Oregon Department of Forestry Pile Burn Plan

Landowner or Company Name and Address/Driving Directions to Unit	Township	Range	Section	County	Lat/Long (Degrees, Decimal Minutes)	Unit Name
Oregon State University Oberteuffer Forest Follet Road (end), Elgin OR	01N	40E	13	Union	45* 34.2205, -117* 45.8120	Obie Piles

SIGNATURES

Preparer(s):	John Punches, 541-602-4689	**Date:**	4/30/24
Certified Burn Manager Name, CBM #, and Phone:	John Punches, 541-602-4689 OR CBM #20240327PB17	**Date:**	4/30/24
Landowner(s):	Finn Leary for OSU College of Forestry 541-224-2198	**Date:**	

REGISTRATIONS, SMOKE CLEARANCE, AND PERMITS

NOAP and/or PDM Number and Smoke Registration (if required)		**Burn and Smoke Permit Obtained (if required)**	None required

NOTIFICATIONS

NEARBY LANDOWNERS AND NEIGHBORS		FIRE, EMERGENCY RESPONSE, AND AIR QUALITY CONTACTS	
Name	**Contact Info**	**Name**	**Contact Info**
Ruth Uhrig	70417 Follet Rd Elgin OR 97827 541-437-4374	Oregon Department of Forestry	Travis Lowe travis.d.lowe@odf.oregon.gov. 541-786-6408
Ed and Arlene Copher	70415 Follett Rd Elgin, OR 97827	Rural/City/County Fire Department(s)	Elgin RFD. John Campbell. 541-263-0308
Malcome & Catherine Townsend	1244 Sunset Dr Burbank, WA 99323	Emergency Services	Nick Vora. Union Co EMS Director. 541-963-1009
Jaylene Witherspoon	73762 Hwy 82 Elgin, OR 97827 541-437-5255	Local Air Quality	Via ODF
EE Arrand Trust Estill Arrand	70343 Greentree Rd Elgin, OR 97827		
Tom & Mercedes Arrand	70518 Greentree Rd Elgin, OR 97827 541-805-8302 (Son of Estill best contact info for both)		

BURN UNIT DESCRIPTION

Piled Fuel Type (Slash, Brush, etc.)	Piled Fuel Loading (https://depts.washington.edu/nwfire/piles/)	Size of Area Treated (acres)
Slash	<1 ton	< 1 acre

ADJACENT FUELS (Slash, Brush, Grass, and/or Timber) AND PRE-BURN SITE PREPARATION

Timber understory (TU1). 3 small piles (less than 5' diameter) located in landing clear of flammable materials, minimum 5' bare dirt surrounding pile. 1 pile covered. 2 uncovered for comparison of burn characteristics. I additional pile in un unit burned spring of 2024, approx. 6' diameter, covered.

OBJECTIVES

- Provide training opportunity for personnel.
- Consume 90% of available fuels in pile.

PREDICTED FIRE BEHAVIOR ANDS IGNITION PLAN

Flame lengths anticipated 10 to 15'. Allow trainees to experiment with firing patterns, drip torches, propane burner, and leaf blowers.

HOLDING, MOP-UP, AND PATROL PLAN

Burns will be contained by non-flammable (landing area) or minimally flammable (previous burn unit) conditions piles. Grid adjacent fuels for spots and implement prompt control. Patrol minimum 1 time daily for three days, and additional patrol if weather or fuel moisture dictate.

CONTINGENCY, SAFETY, AND MEDICAL PLAN

Contingency: If fire escapes from burn piles, initial attack will be facilitated with personnel using hand tools and onsite water resources. If fire cannot be safely contained with on-site sources, ODF will be alerted.

Safety: Issues include safe handling of fuel, footing on or near pile. To be addressed during briefing.

Medical: First aid kits available in OSU vehicles. Medical assistance via 911.

SMOKE MANAGEMENT

Piles containing the majority of the fuel have been covered to promote drying. ODF smoke management recommendations implemented to extent feasible given primary training objective.

MINIMUM RESOURCES - PERSONNEL

Number needed	Position	Description
1	Certified Burn Manager	Certified to lead pile burns
15	Personnel	

MINIMUM RESOURCES - PERSONNEL

Number needed	Equipment Type	Source
1	Drip torch	OSU
1	ATV w/ 35-gallon tank and pump	OSU
1	Water trailer with 550-gallon tank and pump	OSU
1	4x4 truck with tank and pump, or better	OSU
2	Backpack pumps	OSU
Per personnel	Assorted handtools	OSU
1	VHS radio	OSU

ATTACHMENT A – PRE AND POST-BURN CHECKLIST

A. PRE-BURN (Prior to Crew Briefing)

☐ Fire Unit is as described in plan and copy of plan is on site.
☐ Required firebreaks complete and are consistent with current and predicted conditions.
☐ Certified Burn Manager assigned, permits obtained and documented in burn plan.
☐ Required number of personnel present.
☐ Short and long-range weather and smoke management forecast obtained and within prescription.
☐ Notifications complete.
☐ Required equipment for holding, weather monitoring, ignition and suppression on-site and functioning.
☐ Personnel have reviewed equipment for readiness.
☐ Planned ignition, holding, and containment methods are appropriate for current and predicted conditions.
☐ Planned contingencies, mop-up, and patrol are appropriate for current and predicted conditions.
☐ Off-site contingency resources are operational and available.

B. CREW BRIEFING

☐ Burn unit size, boundaries, and fuels inside and outside unit reviewed with maps provided for reference.
☐ Hazards and safety issues.
☐ Prescribed burn objectives
☐ Anticipated fire and smoke behavior.
☐ Organization of crew and assignments.
☐ Methods of ignition, holding, mop-up, communications.
☐ Contact with the public, traffic concerns.
☐ Location of main roads, vehicles, keys, and nearest phone.
☐ Location of back-up equipment, supplies, and water.
☐ Suppression plan and use of contingency resources for escaped prescribed fire.
☐ Medical emergency procedures
☐ Answer questions from crew.

C. PRIOR TO AND DURING IGNITIONS

☐ On-site weather and fuel conditions are within prescription and consistent with forecast during and after ignitions.
☐ Fire and smoke behavior are observed to be within prescribed parameters.

D. POST BURN CHECKLIST

☐ Mop-up completed to standards as described in burn plan.
☐ Personnel and equipment assigned for patrol if needed.
☐ Notifications of completed burn, if required.

Certified Burn Manager sign and date form when burn is completed and has been turned over to the landowner or another Certified Burn Manager.

Certified Burn Manager Signature:_____ **Date:** _____

Oregon Department of Forestry Broadcast/Understory Burn Plan

Landowner Name and Address and/or Driving Directions to Unit	Township	Range	Section	County	Lat/Long (Degrees, Decimal Minutes)	Unit Name
Oregon State University Oberteuffer Forest Follett Road (end), Elgin OR	01N	40E	13	Union	45* 34.2205, -117* 45.8120	Unit 1 (Lower Meadow)

Anticipated Burn Date (range): May 2024

SIGNATURES

Preparer(s) Signature, Name and Phone:	John Punches 541-602-4689	**Date:**	**4/30/26**
Certified Burn Manager Signature, Name and Phone:	John Punches 541-602-4689 OR CBM #20240327PB17	**Date:**	**4/30/26**
Landowner(s) Signature, Name and Phone:	Finn Leary for OSU College of Forestry 541-224-2198	**Date:**	

REGISTRATIONS, SMOKE CLEARANCE, AND PERMITS

NOAP and/or PDM Number and Smoke Registration (if required)	2024-971-07254	**Burn and Smoke Permit Obtained (if required)**	None required

NOTIFICATIONS

NEARBY LANDOWNERS AND NEIGHBORS		FIRE, EMERGENCY RESPONSE, AND AIR QUALITY CONTACTS	
Name	**Contact Info**	**Name**	**Contact Info**
Ruth Uhrig	70417 Follet Rd Elgin OR 97827 541-437-4374	Oregon Department of Forestry	Travis Lowe travis.d.lowe@odf.oregon.gov. 541-786-6408
Ed and Arlene Copher	70415 Follett Rd Elgin, OR 97827	Rural/City/County Fire Department(s)	Elgin RFD. John Campbell. 541-263-0308
Malcome & Catherine Townsend	1244 Sunset Dr Burbank, WA 99323	Emergency Services	Nick Vora. Union Co EMS Director. 541-963-1009
Jaylene Witherspoon	73762 Hwy 82 Elgin, OR 97827 541-437-5255	Local Air Quality	Via ODF
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Tom & Mercedes Arrand	70518 Greentree Rd Elgin, OR 97827 541-805-8302 (Son of Estill best contact info for both)		

BURN UNIT DESCRIPTION

Fuel Type (Slash, Brush, Grass, and/or Timber)	Fuel Loading (tons/acre)	Size of Unit (acres)
Grass (GR1)	0.4 ton/acre	.75 acre

PRE-BURN FUELS AND VEGETATION DESCRIPTION INSIDE BURN UNIT:

Low load grass. Mix of bunchgrass and annual grass. Some camas (fire selectively to avoid camas). Anticipate high moisture content in live component.

Oregon Department of Forestry Broadcast/Understory Burn Plan

PRE-BURN FUELS AND VEGETATION DESCRIPTION OUTSIDE BURN UNIT:
Grass to NW anticipated to be sufficiently moist to resist fire spread. Adjacent unit to SE is timber litter, previously burned spring 2024 and scheduled for burn again following completion of this unit.

PRE-BURN PREPARATION

DESCRIPTION OF PRIMARY CONTROL LINES AND PREPARATIONS FOR USE: Wet line followed by black line. Mow (mower or string trimmer) lines if grass taller than 1' and blow loose material away from line. Abuts previously burned TL8 unit on uphill (SE) side.

LOCATION OF AND CONFIRMATION OF ACCESS TO PRIMARY WATER SOURCES: Will have two, 300-gallon poly tanks filled and prepositioned onsite, for use for this unit and timber litter unit. Water trailer with 550-gallon tank available for water refill. Pond on property, 5-minute drive from burn unit, for refill as needed.

MINIMUM RESOURCES - PERSONNEL

Number Needed	Position	Description
1	**Certified Burn Manager**	**Certified to lead broadcast/understory burns**
1	Firing boss	Implement firing operations
1	Holding boss	Implement holding operations
15	Personnel	Assist with holding, firing, mop-up as needed

MINIMUM RESOURCES - EQUIPMENT

Number needed	Equipment Type	Burn Phase (Ignition and/or Patrol/Mop-Up)
1	4x4 truck, 200-gallon tank, hose and pump	All
1	ATV with 35-gallon skid unit	All
1	Water trailer with 550-gallon tank, pump, hose	All
2	300-gal poly tank with water	All
1	Portable pump	All
500'	1.5" hose with wyes and nozzles	All
500'	1" and/or garden hose with fittings and nozzles	All
3	Drip torches and/or propane burners	Ignition
Per crew size	Hand tools (variety on site to accommodate crew needs)	All
Per crew size	FRS radios (1 per squad, plus bosses)	All
1	VHS radio with ODF programming, for dispatch communication	All

RADIO, CELLULAR, OR OTHER FORMS OF COMMUNICATIONS

SYSTEM	FUNCTION	FREQUENCY		ASSIGNMENT
FRS	TAC	TX RX	Channel 1 (no tone)	General communication
VHS	Dispatch/Agency Communication	TX RX	Per ODF	Notify of test fire, ignition start/end, end of day status, patrol
Cell	Command		See contacts/notifications	Emergency notifications

CONTINGENCY AND WILDFIRE DECLARATION

CONTINGENCY RESOURCES:
Onsite: Type 6 engine (OSU), two additional pre-filled 300-gal water tanks on property, 6 additional personnel.
Offsite: Type 6 engine (ODF)

WHEN TO ACTIVATE CONTINGENCY RESOURCES AND ACTIONS TAKEN IN RESPONSE:

Activate continency if fire activity within burn unit is exceeding holding capacity of onsite resources. Any slop-overs or spots not controlled by onsite resources within 30 minutes or ½ acre of area indicate need for activation of contingency resources.

LOCATION AND CONDITION OF SECONDARY CONTROL LINES AND BACK-UP WATER SOURCES:

Skid roads north, southeast, and west of unit, and rocked road south of unit, serve as secondary control lines. Back-up water source at pond on property, use rocked road to access (do not attempt access via skid roads). Areas burned in spring and fall of 2023 provide additional control to east of unit.

CRITERIA AND PROCEDURE FOR WILDFIRE DECLARATION:
Spots or fire transmission outside OSU property boundaries require immediate notification of 911 and Oregon Department of Forestry. Prescribed fire ignitions will cease and onsite personnel not required for holding of prescribed fire will attempt suppression of wildfire within extent of their training and equipment. Wildfire incident will be turned over to ODF personnel upon their arrival.

Contingency Resource Name	Response Time	Location
Oregon Department of Forestry	40 min	La Grande

VALUES AT RISK AND SIDEBOARDS INSIDE AND OUTSIDE UNIT

Inside: Observe for presence of emergent camas. Do not ignite camas before seasonal dieback (may ignite grass patches lacking camas).
Outside: OSU barn and fences (minimal risk). Neighboring properties (prevent fire transmission to north).

SMOKE MANAGEMENT

Nearest Smoke Sensitive Receptor(s)/Class 1 Airshed	SSRA: La Grande, Enterprise, Pendleton. Class 1: Eagle Cap Wilderness	**Distance and Direction**	La Grande 30 miles SW. Enterprise 30 miles ESE. Pendleton 60 miles E. Eagle Cap Wilderness 15 miles SE.

MITIGATION STRATEGIES AND TECHNIQUES TO REDUCE IMPACTS:
Burn when 20-foot winds are from N, NW, NE, W, SW, or when mixing height is over 1500’ AGL.

SMOKE MANAGEMENT FORECAST DAY BEFORE/DAY OF BURN: To be obtained.

TEST FIRE AND IGNITIONS

TEST FIRE LOCATION(S):
Downwind edge/corner of unit per prevailing surface winds.

IGNITION EQUIPMENT, METHODS, AND SEQUENCES:
Drip torch and/or propane burners. Blackline on upslope and/or downwind side per prevailing effect and progress along unit flanks. Interior ignitions strip head-fire, shifting to dots if needed to reduce intensity.

HOLDING AND CONTAINMENT

CRITICAL HOLDING POINTS AND MITIGATIONS:
Northwest and north lines most critical for preventing transmission to neighboring properties. Ensure effective wet-lining and black-lining before proceeding to interior ignitions.

CONTAINMENT LINE SPECIFICATIONS AND RATIONALE:
Mow and blow cuttings away from line during unit prep. Use wet-line followed by 3-foot minimum black line. No bare mineral lines anticipated for this unit – avoid them, if possible, to reduce soil disturbance to mitigate spread of invasive grasses.

MOP-UP, PATROL, AND NOTIFICATION OF DECLARING BURN OUT

MOP-UP STANDARDS:
Extinguish smoldering/flaming materials within 30 feet of all unit boundaries once ignitions have completed in vicinity of that line and fuels have consumed. Burn boss will notify when to shift from burn to mop-up phase.

FREQUENCY AND DURATION OF PATROL:
Two hours of active patrol following conclusion of mop-up, plus comply with any patrol requirements per ODF. Follow-up patrol the next day, two times, approx. 1000 and 1500. Pay particular attention to evidence of spot fire smoldering outside unit boundaries. Additional patrol 1/day until burn declared out.

DESCRIBE CRITERIA AND NOTIFICATIONS FOR DECLARING THE BURN OUT:
Burn may be declared out when no evidence of ongoing combustion (smoldering/flaming/heat) can be observed for three consecutive days, no heat is detected within burn unit by a heat sensing device, or rainfall over 2" at unit location. Confirm with ODF. Notify Elgin RFD and OSU Director of Research Forests when burn declared out.

SAFETY, MEDICAL, AND EMERGENCY PLAN

NEAREST HOSPITAL:
Grande Ronde Hospital. Ambulance via rural fire district. Call 911 if emergency.
For other medical needs use the Elgin medical clinic, 15 minutes west on Hwy 82.

SAFETY ISSUES AND MITIGATIONS:
First aid kits with AEDs in OSU vehicles. PPE required for all participants. Potable water and electrolyte fluids on site. Participants advised to bring epi pens and personal meds appropriate for their conditions.

RALLY POINT INCLUDING DRIVING DIRECTIONS:
If evacuation required, primary rally point is parking area east of green barn on property. Secondary rally point is main gate off Follett Road.

RESOURCE MANAGEMENT GOALS

- Reinvigorate native bunchgrasses as forage for wildlife.
- Reduce risk of wildfire transmission to and from adjacent property.
- Enhance capacity of burn participants to support, fund, plan and conducted prescribed fires.

PRESCRIBED FIRE OBJECTIVES

Burn 30 to 60% of the area within the unit (patchy burn is anticipated). Within burned areas, consume 50-80% of dead grass thatch, as measured at conclusion of burn.

Train personnel in unit preparation, firing, holding, mop-up, and monitoring techniques. Training component justifies burning/training even if conditions will result in lower-than-desired burn intensity/extent.

ENVIRONMENTAL PARAMETERS AND FIRE BEHAVIOR					
ENVIRONMENTAL PRESCRIPTION			**ACCEPTABLE FIRE BEHAVIOR**		
	Low	**High**		**Low**	**High**
Temperature (°F)	**40**	**90**	**Flame Length (ft)**	**.5**	**4**
Relative Humidity (%)	**20**	**80**	**Rate of Spread (ch/hr)**	**.2**	**10**
20-ft. Wind Speed (Forecasted)	**0**	**14**			
20-ft. Wind Direction (Forecasted)	**N, NW, NE, W, SW**				
Eye-Level Wind Speed (Observed)	**0**	**7**			
Eye-Level Wind Direction (Observed)	**Any**				
Transport Wind Direction	**N, NW, NE, W, SW**				
Fine Dead (1-Hr) Fuel Moisture	**4**	**12**			

Prescription Comments: Prescription ranges are wide given spring live fuel moistures of 120% or higher and training objective. Low intensity conditions likely will not achieve desired consumption levels but will provide training opportunities. Low flame lengths (<1') and rate of spread (<1 ch/hr) anticipated under modeled conditions. Onsite resources are modeled as sufficient to contain any anticipated spot fires.

WEATHER MONITORING AND METHODS

MOST REPRESENTATIVE REMOTE AUTOMATED WEATHER STATION (RAWS) OR OTHER RELIABLE WEATHER STATION:
National Weather Service (Pendleton) weather forecast. Supplement with SPOT weather forecast. If feasible obtain onsite weather observations one day in advance and submit with SPOT weather forecast request. Utilize Windy app to identify anticipated wind changes.

WEATHER DATA COLLECTION METHOD AND FREQUENCY BEFORE, DURING, AND AFTER IGNITIONS:
On-site collection of wet and dry bulb temps, eye-level wind speed and direction. Calculate RH, FDFM, and PIG. Communication approximately hourly during firing and holding.

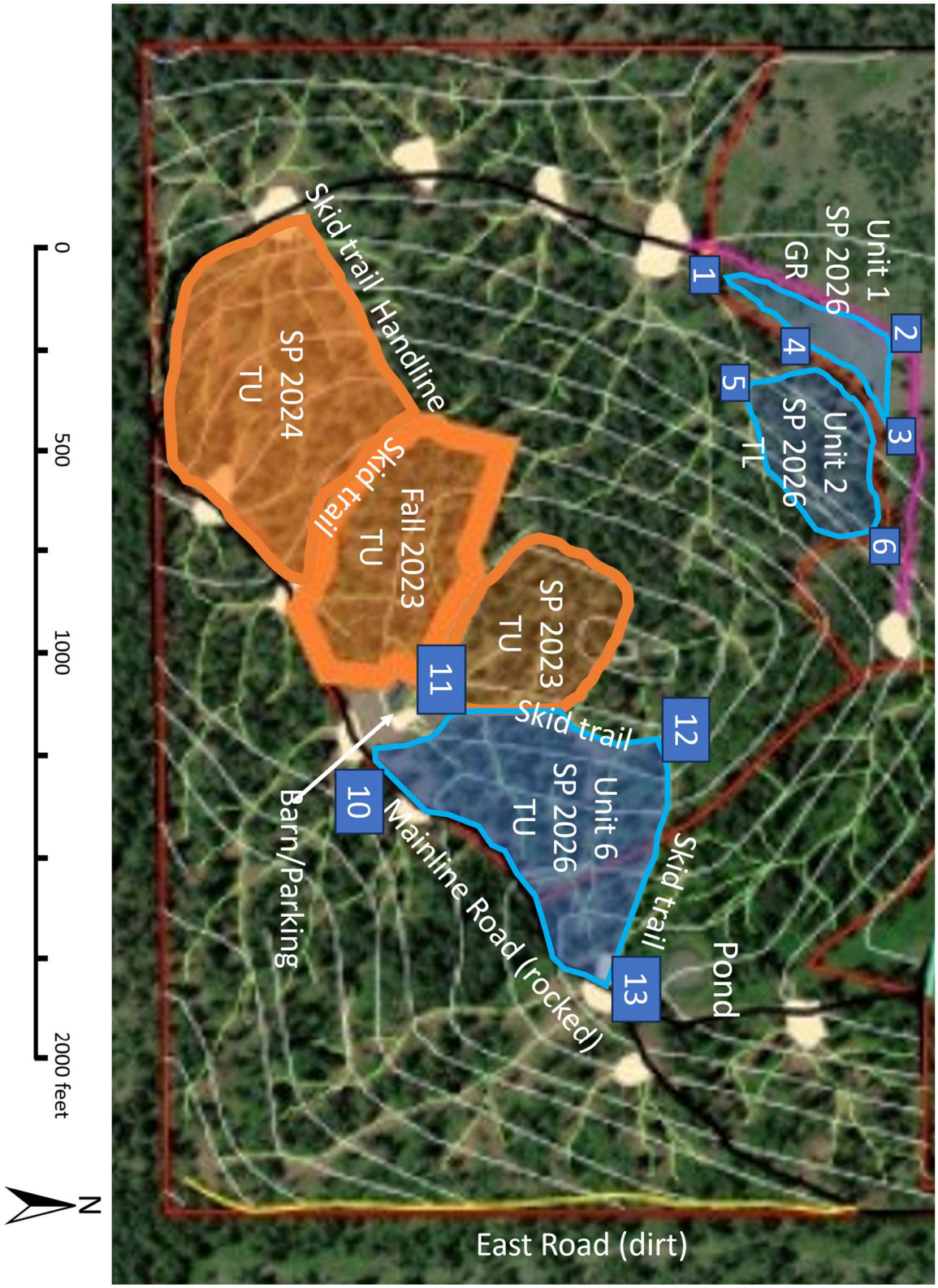
POST-BURN FUELS AND VEGETATION MONITORING AND METHODS

DESCRIBE METHODS FOR MONITORING POST-FIRE EFFECTS:

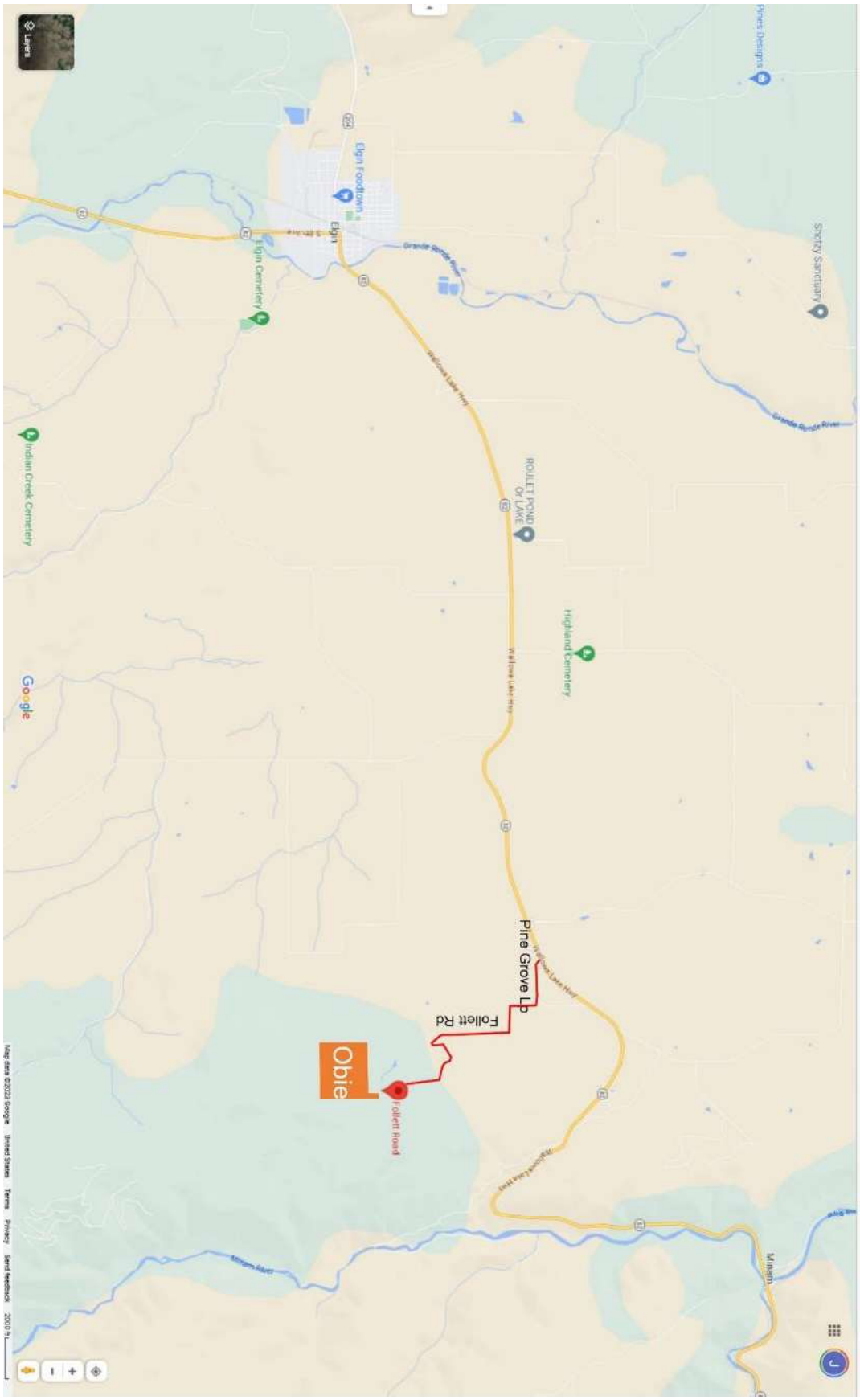
- Visual estimate of percent of unit burned.
- Visual estimate of thatch consumption based on pre- and post-burn observation.
- On-site observation of fire behavior during firing and holding.

ATTACHMENT A – VICINITY AND BURN UNIT MAPS

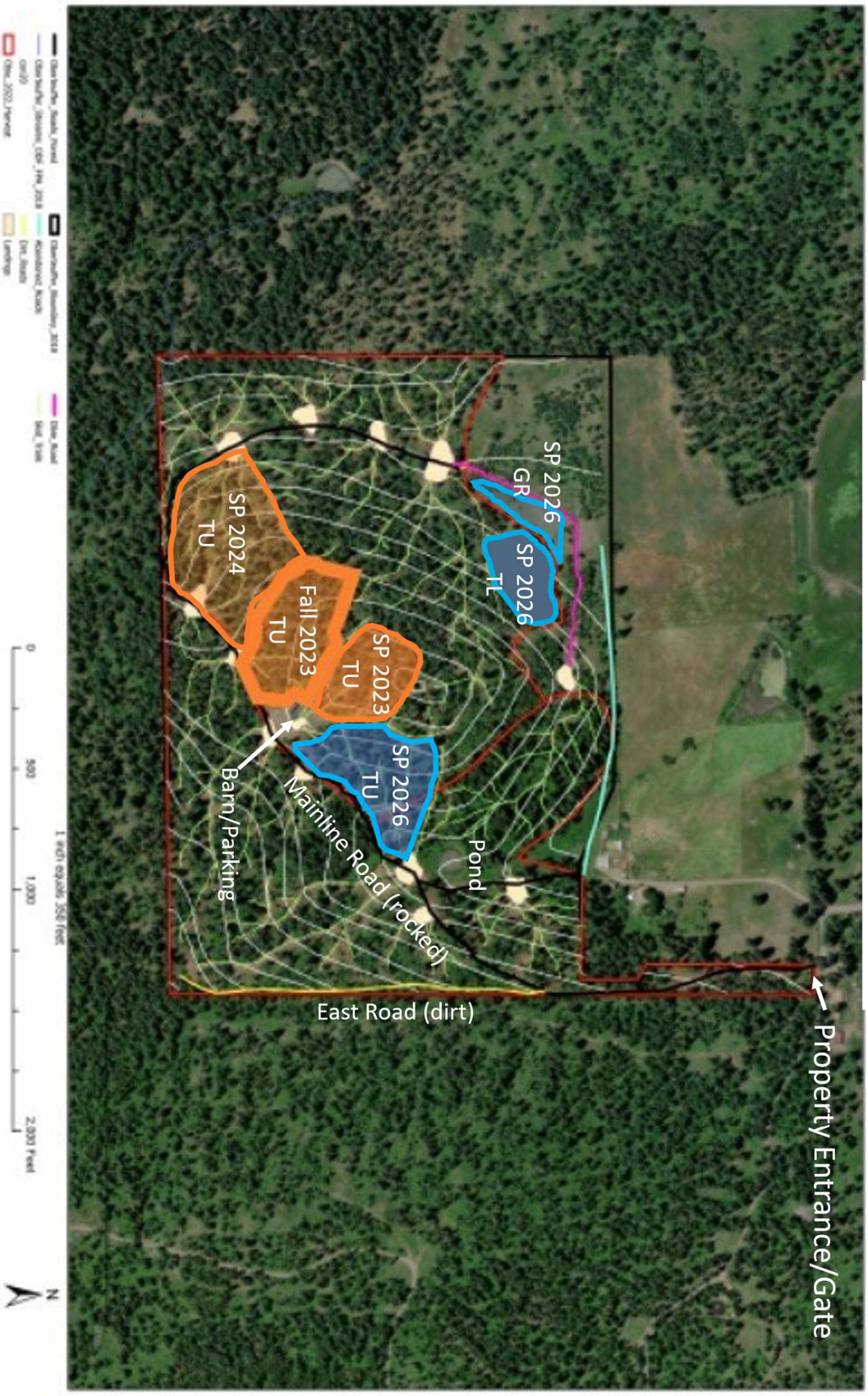
UNIT MAP



VICINITY MAP A



VICININITY MAP B



ATTACHMENT B – PRE-BURN BO/NO GO, CREW BRIEFING, TEST FIRE, AND POST-BURN CHECKLIST

A. PRE-BURN (Prior to Crew Briefing)

☐ Fire Unit is as described in plan and copy of plan is on site.
☐ Required firebreaks complete and are consistent with current and predicted conditions.
☐ Certified Burn Manager assigned, permits obtained and documented in burn plan.
☐ Required number of personnel present.
☐ Short and long-range weather and smoke management forecast obtained and within prescription.
☐ Notifications complete.
☐ Required equipment for holding, weather monitoring, ignition and suppression on-site and functioning.
☐ Personnel have reviewed equipment for readiness.
☐ Planned ignition, holding, and containment methods are appropriate for current and predicted conditions.
☐ Planned contingencies, mop-up, and patrol are appropriate for current and predicted conditions.
☐ Off-site contingency resources are operational and available.

B. CREW BRIEFING

☐ Burn unit size, boundaries, and fuels inside and outside unit reviewed with maps provided for reference.
☐ Hazards and safety issues.
☐ Prescribed burn objectives
☐ Anticipated fire and smoke behavior.
☐ Organization of crew and assignments.
☐ Methods of ignition, holding, mop-up, communications.
☐ Contact with the public, traffic concerns.
☐ Location of main roads, vehicles, keys, and nearest phone.
☐ Location of back-up equipment, supplies, and water.
☐ Suppression plan and use of contingency resources for escaped prescribed fire.
☐ Medical emergency procedures
☐ Answer questions from crew.

C. TEST FIRE

☐ On-site weather and fuel conditions are within prescription and consistent with forecast.
☐ Test burn conducted, fire and smoke behavior within prescribed parameters.

D. POST BURN CHECKLIST

☐ Mop-up completed to standards as described in burn plan.
☐ Night patrol assigned, if needed.
☐ Personnel and equipment assigned for days following burn, if needed.
☐ Notifications of completed burn, if required.
☐ Debrief or After-Action Review (AAR)

Certified Burn Manager sign and date form when burn is completed and has been turned over to the landowner or another Certified Burn Manager.

Certified Burn Manager Signature:_____ **Date:** _____

Oregon Department of Forestry Broadcast/Understory Burn Plan

Landowner Name and Address and/or Driving Directions to Unit	Township	Range	Section	County	Lat/Long (Degrees, Decimal Minutes)	Unit Name
Oregon State University Oberteuffer Forest Follett Road (end), Elgin OR	01N	40E	13	Union	45* 34.2205, -117* 45.8120	Unit 2 (NW Pine)

Anticipated Burn Date (range): May 2024

SIGNATURES

Preparer(s) Signature, Name and Phone:	John Punches 541-602-4689	**Date:**	**4/30/25**
Certified Burn Manager Signature, Name and Phone:	John Punches 541-602-4689 OR CBM #20240327PB17	**Date:**	**4/30/25**
Landowner(s) Signature, Name and Phone:	Finn Leary for OSU College of Forestry 541-224-2198	**Date:**	

REGISTRATIONS, SMOKE CLEARANCE, AND PERMITS

NOAP and/or PDM Number and Smoke Registration (if required)		**Burn and Smoke Permit Obtained (if required)**	None required

NOTIFICATIONS

NEARBY LANDOWNERS AND NEIGHBORS		REQUIRED CONTACTS	
Name	**Contact Info**	**Name**	**Contact Info**
Ruth Uhrig	70417 Follet Rd Elgin OR 97827 541-437-4374	Oregon Department of Forestry	Travis Lowe travis.d.lowe@odf.oregon.gov. 541-786-6408
Ed and Arlene Copher	70415 Follett Rd Elgin, OR 97827	Rural/City/County Fire Department(s)	Elgin RFD. John Campbell. 541-263-0308
Malcome & Catherine Townsend	1244 Sunset Dr Burbank, WA 99323	Emergency Services	Nick Vora. Union Co EMS Director. 541-963-1009
Jaylene Witherspoon	73762 Hwy 82 Elgin, OR 97827 541-437-5255	Local Air Quality	Via ODF
EE Arrand Trust Estill Arrand	70343 Greentree Rd Elgin, OR 97827		
Tom & Mercedes Arrand	70518 Greentree Rd Elgin, OR 97827 541-805-8302 (Son of Estill best contact info for both)		

BURN UNIT DESCRIPTION

Fuel Type (Slash, Brush, Grass, and/or Timber)	Fuel Loading (tons/acre)	Size of Unit (acres)
Timber Litter (TL8)	10 tons per acre (8 tons duff, 2 tons litter). 50% consumable.	2 acres

PRE-BURN FUELS AND VEGETATION DESCRIPTION <u>INSIDE</u> BURN UNIT:
Pine plantation (12" ave. DBH). Understory pine litter. Minimal shrub cover except in south corner. Patch of natural regen, semi-thinned, on uphill (east) side. Slope 5 to 15%.

Oregon Department of Forestry Broadcast/Understory Burn Plan

PRE-BURN FUELS AND VEGETATION DESCRIPTION OUTSIDE BURN UNIT:
Grass unit on northwest will be pre-burned or sufficiently moist to resist fire spread. Other adjacent units are timber understory and will have high fuel moistures at time of burn.

PRE-BURN PREPARATION

DESCRIPTION OF PRIMARY CONTROL LINES AND PREPARATIONS FOR USE:
NW (DP6 – DP9): Blackline from previous burn. N and NE (DP9 – DP11): Wetlin/blackline along previous handline following edge of forested area. S (DP11 – DP5): Wetline/blackline below trees and shrubs, adjacent to skid trails. W (DP5 – DP6): wetline/blackline. Mow lines if vegetation taller than 1'. Pull back any piled slash from under driplines of ponderosa pine leave trees and disperse or pile outside dripline.

LOCATION OF AND CONFIRMATION OF ACCESS TO PRIMARY WATER SOURCES:
Will have two, 300-gallon poly tanks filled and prepositioned onsite, for use for this unit and grass unit. Water trailer with 550-gallon tank available for water refill. Pond on property, 5-minute drive from burn unit, for refill as needed.

MINIMUM RESOURCES - PERSONNEL

Number Needed	Position	Description
1	**Certified Burn Manager**	**Certified to lead broadcast/understory burns**
1	Firing boss	Implement firing operations
1	Holding boss	Implement holding operations
15	Personnel	Assist with holding, firing, mop-up as needed

MINIMUM RESOURCES - EQUIPMENT

Number needed	Equipment Type	Burn Phase (Ignition and/or Patrol/Mop-Up)
1	4x4 truck, 200-gallon tank, hose and pump	All
1	ATV with 35-gallon skid unit	All
1	Water trailer with 550-gallon tank, pump, hose	All
2	300-gal poly tank with water	All
1	Portable pump	All
500'	1.5" hose with wyes and nozzles	All
500'	1" and/or garden hose with fittings and nozzles	All
3	Drip torches and/or propane burners	Ignition
Per crew size	Hand tools (variety on site to accommodate crew needs)	All
Per crew size	FRS radios (1 per squad, plus bosses)	All
1	VHS radio with ODF programming, for dispatch communication	All

RADIO, CELLULAR, OR OTHER FORMS OF COMMUNICATIONS

SYSTEM	FUNCTION	FREQUENCY		ASSIGNMENT
FRS	TAC	TX RX	Channel 1 (no tone)	General communication
VHS	Dispatch/Agency Communication	TX RX	Per ODF	Notify of test fire, ignition start/end, end of day status, patrol
Cell	Command		See contacts/notifications	Emergency notifications

CONTINGENCY AND WILDFIRE DECLARATION

CONTINGENCY RESOURCES:
Onsite: Type 6 engine (OSU), two additional pre-filled 300-gal water tanks on property, 6 additional personnel.
Offsite: Type 6 engine (ODF)

WHEN TO ACTIVATE CONTINGENCY RESOURCES AND ACTIONS TAKEN IN RESPONSE:
Activate continency if fire activity within burn unit is exceeding holding capacity of onsite resources. Any slop-overs or spots not controlled by onsite resources within 30 minutes or ½ acre of area indicate need for activation of contingency resources.

LOCATION AND CONDITION OF SECONDARY CONTROL LINES AND BACK-UP WATER SOURCES:
Skid roads north, southeast, and west of unit, and rocked road south of unit, serve as secondary control lines. Back-up water source at pond on property, use rocked road to access (do not attempt access via skid roads). Areas burned in spring and fall of 2023 provide additional control to east of unit.

CRITERIA AND PROCEDURE FOR WILDFIRE DECLARATION:
Spots or fire transmission outside OSU property boundaries require immediate notification of 911 and Oregon Department of Forestry. Prescribed fire ignitions will cease and onsite personnel not required for holding of prescribed fire will attempt suppression of wildfire within extent of their training and equipment. Wildfire incident will be turned over to ODF personnel upon their arrival.

Contingency Resource Name	Response Time	Location
Oregon Department of Forestry	40 min	La Grande

VALUES AT RISK AND SIDEBOARDS INSIDE AND OUTSIDE UNIT

Inside: Manage flame length to maintain acceptable crown scorch – see prescription notes.
Outside: OSU barn and fences (minimal risk). Neighboring properties (prevent fire transmission to north).

SMOKE MANAGEMENT

Nearest Smoke Sensitive Receptor(s)/Class 1 Airshed	SSRA: La Grande, Enterprise, Pendleton. Class 1: Eagle Cap Wilderness	**Distance and Direction**	La Grande 30 miles SW. Enterprise 30 miles ESE. Pendleton 60 miles E. Eagle Cap Wilderness 15 miles SE.

MITIGATION STRATEGIES AND TECHNIQUES TO REDUCE IMPACTS:
Burn when 20-foot winds are from N, NW, NE, W, SW, or when mixing height is over 1500'. Mop-up smoldering logs and stumps.

SMOKE MANAGEMENT FORECAST DAY BEFORE/DAY OF BURN: To be obtained.

TEST FIRE AND IGNITIONS

TEST FIRE LOCATION(S):
Anticipated E (DP6) corner of unit. May adjust if downslope winds are anticipated to drive fire behavior to greater extent than slope.

IGNITION EQUIPMENT, METHODS, AND SEQUENCES:
Drip torch and/or propane burners. Blackline on upslope and/or downwind side per prevailing effect and progress along unit flanks. Interior ignitions strip head-fire, shifting to dots if needed to reduce intensity. Dots anticipated for jackpot piles.

HOLDING AND CONTAINMENT

CRITICAL HOLDING POINTS AND MITIGATIONS:
Northwest and north lines most critical for preventing transmission to neighboring properties. Ensure effective black-lining before proceeding to interior ignitions.

CONTAINMENT LINE SPECIFICATIONS AND RATIONALE:
Blade/handline skid trails to achieve 2' wide line to bare mineral soil. Dig handlines to same specification. Wetlines in grass should be mowed (or string-trimmed) within 1 week of burn, with cuttings blown off line.

MOP-UP, PATROL, AND NOTIFICATION OF DECLARING BURN OUT

MOP-UP STANDARDS:
Extinguish smoldering/flaming materials within 30 feet of all unit boundaries once ignitions have completed in vicinity of that line and fuels have consumed. Burn boss will notify when to shift from burn to mop-up phase.

FREQUENCY AND DURATION OF PATROL:
Two hours of active patrol following conclusion of mop-up, plus comply with any patrol requirements per ODF. Follow-up patrol the next day, two times, approx. 1000 and 1500. Pay particular attention to evidence of spot fire smoldering outside unit boundaries. Additional patrol 1/day until burn declared out.

DESCRIBE CRITERIA AND NOTIFICATIONS FOR DECLARING THE BURN OUT:
Burn may be declared out when no evidence of ongoing combustion (smoldering/flaming/heat) can be observed for three consecutive days, no heat is detected within burn unit by a heat sensing device, or rainfall over 2" at unit location. Confirm with ODF. Notify Elgin RFD and OSU Director of Research Forests when burn declared out.

SAFETY, MEDICAL, AND EMERGENCY PLAN

NEAREST HOSPITAL:
Grande Ronde Hospital. Ambulance via rural fire district. Call 911 if emergency.
For other medical needs use the Elgin medical clinic, 15 minutes west on Hwy 82.

SAFETY ISSUES AND MITIGATIONS:
First aid kits with AEDs in OSU vehicles. PPE required for all participants. Potable water and electrolyte fluids on site. Participants advised to bring epi pens and personal meds appropriate for their conditions.

RALLY POINT INCLUDING DRIVING DIRECTIONS:
If evacuation required, primary rally point is parking area east of green barn on property. Secondary rally point is main gate off Follett Road.

RESOURCE MANAGEMENT GOALS

- Reinvigorate native bunchgrasses in understory.
- Reduce intensity of future fire and protect ponderosa pine by managing accumulation of litter and duff.
- Reduce probability of crown fire by scorching lower crowns to induce crown lift.
- Reduce risk of wildfire transmission to and from adjacent properties.
- Train personnel for prescribed fire responsibilities.

PRESCRIBED FIRE OBJECTIVES

Burn at least 70% of the area within the unit (patchy burn is anticipated). Within burned areas, consume 40-70% of dead grass thatch and pine litter, and 30 to 50% of duff, as measured at conclusion of burn. Consume 50 to 80% of slash. Limit scorch height to 20', as observed 1 week after burn. Train personnel in unit preparation, firing, holding, mop-up, and monitoring techniques.

ENVIRONMENTAL PARAMETERS AND FIRE BEHAVIOR					
ENVIRONMENTAL PRESCRIPTION			**ACCEPTABLE FIRE BEHAVIOR**		
	Low Intensity	**High Intensity**		**Low Intensity**	**High Intensity**
Temperature (°F)	40	85	**Flame Length (ft)**	.2	4
Relative Humidity (%)	80	30	**Rate of Spread (ch/hr)**	.2	13
20-ft. Wind Speed (Forecasted)	0	20			
20-ft. Wind Direction (Forecasted)	N, NW, NE, W, SW				
Eye-Level Wind Speed (Observed)	0	8			
Eye-Level Wind Direction (Observed)	Any				
Transport Wind Direction	N, NW, NE, W, SW				
Fine Dead (1-Hr) Fuel Moisture	14	5			

Prescription Comments: Assumes live fuel conditions at 120% MC. Low intensity conditions (low temp with high RH) may not achieve desired consumption levels but burning may proceed for training purposes. All modeled conditions limit scorch height to 20'.

Containment based on 20 chain per hour total line production rate. Patchy and green nature of adjacent fuels allow for direct attack by avoiding dense shrub patches, and by network of skid trails with green grass.

WEATHER MONITORING AND METHODS

MOST REPRESENTATIVE REMOTE AUTOMATED WEATHER STATION (RAWS) OR OTHER RELIABLE WEATHER STATION:
National Weather Service (Pendleton) weather forecast. Supplement with SPOT weather forecast. If feasible obtain onsite weather observations one day in advance and submit with SPOT weather forecast request. Utilize Windy app to identify anticipated wind changes.

WEATHER DATA COLLECTION METHOD AND FREQUENCY BEFORE, DURING, AND AFTER IGNITIONS:
On-site collection of wet and dry bulb temps, eye-level wind speed and direction. Calculate RH, FDFM, and PIG. Communication approximately hourly during firing and holding.

POST-BURN FUELS AND VEGETATION MONITORING AND METHODS

DESCRIBE METHODS FOR MONITORING POST-FIRE EFFECTS:

- Visual estimate of percent of unit burned.
- Visual estimate of thatch, litter, duff, and slash consumption based on pre- and post-burn observation.
- On-site observation of fire behavior during firing and holding.
- Post fire observation of crown scorch in ponderosa pine.

MAPS

See Unit 1 Plan

ATTACHMENT B – PRE-BURN BO/NO GO, CREW BRIEFING, TEST FIRE, AND POST-BURN CHECKLIST

A. PRE-BURN (Prior to Crew Briefing)

☐ Fire Unit is as described in plan and copy of plan is on site.
☐ Required firebreaks complete and are consistent with current and predicted conditions.
☐ Certified Burn Manager assigned, permits obtained and documented in burn plan.
☐ Required number of personnel present.
☐ Short and long-range weather and smoke management forecast obtained and within prescription.
☐ Notifications complete.
☐ Required equipment for holding, weather monitoring, ignition and suppression on-site and functioning.
☐ Personnel have reviewed equipment for readiness.
☐ Planned ignition, holding, and containment methods are appropriate for current and predicted conditions.
☐ Planned contingencies, mop-up, and patrol are appropriate for current and predicted conditions.
☐ Off-site contingency resources are operational and available.

B. CREW BRIEFING

☐ Burn unit size, boundaries, and fuels inside and outside unit reviewed with maps provided for reference.
☐ Hazards and safety issues.
☐ Prescribed burn objectives
☐ Anticipated fire and smoke behavior.
☐ Organization of crew and assignments.
☐ Methods of ignition, holding, mop-up, communications.
☐ Contact with the public, traffic concerns.
☐ Location of main roads, vehicles, keys, and nearest phone.
☐ Location of back-up equipment, supplies, and water.
☐ Suppression plan and use of contingency resources for escaped prescribed fire.
☐ Medical emergency procedures
☐ Answer questions from crew.

C. TEST FIRE

☐ On-site weather and fuel conditions are within prescription and consistent with forecast.
☐ Test burn conducted, fire and smoke behavior within prescribed parameters.

D. POST BURN CHECKLIST

☐ Mop-up completed to standards as described in burn plan.
☐ Night patrol assigned, if needed.
☐ Personnel and equipment assigned for days following burn, if needed.
☐ Notifications of completed burn, if required.
☐ Debrief or After-Action Review (AAR)

Certified Burn Manager sign and date form when burn is completed and has been turned over to the landowner or another Certified Burn Manager.

Certified Burn Manager Signature:_____ **Date:** _____

Oregon Department of Forestry Broadcast/Understory Burn Plan

Landowner Name and Address and/or Driving Directions to Unit	Township	Range	Section	County	Lat/Long (Degrees, Decimal Minutes)	Unit Name
Oregon State University Oberteuffer Forest Follett Road (end), Elgin OR	01N	40E	13	Union	45* 34.042, -117* 45.750	Unit 6

Anticipated Burn Date (range): May 2024

SIGNATURES AND CONTACT INFORMATION

Preparer(s) Signature, Name and Phone:	John Punches 541-602-4689	**Date:**	4/29/26
Certified Burn Manager Signature, Name and Phone:	John Punches 541-602-4689 OR CBM #20240327PB17	**Date:**	4/29/26
Landowner(s) Signature, Name and Phone:	Finn Leary for OSU College of Forestry 541-224-2198	**Date:**	

REGISTRATIONS, SMOKE CLEARANCE, AND PERMITS

NOAP and/or PDM Number and Smoke Registration (if required)		**Burn and Smoke Permit Obtained (if required)**	None required

NOTIFICATIONS

NEARBY LANDOWNERS AND NEIGHBORS		FIRE, EMERGENCY RESPONSE, AND AIR QUALITY CONTACTS	
Name	**Contact Info**	**Name**	**Contact Info**
Ruth Uhrig	70417 Follet Rd Elgin OR 97827 541-437-4374	Oregon Department of Forestry	Travis Lowe travis.d.lowe@odf.oregon.gov. 541-786-6408
Ed and Arlene Copher	70415 Follett Rd Elgin, OR 97827	Rural/City/County Fire Department(s)	Elgin RFD. John Campbell. 541-263-0308
Malcome & Catherine Townsend	1244 Sunset Dr Burbank, WA 99323	Emergency Services	Nick Vora. Union Co EMS Director. 541-963-1009
Jaylene Witherspoon	73762 Hwy 82 Elgin, OR 97827 541-437-5255	Local Air Quality	Via ODF
EE Arrand Trust Estill Arrand	70343 Greentree Rd Elgin, OR 97827		
Tom & Mercedes Arrand	70518 Greentree Rd Elgin, OR 97827 541-805-8302 (Son of Estill best contact info for both)		

BURN UNIT DESCRIPTION

Fuel Type (Slash, Brush, Grass, and/or Timber)	Fuel Loading (tons/acre)		Size of Unit (acres)
Timber overstory. Grass, litter, some slash. Modeled as TU5.	Woody: 5.0 ton/acre Stumps: 0.6 ton/acre Litter: 0.4 ton/acre Duff: 5.7 ton/acre Shrub: 4.5 ton/acre	Approx 16 tons/acre total. 7 tons/acre anticipated to be consumable.	4.5 acres

Oregon Department of Forestry Broadcast/Understory Burn Plan

PRE-BURN FUELS AND VEGETATION DESCRIPTION INSIDE BURN UNIT:

Mixed species stand with overstory ponderosa pine, western larch, Douglas-fir and a few grand fir, 18" to 30" diameter, to 90' height, crown bases typically 30' or higher. Mid-story Douglas-fir and grand fir, 8 to 12", to 50' height, crown base about 8' in D-fir but as little as 1' in grand fir. Understory of salmon berry with occasional ninebark, oceanspray, serviceberry, about 50% coverage. Low load pine litter common and will be primary carrier of fire. Grasses typically 4" to 6" and about 60% coverage. Minimal seedlings and saplings. Duff typically about 0.5" but with deeper pockets. Areas of rotten pine stumps. Pockets of light slash.

PRE-BURN FUELS AND VEGETATION DESCRIPTION OUTSIDE BURN UNIT:

Same as inside unit, except that area northwest of burn unit was burned in 2022 and has minimal consumable fuels under prescription conditions. Pond adjacent to north side of unit.

PRE-BURN PREPARATION

DESCRIPTION OF PRIMARY CONTROL LINES AND PREPARATIONS FOR USE:

North and west edges of unit are bounded by skid trails, which will be cleaned to bare mineral soil approx. 18" wide. East edge bounded by rocked mainline road. South edge is maintained landing/pile burn area.

Additional preparation:

- Pull back any piled slash/decayed logs from under driplines of leave trees and disperse or pile outside dripline.
- Install 2' handline around standing snags and large wood on ground to reduce likelihood of combustion.
- Locate and install 2' handline around permanent plot centers (3 observed in unit, marked with orange pins).

LOCATION OF AND CONFIRMATION OF ACCESS TO PRIMARY WATER SOURCES: Will have two pre-filled 300-gallon poly tanks prepositioned onsite. Pond on property adjacent to NE corner of unit, accessible from rocked mainline road.

MINIMUM RESOURCES – PERSONNEL

Number Needed	Position	Description
1	**Certified Burn Manager**	**Certified to lead broadcast/understory burns**
1	Firing boss	Implement firing operations
1	Holding boss	Implement holding operations
15	Personnel	Holding, firing, mop-up as needed

MINIMUM RESOURCES - EQUIPMENT

Number needed	Equipment Type	Burn Phase (Ignition and/or Patrol/Mop-Up)
1	4x4 truck with 200-gallon tank, hose and pump	All
1	ATV with 35-gallon skid unit	All
1	Water trailer with 550-gallon tank, pump, hose	All
4	Backpack pump (5 gallon)	All
2	300-gal poly tank with water	All
2	Portable pump	All
1000'	1.5" hose with wyes and nozzles	All
800'	1" and/or garden hose with fittings and nozzles	All
4	Drip torches and/or propane burners	Ignition
Per crew size	Hand tools (variety on site to accommodate crew needs)	All
Per crew size	FRS radios (1 per squad, plus bosses)	All
1	VHS radio with ODF programming, for dispatch communication	All

RADIO, CELLULAR, OR OTHER FORMS OF COMMUNICATIONS				
SYSTEM	**FUNCTION**	**FREQUENCY**		**ASSIGNMENT**
FRS	TAC	TX RX	Channel 1 (no tone)	General communication
VHS	Dispatch/Agency Communication	TX RX	Per ODF	Notify of test fire, ignition start/end, end of day status, patrol
Cell	Command		See contacts/notifications	Emergency notifications

CONTINGENCY AND WILDFIRE DECLARATION

CONTINGENCY RESOURCES:
Onsite: Type 6 engine (OSU), two additional pre-filled 300-gal water tanks on property, 6 additional personnel.
Offsite: Type 6 engine (ODF)

CONTINGENCY ACTION POINTS INCLUDING WHEN AND HOW TO RESPOND:

Activate continency if fire activity within burn unit is exceeding holding capacity of onsite resources. Any slop-overs or spots not controlled by onsite resources within 30 minutes or ½ acre of area indicate need for activation of contingency resources.

LOCATION AND CONDITION OF SECONDARY CONTROL LINES AND BACK-UP WATER SOURCES:

Skid roads and or rocked roads surround unit but may need short sections of handline to connect. Back-up water source at pond on property with prepositioned pump – use rocked road to access (do not attempt access via skid roads). Areas burned in spring and fall of 2023, and spring of 2024, provide additional control to immediate south of unit.

CRITERIA AND PROCEDURE FOR WILDFIRE DECLARATION:
Spots or fire transmission outside OSU property boundaries require immediate notification of 911 and Oregon Department of Forestry. Prescribed fire ignitions will cease, if feasible, and onsite personnel not required for holding of prescribed fire will attempt suppression of wildfire within extent of their training and equipment. Wildfire incident will be turned over to ODF personnel upon their arrival.

Contingency Resource Name	Response Time	Location
Oregon Department of Forestry	40 min	La Grande

VALUES AT RISK AND PRESCRIPTIVE SIDEBOARDS INSIDE AND OUTSIDE UNIT

MITIGATION MEASURES TO PROTECT VALUES AT RISK:
Inside: Manage flame length to maintain acceptable crown scorch – see prescription notes. Mitigate burn potential to snags.
Outside: OSU barn and fences (minimal risk). Neighboring properties (prevent fire transmission across property boundaries).

SMOKE MANAGEMENT

Nearest Smoke Sensitive Receptor(s)/Class 1 Airshed	SSRA: La Grande, Enterprise, Pendleton. Class 1: Eagle Cap Wilderness	**Distance and Direction**	La Grande 30 miles SW. Enterprise 30 miles ESE. Pendleton 60 miles E. Eagle Cap Wilderness 15 miles SE.

MITIGATION STRATEGIES AND TECHNIQUES TO REDUCE IMPACTS:
Burn when 20-foot winds are from N, NW, NE, W, SW, or when mixing height is over 1500' AGL. Mop-up smoldering logs and stumps if producing significant smoke.

SMOKE MANAGEMENT FORECAST DAY BEFORE/DAY OF BURN: To be obtained.

TEST FIRE AND IGNITIONS

TEST FIRE LOCATION(S):
Anticipated NW corner of unit (**DP12**). May adjust if downslope winds are anticipated to drive fire behavior to greater extent than slope.

IGNITION EQUIPMENT, METHODS, AND SEQUENCES:
Drip torch and/or propane burners. Blackline on upslope and/or downwind side per prevailing effect and progress along unit flanks. Interior ignitions strip head-fire, shifting to dots if needed to reduce intensity. Adjust to flanking or backing to maintain desired fire effects.

HOLDING AND CONTAINMENT

CRITICAL HOLDING POINTS AND MITIGATIONS:
North and west lines most critical for preventing transmission to north side of property. Wet vegetation on green side of north and west lines prior to ignitions if POI above 40%. Ensure effective blacklining along control lines before proceeding to interior ignitions.

CONTAINMENT LINE SPECIFICATIONS AND RATIONALE:
Clean skid trails to achieve 18" wide line to bare mineral soil. Clean (leaf blower) road if litter has accumulated.

MOP-UP, PATROL, AND NOTIFICATION OF DECLARING BURN OUT

MOP-UP STANDARDS:
Extinguish smoldering/flaming materials within 30 feet of all unit boundaries once ignitions have completed in vicinity of that line and fuels have consumed. Burn boss/CBM will notify when to shift from burn to mop-up phase. Additional mop-up depth may be dictated if warm, dry or windy conditions become forecast during night and day following burn.

FREQUENCY AND DURATION OF PATROL:
Two hours of active patrol following conclusion of mop-up, plus comply with any patrol requirements per ODF. Follow-up patrol the next day, two times, approx. 1000 and 1500. Pay particular attention to evidence of spot fire smoldering outside unit boundaries. Additional patrol 1/day until burn declared out.

DESCRIBE CRITERIA AND NOTIFICATIONS FOR DECLARING THE BURN OUT:
Burn may be declared out when no evidence of ongoing combustion (smoldering/flaming/heat) can be observed for three consecutive days, no heat is detected within burn unit by a heat sensing device, or rainfall over 2" at unit location. Confirm with ODF. Notify Elgin RFD and OSU Director of Research Forests when burn declared out.

SAFETY, MEDICAL, AND EMERGENCY PLAN

NEAREST HOSPITAL:
Grande Ronde Hospital. Ambulance via rural fire district. Call 911 if emergency.
For other medical needs use the Elgin medical clinic, 15 minutes west on Hwy 82.

SAFETY ISSUES AND MITIGATIONS:
First aid kits with AEDs in OSU vehicles. PPE required for all persons engaged in fire operations. Potable water and electrolyte fluids on site. Participants advised to bring epi pens and personal meds appropriate for their conditions. Bees/wasps may be present on site. Utilize Incident within Incident protocol.

RALLY POINT INCLUDING DRIVING DIRECTIONS:
If evacuation required, primary rally point is parking area east of green barn on property. Secondary rally point is main gate off Follett Road.

RESOURCE MANAGEMENT GOALS

- Reinvigorate native bunchgrasses and forbs in understory as forage for wildlife.
- Reduce intensity of future fire and protect ponderosa pine by managing accumulation of litter and duff, consuming coarse wood (particularly slash jackpots), and killing small trees to prevent their development as ladder fuels.
- Reduce probability of crown fire by scorching lower crowns to induce crown lift.
- Reduce risk of wildfire transmission across property.
- Train personnel for prescribed fire responsibilities.

PRESCRIBED FIRE OBJECTIVES

Burn at least 70% of the area within the unit (patchy burn is anticipated). Kill 50 to 70% of seedlings/saplings. Within burned areas consume 40-70% of dead grass thatch and pine litter and 30 to 50% of duff, as observed/estimated at conclusion of burn. Shrub mortality expected to be low but expect 50% topkill – any amount of mortality acceptable. Limit scorch height to 30', as observed 1 week after burn. Train personnel in unit preparation, firing, holding, mop-up, and monitoring techniques (**this is a primary objective – attempt burn even if conditions are on the low intensity end of the prescription**).

ENVIRONMENTAL PARAMETERS AND FIRE BEHAVIOR

ENVIRONMENTAL PRESCRIPTION			ACCEPTABLE FIRE BEHAVIOR		
	Low Intensity	High Intensity		Low Intensity	High Intensity
Temperature (°F)	40	85	Flame Length (ft)	.2	4*
Relative Humidity (%)	80	25	Rate of Spread (ch/hr)	.2	10*
20-ft. Wind Speed (Forecasted)	0	20			
20-ft. Wind Direction (Forecasted)	N, NW, NE, W, SW				
Eye-Level Wind Speed (Observed)	0	6			
Eye-Level Wind Direction (Observed)	Any				
Transport Wind Direction	N, NW, NE, W, SW				
Fine Dead (1-Hr) Fuel Moisture	14	5			

Prescription Comments:

Spring burn near peak of green-up, assumes average live fuel moistures at 160% or higher. Low intensity conditions (low temp with high RH) may not achieve desired consumption or seedling mortality levels but burning may proceed for training purposes and to reduce needle litter. Scorch height anticipated to be less than 30'. Based on observations of previous burning in this aread, TU5 fuel model overestimates fire behavior in this unit. TU1 would underestimate.

* Flame lengths in grass/litter expected to be under 2' but may reach 5' in shrub patches. Flames to 5' acceptable in discontinuous patches. ROIs generally expected to be less than 7 ch/hr. Short runs to 15 ch/hr acceptable.

Containment based on 20 chain per hour total line production rate. Patchy nature of unit and adjacent fuels allow for direct attack by avoiding dense shrub patches.

20-ft wind speed calculation assumes surface fuels are partially sheltered from wind. WAF 0.3.

WEATHER MONITORING AND METHODS
MOST REPRESENTATIVE REMOTE AUTOMATED WEATHER STATION (RAWS) OR OTHER RELIABLE WEATHER STATION: National Weather Service (Pendleton) weather forecast. Supplement with SPOT weather forecast. If feasible obtain onsite weather observations one day in advance and submit with SPOT weather forecast request. Utilize Windy app to identify anticipated wind changes. **WEATHER DATA COLLECTION METHOD AND FREQUENCY BEFORE, DURING, AND AFTER IGNITIONS:** On-site collection of temperature, eye-level wind speed and direction. Calculate RH, FDFM, and PIG. Communicate approximately hourly during firing and holding.
POST-BURN FUELS AND VEGETATION MONITORING AND METHODS
DESCRIBE METHODS FOR MONITORING POST-FIRE EFFECTS: • Visual estimate of percent of unit burned. • Visual estimate of thatch, litter, duff, slash and seedling consumption/mortality based on pre- and post-burn observations. • On-site observation of fire behavior during firing and holding. Photo document, if possible. • Post fire observation of crown scorch in overstory trees.

MAPS

See Unit 1 Plan

PRE-BURN BO/NO GO, CREW BRIEFING, TEST FIRE, AND POST-BURN CHECKLIST

A. PRE-BURN (Prior to Crew Briefing)

☐ Fire Unit is as described in plan and copy of plan is on site.
☐ Required firebreaks complete and are consistent with current and predicted conditions.
☐ Certified Burn Manager assigned, permits obtained and documented in burn plan.
☐ Required number of personnel present.
☐ Short and long-range weather and smoke management forecast obtained and within prescription.
☐ Notifications complete.
☐ Required equipment for holding, weather monitoring, ignition and suppression on-site and functioning.
☐ Personnel have reviewed equipment for readiness.
☐ Planned ignition, holding, and containment methods are appropriate for current and predicted conditions.
☐ Planned contingencies, mop-up, and patrol are appropriate for current and predicted conditions.
☐ Off-site contingency resources are operational and available.

B. CREW BRIEFING

☐ Burn unit size, boundaries, and fuels inside and outside unit reviewed with maps provided for reference.
☐ Hazards and safety issues.
☐ Prescribed burn objectives
☐ Anticipated fire and smoke behavior.
☐ Organization of crew and assignments.
☐ Methods of ignition, holding, mop-up, communications.
☐ Contact with the public, traffic concerns.
☐ Location of main roads, vehicles, keys, and nearest phone.
☐ Location of back-up equipment, supplies, and water.
☐ Suppression plan and use of contingency resources for escaped prescribed fire.
☐ Medical emergency procedures
☐ Answer questions from crew.

C. TEST FIRE

☐ On-site weather and fuel conditions are within prescription and consistent with forecast.
☐ Test burn conducted, fire and smoke behavior within prescribed parameters.

D. POST BURN CHECKLIST

☐ Mop-up completed to standards as described in burn plan.
☐ Night patrol assigned, if needed.
☐ Personnel and equipment assigned for days following burn, if needed.
☐ Notifications of completed burn, if required.
☐ Debrief or After-Action Review (AAR)

Burn Manager sign and date form when burn is completed and has been turned over to the landowner or another Burn Manager.

Burn Manager Signature:_____ **Date:** _____