# Fire Prevention Plan

Farm Name	
<u>Preventing Equipment-Generated Fires</u> Equipment will be inspected (monthly etc.)	by ( <i>names</i> )
Inspection will include (exhaust system, spark arresto	
Extinguishers are mounted on all heat producing equ	
Debris will be blown off of equipment (name i.e. com	nbine)
(daily, hourly, etc.)by	
Debris will be blown off of vehicles (daily, every hour	
Maintenance of Fire Extinguishing Equipment The following people have been trained annually on	fire extinguisher use
Fire extinguishers have been serviced by a certified in	nspector ( <i>name</i> ),, on (date), on (date)
(truck, UTV, etc.)	
Water pumps have been inspected on (date)	by (name)
Water pumps will be tested (weekly etc.)	om ( <i>date</i> ) through by
Water and fuel levels in suppression equipment are leading.  Disk with working	kept full and checked ( <i>weekly</i> ) by  g tractor is kept on site of farming operations and ( <i>names</i> )  know how to safely operate it and put in a fire line
Risk Reduction  Asset Protestion	
Asset Protection  The following farm and rangeland assets are the most	st critical for farm operations and will be prioritized to
	structures, watering, fencing, or other key infrastructure)
2	

Reduce Fuels
The following actions can be taken to reduce fuels around key farm assets:
1
2
3
4
Maintained fuel breaks in strategic areas (maintained roads, two tracks, mowed areas, annually disked areas, or vegetative green strips) on the farm include (list type of fuel break and location if you have any):
1.
2
4
4
Mitigate Ember Traps
Ember traps (eaves etc.) are permanently covered at the following locations with metal screening (1/8 inch):
1
2
3
4
Ember traps at the following locations (barn openings etc.) can be temporarily covered (with tarps etc.):
1
2
3
4.
Sprinkler Protection:
Priority structures for sprinkler protection on the farm are as follows (in order of priority):
Sprinkler equipment can be found and includes:
Back up water / cisterns can be found

### **Identifying Hazardous Conditions**

#### Before a fire:

Potential on farm ignition sources outside of your control include (roads, power lines, wind turbines, etc.):
1.
2
3
4
Heavy fuel loadings of annual grasses (medusahead, cheatgrass, etc.) are at the following locations:
Areas on the farm that should be avoided during a wildfire include (location and nature of hazard):
Terrain features on the farm that could create dangerous fire behavior include (steep slopes, canyons, etc.):
Criteria to Terminate Work with Heat Producing Equipment
Establish criteria to terminate work with heat producing equipment in the field during hazardous fire weather using relative humidity (RH), temperature, winds, and fuel conditions (for example $RH \le 30\%$ , temp $\ge 86^{\circ}F$ , winds $\ge 20$ mph). OHSA is not creating any set criteria to force producers to shut down, but are requiring producers to set their own criteria. Consider not using heat producing equipment under low RH and high temperatures once wind speeds exceed a given threshold, i.e. stopping when winds are greater than 30-35 mph (often winds are the strongest in the afternoon when RH is lowest at 4 pm). Criteria can also take into account producer and crew experience, field topography, and on farm fire suppression equipment.
Safety Procedures at the Worksite
When there is the potential for a fire to start accidentally due to the nature of the work being done or due to
weather conditions, crews will follow these steps:

- a. Establish two escape routes from your work location to a safety zone
- b. Identify safety zones that are permanent (area with rock or gravel with little fuel) or have been created (disked) a safety zone is an area where you can safely sit and watch the fire go by
- c. During harvest: Each field will have a designated safety zone and all employees will be made aware of its location. If no natural safety zone exists, one will be created by a tractor and disk. All equipment will be parked at night in the safety zone, similar location devoid of fuels, or at \_\_\_\_\_\_

Procedures for Reporting Fires
If a fire starts 911 will be reached and the location of the fire will be given (street addresses preferred), along
with a fire size up (fire size up checklist on pg. 6). A list of addresses for most locations on the farm is located  (location of address list). However, other descriptors can also be used to help
others get to the location quicker (e.g., the Smith Place, etc.). Others to be contacted also, in order of priority:
Procedures for Engaging Wildfires
When a fire occurs at the work site it shall be initially controlled with fire extinguishers if in the incipient stage.

If it is already beyond the incipient stage or grows into a larger free burning fire than those not trained must leave immediately. The following employees have received firefighting training and may engage in suppressing a free burning fire:

Additional procedures or considerations for employees engaging in wildfire:

Wildfires in dryland crops can produce flame lengths 7 to 16 ft at the head of the fire, making suppression with shovels and other hand tools dangerous and ineffective unless at the heel or flanks of the fire where intensity is often lowered. Tractors and discs are needed to create effective fire breaks. Engines or trucks spraying water need to be in the black (assuming the black is clean without large unburned patches) rather than in unburned fuels in the path of the fire where a fast-moving grass or wheat fire can easily overtake vehicles.

Before entering an area to fight fire, follow LCES procedures.

**Establish a LOOKOUT** 

**Set up COMMUNICATION** 

**Determine an ESCAPE ROUTE** 

Designate a SAFETY ZONE based on the conditions in the area.

If a fire safety zone is needed while working in the field employees will use an area that is bare ground, gravel, clean black, or one shall be created with disc. Two escape routes will be maintained to the safety zone during wildfire suppression. Safety zones for most crop fires should be 1/10 of an acre for one farm truck and a separation distance of at least 40 ft from flames - more people and more equipment will require a larger safety zone, along with if area is upslope and downwind of the fire (area should be at least doubled if on a 20-40% slope or under heavy winds) - safety zones upwind, on flat ground, and not in front of the main fire front are the safest.

#### Considerations that will be taken during a fire:

- a. Fire size and speed of growth is the fire small or several acres in size? Is it being pushed by winds or burning quickly up steep slopes?
- b. Fuel load of the area you are planning to enter unharvested crop, harvested crop, rangeland, or rocky scab area? Are annual grasses present? Scotch broom or other volatile plants?
- c. Weather conditions wind speed and direction, temperature, humidity, atmospheric stability?

- d. Terrain is the fire burning uphill, downhill, into a steep canyon, or on relatively flat terrain?
- e. Potential communication barriers does terrain make cell reception unreliable?

### Response Equipment and resources to aid in fire suppression

Equipment Type	Number at (location):	Number at nearby location:
Tractor, HP, bucket (y/n)		
Dozer, HP		
Disc / plow for firebreak		
construction		
Livestock trailer for # of		
(type of animals)		
Pumper units with gallons		
Portable water pump		
Utility trailer, large enough to hau		
Pickup Trucks		
Passenger Car	•	
UTV / ATV with pumper		
UTV / ATV no pumper	/ (/	
Fire hose	X C	,
Sprinkler Kits		
Garden hoses		
Generator		
Personnel with wildfire training	70	
Water sources:		
Water Source Capaci		mp (electrical, Location
	gravity fed,	or gas)
l Other additional measures to preve	nt wildfires on your property or	equipment:

## **Fire Size Up**

When fire is reported to 911 and others the following fire details should be included:

Fire Location (street address is preferred):				
Road Access:				
Is the road flagged or will someone meet first res	sponders at a se	et location?		
Size: $\square$ 100 by 100 ft $\square$ 1 acre (size of football fie	eld) □5 acres	□5-10 acres	s □Greater th	an 10 acres
Fuels Burning: grass, brush, harvested wheat, unhtimber, duff, logs, other?	narvested whea	t, no till residu	ue on fallow, ot	ner crop, slash,
Fuels adjacent to fire: grass, brush, harvested who slash, timber, duff, logs, other?	eat, unharveste	d wheat, no t	ill residue on fa	llow, other crop,
Character of Fire: □Smoldering □Creeping	□Running	□Torching	□Crowning	□Spotting
Flame Lengths: □Under 2 ft□2-4 ft	□4-8 ft	□8-2	11 ft	□over 11ft
Percent Slope: □0-30 □30-45	□45-60	□60	+	
Position on Slope: □Bottom 1/3 □Mid	ddle 1/3	□Top 1/3		
Aspect: □North □South □Eas	st □We	st		
Wind Speed (mph): $\square$ 0-5 $\square$ 5-10	□10-15	□Over 15	□Over 25	□35+
Wind Direction: □North □South	□Eas	t □w	est	□Upslope
□Up Canyon □Do	wn Slope	□Down Car	iyon	
Spread Potential: □None □Low □Mo	derate	□High	□Very High	
Values at Risk: □Residences □Infrastructure	□Cultural / F	listorical [	]Commercial	□Power Lines
□Livestock □Public Safety / Travel □Sto	red Hay	□Stored Gr	ains $\square$	Farm Equipment
Are closures or evacuations needed? Where is th	e fire anticipat	ed to go giver	n current winds	and terrain?
<b>Hazards:</b> □Power lines □Wind turbines	□Oil/gas line	or tanks on f	arm	□Terrain
□Communication Towers □Traffic (especially	interstates and	highways)	□Hazmat (	farm chemicals)
Apparent Cause: □Lightning □Arson - Protect origin area of the fire for fire invest	□Equipment	□Ro	adside start	

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