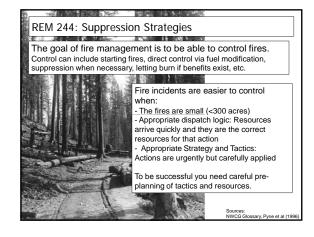
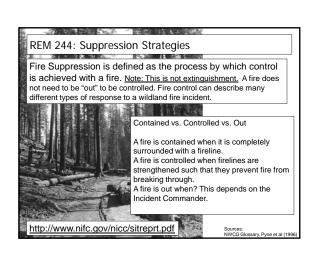
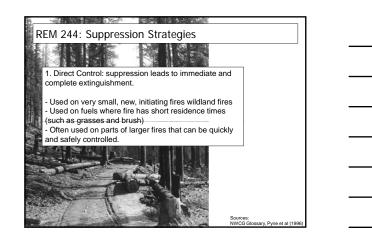
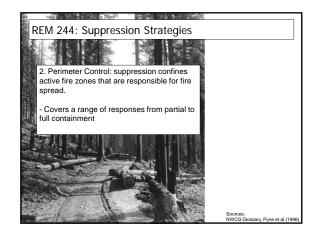


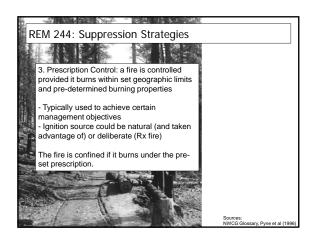
REM 244: Suppression S	Strategies
<ul> <li>Prescribed (Rx) fires are delibe</li> </ul>	Inted and require actions to control it orate or at least serve a benefit es become a wildfire or when wildfires
	In FPA, escapes are defined when:  1. No resources are available to be applied to the fire,  2. The fire is discovered after a predefined time limit,  3. The fire growth exceeds a predefined size (~300 acres), or  4. Suppression efforts reach their pre-defined work-shift length and the fire is abandoned











### REM 244: Suppression Strategies

Several fundamental steps are common to all suppression efforts. (i) Remember the fire triangle: segregate fuels, oxygen, and heat; (ii) if using perimeter control you need firelines; (iii) if using prescription control you need modeling or monitoring resources.



Fire control involves reducing oxygen, fuel, or heat.
- Fuel removal can be done via firelines

Heat reduction can be achieved via water, foam, and dirt

- Oxygen can be limited by inhibiting the combustion process via fire retardants.

In most <u>surface</u> fires, perimeter control is used. Perimeter control is impractical in crown fires with long-range spotting and belowground fires.

Sources: NWCG Glossary Pyne et al (1996)

### REM 244: Incident Command Structure

In the late 1980s, the need for interagency cooperation on large incidents that crossed multiple jurisdictions, led to the formation of the National Interagency Incident Management System (NIIMS)



NIIMS proposed a comprehensive incident command system (ICS) to manage all incidents.

This system was modeled on the FIRESCOPE Project developed following the 1970 California fires.

Helps with span of control or how many people does one person supervise. Generally one person has control over no more then 6 to 8 personal.

For more information on the ICS system visit= http://training.fema.gov/emiweb/is/is100b.asp

Sources: NWCG Glossary Pyne et al (1996) USES Region 5

### REM 244: Incident Command Structure



The Modern ICS system:

- Uses a common terminology (across urban and wildland fire fighters)

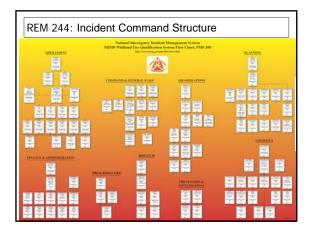
-Modular: ability to evolve (and grow in complexity) but only if necessary

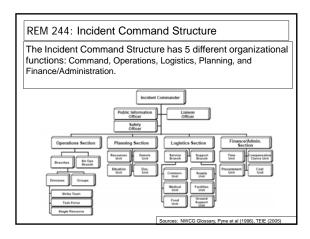
-Requires integrated communications

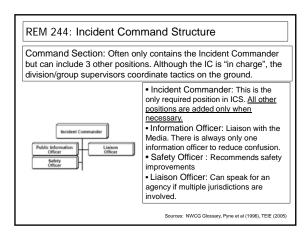
-Chain-of-command. I know who I work for and who works for me.

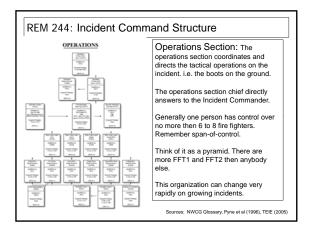
-Span-of-control. Helps control how many people

Sources: NWCG Glossary, Pyne et al (1996), Firescope.org

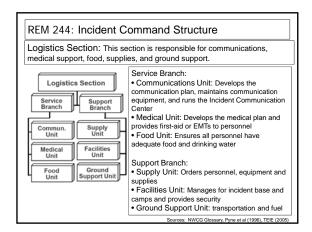








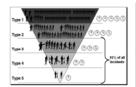
## Planning Section: The principal task of this section is to develop the Incident Action Plan (IAP) for each operation period and keep track of both resources and fire progression. The planning section works to anticipate problems and events that may occur. \*Resources Unit: Responsible for check-in activity and maintaining status of all personnel and resources. \*Situation Unit: Collects and analyzes data on the current situation and displays maps (GIS), summaries, and projections \*Decumentation Unit: Prepares the Incident Action Plan and maintains all records. \*Demobilization Unit: Ensures orderly and safe release of personnel \*Technical Specialists



## REM 244: Incident Command Structure Finance / Administration Section: This section is responsible for all costs related to the activities of the incident. • Time Unit: Ensures all personnel time is recorded • Procurement: Responsible for equipment time reporting • Compensations / Claims Unit: Responsible for ensuring documentation relating to workers compensation are correctly completed. This unit also investigates property damaged by the incident.

### REM 244: Incident Command Structure

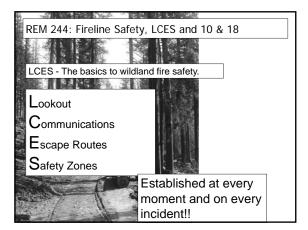
To ensure that an Incident Commander gets the right resources, NIIMS requires that all fires are typed into 5 classes.



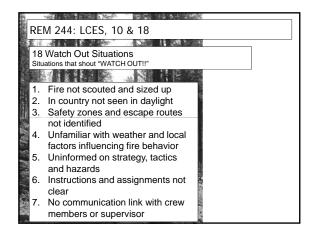
There is no specific size or complexity of when a fire transitions into the next type fire.

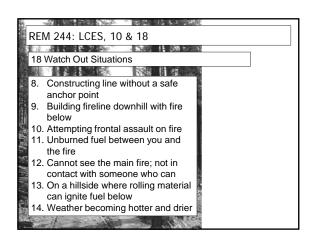
- Type 5: 1-2 resources and up to ~6 personnel. Incident is contain within a few hours.
- Type 4: May use single modules or task force / strike teams
- Type 3: Divisions and groups now exist.
   Written Incident Action Plan is now required for each operation period.
   Incident extends over multiple operational periods.
- Type 2: Regional or national resources required. Operations personnel of 50-200.
   Type 1: National resources required. All ICS positions activated. Incident expected to last a prolonged time.

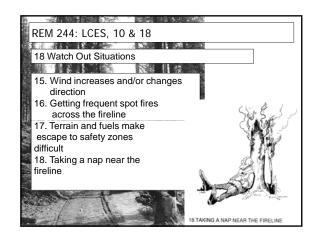
Sources: NWCG Glossary, Pyne et al (1996), TEIE (2005)



		7
	REM 244: LCES, 10 & 18	
题」		_
	10 Standard Firefighting Orders	
	These are an absolute and must not be broken.	
	图图 / 1 C C C C C C C C C C C C C C C C C C	_
瓥	FIRE BEHAVIOR	
	<ol> <li>Keep informed on fire weather conditions and forecasts</li> </ol>	
	Know what your fire is doing at all times	
	Base all actions on current and expected fire behavior FIRELINE SAFETY	
	Identify escape routes and safety zones, and make them known	ı
	<ol> <li>Post lookouts when there is possible danger</li> </ol>	
20	Be alert. Keep calm. Think clearly. Act decisively	
	ORGANIZATIONAL CONTROL	
	<ol><li>Maintain prompt communication with your forces, your supervisor and adjoining forces</li></ol>	
4	8. Give clear instructions and be sure they are understood	
	Maintain control of your forces at all times	
38	IF YOU CONSIDER 1-9, THEN	
	<ol> <li>Fight fire aggressively, having provided for safety first</li> </ol>	
100		_







### REM 244: Dispatch and Sizeup

Sizeup is defined as the process that evaluates the fire to determine a course of action for suppression and the most effective way to use available suppression resources.



The ability to sizeup an entire incident and match resources with tasks efficiently is only learned through experience from lots of fire scenarios.

This is the job of the Incident Commander.

Sizeup is like triage for fires. The Incident Commander has to recognize what parts of the fire are beyond control, what needs immediate actions, and what parts if left untreated could pose future problems.

Sources: NWCG Glossary, Pyne et al (1996), USFS / wildlandfire.lessons.net

### REM 244: Dispatch and Sizeup

Prior to employing tactics on a wildland fire incident you must first respond to dispatch and then sizeup and report conditions.



Important dispatch information includes:

- Type of Fire
- Fire Location
- Access / Travel Routes
- What Resources have already been dispatched
- Any special hazards, chemicals, etc.

Take the shortest and safest route to

Sources: NWCG Glossary, Pyne et al (1996), TEIE (2005)

### REM 244: Dispatch and Sizeup

Prior to employing tactics on a wildland fire incident you must first respond to dispatch and then sizeup and report conditions.



Before you arrive on a fire:

- 1. Remember LCES and 10 &18
- What is the weather <u>now</u> and what is the forecast? What is the wind direction and speed? What is the RH?
- What are the fuels and topography conditions?
   What highly valued resources exist?
- (houses, cultural resources, habitats)
- 5. Are there natural or existing barriers?
- 6. Are there any safety hazards?
  7. What is the smoke column doing?
  What's its size, height, color, direction, shape, etc.

Sources: NWCG Glossary, Pyne et al (1996), TEIE (2005)

### REM 244: Dispatch and Sizeup Observing the smoke column can provide useful insight into the fire behavior before you arrive at the fire.

### REM 244: Dispatch and Sizeup

Observing the smoke column can provide useful insight into the fire behavior before you arrive at the fire.



Smoke is getting wider at the base. It is mostly white, but is turning brown / black on downward side.

This may suggest fire spreading to heavier fuels. Senesced brush will burn brown and brush with oils will burn black.

Sources: NWCG Glossary, Pyne et al (1996), TEIE (2005), NPS.gov

### REM 244: Dispatch and Sizeup

Observing the smoke column can provide useful insight into the fire behavior before you arrive at the fire.



Smoke column that is going straight up likely means that there is no or little surface

The smoke column is going straight up but it sheared at the top usually means there are winds aloft, which may be hazardous if they drop down.

Sources: NWCG Glossary, Pyne et al (1996), TEIE (2005), NPS.gov

# Deserving the smoke column can provide useful insight into the fire behavior before you arrive at the fire. Smoke columns that are bent over the ground are usually wind driven fires with high fuel loadings. Smoke columns that fire to several thousand feet (sometimes topped by small white clouds) occur on large incidents and represent extreme fire behavior. REM 244: Dispatch and Sizeup Once you arrive at the fire, you need to sizeup more information before deciding appropriate suppression tactics. | Page | Page

Sources: NWCG Glossary, Pyne et al (1996), TEIE (2005), NPS.gov