prescribed Burning (Code 338) as a practice utilized in the conservation planning process or who anticipate becoming involved with planning Prescribed Burning will be provided with training opportunities necessary to acquire the knowledge and experience required to meet the various levels of Missouri NRCS job approval.
- B. It is the employee's responsibility to maintain documentation of training received and a record of experience on form MO A-2, *Request for Prescribed Burning Job Approval*.
- C. NRCS employees will only participate in burn training on public lands with a representative of the public land agency on-site. All burn training must be carried out with the supervision of a qualified burn boss from NRCS, Missouri Department of Conservation (MDC), private contractor (e.g. Technical Service Providers) or other approved entity.
- D. Under no circumstances shall an NRCS employee, attending training, initiate the burn.

#### MO413.12 Certification and Authority.

- A. The State Conservationist will designate an NRCS employee to be the "State Prescribed Burn Specialist" (SPBS).
- B. The SPBS shall have **Prescription (Rx) Burn Planner 2** job approval authority. SPBS duties include: 1) Reviewing requests for job approval authority; 2) Providing consultation to the State Resource Conservationist (SRC) for job approval authorities and other related duties; 3) Coordinating/providing necessary training.
- C. Area Conservationists will designate an employee from within their area to be the "Area Prescribed Burn Specialist" (APBS).

D. APBS shall have **Rx Burn Planner 2** job approval authority. APBS duties include: 1) Reviewing area requests for job approval; 2) Maintaining area job approval records; 3) coordinating area job approvals with SPBS; 4) Annually forwarding copies of area summaries of job approvals to State Grassland Conservationist.

E. The following steps outline the process for acquiring NRCS job approval authority for prescribed burning:

- (1) The State Resource Conservationist, in consultation with the SPBS, will determine and grant all job approvals and/or changes.
- (2) Requests for initial job approval and changes in job approval originate with the employee and are submitted on MO A-2, "*Request for Prescribed Burning Job Approval*" to the APBS.
- (3) If the APBS concurs, the original request with a recommended job approval level will be forwarded to the SPBS. If the APBS does not concur, the request is returned to the employee with the reasons for non-concurrence and actions needed before the request is resubmitted.
- (4) If the SPBS concurs, the original request will be forwarded to the SRC for approval. After approval, the SPBS will record the information and return the original MO A-2 to the APBS. The APBS will make copies from the original for the files and return the original form to the employee. APBS will record summaries of job approvals on the Burn Job Approval excel spreadsheet and forward the spreadsheet to the State Grassland Conservationist each October. If the SPBS or SRC does not concur, the request will be returned to the APBS with the reason for non-concurrence and actions needed before the request is resubmitted.
- (5) After completion of this training approval, employees will maintain a record of prescribed burning activity for each fiscal year on form MO A-2, "Record of Activity" section. The APBS will review this record and at least one burn plan with the employee once every three years.
- (6) A request for change in level of job approval will be made by submitting a copy of the original request form with the accumulated record of activity, following steps 1-4 described above.

F. NRCS will have three job approval levels for employees developing conservation plans and/or practice specifications that incorporate Prescribed Burning (Code 338).

- (1) **Awareness:** This job approval authorizes an employee to include prescribed burning as a practice utilized in the conservation planning process. This level of job approval is required for any employee who discusses prescribed burning as an alternative with a landowner or incorporates prescribed burning as a practice in the conservation plan, regardless of whether they write the actual burn plan. Awareness approval does **not** authorize employees to write prescribed burn plan prescriptions except when they are

actively pursuing **Rx Burn Planner 1** job approval authority.

- a. To qualify for **Awareness** approval, an employee must attain 16 hours of awareness training by attending the approved MO-NRCS Prescribed Burn Awareness classroom instruction (or SRC approved equivalent) and participating in the application of one prescribed burn while under the supervision of a qualified burn boss from NRCS, MDC, private contractor (e.g. Technical Service Providers) or other approved entities.
- b. Once an employee receives **Awareness** job approval, there will be no further requirements to maintain this level of job approval.

(2) **Rx Burn Planner 1:** This job approval authorizes an employee to prepare prescribed burning plans on private land with <60 acres in one firing sequence (plan can cover more than 60 acres), a slope restriction of <12% (average slope) and fuels that include:

- all herbaceous species
- non-volatile woody species
- a limited number (<25% coverage) of live volatile woody species\* less than 4 feet tall that will not contribute to a significant change in fire intensity or behavior
- dead woody fuel that will not contribute to a significant change in fire intensity or behavior

*\*Live volatile woody species are those that have a chemical make-up that causes them to be somewhat "explosive," especially during certain seasons. Examples include eastern red cedar, shortleaf pine, blackberry vines, serecia lespedeza, honeysuckle, and sumac.*

All plans must be checked for completeness by an individual with **Rx Burn Planner 2** job approval. For training purposes only, an employee can, under the supervision of a qualified burn boss from NRCS, MDC, private contractor (e.g. Technical Service Providers) or other approved entity, actively participate in the application of prescribed burning plans on public lands.

- a. To qualify for **Rx Burn Planner 1** job approval, an employee must complete the requirements outlined below within 3 years of satisfactorily completing the MDC Level 2 classroom instruction and the NRCS supplement to this course:
  - Develop three prescribed burning plans. Plans will be reviewed by a person with **Rx Burn Planner 2** Job Approval Authority.
  - Serve as a crew member during the application of two prescribed burning plans on public lands under the supervision of a qualified burn boss from NRCS, MDC, private contractor (e.g. Technical Service Providers) or other approved entity.
  - Assist with two post-burn evaluations.
  - Assist in one (60-90 day) follow-up evaluation.

- b. To maintain Rx Burn Planner 1 approval, an employee must prepare one prescribed burn plan within 3 years and serve as a crew member during the application of one prescribed burning plan on public lands under the supervision of a qualified burn boss from NRCS, MDC, private contractor (e.g. Technical Service Providers) or other approved entity or demonstrate good prescribed burning judgment, knowledge, and skill, be recommended by the APBS and SPBS, and be approved by the SRC.
  - c. All employees with **Rx Burn Planner 1** job approval will have each burn plan reviewed for completeness by an **Rx Burn Planner 2** level employee.
- (3) **Rx Burn Planner 2:** This job approval authorizes an employee to prepare prescribed burning plans on private land with no slope restrictions that are <320 acres in one firing sequence (plan can cover more than 320 acres) with fuels that include:
- all herbaceous species
  - non-volatile woody species
  - live volatile woody species\* less than 4 feet tall
  - a limited number (<25% coverage) of live volatile woody species\* greater than 4 feet tall that will not contribute to a significant change in fire intensity or behavior
  - dead woody fuel that will not contribute to a significant change in fire intensity or behavior

**Rx Burn Planner 2** job approval also authorizes an employee to check burn plans prepared by employees with **Rx Burn Planner 1** approval and serve as burn boss in the application of prescribed burning plans within his/her job approval authority on land owned or operated by NRCS (e.g., Plant Material Center).

*NRCS employees are not authorized to write, implement, review, or approve prescribed burn plans that exceed **Rx Burn Planner 2** criteria.*

- a. To qualify for Rx Burn Planner 2 approval, an employee with **Rx Burn Planner 1** approval must satisfactorily complete the MDC Level 3 classroom instruction and develop five or more prescribed burn plans, two of which must meet **Rx Burn Planner 2** criteria. All plans must be reviewed by an employee with **Rx Burn Planner 2** job approval.
- b. To maintain Rx Burn Planner 2 approval, an employee must prepare and/or review three prescribed burn plans within 3 years and serve as a crew member during the application of one prescribed burning plan on public lands under the supervision of a qualified burn boss from NRCS, MDC, private contractor (e.g. Technical Service Providers) or other approved entity or demonstrate good prescribed burning judgment, knowledge, and skill, be recommended by the APBS and SPBS, and be approved by the SRC.

G. The SRC, in consultation with the SPBS, may grant job approval authority to employees who have previous education and experience.

H. Employees who are actively involved in planning prescribed burns are encouraged to pursue other continuing education courses to expand their knowledge and skills (e.g., National Wildfire Coordination Group courses).

I. Refer to Table 1, “*Missouri Job Approval Authority for Prescribed Burning*”, for a summary of job approval level criteria/policies.

J. If an employee fails to follow established NRCS policies, procedures and practice criteria for Prescribed Burning (Code 338), his/her job approval will be revoked.

### **MO413.13 Planning Prescribed Burns.**

A. Only trained employees with appropriate job approval will provide planning assistance on prescribed burning. A detailed plan for the proposed burn area will be prepared using Job Sheet Agron-18. All prescribed burn plans will contain the following statement:

*“On-site assistance by NRCS personnel to accomplish burning operations on private land is not authorized. NRCS staff, cooperating organizations or cooperating state agencies are not authorized to provide assistance to carryout any portion of this plan as an official NRCS representative.”*

B. Landowners should be encouraged to attend the standardized MDC/NRCS Landowner Prescribed Burn Workshop prior to receiving the prescribed burn plan. Either the landowner or a representative with legal Power of Attorney must sign the burn plan following review with an NRCS employee. A signed copy of the prescribed burn plan must be retained in the landowner’s field office case file.

### **MO413.14 Technical Planning and Application Assistance.**

A. NRCS employees are only permitted to participate in the application of prescribed burns on public land as required for training and job approval authorization. All participation in training burns must have prior approval by the employee’s supervisor.

B. Any onsite assistance by NRCS personnel to private landowners during the application of prescribed burning is prohibited. Follow-up assistance with landowners and operators to evaluate the effects of their burning operations is permitted.

C. Employees are authorized to participate on prescribed burns on lands owned or operated by NRCS (e.g., Plant Material Center) for the purpose of maintaining or applying treatments. All such burns will be carried out with supervision of a qualified burn boss from NRCS, MDC, private contractor (e.g. Technical Service Providers) or other approved entity.

## MO413.15 Safety.

A. All employees attending training will wear appropriate personal protective equipment (PPE) when participating in a prescribed burn activity. Mandatory PPE includes:

*Provided by the employee:*

- Long sleeved shirts and pants made of 100% cotton or wool or NOMEX material. Shirts should be of sufficient length to allow overlap of gloves and shall be worn with sleeves down and fastened and shirt tails tucked into pants. Pants shall not have cuffs or frayed bottoms and must extend to cover boot tops. Hats, coats, and coveralls must meet these fabric requirements.
- Leather boots (preferably lace-up with a heavy, lug sole)
- Leather gloves

*Provided by NRCS:*

- Eye protection including safety glasses or goggles
- Hardhat on any burn that includes forest or woodland in the burn area or burns that include live volatile woody species greater than 4 feet tall.
- Hearing protection if the employee is operating motorized equipment (i.e. blower or chainsaw)

B. Smoke management will be considered during prescribed burn planning activities. The following criteria apply to all activities regardless of job approval level:

- NRCS prescribed burn planning assistance is not allowed on fields that are within 1/8 mile of a road with an Average Annual Daily Traffic (AADT) of 1200 as estimated by the Missouri Department of Transportation. Reference the following website for statewide information:

<http://www.modot.org/safety/trafficvolumemaps.htm>

- Special consideration must be given to sites that are located in airsheds of concentrated residences or areas with moderate public use or visibility.
- All plans shall be written so that the planned wind direction takes smoke away from roads, residences, or other sensitive areas.
- No planning shall occur within one mile of an airport unless the landowner acquires written approval from that airport authority.

**MO413.12 Certification and Authority****Table 1. MISSOURI JOB APPROVAL AUTHORITY FOR PRESCRIBED BURNING**

<b>Factor / Class</b>	<b>Awareness</b>	<b>Rx Burn Planner 1</b>	<b>Rx Burn Planner 2 (3/)</b>
<b>Duties/Activities</b>	Include practice Prescribed Burning (Code 338) in Conservation Planning Process	Prepare burn plans with restrictions on size, vegetation, and slope. All plans must be submitted to an Rx Burn Planner 2 for approval	Prepare burn plans with restrictions on size and vegetation. Review plans written by Rx Burn Planner 1 staff. Serve as Burn Boss on prescribed burns on land owned or operated by NRCS (PMCs).
<b>Required Classroom Training</b>	NRCS Awareness Training (or SRC approved equivalent)	MDC Level 2 NRCS Supplement	MDC Level 2 NRCS Supplement MDC Level 3
<b>Qualifications to Obtain</b>	Following classroom instruction, participate on 1 prescribed burn on public land	Following classroom instruction, prepare 3 burn plans and participate on 2 prescribed burns on public land and post-burn evaluations	Following classroom instruction, prepare 5 or more burn plans of which 2 meet Rx Burn Planner 2 criteria
<b>Acres <u>1/</u></b>	NA	60	320
<b>Vegetation <u>2/</u></b>	NA	Non volatile herbaceous and woody species with < 25% volatile woody species < 4' tall that will not cause a change in fire behavior	Non volatile herbaceous and woody species with <25% volatile woody species > 4' tall that will not cause a change in fire behavior
<b>Terrain</b>	NA	< 12% (average slope)	No slope restrictions
<b>Smoke Management <u>4/</u></b>	NA	> 1/8 mile from state highway with an AADT of 1200; > 1 mile from airport	>1/8 mile from state highway with an AADT of 1200; >1 mile from airport
<b>Currency/Maintenance</b>	None	Write 1 burn plan and participate on 1 burn (public land) per 3 years	Write or review 3 burn plans and participate on 1 burn (public land) per 3 years

- 1/ Acres: Contiguous acres to be burned on a single management unit on one day during the same growing season are considered to be one prescribed burn. Total acres for any prescribed burn cannot exceed the Acres limits for the appropriate job classification.
- 2/ Volatile species for Missouri are those that have a chemical make-up that causes them to be somewhat "explosive" especially during certain seasons. They include, but are not limited to, eastern red cedar, shortleaf pine, blackberry vines, sericia lespedeza, honeysuckle, and sumac.
- 3/ NRCS assistance on prescribed burn sites that exceed Rx Burn Planner 2 criteria is limited to conservation planning only.
- 4/ Special consideration must be given to sites that are located in airsheds with concentrated residences or areas with moderate public use or visibility;

NRCS

MO A-2

February 2006

**REQUEST FOR PRESCRIBED BURNING JOB APPROVAL**

**Employee** \_\_\_\_\_ **Location** \_\_\_\_\_

**SECTION 1: AWARENESS - JOB APPROVAL**

**A. Awareness Classroom Training Received:** Date: M \_\_\_\_\_ Y \_\_\_\_\_

**B. Participate in Prescribed Burning:**

1. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Burn Boss \_\_\_\_\_

**SECTION 2: Rx BURN PLANNER 1 - JOB APPROVAL**

**A. MDC Level 2 Training Received:** Date: M \_\_\_\_\_ Y \_\_\_\_\_  
**NRCS Supplemental Training Received:** Date: M \_\_\_\_\_ Y \_\_\_\_\_

**B. Prepared Prescribed Burning Plans:**

1. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
2. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
3. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

*(Attach Burn Plans with Review Comments)*

**C. Participate in Prescribed Burning:**

1. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Burn Boss \_\_\_\_\_  
2. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Burn Boss \_\_\_\_\_

**D. Experience with Equipment:**

Pumper/Sprayer \_\_\_\_\_ Date \_\_\_\_\_ Sling Psychrometer \_\_\_\_\_ Date \_\_\_\_\_  
Drip Torch \_\_\_\_\_ Date \_\_\_\_\_ Wind Meter \_\_\_\_\_ Date \_\_\_\_\_  
Backpack Pump \_\_\_\_\_ Date \_\_\_\_\_ Rake \_\_\_\_\_ Date \_\_\_\_\_  
Swatter \_\_\_\_\_ Date \_\_\_\_\_ Backpack Blower \_\_\_\_\_ Date \_\_\_\_\_  
Handheld Weather Station \_\_\_\_\_ Date \_\_\_\_\_

**E. Assist in Post Burn Evaluations:**

- 1. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Burn Boss \_\_\_\_\_
- 2. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Burn Boss \_\_\_\_\_

**F. Assist in (60-90 day) Post Burn Evaluation:**

- 1. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Rx 2 person \_\_\_\_\_

**SECTION 3: Rx BURN PLANNER 2 - JOB APPROVAL**

**A. MDC Level 3 Training Received:**

Date: M \_\_\_\_\_ Y \_\_\_\_\_

**B. Prepared Prescribed Plans:**

- 1. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_
- 2. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_
- 3. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_
- 4. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_
- 5. Site \_\_\_\_\_ Acres \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

(Attach Burn Plans with Review Comments)

**Request for Job Approval:** Awareness  Rx 1  Rx 2

Employee's Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 Employee's Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 Employee's Signature: \_\_\_\_\_ Date \_\_\_\_\_

**Recommended Job Approval:** Awareness  Rx 1  Rx 2

(APBS) Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 (APBS) Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 (APBS) Signature: \_\_\_\_\_ Date \_\_\_\_\_

**Recommended for Job Approval:** Rx 1  Rx 2

(SPBS) Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 (SPBS) Signature: \_\_\_\_\_ Date \_\_\_\_\_

**Approved for Job Approval :** Rx 1  Rx 2

(SRC) Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 (SRC) Signature: \_\_\_\_\_ Date \_\_\_\_\_





## Prescribed Burn Plan

*"On-site assistance by NRCS personnel to accomplish burning operations on private land is not authorized. NRCS staff, cooperating organizations or cooperating state agencies are not authorized to provide assistance to carryout any portion of this plan as an official NRCS representative."*

Landowner/Operator:  County:

Address:

Phone:  Acres to Burn:  Planned Timing of Burn:

Farm and Tract #:  CRP Sign-up Number:

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 type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**b. Herbaceous Plants**

Species:	Height (ft.)	Tons / Acre
Cool Season Grasses		
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
Warm Season Grasses		
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
Forbs / Broadleaf:		
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

3. Topography:

	a. Slope %	b. Aspect
field no.	<input type="text"/>	<input type="text"/>
field no.	<input type="text"/>	<input type="text"/>
field no.	<input type="text"/>	<input type="text"/>
field no.	<input type="text"/>	<input type="text"/>
field no.	<input type="text"/>	<input 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)
- Additional / Detailed Objective(s):

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

[Redacted area]

**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:**

[Redacted area]

**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: [Redacted]

\*\*\*\* Plan map firing sequence wind direction: [Redacted]

\*\*\*\* Alternative wind direction(s) [firing sequence must be altered]: [Redacted]

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

The Ring-Head Fire method will be used. Two burn crews will start at the downwind corner / side of the field and travel in opposite directions to "ring" the field, meeting in the upwind corner / side of the field.

\* 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:

[Redacted area]

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

**1. Firebreak Construction:**

- a. Firebreak width will 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:**

Disked / Plowed:

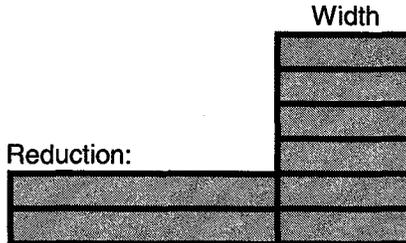
Close Mowed:

Cool Season Grass:

High Mowed Intensity Reduction:

Other Firebreaks i.e.

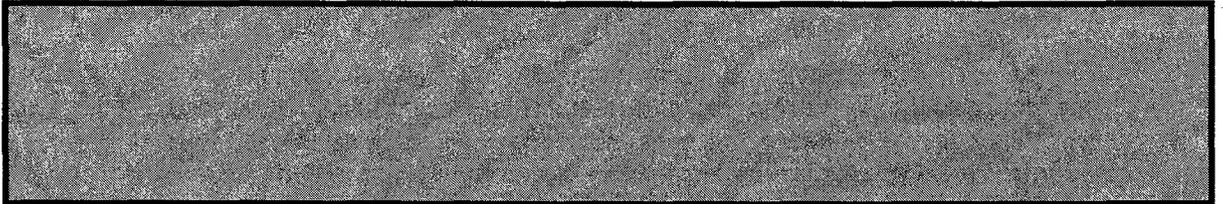
raked, black lines:



\* See plan map for location and extent of firebreaks

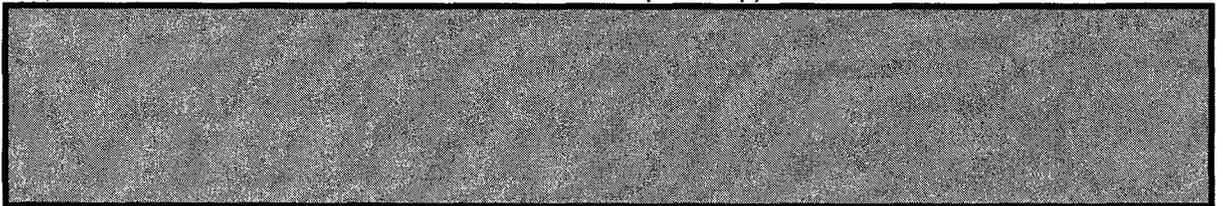
\* Firebreaks should be installed as far in advance (6 months) of anticipated burning period as possible

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



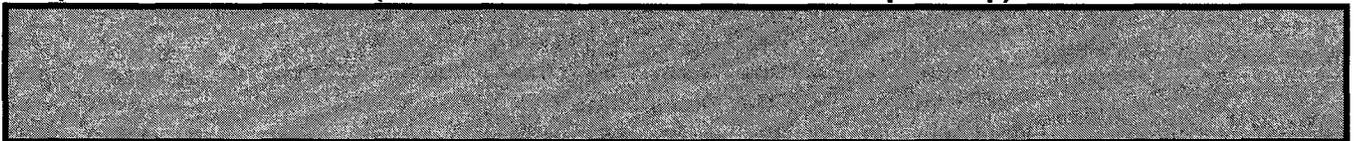
**g. Potential Hazards Present within the Burn Area:**

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

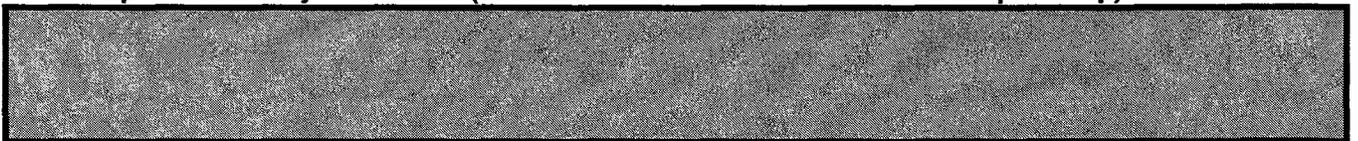


**Adjacent Areas: (outside of burn area)**

**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:**

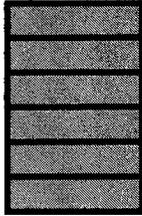


- Clothing - natural fiber (cotton, wool)
- Boots - leather
- Gloves - leather, cotton, wool
- Bandanas / Face Mask

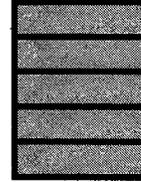


- Goggles
- First Aid Kit
- Drinking Water

**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

**\*\* Anyone with heart, respiratory, or mobility impairments will not participate in the burn.**

**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

**ri. Prescribed Burn Plan Map:**



See Attached Sketch

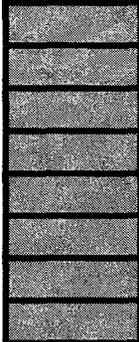


See Attached Aerial Photocopy

**1. Plan Map Requirements:**



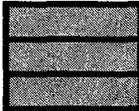
- North Arrow
- Planned Wind Direction
- Firing Crew Designations
- Firing Direction
- Firing Sequence
- Location of Backup Water Supply
- Firebreaks:



- 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:

\_\_\_\_\_

**This plan is valid for three years from the time it was written and approved, or unless significant changes have occurred in or adjacent to the areas this plan covers. Plans older than three years from the approval date may be reviewed by a certified prescribed burn planner and reapproved.**

e-Approved By:

\_\_\_\_\_

Date:

\_\_\_\_\_

Re-Approved By:

\_\_\_\_\_

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

2. Weather Forecast Favorable?  Yes  No

3. Necessary Firebreaks Constructed?  Yes  No

4. Potential Hazards Accounted For?  Yes  No

5. Special Caution Areas Noted?  Yes  No

6. Backup and Secondary Firebreak Locations Noted?  Yes  No

7. Safety Equipment Adequate?  Yes  No

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

9. Personnel Needed are Available?  Yes  No

10. Special Considerations Reviewed with Crew?  Yes  No

11. Actual Weather at Time of Burn:

<input type="text"/>	Temperature	<input type="text"/>	Humidity	<input type="text"/>	Wind Speed at eye level
<input type="text"/>	Cloud Cover %	<input type="text"/>		<input type="text"/>	Wind Direction
					Fronts / Changes Expected?

12. Neighbors Informed?  Yes  No

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

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

13. Other Notifications:

<input type="checkbox"/>	MO Depart. of Conservation	<input type="text"/>	Phone No.	<input type="checkbox"/>	Sheriff	<input type="text"/>	Phone No.
<input type="checkbox"/>	Highway Patrol	<input type="text"/>		<input type="checkbox"/>	Police	<input type="text"/>	
<input type="checkbox"/>	Fire Department	<input type="text"/>		<input type="checkbox"/>	Other:	<input type="text"/>	

14. Necessary Permits Acquired?  Yes  No

15. Are Any Restrictions to Open Burning in Place?  Yes  No

16. Did Test Fire Behave as Expected?  Yes  No

If no, explain reason(s) and response:

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

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