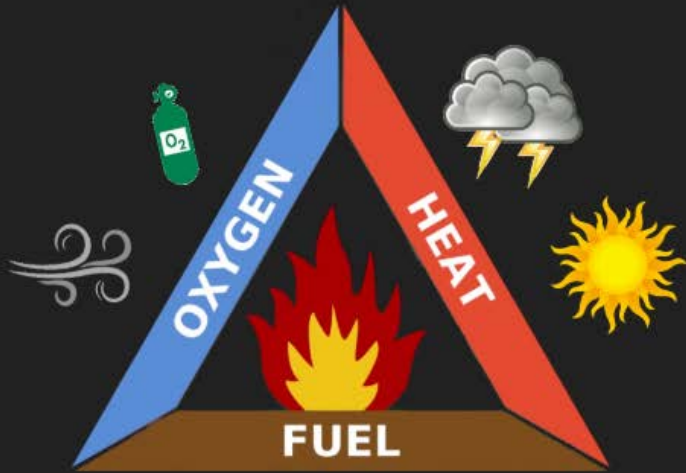


California Wildfire and Climate Change

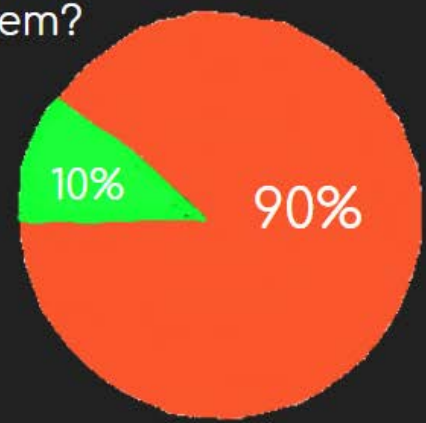


Humans can stop Wildfires by taking away Fuel or Heat



Wildfires make there own WIND

Who Causes Them?



90% Human made
10% Natural causes: Lightning, Sun, and Lava

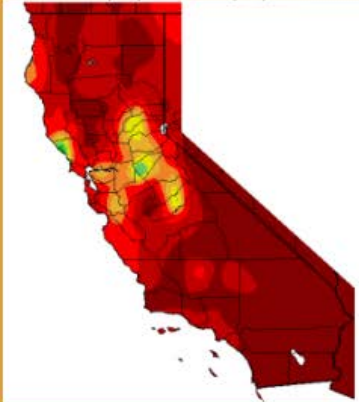
Current Wildfires

As of Nov 26, 2018



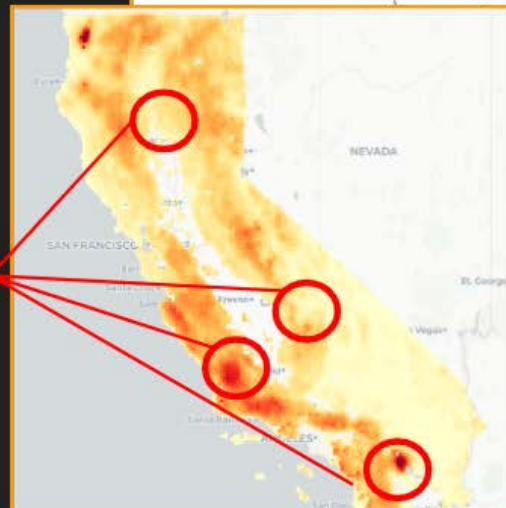
Precipitation Amount: Oct 27 - Nov 26, 2018

Red: 40-50 cm
Orange: 51 - 70 cm
Yellow: 71 - 90 cm
Green: 91 - 110 cm



2018's total DESTRUCTION

- 6453 Homes gone
- 200+ Dead
- 1,435,263 acres gone
- \$2.6 Billion in damages



115°F → 140°F
46.1°C → 60°C



Serotinous cones

- 7 - 10 Year life
- Only lets seeds out at 115F - 140F
- CA Pine trees

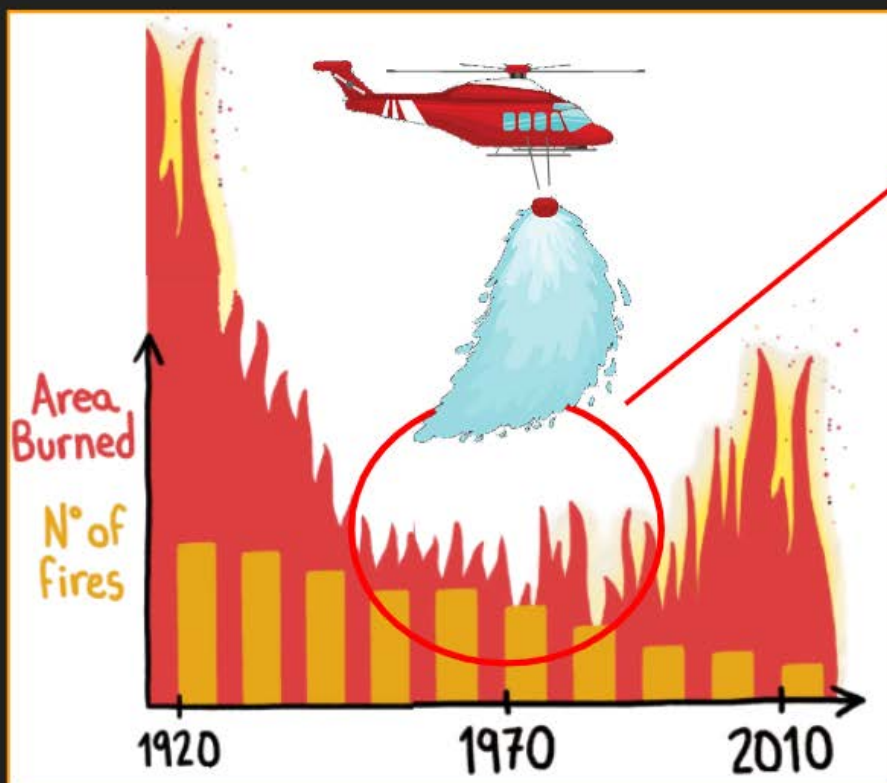


We Need Wildfires

- Wood ash = BEST Fertilizer
 - Absorbs moisture
- Ecosystems need to Renew
 - Can result in deformed trees
- Less Wildfire = Bigger and more destruction



Wildfire Magnitude



- 1970 the U.S. put out Wildfires really fast
 - Greater tree growth
 - Adds fuel to future Wildfire
- 2000 - 2018 Wildfires are lasting longer due to:
 - More trees
 - More Human Structures
 - Annual Increase of 1.9 F

Sun

Upward
Burning
During
the Day



Moon

Downward
Burning
During the
Night

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