



California Fire Interagency Coordination and Cooperation

Kim Zagaris, State Fire and Rescue Chief,
California Office of Emergency Services

Lightning Talk Presentation



ESRI National Security and Public Safety Summit

**California Fire Interagency
Coordination and Cooperation**

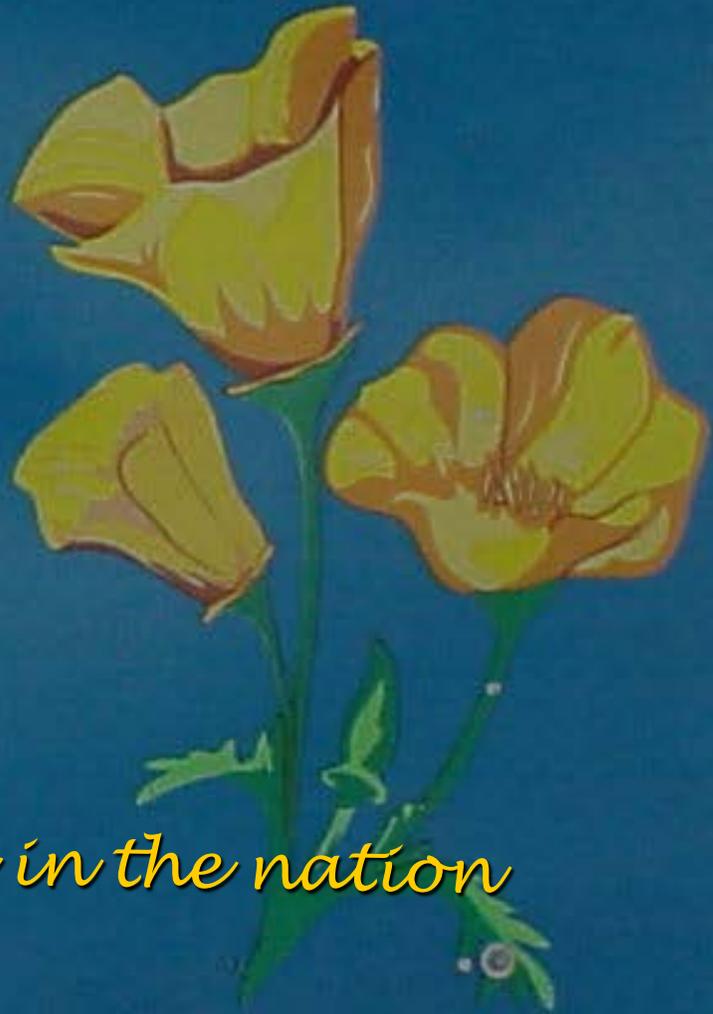


**Governor's Office of Emergency Services
Kim Zagaris – State Fire and Rescue Chief**



IT'S
SHOWTIME!

*Welcome to
California*



The most disaster prone state in the nation



How do California Fire Agencies work together on a day to day operations to catastrophic events on an interagency basis sharing critical data and information for both firefighter to the public



CAL OES FIRE AND RESCUE SERVICE ADVISORY COMMITTEE/ FIRESCOPE BOARD OF DIRECTORS

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Governor's Office of Emergency
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California Department of Forestry
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DENNIS MATHISEN, State Fire Marshal
California State Fire Marshal Office
State Board of Fire Services

STEVE KOVACS
Murphy's Fire Protection District
Volunteer Fire Departments Statewide

JEFF MESTON, Chief
South Lake Tahoe City Fire Department
City – North

MARK HARTWIG, Chief
San Bernardino County Fire Protection District
Fire District - South

RICH WEBB, Chief
Linda Fire Protection District
Fire Districts – North

BRIAN FENNESSY, Chief
San Diego Fire-Rescue Department
City - South

MIKE ESPARZA, Southern Director
California State Fire Fighters Association

LOU PAULSON, President
California Professional Fire Fighters

CHRIS SCHOW, Acting Director
Aviation and Fire Management – USFS
FIRESCOPE

SAM MAROUK, State Fire Management Officer
Bureau of Land Management

MATTHEW JOHNSON, Fire Management Officer,
National Park Service, Pacific West Region



1943 - Governor Olson assigns disaster coordination of fire defenses to the State Attorney General, who then appoints representatives from the California Fire Service to act as an Advisory Committee

Cal OES Role is to Manage the California Fire & Rescue Mutual Aid System





FIRESCOPE



1970 Fire Siege

16 lives lost

772 structures lost

500,000+ acres





FIRESCOPE



1975

At the inception of the FIRESCOPE program the original partner agencies developed 5 initial statements.

- Coordinate Multi-Agency Resources during major incidents
- Develop improved methods for forecasting fire behavior
- Develop standard terminology
- Provide multi-agency communications
- Provide multi-agency training

These 5 items were later into consolidated into two major components:

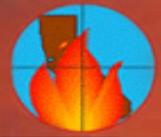
Incident Command System **ICS** and the Multi-Agency Coordination System **MACS**



CWCG

CALIFORNIA WILDFIRE COORDINATING GROUP

- BUREAU OF INDIAN AFFAIRS
- BUREAU OF LAND MANAGEMENT
- CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
- CALIFORNIA GOVERNOR'S OFFICE of EMERGENCY SERVICES
- CONTRACT COUNTIES
- NATIONAL PARK SERVICE
- US FOREST SERVICE
- US FISH & WILDLIFE SERVICE



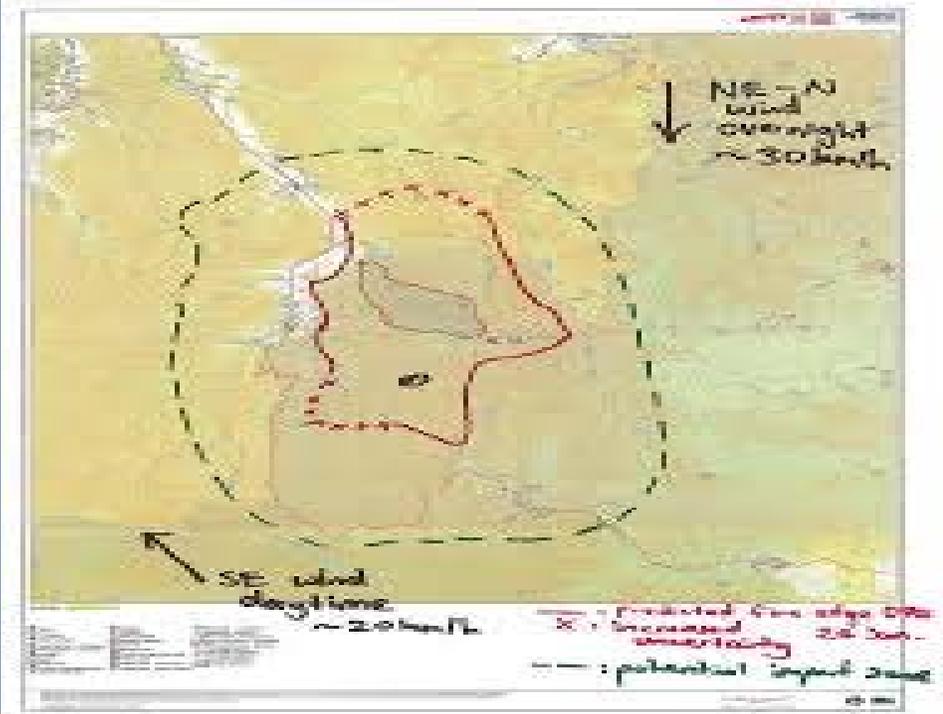
FIRESCOPE



Southern California Coordination Center &
Northern California Coordination Center

<https://gacc.nifc.gov/oscc/>
<https://gacc.nifc.gov/oncc/>





Geographic Area PL = 3
National PL = 3
MACS Mode = 2



Incident Information

Inciweb

CAL FIRE Incident Information

Predictive Services

Intelligence

Weather

Fuels/Fire Danger

Outlooks

LOGISTICS/ DISPATCH

Aviation

Crews

Equipment / Supplies

Overhead

Detailers Guide

2018 CA Mob Guide

Administrative

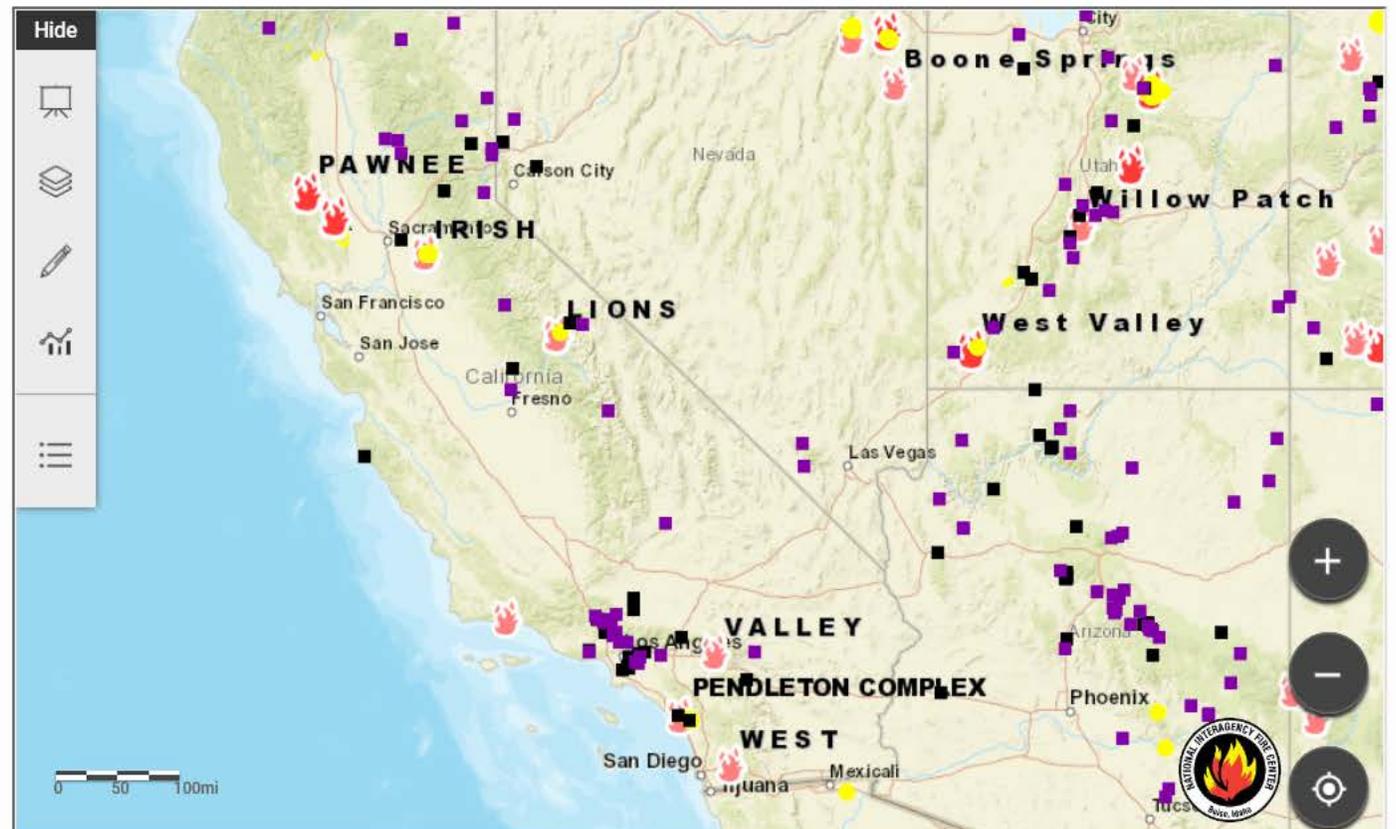
California Wildfire Coordination Group

Policy and Reports

Incident Business Management

Welcome to the Southern California Geographic Area Coordination Center

OSCC Fire Activity



Incident Information

CURRENT FIRE INFORMATION

This is the complete list of 2018 major incidents that have been posted to this site. You can see the location of Major Incidents on the [Google Statewide Fire Map](#).

Search

1 2 3 4 5 6 7 8 9 10 ... » »»

Sort by: [Default](#) | [Name](#) | [County](#)**County Fire:** [more info...](#)

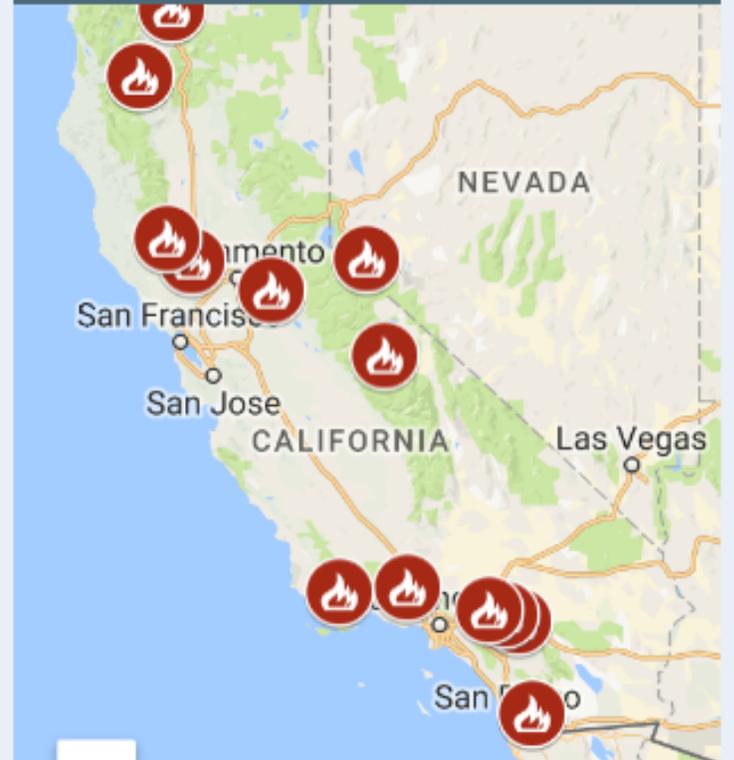
Updated: July 07, 2018 8:53 pm

County: Napa County, Yolo County**Location:** east of Lake Berryessa

California Statewide Maps



2018 Stat...





KERN COUNTY FIRE DEPARTMENT

[KCFD](#)[ABOUT US](#) ▾[OPERATIONS](#) ▾[FIRE PREVENTION](#) ▾[EDUCATION](#) ▾[NEWS](#) ▾[HAZARD REDUCTION](#) ▾

You are here: [Home](#) ▶ [News](#) ▶ Latest Incidents

10 ▾

Title

Hits

[Boat Launch Incident](#)

Hits: 118

[Ridgecrest Incident](#)

Hits: 134

[Pioneer Incident](#)

Hits: 106

[2nd Street Incident](#)

Hits: 68

[99 and 166 Highway Incident](#)

Hits: 248

[Santa Rosa Incident](#)

Hits: 272

[General Beale Incident](#)

Hits: 242

[Herring Incident](#)

Hits: 187

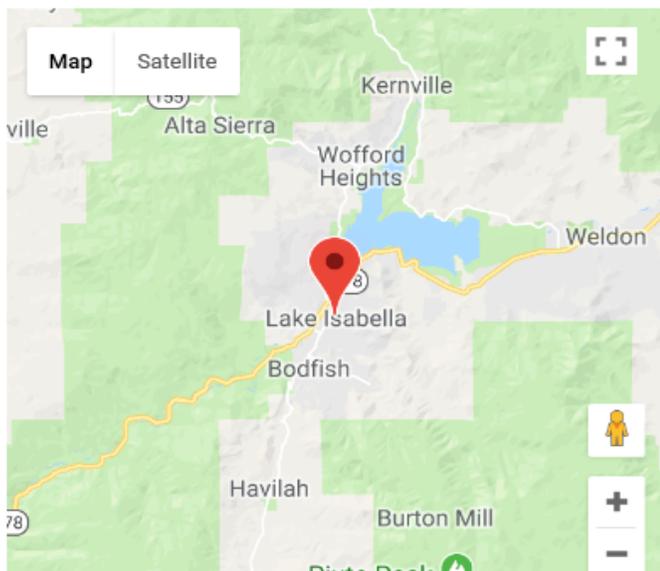
[Mesa Incident](#)

Hits: 364

[Meyer Incident](#)

Hits: 427

Boat Launch Incident



Incident Name:	Boat Launch Incident
Incident Time:	8:50:00 a.m.
Incident Date:	7-3-2018
Incident Type:	Structure Fire
Equipment Assigned:	Engines 72, 71, 76; Patrol 79; Battalions 7
Cause:	Under Investigation
Injuries:	1
Structure Value Lost:	Unknown
Total Personnel:	13

Lake Isabella, CA

At approximately 9:00 am today, the Kern County Fire Department received calls for a camper fire at a boat launch on Lake Isabella. The first arriving unit encountered a 15 foot RV type camper fully involved in fire. Winds in the area were gusting and threatening nearby Wildland areas. Crews aggressively attacked the fire keeping it contained to the trailer and away from the wildland area. The trailer was a total loss. No other property was damaged.

One adult was inside and was able to evacuate before the fire department arrived. The adult male complained of smoke inhalation, but was treated at the scene. He refused transport by ambulance. No fire personnel were injured.

The cause is unknown at this time and any further investigations will be handled by the Forest Service.

The Kern County Fire Department would like to remind everyone that fire season has started and extra fire cautions should be taken when recreating in fire prone areas

**National Interagency Coordination Center
Incident Management Situation Report
Saturday, July 7, 2018 – 0530 MT
National Preparedness Level 3**

National Fire Activity

Initial Attack Activity:	Light (170) new fires
New large incidents:	2
Large fires contained:	3
Uncontained large fires:**	34
Area Command teams committed:	0
NIMOs committed:	1
Type 1 IMTs committed:	5
Type 2 IMTs committed:	7

Nationally, there are 23 large fires being managed under a strategy other than full suppression.

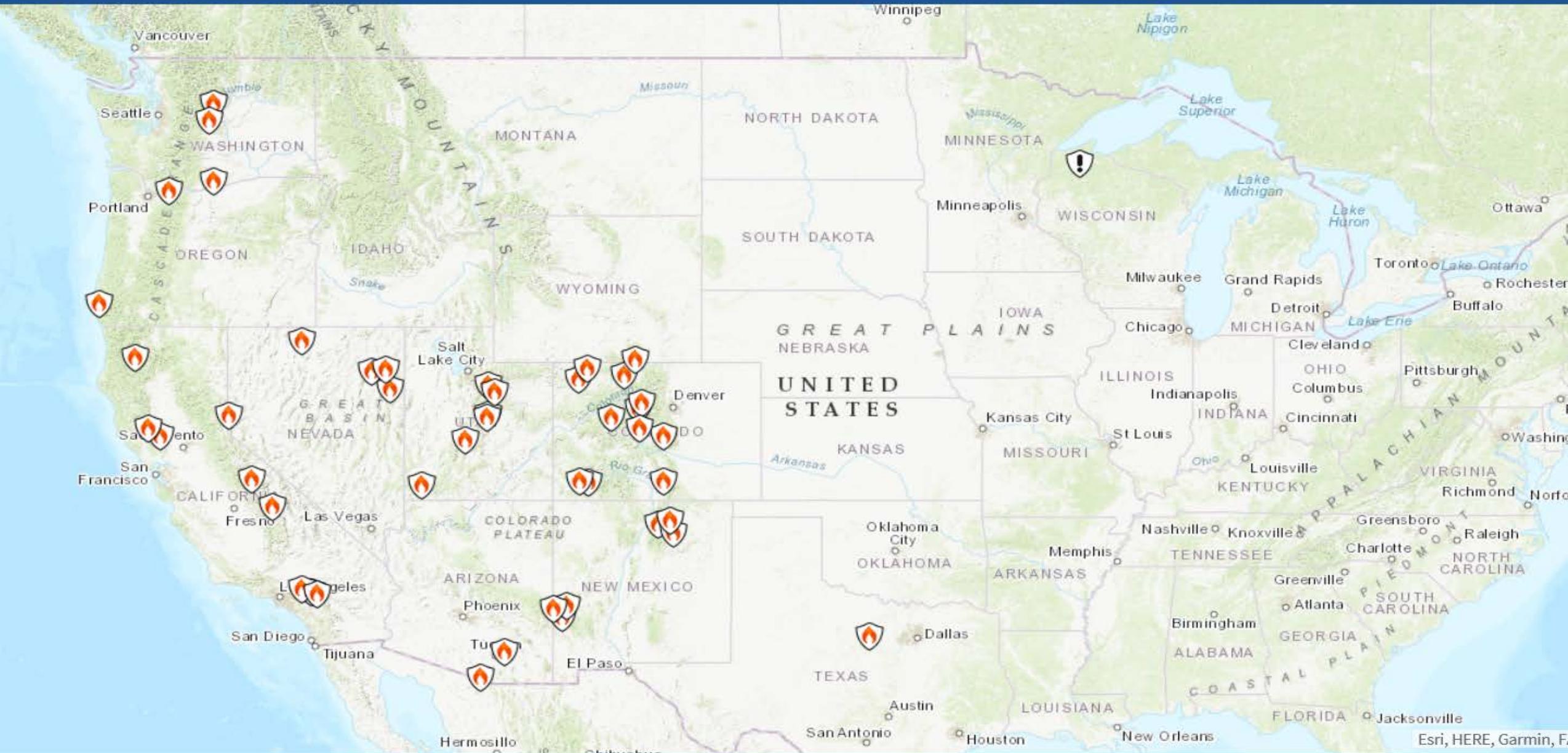
**Uncontained large fires include only fires being managed under a full suppression strategy.

[Link](#) to Geographic Area daily reports.

Two MAFFS C-130 airtankers and support personnel from the 302nd Airlift Wing (Colorado Springs, Air Force Reserve) along with one MAFFS C-130 airtanker and support personnel each from the 153rd Airlift Wing (Wyoming, Air National Guard) and 152nd Airlift Wing (Nevada, Air National Guard) have been deployed to Colorado Springs, CO in support of wildland fire operations.

Active Incident Resource Summary

GACC	Incidents	Cumulative Acres	Crews	Engines	Helicopters	Total Personnel
AICC	2	2,853	5	0	0	120



Esri, HERE, Garmin, F

KILAUEA VOLCANIC ERUPTIONS & EARTHQUAKES



CURRENT SITUATION:

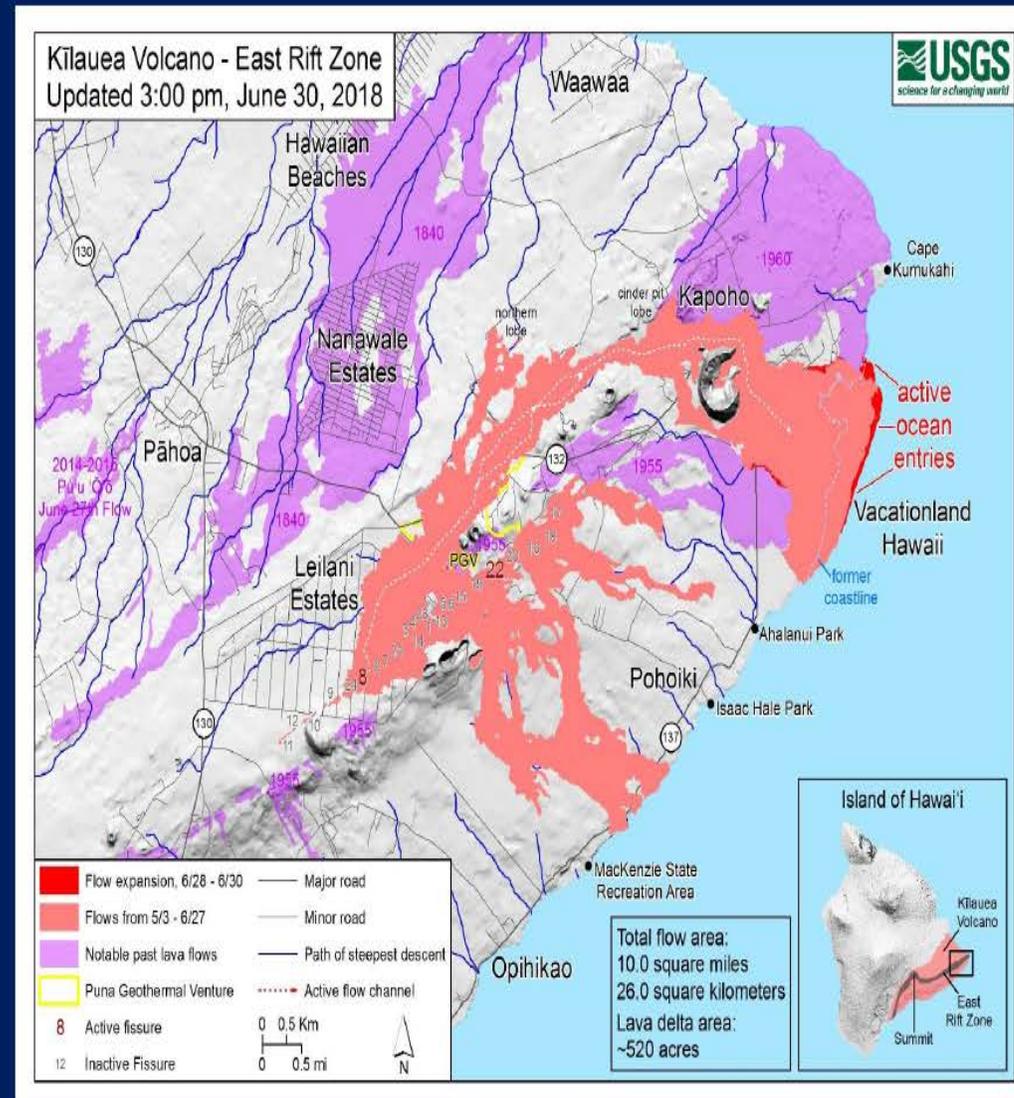
- 24 fissures, 6,336 acres covered by lava
- Destroyed: 661 homes, 192 primary residences
- Fissure 8 continues to be very active and is feeding a lava channel to the ocean at Kapoho.
- 473 structures (including homes) are isolated due to a number of roads being cut off by lava.

IMPACT:

- **Injuries/Fatalities:** 4 injuries/0 fatalities
- **Evacuations:** Approx. 2,800
- **Shelters:** 4 open with population of 262
- **Utilities:**
 - 935 customers in Leilani Estates and Lanipuna gardens are without power.
 - 765 utility poles and 208 transformers have been damaged or broken.
 - Pohiki switching station was overrun with lava.
 - Kapoho substation has been de-energized.

RESPONSE ACTIVITIES:

- FEMA-4366-DR declared May 11, 2018
 - IA Declared June 14, 2018
- FEMA:
 - RIX IMAT-1 deployed
- State of Hawaii: Partial Activation
- Hawaii County: Full Activation
- Bothell MERS deployed to the Big Island
- Disaster Recovery Center opened: June 15, 2018



FEMA REGION IX WEEKLY OUTLOOK



DAY/THREAT	MON	TUE	WED	THU	FRI	SAT	SUN
Fire Weather	NW Nevada	S Nevada	W Nevada/ Northern Sierra	S Nevada/ Arizona	S Nevada/ N California	N California	N California
Flash Flooding							
River Flooding							
Severe T-storms							
Heat Impacts	SW Deserts/ Great Basin	SW Deserts/ Great Basin	SW Deserts/ Great Basin	SW Deserts/ Great Basin	SW Deserts/ Great Basin	N California	N California
Tropical Impacts							

	High Threat
	Moderate Threat
	Slight Threat
	No Discernible Threat





Cal OES
GOVERNOR'S OFFICE
OF EMERGENCY SERVICES



EMV
EMERGENCY
MANAGEMENT
VICTORIA

MEMORANDUM OF UNDERSTANDING

SIGNING CEREMONY

JULY 6, 2011



ACTIVE ACRES BURNING

111,678

ACTIVE FIRES

5

NEW FIRES

3

TOTAL ENGINES

425

250

OES & LOCAL

100

CAL FIRE

2

NATIONAL GUARD

48

FEDERAL

25

OUT OF STATE

TOTAL PERSONNEL

5,163

1,182

OES & LOCAL

1,603

CAL FIRE

9

NATIONAL GUARD

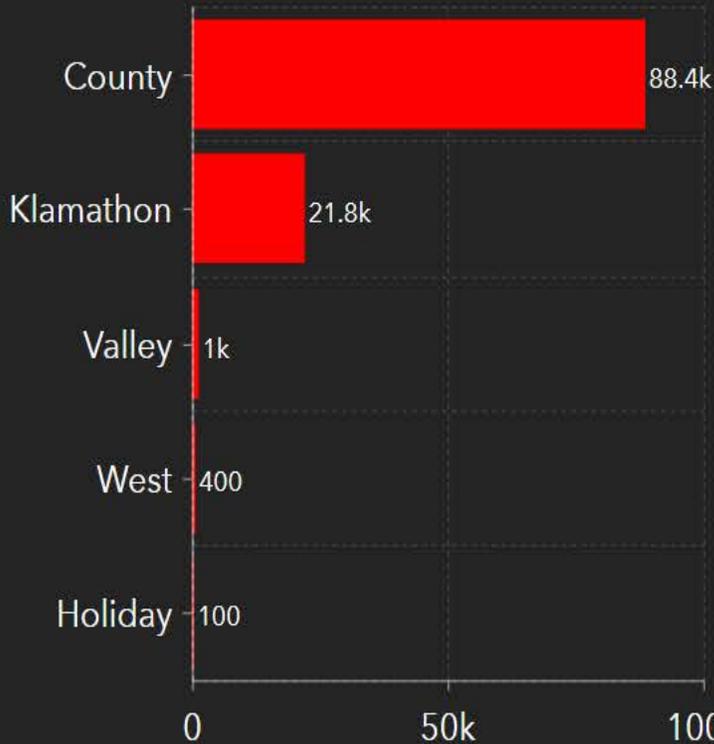
1,120

FEDERAL

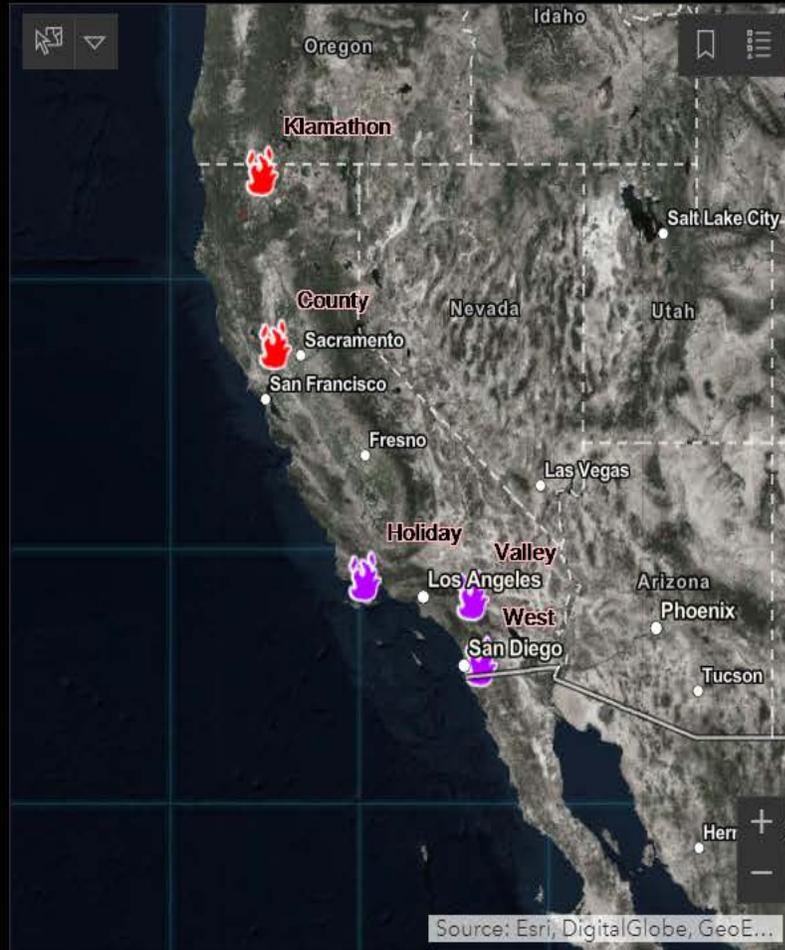
1,249

OUT OF STATE

ACREAGE BURNING SUMMARY



Last update: a few seconds ago



Fire Points



Active Fire

STATE OPERATIONS CENTER WILDFIRES



MISSION RESOURCE TASKING DASHBOARD

ACTION REQUIRED

0

COORDINATING

3

EN ROUTE

0

ON SCENE

0

CLOSED

0

Last update: a few seconds ago



CalEOC Missions

- Event: 2018 July Statewide Wildfires
Date: 7/7/2018, 10:40 AM
Location: 3650 Schriever Ave
Description: State Agency Reps in the SOC

Event: 2018 July Statewide Wildfires

CalEOC EMAC EMMA FEMA

EMAC

0

FEMA

0

CalEOC Mission Resource

- Action Required
- Coordinating
- Enroute
- On Scene

EMAC Mission Resource Request



FEMA Mission Resource Request

- Active Statewide Wildfires
- County**
- Creek
- Flat
- Pawnee



Fire Situation Awareness

METRIC INFORMATION IS BASED ON DATA LAYERS IN MAP EXTENT

Acres Burned

ACRES BURNED

70,000

Total Personnel

PERSONNEL

2,162

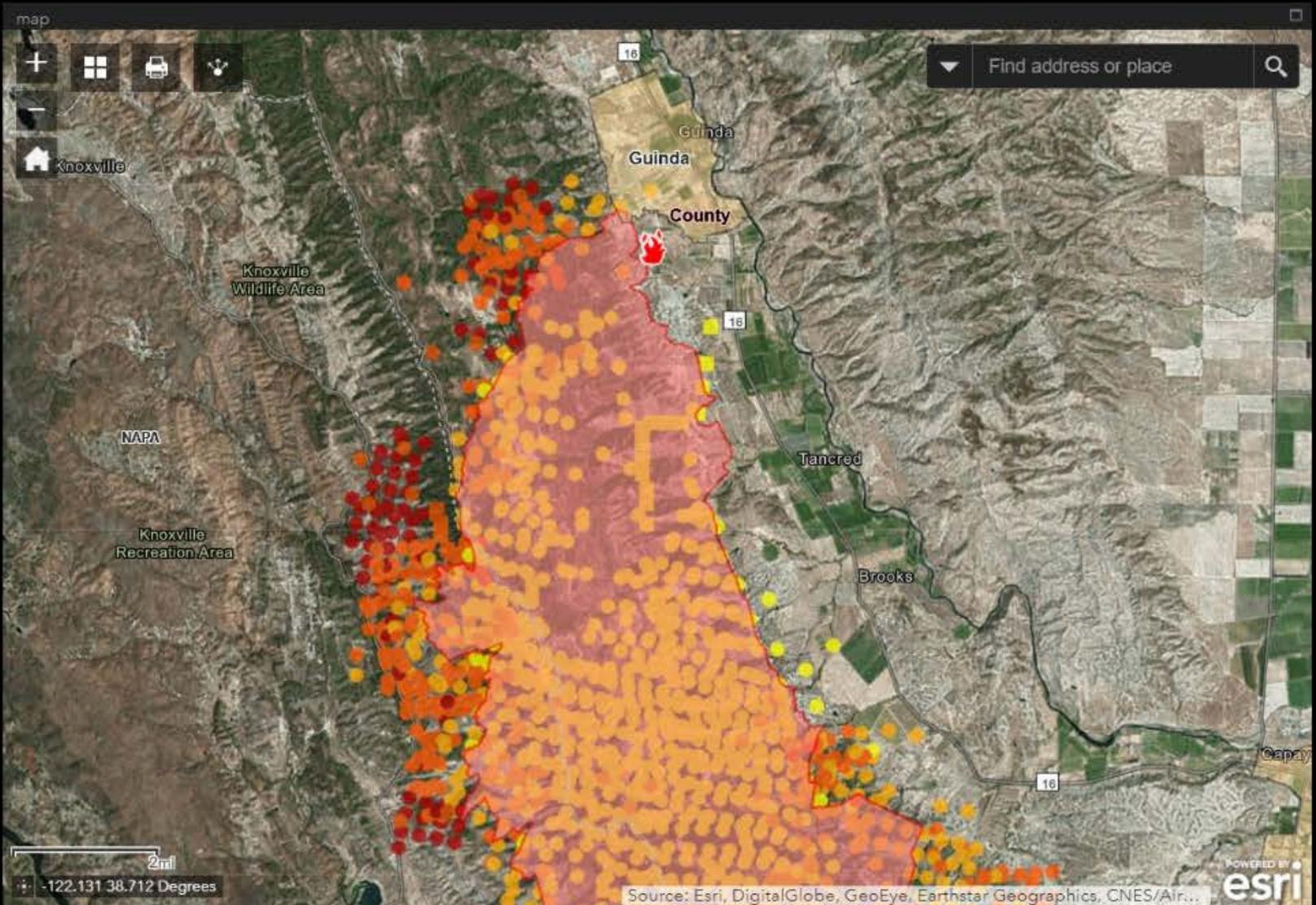
Total Engines

ENGINES

177

Percent Contained

CONTAINMENT %



Legend Layer List

CA Counties

Active Fires

-  Active Fire
-  New Active
-  Recently Contained

USA Census Populated Places

Fire Perimeters

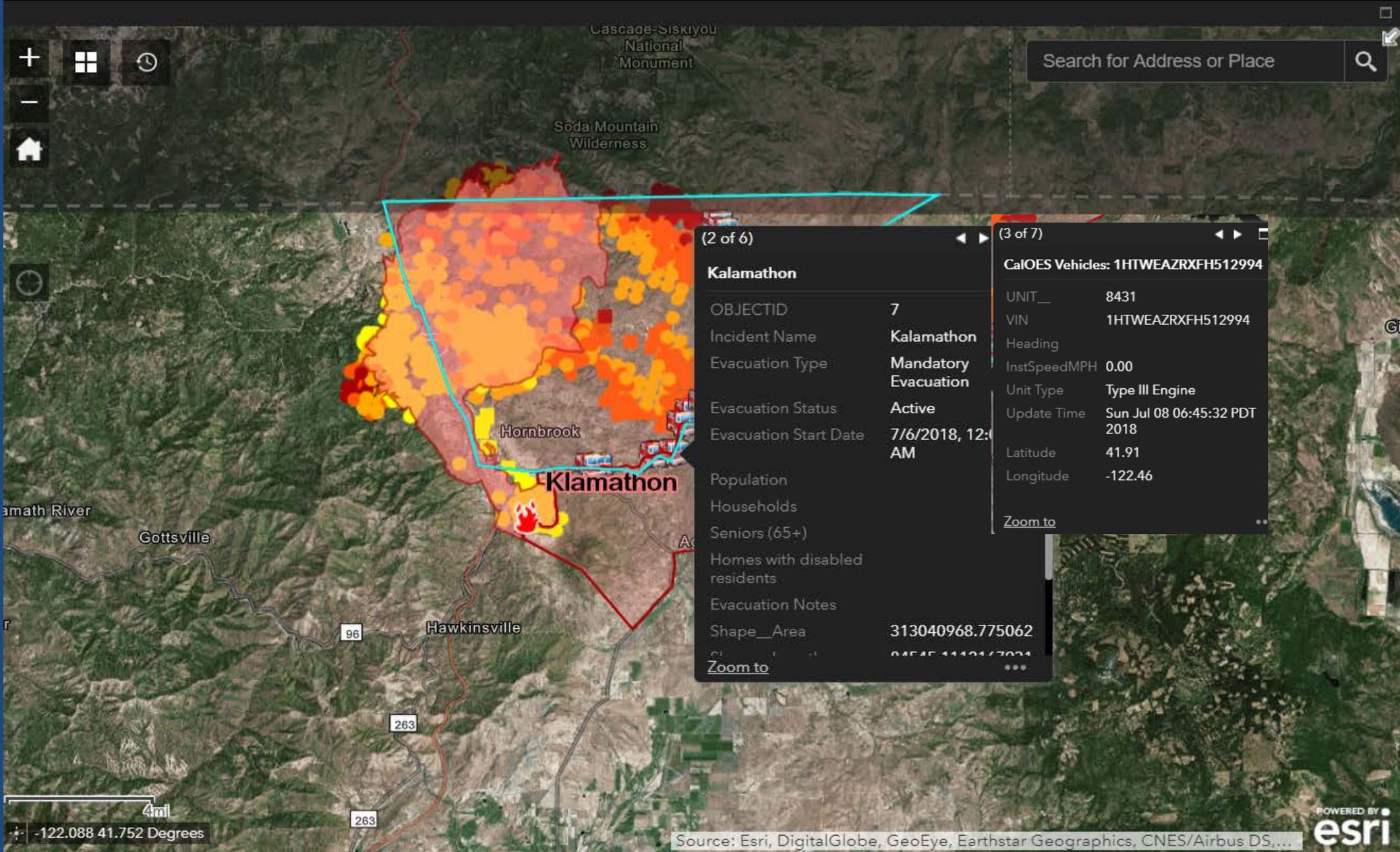
Active



Fire Detection

- MODIS Centroid
 -  0 to 6 hours
 -  6 to 12 hours
 -  12 to 24 hours
 -  24 to 48 hours
 -  over 48 hours





Legend Bookmark

CaIOES Fire Points

- Active Fire
- Inactive Fire
- New Active
- Recently Contained
- Resource Benefit

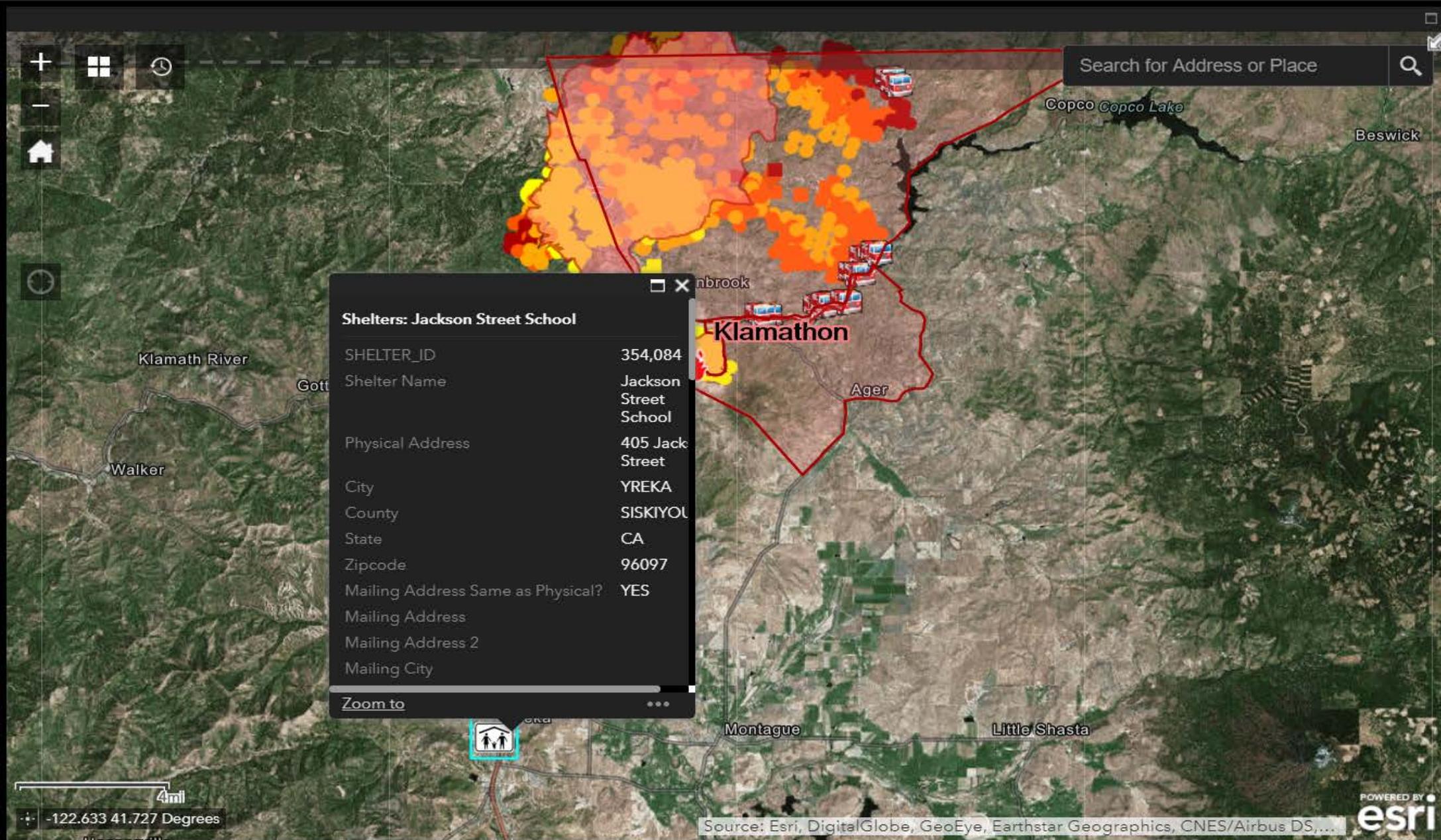
Active Shelters

-

Incident Location

Incident Layers Support Layers

- Active Evacuation Areas
- Active Fire Perimeters
- Impacted Counties
- USA States Mask
- World Countries Mask
- Vehicle_Current_Location_Scout
- Fire Detection
- Current wind speed & direction



Legend Bookmark

CalOES Fire Points

-  Active Fire
-  Inactive Fire
-  New Active
-  Recently Contained
-  Resource Benefit

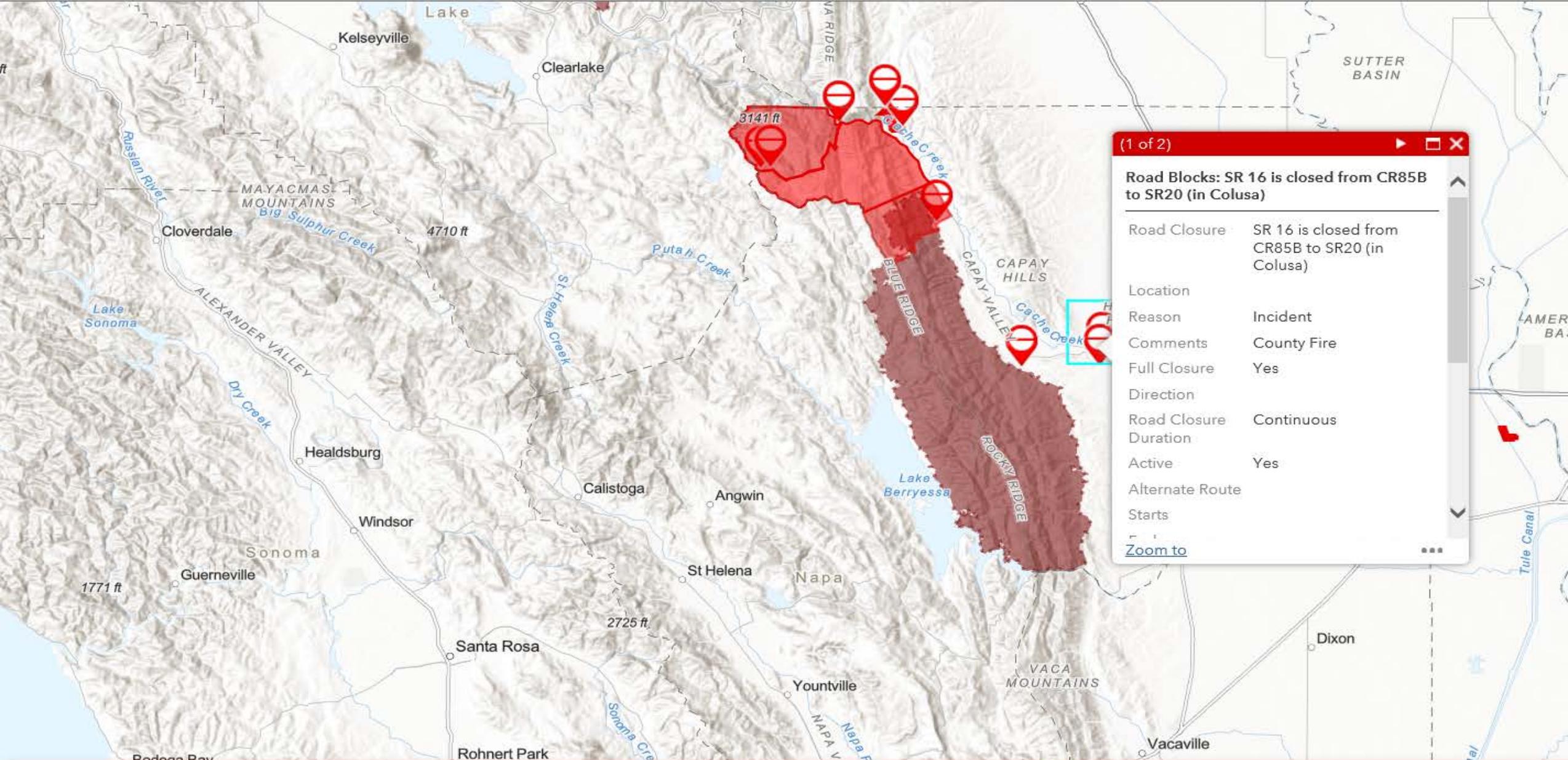
Active Shelters



Incident Location

Incident Layers Support

- Locations of Concern
- Active Shelters
- Incident Location
- Incident Location
- Points of Concern
- Points of Interest
- Points of Interest
- Areas of Interest



(1 of 2) ▶ □ ✕

Road Blocks: SR 16 is closed from CR85B to SR20 (in Colusa)

Road Closure	SR 16 is closed from CR85B to SR20 (in Colusa)
Location	
Reason	Incident
Comments	County Fire
Full Closure	Yes
Direction	
Road Closure	Continuous
Duration	
Active	Yes
Alternate Route	
Starts	

[Zoom to](#) ⋮

Household Hazardous Waste / Debris Removal Status

HHW Removal Status

Left to Assess

0

In Progress

0

Removed

7,328

Total Parcels With Impacted Structures

7,328

Debris Removal Status

ROE Obtained

5,262

In Progress

3,837

Removed

1,955

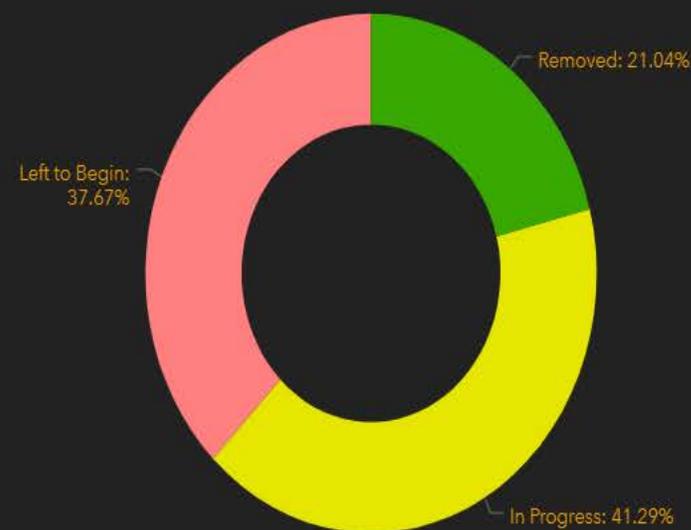
HHW Removal Status



Removed: 100.00%



Debris Removal Status



Sonoma County
(5,744 Parcels)

Napa County
(818 Parcels)

Mendocino County
(328 Parcels)

Lake County
(143 Parcels)

Butte County
(58 Parcels)

Yuba County
(198 Parcels)

Nevada County
(39 Parcels)

HHW Cleared

5,744

US EPA

Debris Removed

1,245

US Army Corps

HHW Cleared

818

US EPA

Debris Removed

259

US Army Corps

HHW Cleared

328

CA DTSC

Debris Removed

134

US Army Corps

HHW Cleared

143

CA DTSC

Debris Removed

87

US Army Corps

HHW Cleared

58

CA DTSC

Debris Removed

34

Cal Recycle

HHW Cleared

198

CA DTSC

Debris Removed

161

Cal Recycle

HHW Cleared

39

CA DTSC

Debris Removed

35

Cal Recycle

7/13/17

California Fire and Rescue Mutual Aid Summit

- Cal OES Fire and Rescue Advisory Committee/ FIRESCOPE Board of Directors
- 6 Cal OES Fire and Rescue Regional Fire and Rescue Coordinators
- 65 Cal OES Fire and Rescue Operational Area Fire and Rescue Coordinators
- California Metro Chiefs,
- California Fire Chiefs
- California Fire Districts
- California League of Cities Fire Chiefs
- California Professional Firefighters
- California State Firefighters
- ❑ The State of California Fire and Rescue Mutual Aid System - Past, Present and Future (1950 and beyond?)
- ❑ Dispatch Program Needs to be All Risk – currently looking to replace ROSS with IAFC Mutual Aid Net
- ❑ California Fire Assistance Agreement (CFAA) – Where do we go?
- ❑ Cal OES Fire and Rescue Fleet



California Fire Engines by Agencies

Local Government	5,928
OES	154
CAL FIRE	343
CDCR	74
USFS	234
BLM	28
BIA/ Tribal	24
NPS	17
FWS	14
DOD	41

*Approximately number on fire engine in ROSS



California Fire and Rescue Mutual Aid System Unable to Fill Resource Summary

Year	2012	2013	2014	2015	2016	2017
Engine/WT	134	214	403	958	3,029	6,134
Overhead	1,073	1,404	2,315	4,758	4,034	4,867
Total	1,207	1,618	2,718	5,716	7,063	11,001



Communications – Coordination - Collaboration



The most important thing is our relationships





Building the

LEADER

WITHIN

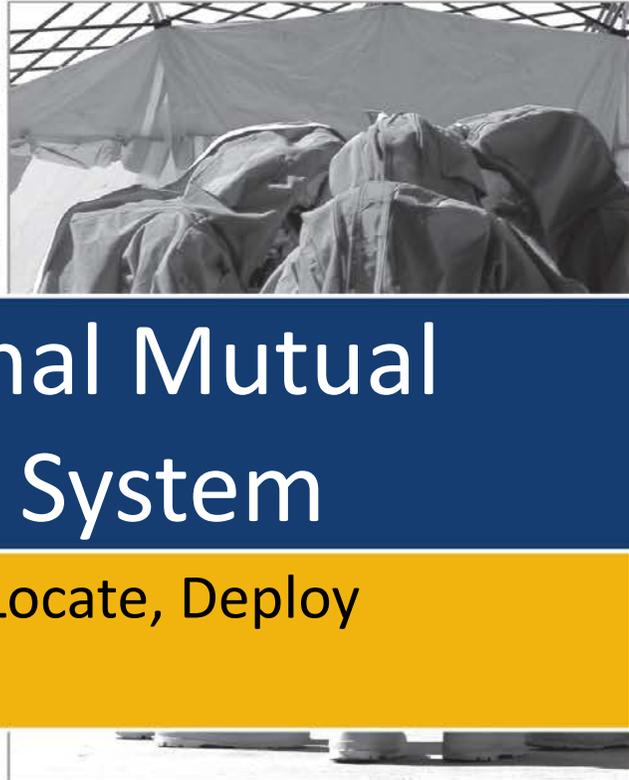
Powering Mutual Aid with Technology 3:05 PM

IAFC National Mutual Aid System – Jeff Dulin



IAFC

International Association of Fire Chiefs



National Mutual Aid System

Request, Locate, Deploy

**Thank You for the opportunity to share
with you today QUESTIONS?**

*Kim Zagaris, State Fire and Rescue Chief
Governor's Office of Emergency Services
Office (916) 845-8711 kim.zagaris@caloes.ca.gov*

