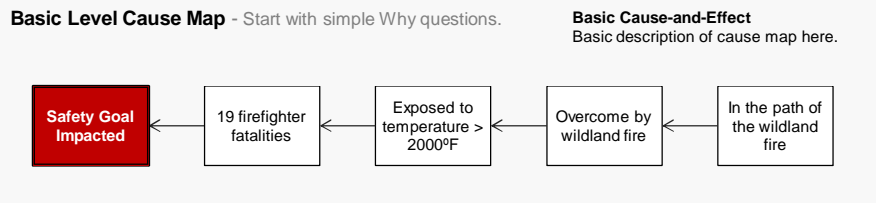


1 Problem

What	Problem(s)	Wildfire; 19 firefighters killed; excessive, dry brush
When	Date	June 30, 2013
	Time	NA
	Different, unusual, unique	Yarnell Hill had not burned in 45 years (above average cured grass loading), severe drought conditions
Where	Facility, site	Yarnell Hill, Central Arizona
	Task being performed	Responding to wildfire
Impact to the Goals		
	Safety	19 firefighter fatalities
	Frequency	First Yarnell Hill fire in 45 yrs; highest wildland fire deaths since 1933; 37 active fires statewide at the same time period

2 Analysis



More Detailed Cause Map - Add detail as information becomes available.



3 Solutions

No.	Action Item	Cause
1	Review strategic plan for reducing hazardous fuel sources (brush) - especially in drought conditions	Heavy, dry brush
2	Consider allowing independent means of getting weather updates	Updates provided through FBAN
3	Consider use of GPS technology to allow for accurate/expedient location of crews in danger	Unaware of exact location of crew

For a free copy of our Root Cause Analysis Template in Microsoft Excel, used to create this page, visit our web site.



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YARNELL HILL FIRE

Cause Map

19 Firefighter Fatalities

While responding to a wildland fire started by a lightning strike, 19 firefighters were killed. The intensity of the fire grew significantly and changed directions, due to approaching thunderstorms and associated winds. With the heavy, dry brush, due to severe drought conditions, the fire spread rapidly. The firefighters were attempting to

"The risk and exposure of the wildland fire ground is well documented, however, there will ALWAYS be necessary decision space at the battlefield-fire line level." -Incident Commander Roy Hall

Cause Mapping is a Root Cause Analysis method that captures basic cause-and-effect relationships supported with evidence.

CAUSE MAPPING

Problem Solving • Incident Investigation • Root Cause Analysis

- Step 1 Problem** - What's the Problem?
- Step 2 Analysis** - Why did it happen?
- Step 3 Solutions** - What will be done?

