Wildland Fire Suppression

University of Arizona
Wildland Fire Course
Fall 2012

Fire Triangle

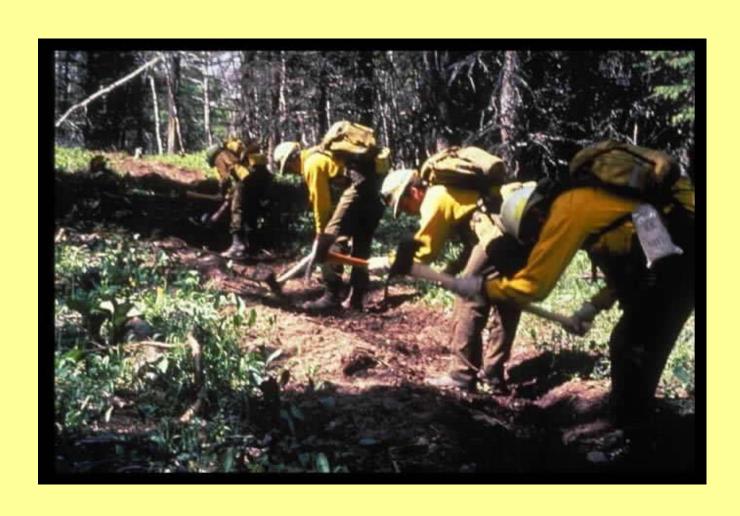


Ways to Break the Fire Triangle

- Wildland Firefighting involves "breaking" one of the legs of the fire triangle.
- Handline
- Burning out
- Using water or dirt



"Breaking" the Fuel Leg Constructing Handline



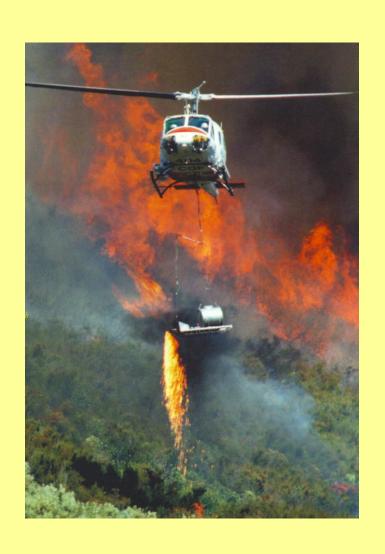
Dozer Line



Sawyers- Eliminating trees and brush



Burning Out





Fireline Explosives



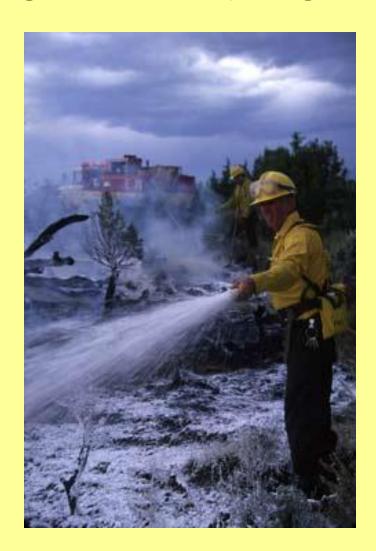


Retardant (85% water 10% fertilizer 5% red dye)





"Breaking" the O₂ Leg of the Fire Triangle- Applying Foam



Using Dirt



Smothering the Fire





"Breaking" the heat leg



Using Water





Using foam and water



Dry Mop Up



Wildfire Response

- Deciding what to do with a fire:
 - Suppression Action
 - Monitor
 - Manage for Resource Benefit
 - Manage with multiple objectives

Decision Made to Suppress

- Plan of Attack
- Fire Suppression Resources Needed
- Overhead Needed
- Indirect Attack
- Direct Attack

Plan of Attack

- Can the fire be suppressed with engines?
- Is the fire not accessible with equipment?
- Will aircraft be needed?



Resources Needed



Engines





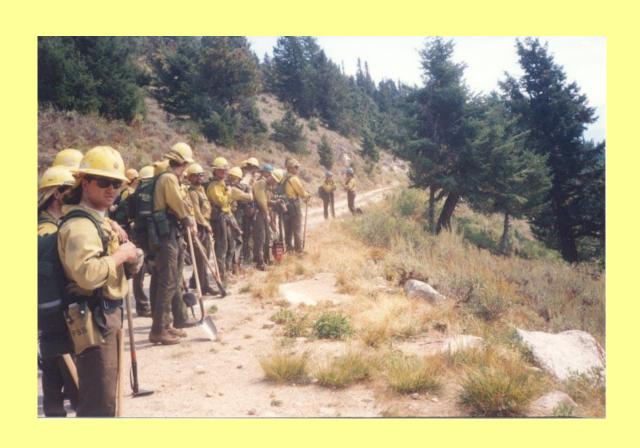
Fixed Wing Aircraft



Rotor Wing Aircraft



Hand Crews



Smokejumpers





Heavy Equipment



Overhead Needed

- Incident Commander
- Division Supervisor
- Task Force Leader
- Logistics
- Planning
- Facilities
- IMT? What level?



Indirect Attack



Direct Attack



Mop Up



Rehabilitation



Dangers to the Wildland Firefighter Personal Protective Equipment



Fire Resistant Shirts





Fire Resistant Pants





Leather Gloves



Hard Hat





Leather, Lace Up Boots







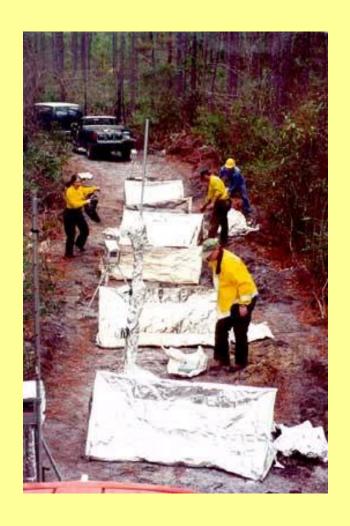
Water

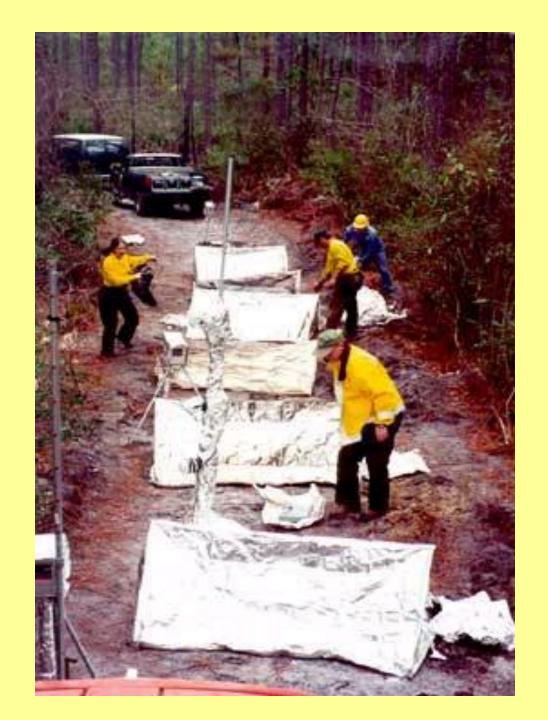




Fire Shelter







Head Lamp





Questions?