



Wildland Fire Behavior



The LAVA Fire - Siskiyou County

JULY 2021

3,200 People Evacuated

25,000 Acres

86

Engines

26

Hand crews

13

Helo

1,273

Firefighters

A firefighting aircraft, likely a B-757, is shown in flight, dropping a large volume of water onto a fire. The aircraft is positioned in the center of the frame, with a thick plume of water falling from its cargo bay. The background is a dense forest of green trees, and the sky is a clear, bright blue. The overall scene depicts an active firefighting operation.

**THE SALT FIRE - SHASTA COUNTY
JULY 2021
700 EVACUATED**

**12,546 ACRES
41 STRUCTURES
DESTROYED
400 + FIREFIGHTERS**

TENNANT FIRE JULY 2021

**10,500 ACRES BURNED
21 HOMES DESTROYED
574 FIREFIGHTERS**



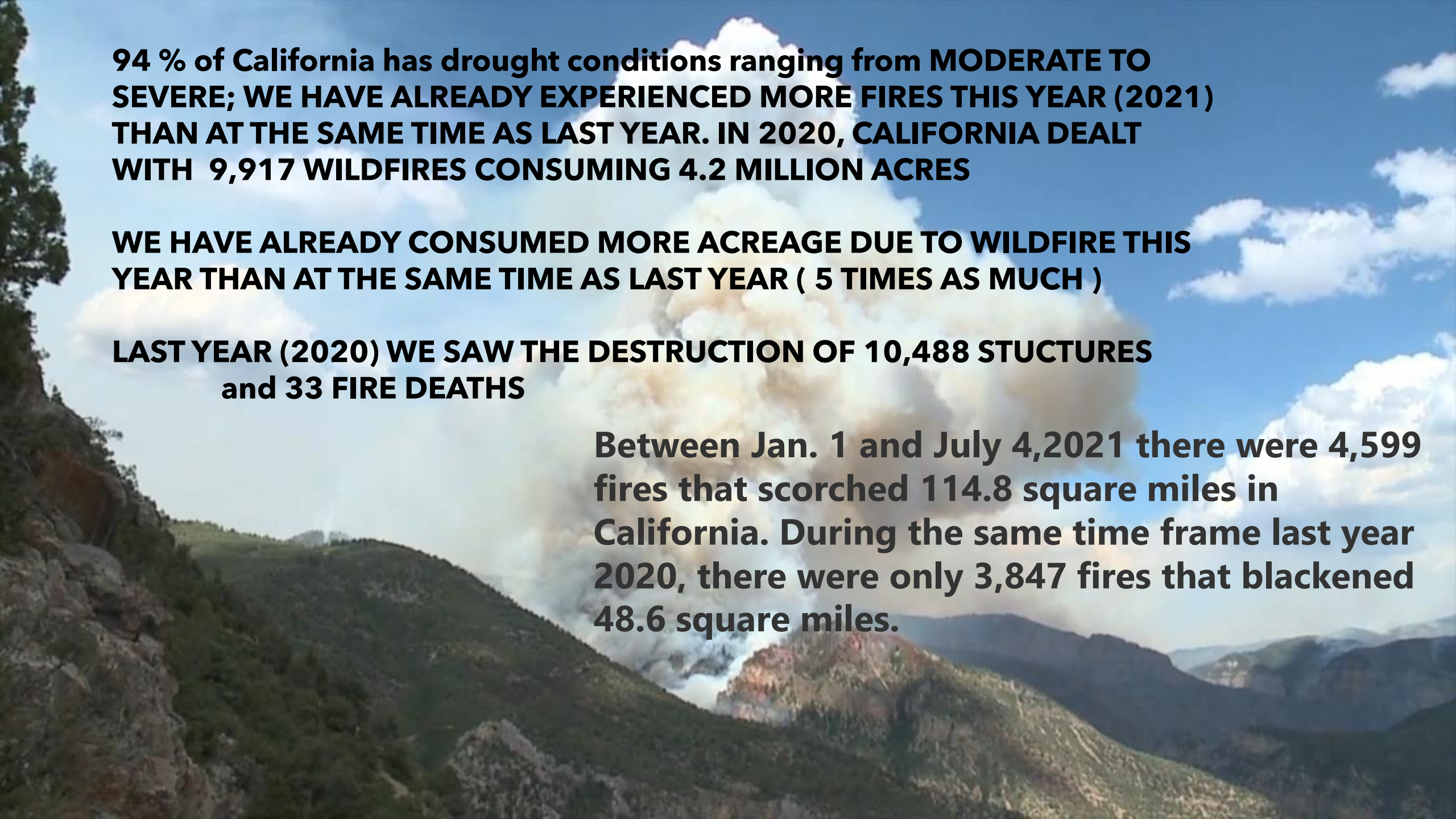
The 3 major components of a vegetation fire

Fuel : The spread of wildfires varies based on the flammable material present and we **usually concentrate on 3 significant fuel types**

Weather : [Heat waves](#), [droughts](#), cyclical [climate](#) regional weather patterns such as high-pressure ridges can increase the risk and alter the behavior of wildfires dramatically, **WIND**

Topography : [surface](#) shape, terrain and features of the [Earth](#), fire races up vertical arrangement





94 % of California has drought conditions ranging from MODERATE TO SEVERE; WE HAVE ALREADY EXPERIENCED MORE FIRES THIS YEAR (2021) THAN AT THE SAME TIME AS LAST YEAR. IN 2020, CALIFORNIA DEALT WITH 9,917 WILDFIRES CONSUMING 4.2 MILLION ACRES

WE HAVE ALREADY CONSUMED MORE ACREAGE DUE TO WILDFIRE THIS YEAR THAN AT THE SAME TIME AS LAST YEAR (5 TIMES AS MUCH)

**LAST YEAR (2020) WE SAW THE DESTRUCTION OF 10,488 STRUCTURES
and 33 FIRE DEATHS**

Between Jan. 1 and July 4, 2021 there were 4,599 fires that scorched 114.8 square miles in California. During the same time frame last year 2020, there were only 3,847 fires that blackened 48.6 square miles.

ALL FIREFIGHTERS IN CALIFORNIA RECEIVE A MINIMUM OF 72 HOURS OF WILDLAND TRAINING AS PART OF RECRUIT TRAINING

ALL FIREFIGHTERS THEN RECEIVE ADDITIONAL ANNUAL WILDFIRE TRAINING EVERY SPRING



CONTRA COSTA COUNTY FIRE DEPARTMENT



The Operations Division
19 Engine companies
5 Truck companies
16 WILDLAND APPARATUS



Safety Officer AND 3 BATTALION CHIEFS
24 fully staffed stations
2 stations staffed with on-call Firefighter
The FIRE companies are trained and cross-staff
18 wildland fire apparatus,
3 rescue units
1 DOZER
2 HELICOPTERS

**Contra Costa County Fire Protection District - Station 3
1520 Rossmoor Pkwy
Walnut Creek, CA 94595**

FIREFIGHTER WILDLAND TRAINING 2021

FIRE OPERATIONS PREPARATION FOR FIRE SEASON

STAFFING LEVELS

ALLIANCES WITH CAL FIRE AND NEIGHBORING DEPTS

**ANY CONTACT INFO : Battalion Kevin Platt
Engineer Ron Cutting**



**General Email: info@cccfd.org
Phone : (925) 941-3300 Fax : (925) 941-3309. In the event of an emergency, PLEASE DIAL 9-1-1 For fire and EMS calls from a cellphone dial 925-933-1313**

Arrange evacuation ahead of time: **Don't wait until the last minute to plan**

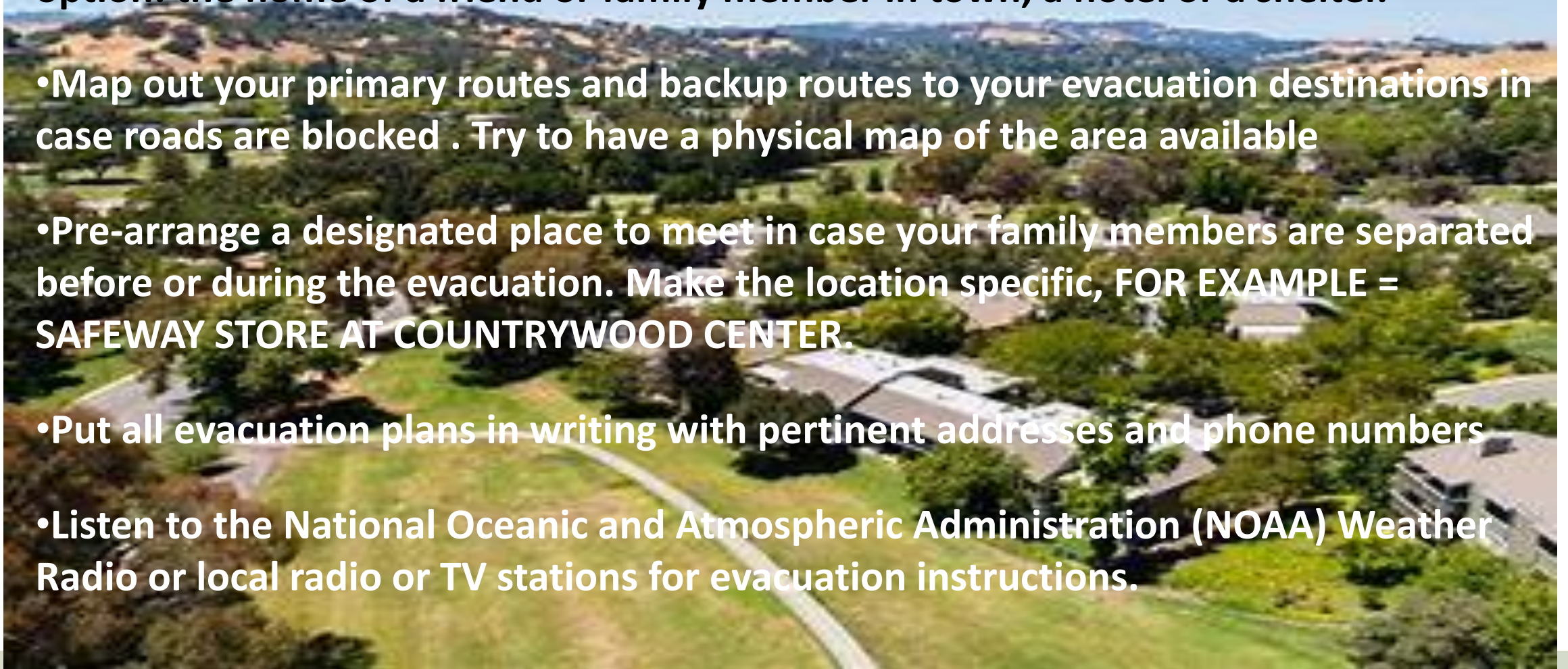
- **Identify where you can go in the event of an evacuation. Try to have more than **one option**: the home of a friend or family member in town, a hotel or a shelter.**

- **Map out your primary routes and backup routes to your evacuation destinations in case roads are blocked . Try to have a physical map of the area available**

- **Pre-arrange a designated place to meet in case your family members are separated before or during the evacuation. Make the location specific, FOR EXAMPLE = SAFEWAY STORE AT COUNTRYWOOD CENTER.**

- **Put all evacuation plans in writing with pertinent addresses and phone numbers**

- **Listen to the National Oceanic and Atmospheric Administration (NOAA) Weather Radio or local radio or TV stations for evacuation instructions.**



Evacuating during a wildfire is a terrifying experience. It's difficult to think accurately and quickly. So, residents should prepare for an evacuation by packing go-bags before a wildfire threat begins. It is recommended that one bag is packed for each family member and each pet

- Medications (7-day supply)
- Medical supplies
- Pet

- Extra sets of car, house and other keys
- Family heirlooms
- Important documents*
deed/lease to the home, bank, IRS, trust, passports, birth certificates, insurance policies
- Inventory of home contents and photographs
- Computer backup files*
- **CELL PHONE AND CHARGER**



- Water
- Food
- Hygiene items
- Clothing

I also encourage you to bring all flammable objects on your front and back porch into garage during all Red Flag Days and Evacuation Warning and Order called by civil authorities. Remember it is recommended to leave all house lights on inside and out and lock all your doors as we leave. If possible close drapes ,shutters or blinds



Los Medanos College Fire Academy Training 500 Hours



Fire 101 = Intro to Firefighting

Fire 102 = Fire Behavior

Fire 103 = Fire Systems

Fire 104 = Building Construction

Fire 105 = Fire Prevention

Fire 106 = Fitness for Firefighters

Fire 107 = Firefighter Safety

Fire 120 = Fire Academy

Ems 10 = Emergency Medical Tech

CPR



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2 BILLION DOLLAR PROPOSAL

***12 NEW FIRE HAWK HELICOPTERS**

***7 NEW C-130 FIRE RETARDANT AIRCRAFT**

***33 MORE HAND CREWS**

***1,399 MORE SEASONAL FIREFIGHTERS**

***CREATE FUEL BREAKS NEAR VULNERABLE COMMUNITIES**





QUESTIONS ???