

1 Problem

What	Problem(s)	C-130 crash, crewmembers killed
When	Date	July 1, 2012
	Time	8:30 PM
	Different, unusual, unique	Massive wildfires
Where	State, city	South Dakota
	Equipment	C-130H3
	Task being performed	Firefighting mission
Impact to the Goals	Safety	4 crew members killed (crew of 6)
	Environmental	Reduced ability to fight wildfires
	Customer Service	
	Production-Schedule	Other C-130s grounded for 2 days
	Property, Equip, Mtls	Damage to plane
	Labor, Time	Increased work for firefighters
	Frequency	~1.5 crashes per year involving large planes on firefighting missions; wing has excellent safety record

C-130 CRASH

Loss of firefighting plane affects firefighting efforts

After the fatal crash of a C-130 helping to fight wildfires in the Rocky Mountain region led to the Air Force grounding other C-130s, decreasing the ability to fight these fires, which have been plaguing the area for weeks.

"The Air Force decision to remove these aircraft from operation will force firefighting authorities to adjust."

- Jennifer Jones, National Interagency Fire Center spokeswoman

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

CAUSE MAPPING

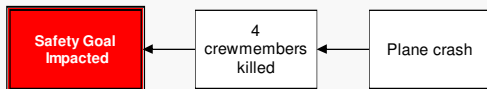
Problem Solving • Incident Investigation • Root Cause Analysis

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

2 Analysis

Basic Level Cause Map - Start with simple Why questions.

Basic Cause-and-Effect

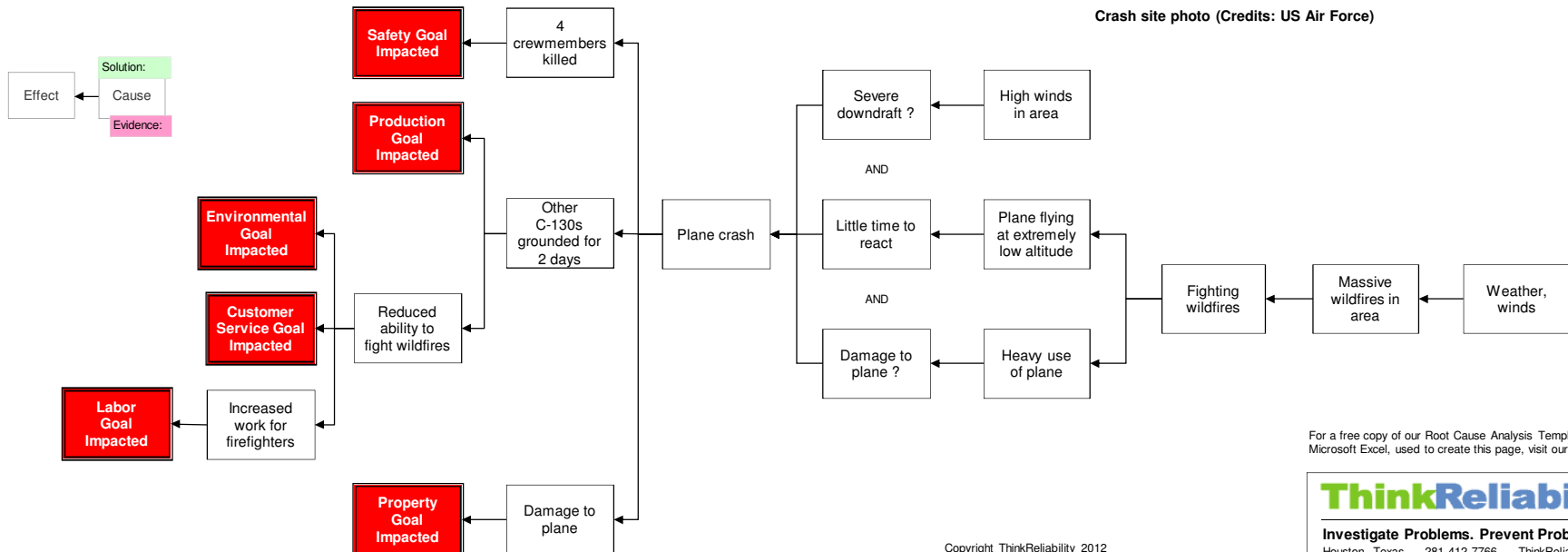


Four crewmembers were killed when their C-130 plane crashed during a firefighting mission. The other two crewmembers were hospitalized but survived.



Crash site photo (Credits: US Air Force)

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



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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