

Unit 11 Objectives

1. Describe and demonstrate how to extinguish burning materials by chopping, scraping, and mixing them with soil and water.
2. Describe precautions to take when applying water to hot materials and demonstrate proper techniques for doing so.
3. Describe a systematic method of mopup and give two reasons for using this method.

11-2-S130-EP

Unit 11 Objectives

4. Describe how four of the senses aid in detecting burning materials.
5. Discuss the importance of breaking up and dispersing machine piles and berms adjacent to the control line.
6. Demonstrate the technique of cold trailing on a simulated fire perimeter.

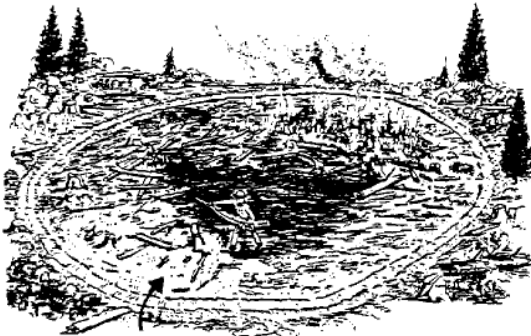
11-3-S130-EP

Unit 11 Objectives

7. State three factors that determine the amount of additional work required for a water or retardant line.
8. Given a constructed control line, strengthen the line to facilitate holding by rearranging and fireproofing fuels adjacent to the line.

11-4-S130-EP

Dry Mopup Boneyarding or Bone Piling



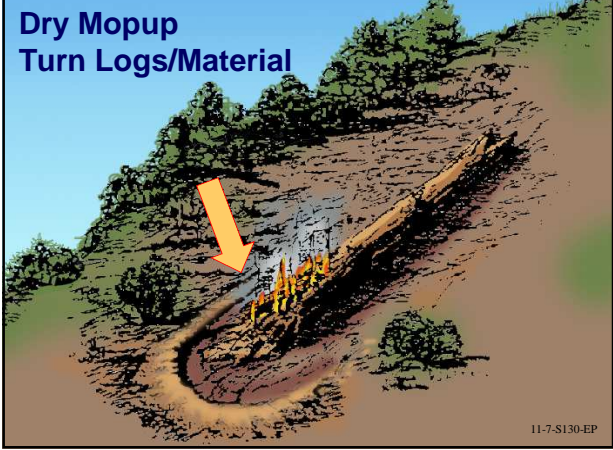
BONEYARD IN CLEARED AREA

11-5-S130-EP

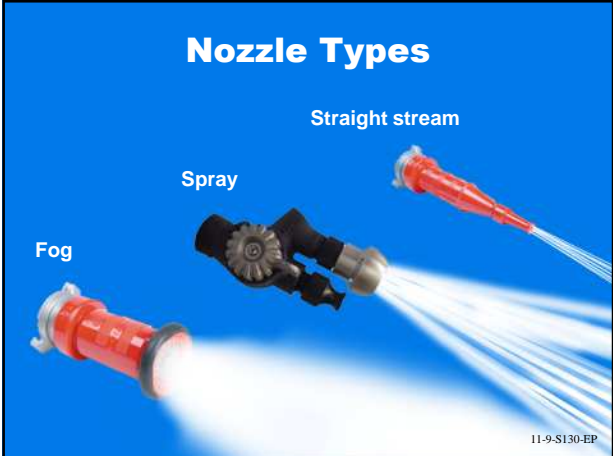
Dry Mopup

- Chunking and piling
- Spreading of heavy concentrations of materials near control line or inside burned area.
- Banked fuels

11-6-S130-EP







Types of Class A Foam

<p>Expansion</p> <p style="text-align: center;">1:1</p> <div style="text-align: center;"> </div> <p style="text-align: center;">20:1</p>	<p>Foam Solution</p> <ul style="list-style-type: none"> - A clear to milky fluid - lacks bubble structure - mostly water <p>Wet Foam</p> <ul style="list-style-type: none"> - Watery - Large to small bubbles - Lacks body - Fast drain times <p>Fluid Foam</p> <ul style="list-style-type: none"> - Similar to watery shaving cream - Medium to small bubbles - Flows easily - Moderate drain times <p>Dry Foam</p> <ul style="list-style-type: none"> - Similar to shaving cream - Medium to small bubbles - Mostly air - Clings to vertical surfaces - Slow drain times 	<p>Drainage</p> <p style="text-align: center;">Rapid</p> <div style="text-align: center;"> </div> <p style="text-align: center;">Slow</p> <p style="text-align: center; font-size: small;">11-10-S130-EP</p>
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Safety Hazards

11-11-S130-EP

Low-hanging limbs can spread fire across fireline

11-12-ST30-EP

Systematic Mopup

- Work from hottest to coolest area.
- Plan a beginning and ending point.
- Work inward from control line.
- Examine entire assigned area.
- Obtain clear instructions.
- Use a grid system if necessary.

11-13-S130-EP

Four Senses Sight



11-14-S130-EP

Four Senses Touch

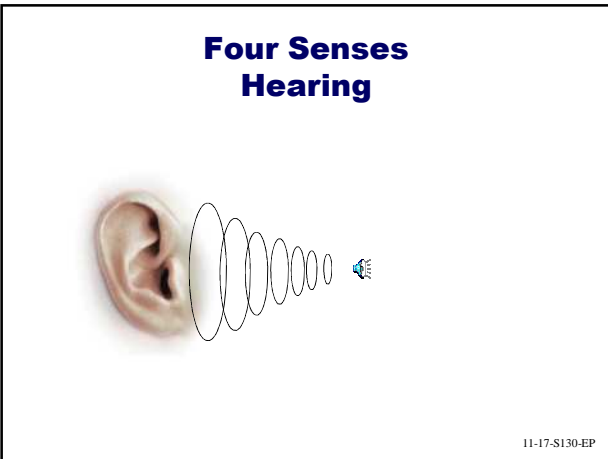


11-15-S130-EP

Four Senses Smell



Four Senses Hearing



Covered Fuels Machine Piles

- Break up and disperse
- Hazards in machine piles include:
 - spring poles
 - unstable footing
 - hidden pockets
 - reduced recognition and visibility at night
 - falling berm and logs
 - fatigue

11-18-S130-EP

Covered Fuels Ground

- Coal seams
- Peat
- Heavy duff layers in timber
- Natural fuel accumulations

11-19-S130-EP

Strengthening Control Line Rearrange Fuel



11-20-S130-EP

Strengthening Control Line Trenches



11-21-S130-EP

Strengthening Control Line Waterbars



11-22-S130-EP

Review Unit 11 Objectives

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11-23-S130-EP

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11-24-S130-EP

Review Unit 11 Objectives

- 7. State three factors that determine the amount of additional work required for a water or retardant line.**

- 8. Given a constructed control line, strengthen the line to facilitate holding by rearranging and fireproofing fuels adjacent to the line.**

11-25-S130-EP
