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What are the Zones?

- The maps are required by
 Government Code 51178 & 51179
 - Identify levels of fire hazard
 - 3 levels (Moderate, High, & Very High)



How are the Zones determined?

- CAL FIRE used the best available science and data to develop, and field test a model that served as the basis of zone assignments. The model evaluated the probability of the area burning and potential fire behavior in the area.
- Factors: fire history, vegetation, flame length, blowing embers, proximity to wildland, terrain, and weather





New Updates

- CALIFORNIA DEPARTMENT OF TORESTRY & FIRE PROTECTION CALIFORNIA DEPARTMENT OF CALIFORNIA DEPARTMENTO OF CALIFORNIA DEPARTMENT OF CALIFORNIA DEPARTMENTO OF CALIFORNIA DEPARTMENTO OF CALIFORNIA DEPARTMENTA DEPARTMENTA DEPARTMENTA DEPARTMENTA DE CALIFORNIA DEPARTMENTA DE CALIFICA DE CALIFORNIA DE CALIFICA DE CALIFORNIA DE CALIFICA DE CALIFORNIA DE CALIFICA DE CALIFORNIA DE CALIFICA DE CALIFICA
- Updated burn probabilities for wildland areas (inclusive of 2020 fires)
- Updated fire environment footprints (urban/developed)
- Updated Vegetation density for urban areas
- Inclusion of slope in the urban zoning model
- Localized fire weather used in both wildland and urban models
- New firebrand production and transport model using discrete local wind vector distributions

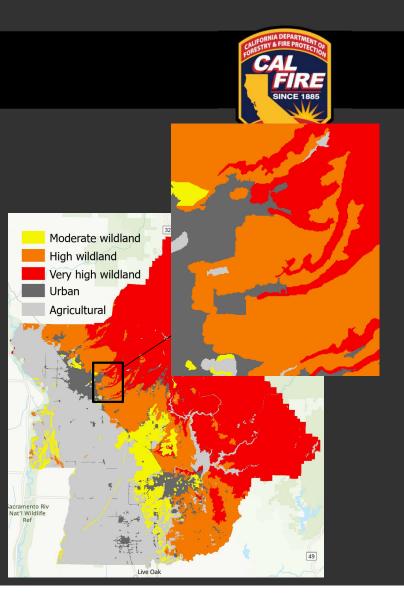
Wildland vs. Non-wildland Zones

- Zones are areas with relatively homogeneous slope and vegetation
- Hazard map is produced at 30 m resolution
- Scores are averaged within a zone
- Wildland is scored independently of urban and agricultural
- Urban zones scored using additional model steps



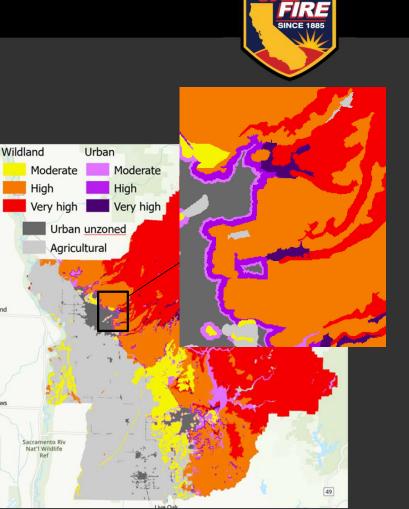
Wildland FHSZ

- Minimum size of 200 acres
- Burn probability
 - Based on fire occurrence from 1991-2020
- Fire intensity
 - Vegetation type
 - Slope
 - Local fire weather how hot/dry/windy are the worst conditions at a given location (based on 2 km data from 2003-2018)



Urban FHSZ

- Minimum size of 20 acres for isolated islands of vegetation embedded in non-wildland.
- Based on distance to wildland and hazard level of adjacent wildland
- Ember production based on vegetation type and fire weather
- Ember transport based on wind speed/direction observed under the most extreme fire weather at a given location
- Width of moderate, high and very high bands in urban are based on ember load, urban tree cover and slope



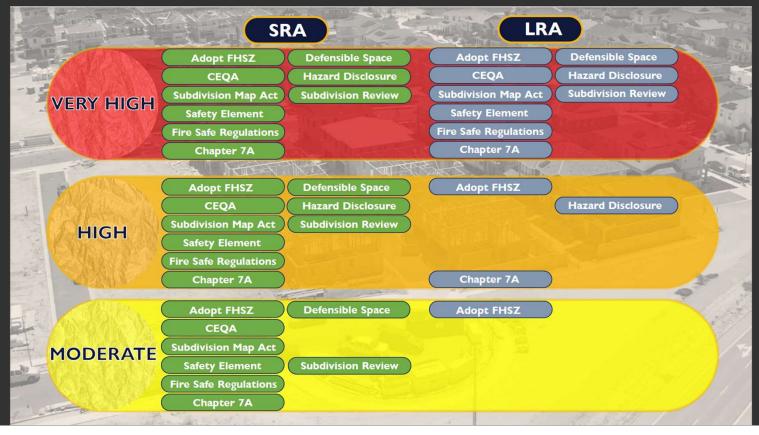




What is the map for?

- Building standards for new construction in the Wildland-Urban Interface (California Building Code Chapter 7A)
- Property development standards such as road widths, water supply and signage (Fire Safe Regulations)
- Defensible Space Requirements (Government Code 51182)
- Natural hazard real estate disclosure

What's Impacted...



INCE 188

Adoption Timeline:



Questions?



osfm.fire.ca.gov/fhsz



