

Simple Understory Prescribed Burning Unit Plan

Landowner _____ Permit no. _____
 Address _____ Phone no. _____
 S ___ T ___ R ___ County _____ Acres to Burn _____ Previous burn date _____
 Purpose of burn _____

(Draw map on back or on a separate piece of paper and attach)

STAND DESCRIPTION

Overstory type & size _____ Height to bottom of crown _____
 Understory type & height _____
 Dead fuels: description and amount _____

PRE-BURN FACTORS

Manpower & equipment needs _____
 List smoke-sensitive area & locate on map _____
 Special precautions _____

Estimated no. hours to complete _____ Passed smoke screening system _____
 Adjacent landowners to notify _____

WEATHER FACTORS:

	Desired Range	Predicted	Actual
Surface winds (speed & dir.) _____		_____	_____
Transport winds (speed & dir.) _____		_____	_____
Minimum mixing height _____		_____	_____
Dispersion/stagnation index _____		_____	_____
Minimum relative humidity _____		_____	_____
Maximum temperature _____		_____	_____
Fine-fuel moisture (%) _____		_____	_____
Days since rain _____ Amount _____		_____	_____

FIRE BEHAVIOR:

	Desired Range	Actual
Type fire _____		_____
Best month to burn _____		Date burned _____
Flame length _____		_____
Rate of spread _____		_____
Inches of litter to leave _____		_____

EVALUATION:

	Immediate	Future
Any escapes? _____ Acreage _____		Evaluation by _____
Objective met _____		Date _____
Smoke problems _____		Insect/disease dam. _____
% of area with crown discoloration of 5-25% ____ 26-50% ____ 51-75% ____ 76%+ ____		Crop tree mortality _____
Live crown consumption _____		% understory kill _____
Adverse publicity _____		Soil movement _____
Technique used OK _____		Other adverse effects _____
Remarks _____		Remarks _____
_____		_____
_____		_____

Prescription made by: _____ Date: ____/____/____
 Title: _____

Understory Prescribed Burning Unit Plan

Prepared by _____ Signature _____ Date _____ Permit # _____
 State _____ County _____ District _____ Comp't _____
 Burning unit no. _____ S _____ T _____ R _____ Gross acres _____ Net acres _____
 Landowner _____ Address _____ Phone _____
 Person responsible & how to contact day & night _____

(Draw map on back or on a separate piece of paper & attach)

A. **Record of Previous Burning:** Date _____ Fire type _____ Results _____

B. **Description of Stand:**

1. Overstory: Type, density, size _____ Height to bottom of crown _____
2. Understory: Type, density, height _____
3. Dead fuels: Type, density, age, volume _____
4. Soil type and topography _____

C. **Purpose(s) of Burn:** _____

D. **Specific Objectives:** _____

E. **Pre-burn Factors:**

1. Chains to plow (see map): Exterior _____ Interior _____ Total _____
2. Chains to fire (see map): Exterior _____ Interior _____ Total _____
3. Crew size _____ Equipment needs _____
4. Estimated tons/acre _____ Total tons to be burned _____
5. Ignition procedure (see map) _____
6. Passed screening system? _____ Special precautions _____
7. Notify _____
8. Regulations that apply _____
9. List smoke-sensitive areas & critical targets (see map) _____

F. **Weather Factors: DESIRED RANGE**

- | | | |
|---|-------|-------|
| 1. Surface wind (speed & dir.) _____ | _____ | _____ |
| 2. Transport wind (speed & dir.) _____ | _____ | _____ |
| 3. Stability/stagnation index _____ | _____ | _____ |
| 4. Minimum mixing height _____ | _____ | _____ |
| 5. Dispersion index _____ | _____ | _____ |
| 6. Minimum relative humidity _____ | _____ | _____ |
| 7. Maximum temperature _____ | _____ | _____ |
| 8. Fine fuel moisture _____ | _____ | _____ |
| 9. Days since rain _____ Amount _____ | _____ | _____ |
| 10. Burning Index _____ Drought Index _____ | _____ | _____ |

ACTUAL RANGE

G. **Fire Behavior: DESIRED RANGE**

- | | |
|------------------------------------|-------------------|
| 1. Type fire _____ | Date burned _____ |
| 2. Best month to burn _____ | Time set _____ |
| 3. Time of day to start _____ | Completed _____ |
| 4. No. hours to complete _____ | _____ |
| 5. Flame length _____ | _____ |
| 6. Rate of spread _____ | _____ |
| 7. Fire-line intensity _____ | Litter left _____ |
| 8. Inches of litter to leave _____ | FUTURE |

H. **Evaluation: IMMEDIATELY AFTER BURN**

- | | |
|--|-----------------------------|
| 1. Acres burned _____ | Evaluation by _____ |
| 2. Spotting _____ Distance _____ | Date made _____ |
| 3. Any escapes _____ | Insect/disease damage _____ |
| 4. Objectives met _____ | Crop tree mortality _____ |
| 5. Smoke problems _____ | _____ |
| 6. % understory vegetation consumed _____ | % understory kill _____ |
| 7. % of area with crown discoloration of
5-25% ___ 26-50% ___ 51-75% ___ 76%+ _____ | _____ Soil movement _____ |
| 8. Live crown consumption _____ | Other adverse effects _____ |
| 9. Adverse publicity _____ | _____ |
| 10. Remarks _____ | Remarks _____ |

PREDICTED

ACTUAL

Postharvest Prescribed Burning Unit Plan

Prepared by _____ Signature _____ Date _____ Permit No. _____
 State _____ County _____ District _____ Comp't _____
 Burning unit no. _____ S _____ T _____ R _____ Gross acres _____ Net acres _____
 Landowner _____ Address _____ Phone _____
 Person responsible & how to contact day & night _____

A. Description of Area: (Draw map on back or on a separate piece of paper & attach)

1. Natural stand or plantation _____ Stand age _____ Harvest date _____
2. Clearcut _____ Harvest method _____ Pine basal area removed _____
3. Organic soil _____ Hardwood basal area _____ Hardwoods utilized _____
4. Unmerchantable trees felled _____ Snags felled _____ Debris evenly distributed _____
5. Debris (light, medium or heavy) _____ Brush (light, medium or heavy) _____
6. Herbaceous fuels (light, medium, heavy) _____ Herbaceous fuels continuous _____
7. Herbicide used _____ Date applied ____/____/____
8. Drum chopped _____ Single or Double Pass _____ Date completed ____/____/____
9. Windrowed and/or piled _____ Date piled ____/____/____ Piled when wet _____
10. Pile or windrow dimensions: Ht. _____ Width (diameter) _____
11. Windrow break interval _____

B. Pre-burn Factors and Desired Fire Intensity:

1. Areas to exclude _____
2. Chains to plow (see map): Exterior _____ Interior _____ Total _____
3. Chains to fire (see map): Exterior _____ Interior _____ Total _____
4. Equipment needs _____
5. Crew size _____ Type of fire _____ Type of ignition _____
6. Ignition procedure (see map) _____
7. No. of hours to complete _____ Tons/acre to consume _____ Litter to leave (in.) _____
8. Special precautions _____
9. Notify _____
10. Regulations that apply _____
11. Passed screening system? _____ List smoke-sensitive areas & critical targets; locate on map _____

C. Weather Factors: **DESIRED RANGE** **PREDICTED** **ACTUAL**

- | | | | |
|---|-------|--------------------|-------|
| 1. Surface wind (speed & dir.) _____ | _____ | _____ | _____ |
| 2. Transport wind (speed & dir.) _____ | _____ | _____ | _____ |
| 3. Mixing height _____ | _____ | _____ | _____ |
| 4. Dispersion Index (or comparable) _____ | _____ | _____ | _____ |
| 5. Relative humidity _____ | _____ | _____ | _____ |
| 6. Temperature (°F) _____ | _____ | _____ | _____ |
| 7. Fine-Fuel moisture (%) _____ | _____ | _____ | _____ |
| 8. 10-hr. Fuel moisture (%) _____ | _____ | _____ | _____ |
| 9. Days since rain _____ Amount _____ | _____ | _____ | _____ |
| 10. Burning Index _____ Drought Index _____ | _____ | _____ | _____ |
| 11. Best month to burn _____ | _____ | Dates burned _____ | _____ |
| 12. Time of day to start _____ | _____ | Time set _____ | _____ |

D. Summary of Burn:

1. Type fire & ignition _____
2. All piles, windrows & logging decks ignited _____
3. % of area burned _____ Did area between piles burn? _____
4. Spotting frequency _____ Distance _____ Firebrand material _____

E. Evaluation Immediately After Burn:

1. Any escapes: Number _____ Adjacent to burn area? _____ Acres involved _____
2. Hours to burnout: Active flaming _____ Smoldering _____ Total hours _____
3. % understory veg. consumed _____ Depth of litter remaining (in.) _____
4. % material < 3" dia. consumed _____ Did piled debris burn down? _____
5. Objectives met _____
6. Adverse publicity _____
7. Smoke problems _____
8. Remarks _____

F. Future Evaluation (Date, signature, and remarks) _____