

PRESCRIBED BURNING PLAN

LANDOWNER/OPERATOR: _____ DATE: _____
 ADDRESS: _____ PHONE: _____
 LOCATION: FARM # _____ TRACT #: _____ ADDRESS OR CLOSEST INTERSECTION _____
 COUNTY: _____ TOWNSHIP: _____ SECTION: _____ TWP: _____ RANGE: _____
 PLANNED DATE RANGE OF BURN: _____ ALTERNATE DATE RANGE: _____

1. INVENTORY OF AREAS TO BE BURNED:	ACRES TO BE BURNED
PASTURELAND/HAYLAND/GRASSLAND (FIELD No.):	
WOODLAND (IDENTIFICATION):	
OTHER LAND (IDENTIFICATION):	

TOTAL ACRES TO BE BURNED:						
Plant Community Description	Fine Fuel Lbs/acre*	Total Lbs/acre*	Height	% Canopy Cover	% Burn Area	Continuity** (P, F, G, E)
Herbaceous Species:						
Woody Species:						
Volatile Sp. or Switchgrass:						

* Dry Weight Basis ** P=poor, F=fair, G=good, E=excellent
 Need >2500 lbs./ac. of fine fuel to carry a fire in most cases. Fuel loads >10,000 lbs./ac. will require extra caution.

Soils and Topography Soil Type and Texture	% of Area or Acres	Aspect	Slope	Drainage Class	Soil Limitations

Identify Sensitive Areas	Description and Location
Residences & headquarters on site or within 1 mile	
Other buildings & structures on site or within 1 mile	
Roads within 1 mile	
Airports within 5 miles	
Utilities on site or adjacent	
Cultural Resources	
Fences and livestock	
Combustible materials	
Vegetation to protect	
Endangered Species	
Other	



2. PURPOSE(S) FOR CONDUCTING THE PRESCRIBED BURN:

<input type="checkbox"/>	<i>Maintain or restore native prairie</i>	<input type="checkbox"/>	<i>Improve or manipulate grazing distribution</i>
<input type="checkbox"/>	<i>Suppress woody plants</i>	<input type="checkbox"/>	<i>Change/maintain seasonal dominance of plant communities</i>
<input type="checkbox"/>	<i>Reduce excess plant litter</i>	<input type="checkbox"/>	<i>Control undesirable vegetation</i>
<input type="checkbox"/>	<i>Improve wildlife habitat</i>	<input type="checkbox"/>	<i>Reduce wildfire hazards</i>
<input type="checkbox"/>	<i>Improve forage quantity quality</i>	<input type="checkbox"/>	<i>Manage cattails to enhance wetland diversity</i>
<input type="checkbox"/>	<i>Enhance seed seedling production</i>	<input type="checkbox"/>	<i>Enhance aesthetic appearance of natural landscapes</i>
<input type="checkbox"/>	<i>Control plant diseases</i>	<input type="checkbox"/>	<i>Prepare sites for planting, seeding or harvesting</i>
<input type="checkbox"/>	<i>Improve plant production quantity and/or quality</i>	<input type="checkbox"/>	<i>Remove slash and debris</i>

Additional Information Relative to Purpose(s):

3. PREBURN PREPARATION:

Management of Vegetation Needed to Accomplish Prescribed Burn and Meet Purpose(s) Prior to Burn:

<i>Firebreaks Required (Type)</i>	<i>Location (as identified on map)</i>	<i>Width</i>	<i>Length</i>	<i>Date to apply</i>

Permits Needed:

IEPA Open Burning Permit

Other Preparation Needs.

4. ACCEPTABLE CONDITIONS FOR PRESCRIBED BURNS:

<i>Parameter (On site)</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Preferred Minimum</i>	<i>Preferred Maximum</i>
<i>Relative Humidity</i>	<i>30% (25% in woodland)</i>	<i>80%</i>	<i>40%</i>	<i>60%</i>
<i>Wind Speed</i>	<i>3 mph</i>	<i>18 mph</i>	<i>6 mph</i>	<i>12 mph</i>
<i>Air Temperature</i>	<i>35° F</i>	<i>80° F</i>	<i>50° F</i>	<i>70° F</i>
<i>Ventilation Index or Dispersion Index (for grassland or leaf litter fuels)</i>	<i><50 Acres/day and Vent index is Poor – No burn within ¼ mile of smoke sensitive area. <50 Acres/day and Vent Index is Fair or better – No limitation >50 Acres/day and Vent Index is Poor – No burning. >50 Acres/day and Vent Index is Fair or better – No limitation</i>			

CAUTION:

- Do not burn 12 hours before a passing weather front. After a weather front passes, wait for wind direction to become constant before burning.*
- Do not burn when the Air Quality Index is orange or worse.*
- If there are smoke sensitive areas within the airshed of the burn, the minimum atmospheric mixing height is 1,600 feet, the minimum transport wind speed is 9 mph and the minimum ventilation index listed above.*
- When relative humidity is expected to be below 45%, cloudy conditions will help moderate fire behavior; when relative humidity is expected above 65%, full sunshine may be needed to achieve burn objectives.*
- Volatile species (e.g. red cedar, pine and spruce) and dead woody fuel in the burn area will make the fire behavior more intense and will require extra caution and measures to moderate the fire behavior (e.g. prescribe weather conditions for less wind speed, more humidity and cooler temperatures than would otherwise be recommended).*

5. PRESCRIBED CONDITIONS FOR DAY OF BURN:				
IGNITION – BURNING CONDITIONS (at time of starting burn)	Acceptable Conditions		Preferred Conditions	
	Minimum	Maximum	Minimum	Maximum
Relative Humidity				
Wind Speed				
Air Temperature				
Wind Direction				
Ventilation (Dispersion) Index				
Starting Time of Ignition				
Ending Time Burn				
Soil Moisture(to touch)	WET <input type="checkbox"/> MOIST <input type="checkbox"/> DRY <input type="checkbox"/>		WET <input type="checkbox"/> MOIST <input type="checkbox"/> DRY <input type="checkbox"/>	

6. OBSERVED CONDITIONS ON DAY OF BURN: (Attach copy of fire weather forecast for day of burn)								
Date of Burn:	Soil Moisture			Time mop-up ended:				
Time burn started:	Time burn ended:							
Observation Number	1	2	3	4	5	6	7	8
Time of Observation								
Air Temperature								
Relative Humidity								
Wind Direction								
Wind Speed								

Note: Shaded areas of the form to be filled out for documentation after the plan is written (e.g. the day of the burn)

7. NOTIFICATION PLAN OF AGENCIES & INDIVIDUALS (list names below):	REQUIRED for plan to be complete	Phone Numbers or method of notification	Preburn (Date Notified)	Day of Burn (Time)	After Burn (Time)
Local and Rural Fire Departments:					
911 Dispatcher, central dispatching agency:					
Utility Companies (overhead & underground if present):					
Sheriffs Office:					
U.S. Forest Service - District Office(counties with NFS System Lands):					
Airports within 1 mile or in airshed of burn:					
Local Media (Radio, TV, Newspaper):					
Conservation District:					
Landowners/operators adjacent to site:					
Neighbors adjacent to site or within 1 mile in airshed of burn:					



8. EQUIPMENT AND SUPPLIES: <i>(Minimum needed for the burn)</i>	Planned Number Required	Preburn Checklist Number On Site.
<i>Pumper Truck(s) - Recommend 4-wheel drive, 200 gal. water tank with low volume, high pressure pump</i>		
<i>All-terrain vehicle (ATV) with water tank and sprayer</i>		
<i>Portable Pump(s)</i>		
<i>Portable Drop Tank</i>		
<i>Tractor with Blade or Disc</i>		
<i>Weather Radio/Scanner</i>		
<i>Fire Weather Kit or Weather Meter</i>	At least 1	
<i>First Aid Kit</i>	At least 1	
<i>Two-way Radios</i>		
<i>Cell Phone(s) with service in the area</i>		
<i>Drip Torch(s)</i>		
<i>Drip Torch Fuel (gasoline/diesel mix)</i>		
<i>Matches or lighter</i>	For each crew	
<i>Backpack Pumps (filled with water)</i>		
<i>Nearby Water Source</i>		
<i>Leaf blower(s)</i>		
<i>Flapper(s)</i>		
<i>Rake(s)</i>		
<i>Shovel(s)</i>		
<i>Drinking Water</i>	For each crew member	
<i>Personal Safety Gear (leather gloves, hightop laceup leather boots, natural fiber clothing, hat, individual lighters, wire cutters, etc.)</i>		
<i>Flags and Signs for Traffic Control</i>		

9. PREBURN CHECKLIST:	Required	Completed
<i>All equipment required in above list on site and ready</i>	<input type="checkbox"/>	
<i>Weather conditions within prescription</i>	<input type="checkbox"/>	
<i>Necessary permits obtained</i>	<input type="checkbox"/>	
<i>Reviewed burn plan and precautions with burn crew</i>	<input type="checkbox"/>	
<i>Known personal health problems addressed</i>	<input type="checkbox"/>	
<i>All people removed from area, except for burn crew; and access controlled</i>	<input type="checkbox"/>	
<i>Firebreaks completed and inspected</i>	<input type="checkbox"/>	
<i>Vehicles removed from the area to a safe location</i>	<input type="checkbox"/>	
<i>Photo documentation (preburn photos)</i>	<input type="checkbox"/>	
<i>Animals removed from the area to a safe location</i>	<input type="checkbox"/>	
<i>Necessary protection completed for structures within or near the site for:</i>		
• <i>Headquarters and residences</i>	<input type="checkbox"/>	
• <i>Buildings and sheds</i>	<input type="checkbox"/>	
• <i>Utility poles and overhead</i>	<input type="checkbox"/>	
• <i>Fences</i>	<input type="checkbox"/>	
• <i>Oil and/or gas pipelines and structures</i>	<input type="checkbox"/>	
• <i>Sign post</i>	<input type="checkbox"/>	
• <i>Livestock facilities (pens, buildings, feeders, watering facilities)</i>	<input type="checkbox"/>	
• <i>Hunting facilities (cabins and blinds)</i>	<input type="checkbox"/>	
• <i>Farm equipment</i>	<input type="checkbox"/>	
• <i>Combustible materials (brushpiles, haystacks, etc.) List:</i>	<input type="checkbox"/>	
• <i>Cultural Resources (e.g., headstones in cemetery)</i>	<input type="checkbox"/>	
	<input type="checkbox"/>	

10. BURN PLAN REVIEWED BY FIRE BOSS WITH ALL FIRE CREW PERSONNEL ON SITE:

Notes/Precautions for burned firebreak(s)

Notes/Precautions for backfires

Notes/Precautions for headfires

Contingency plan for escaped fires or changes in wind direction/speed

Crew member personnel escape plan

Post burn patrol and mop-up

Smoke management

12a. Prescribed Burn Plan Map – Attach a map showing the burn unit and the following items:

- Preferred wind direction
- Scale
- Ignition plan showing the starting and stopping points and sequence of each ignition crew
- Firebreaks
- Water source(s)
- Safety zones
- Escape routes
- Fences
- Roads and trails
- Buildings, facilities or other protected areas
- Critical hazard areas
- Utilities (overhead and underground)

12b. Smoke Management Aerial Photo – Attach an aerial photograph showing the location of the burn unit and a one mile buffer area around the burn unit. Include a scale on the photograph.

12c. Ignition Plan Narrative – Describe the actions of the ignition crews from start to finish giving their relative positions during the ignition sequence based on the prescribed burn plan map.

13. BURN EVALUATION:		
Date	Observations	Management Recommendations
Immediately After Burn	Comments about execution of burn plan:	
	Results of the burn:	
Practice Certification	I certify that this practice, as implemented, meets NRCS standards and specifications.	Planner Signature _____ Date _____

14. REVIEW AND APPROVAL:		
<i>This Prescribed Burn Plan has a complexity Level _____ and Fuel Class ____.</i>		
1. Planned by:	Job Approval Level:	
Signature		Date
2. Reviewed and Approved by:	Job Approval Level:	
Signature		Date
3. Reviewed by Burn Boss:	Job Approval Level:	
Signature		Date

14. LIABILITY NOTICE AND LANDOWNER SIGNATURE	
<p><i>This is to certify that the Natural Resources Conservation Service has informed me that I could be liable for damages resulting from this prescribed burn and the cost for fire suppression should the fire escape from the designated area.</i></p> <p><i>I further understand that I am responsible for obtaining all necessary permits before burning, including the permit for open burning from IL EPA, Div. of Air Pollution Control, 1021 N. Grand Avenue E., Springfield, IL 62794, 217-782-2113.</i></p> <p><i>Cooperating organizations or cooperating state agencies are not authorized to provide assistance to carryout any portion of this plan as an official NRCS representative.</i></p>	
Landowner -	Date
Operator (if different than Landowner)	Date

The Natural Resources Conservation Service provides leadership in a partnership effort to help people conserve, maintain, and improve our natural resources and environment.
 An Equal Opportunity Provider and Employer



TYPICAL LEGEND FOR PRESCRIBED BURN PLAN MAP			
Symbols	Definitions	Symbols	Definitions
xxxxxxx	Burned Firebreak	H2O	Water Source(s)
-/-/-	Plowed-Disked Firebreak	(1)	Firing Sequence
-C-C-C-	Cool Season Grass Firebreak	(2)->->	Firing Direction
--(W)-->	Planned Wind Direction	---W-->	Actual Wind Direction
////////	Backfired Area	B1, B2, B3, etc.	Backfire Sequence
---X---	Fences	B1, B2, etc.>->	Backfired Direction
HQ	Headquarters	B	Buildings
-U----U-	Utility Lines (U shows location of Poles)	H1, H2, H3, etc.	Headfire Sequence
-G----G-	Gas Pipeline	H1, H2, etc.>->	Headfire Direction
=====	Road		Trail
TTTTTT	Windbreak	W	Wetland
*****	Critical/Hazard Area	<-E <-E	Escape Route

Useful internet resources
National Weather Service Fire Weather - http://radar.srh.noaa.gov/fire/ Routine Fire Weather Forecast with predicted temperature, wind speed, wind direction, relative humidity, ventilation index, mixing height and transport wind speed.
Airport Finder – Airport-Data.com http://www.airport-data.com/airport-finder.html
Using Prescribed Fire on Illinois Grasslands - http://efotg.sc.egov.usda.gov/references/public/IL/Prescribe_Burn_Tech_Note_withpics.pdf