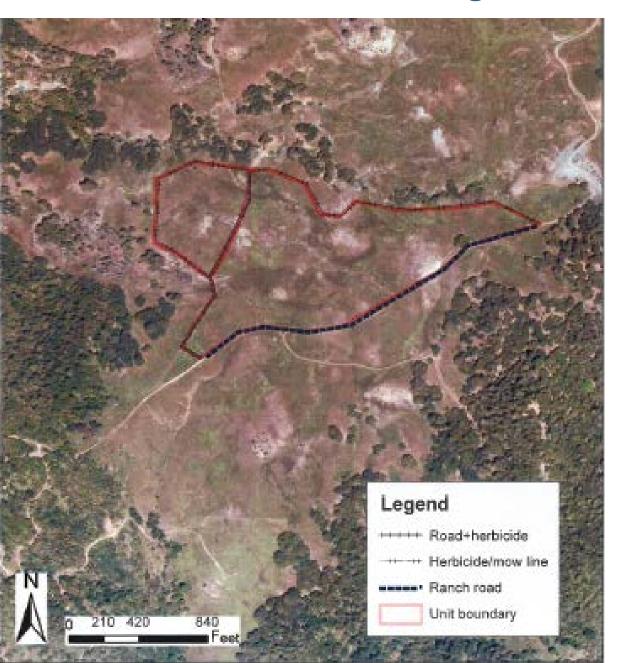
A Brief Intro to Prescribed Burn Unit Prep, Firing Operations, and Mop-up







Considerations that go into Burn Unit Prep



Field Assessment of Conditions:

Unit Recon and Design

- Topography
- Fuels
- Weather

Unit Features

- Access
- Staging Areas
- Water Sources
- Containment Lines

Compliance

- Burn Plan
- Permits in Place
- Signage
- Notifications
- Resources in place
- IAP: Incident Action Plan
- Safety

Preparation

- Containment Lines
- Equipment vs. Handline
- Hoselay- Plumbing

Mop-up, Patrol, and De-Mob

- Available Resources
- Timing

Burn Unit Layout and Prep

Figure 8—Begin Fireline At Anchor Point

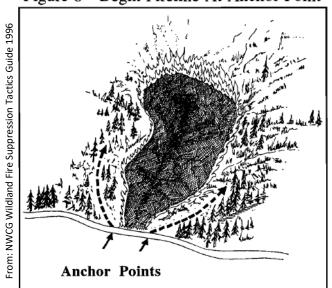
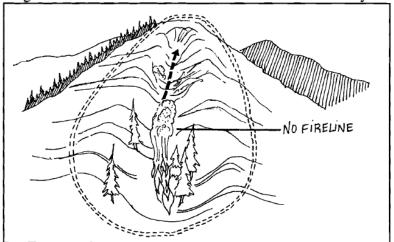


Figure 10—Fireline Constructed Near Chute or Box Canyon



From: NWCG Wildland Fire Suppression Tactics Guide 1996

Remember its guided by the Rx Burn OBJECTIVES!!!

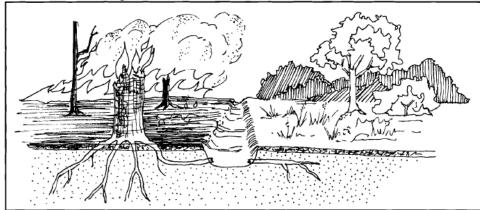
- 1. Analyze topography
- 2. Observe Weather Trends
- 3. Anticipate Fire Behavior

CONSIDER:

- Use natural or pre-existing anchor points
- Strategic placement of containment line and resources relative to topography
- Need for strategic pre-treatment of fuels near resource values (Legacy trees, structure, etc.) or strategic containment line
- All phases: Ignition, Holding, Mop-up
- Smoke dispersion

Containment Line Considerations

Figure 16—Fireline Cleaned To Mineral Soil



From: NWCG Wildland Fire Suppression Tactics Guide 1996



Photo Credit: Ames Gilbert

Locations consider:

- Fuels: type and arrangement
- Topography: Ridges, Drainages
- Fire behavior & weather: Heat
- Infrastructure: Roads, Resources
- Should be "anchored" & Complete!

Containment lines can be:

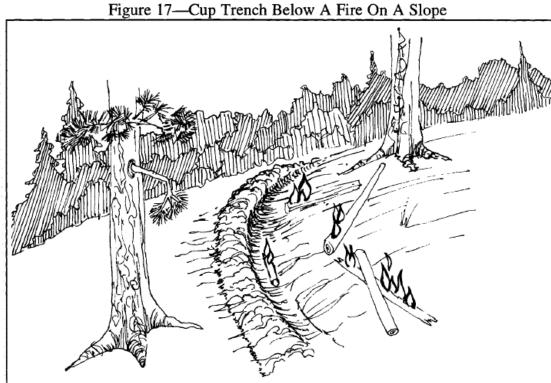
- Roads, skid trails,
- Handline
- Dozer line
- Wet line
- Mow line
- Herbicide line
- Natural Features (Creek)

Typical Construction:

- Bare mineral soil
- Only as wide as necessary Width based on fuel type, load, and arrangement
- Should not be available to burn

Containment Line Considerations, continued





From: NWCG Wildland Fire Suppression Tactics Guide 1996

Other Special Considerations:

- Snags, rolling materials & safety hazards
- Amount of heat for holding
- Resources needs (hose lays?)

- Mop-up & Patrol
- Maintenance
- Erosion control & post-fire rehab

Firing & Holding Operations







Plan

- Burn Plan (with OBJECTIVES!!!)
- Weather and Fuel Monitoring
- Go No Go Checklist

People

- Burn Boss
- Firing and Holding Resources

Process • Igni

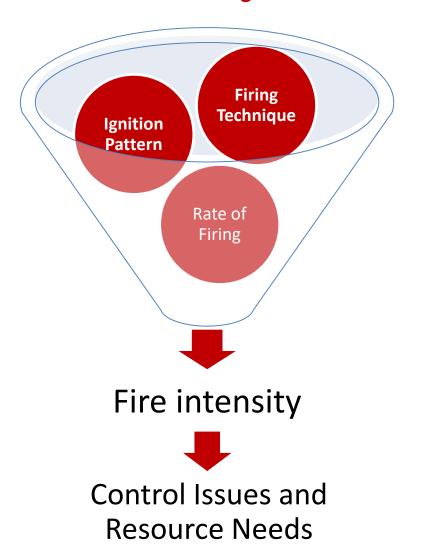
- Notifications
- Test fire
- Ignition & Holding (choreographed together)
- Mop-up & Patrol

Firing Operations: Applied Fire Behavior

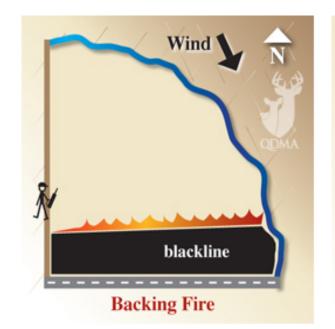
Additional Factors Affecting Rx Fire Behavior



Fire Behavior Triangle



Common Firing Techniques & Ignition Patterns

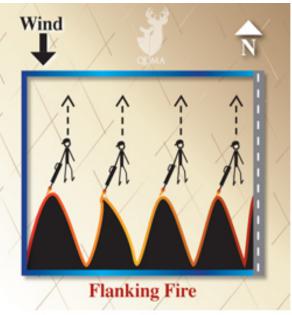


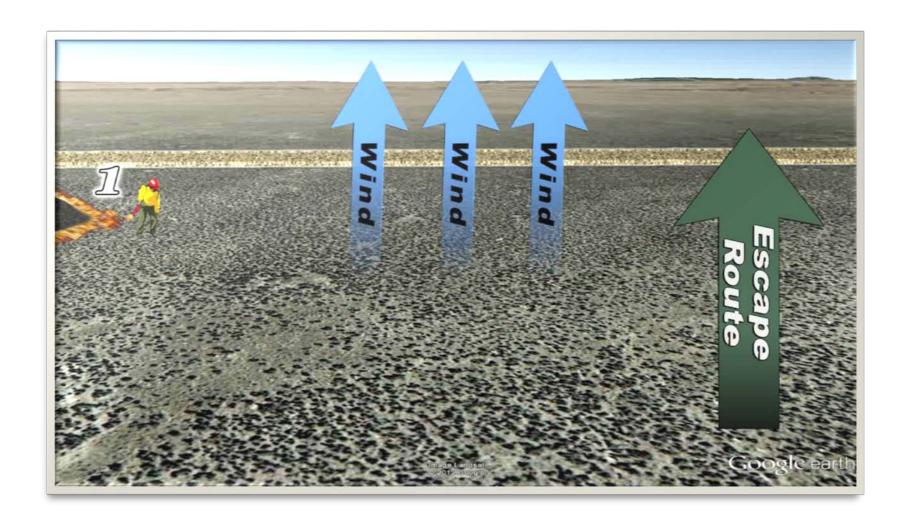




Wind Direction







Firing Techniques & Ignition Patterns



Holding Operations



Choreographed with Firing

Heat/Smoke on the line

Eyes on the "Green" looking for spot fires

Patrolling for slop-overs

Monitoring Weather & Fire Activity

Communicating with Firing



Mop-up & Patrol



Photo Credit: Inciweb

#1 Let consumption happen if congruent with objectives

#2 Safety: Mitigate Hazards

#3 Prioritize the perimeter

#4 Judicious use of tools and water

#5 Key in on Features:

Stumps

Logs

Snags

Cat-faces

Smoke/Steam

#5 Patrol, Patrol, Patrol

Questions?