



# Wildfire Prevention & Preparedness Workshop

May 20, 2025



# Agenda

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- ◆ Welcome
- ◆ Defensible Space
- ◆ Home Hardening
- ◆ Resources & Response
- ◆ Fire Preparedness Tools
- ◆ Question & Answer





# Defensible Space

# Fire Behavior & Fire Spread

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Amount and  
Types of Fuels



Moisture Content  
of Fuels



Topography, Slope



Current Weather



Other relevant  
factors (fire  
history)



# Wildfire Threat to Structures

**Embers: product of fire, lofted into the air, which vary in size.**

- *0-5 foot zone*
- *Large surface areas*
- *Vents*

**Flame Impingement: direct flame contact**

- *Remove ladder fuels*
- *5-30 foot zone*

**Radiant Heat: heat transfer without contact**

- *Thin out vegetation*
- *Reduce groupings of trees*



# Defensible Working Area

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An area surrounding structures that allows firefighters and equipment the space to defend against an approaching wildfire.



# Defensible Working Area for Firefighters



# Defensible Space

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A natural and landscaped area around a structure, maintained and designed to reduce fire danger.



# Defensible Space & Working Area Goals

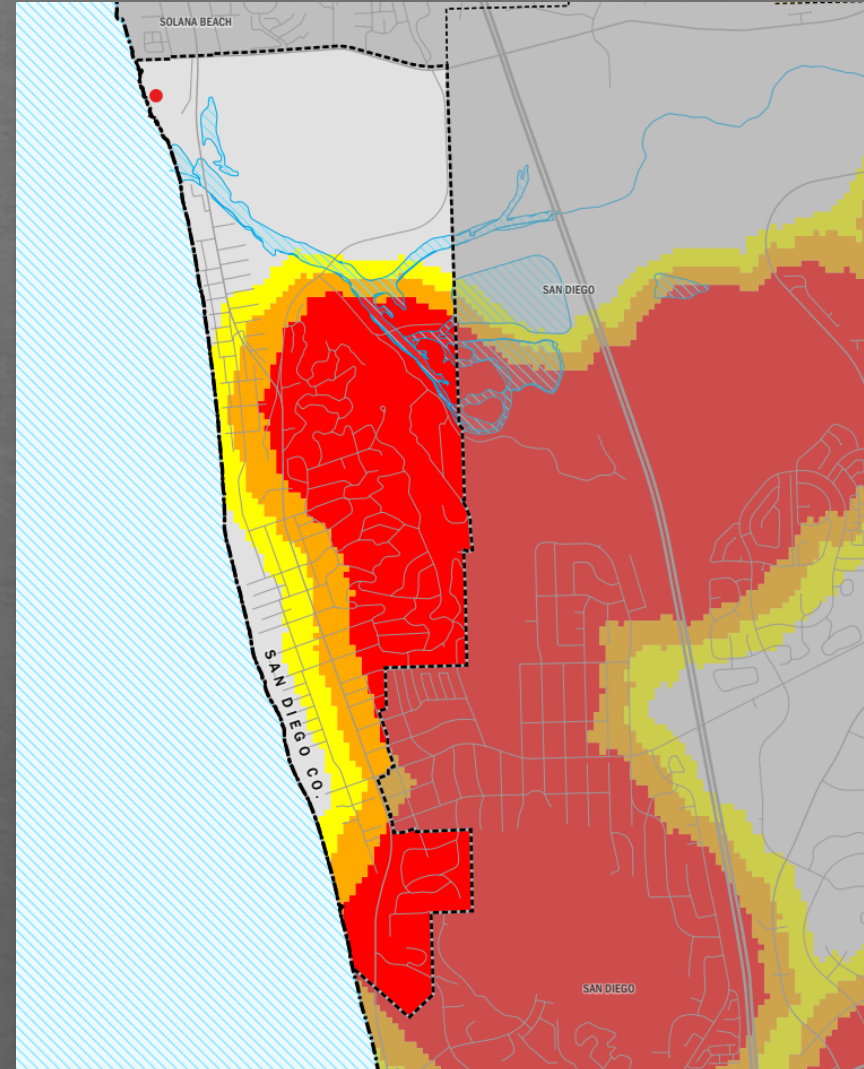
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- ◆ Reduce flame length and keep flames from touching structures
- ◆ Reduce radiant heat that structures are exposed to
- ◆ Give firefighters the room to advance hose lines
- ◆ Provide a safe area for firefighters to defend structures



# Very High Fire Hazard Severity Zone Map Update

- ◆ March 24: Cal Fire released maps
- ◆ March 28: Posted for public comment period
- ◆ June 2 Council Meeting: Introduction and First Reading of ordinance to adopt maps
- ◆ June 16 Council Meeting: Final adoption
- ◆ Applicable July 2025



# Defensible Space Zones

Immediate 0-5 feet

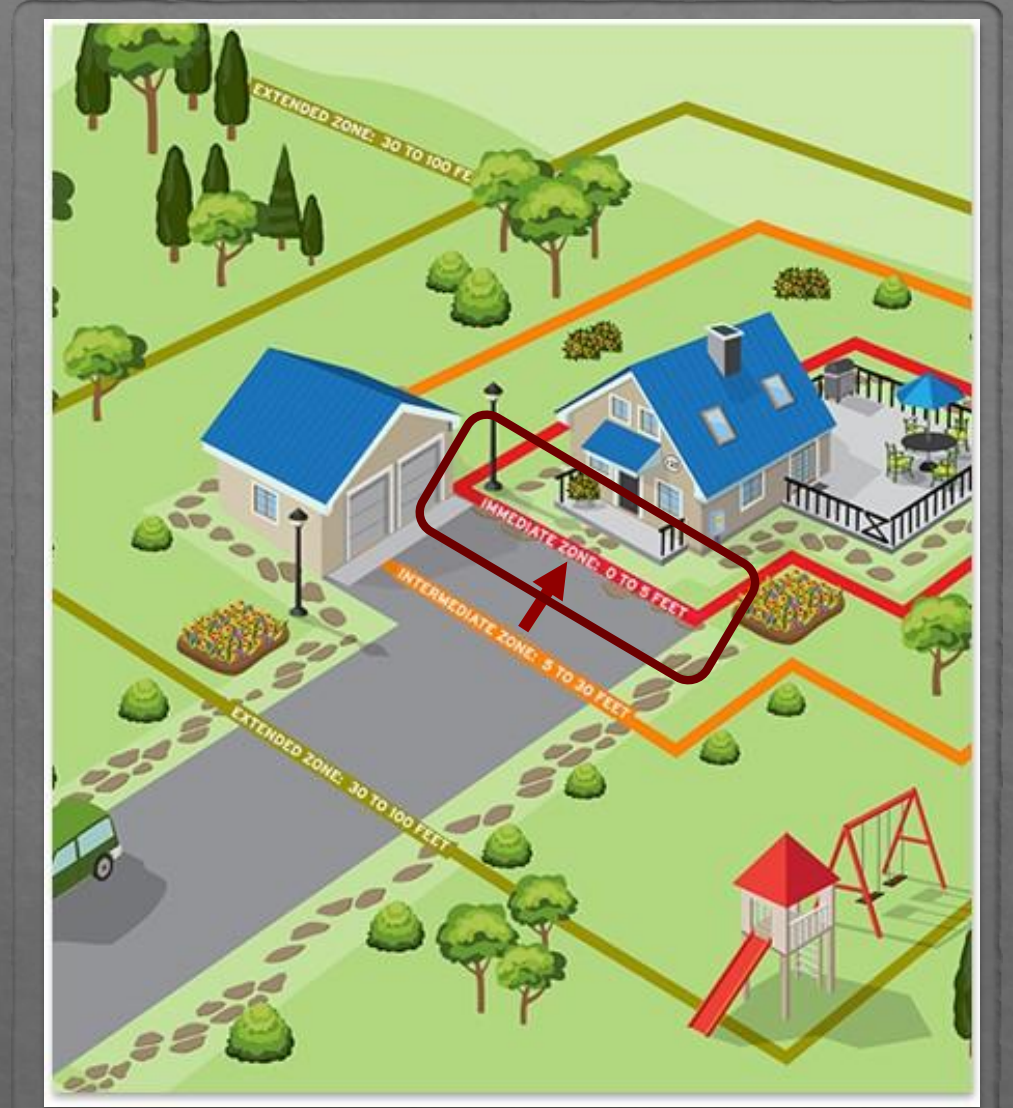
Intermediate 5-30 feet

Extended 30 up to 100 feet



# Defensible Space Zone: Immediate – 0-5 feet

- ◆ Within 5 Feet –Remove Flammable Items
- ◆ Wood Mulch
- ◆ Patio Furniture, Cushions
- ◆ Stacks of Firewood
- ◆ Storage Beneath Decks
- ◆ Attic Vents
  - Ember-resistant
  - Mesh no larger than 1/8 inch
- ◆ Remove combustibles: Piles of wood, trashcans and outdoor furniture
- ◆ Rain Gutters and Roof Valleys
- ◆ Clear out pine needles, leaves, etc.



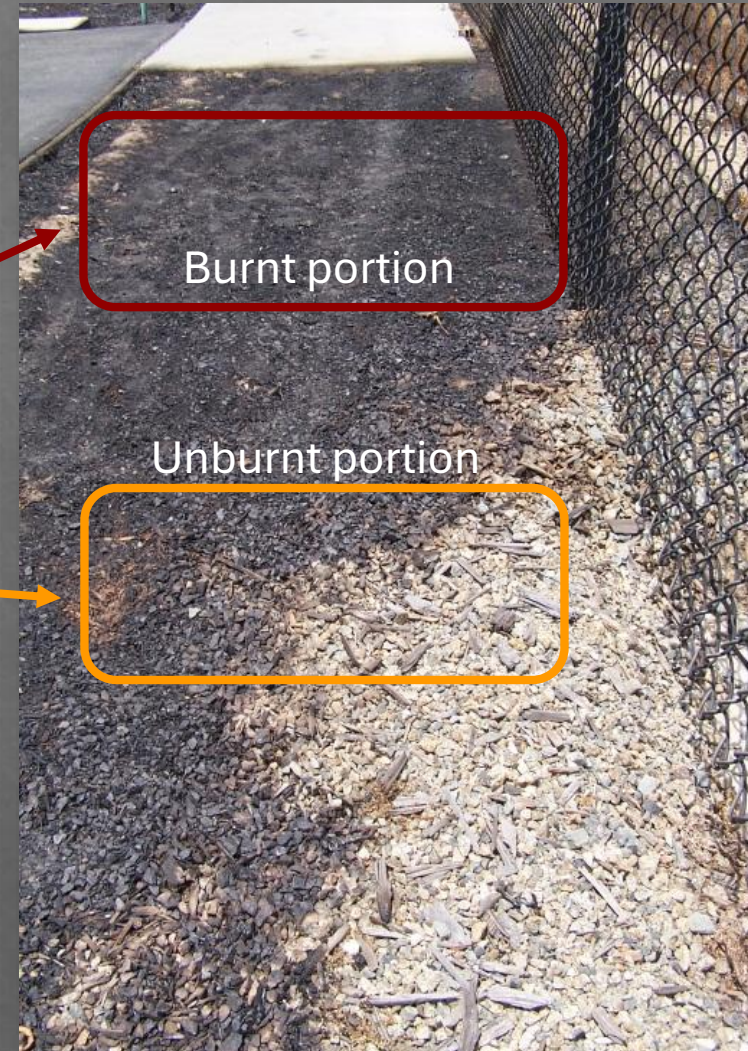
# Eave Vents

- ◆ State Fire Marshal Approved Ember-Resistant
- ◆ 1/8-inch max screen opening
- ◆ Mesh screen properly attached



# Wood mulch will carry a flame!

- ◆ Burnt portion was wood mulch.
- ◆ Unburnt area was transition to crushed rock.
- ◆ Keep wood mulch a minimum of 6 inches away from the structure



# Trees Near Structures

- ◆ Consider tree location when planting
- ◆ Maintain existing trees; be proactive with areas of concern
- ◆ Keep trees cut back 10 feet from chimney
- ◆ Keep trees from coming in contact with structure



Clear leaves and debris out of gutters.

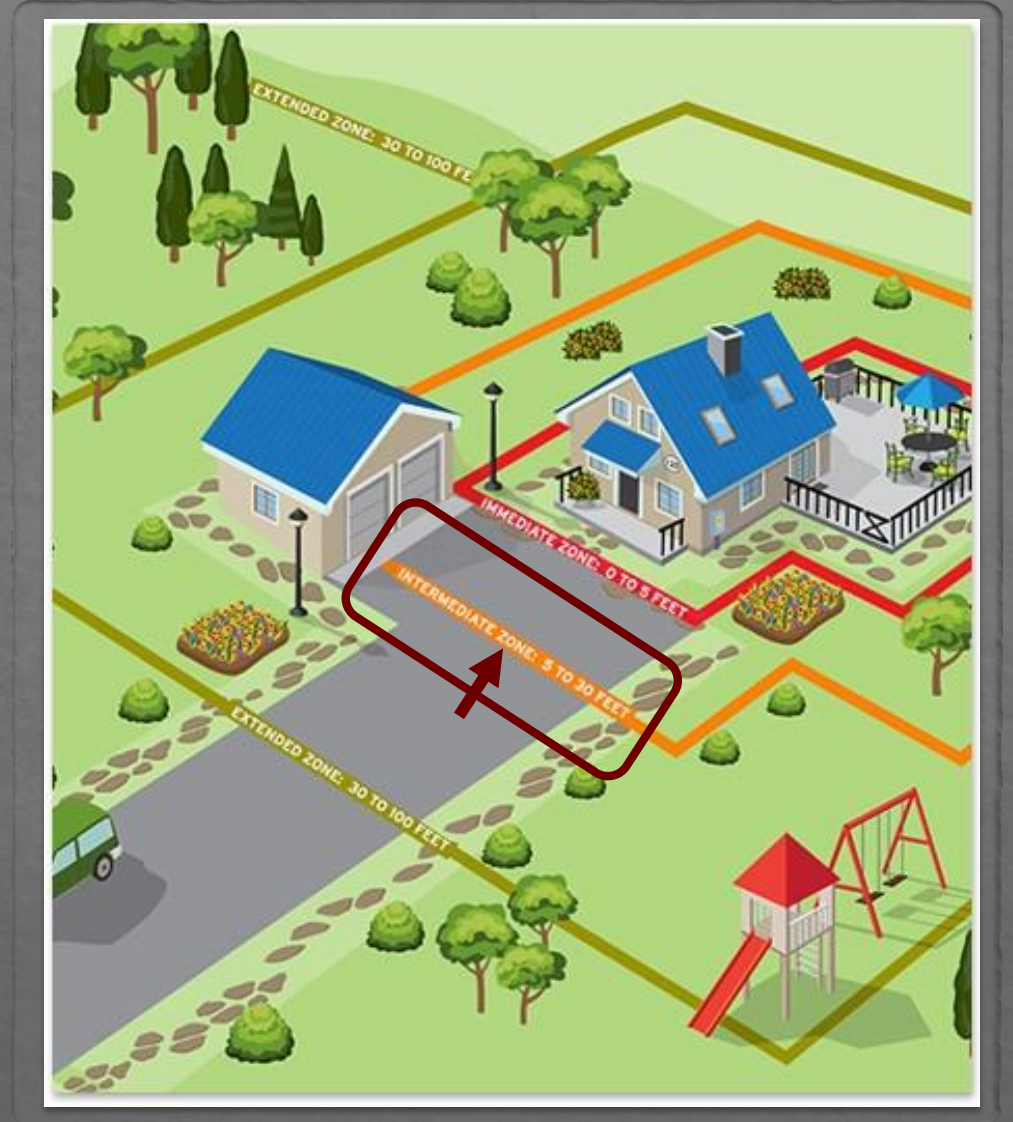


Clear leaves and debris off the roof



# Defensible Space Zone: Intermediate – 5-30 feet

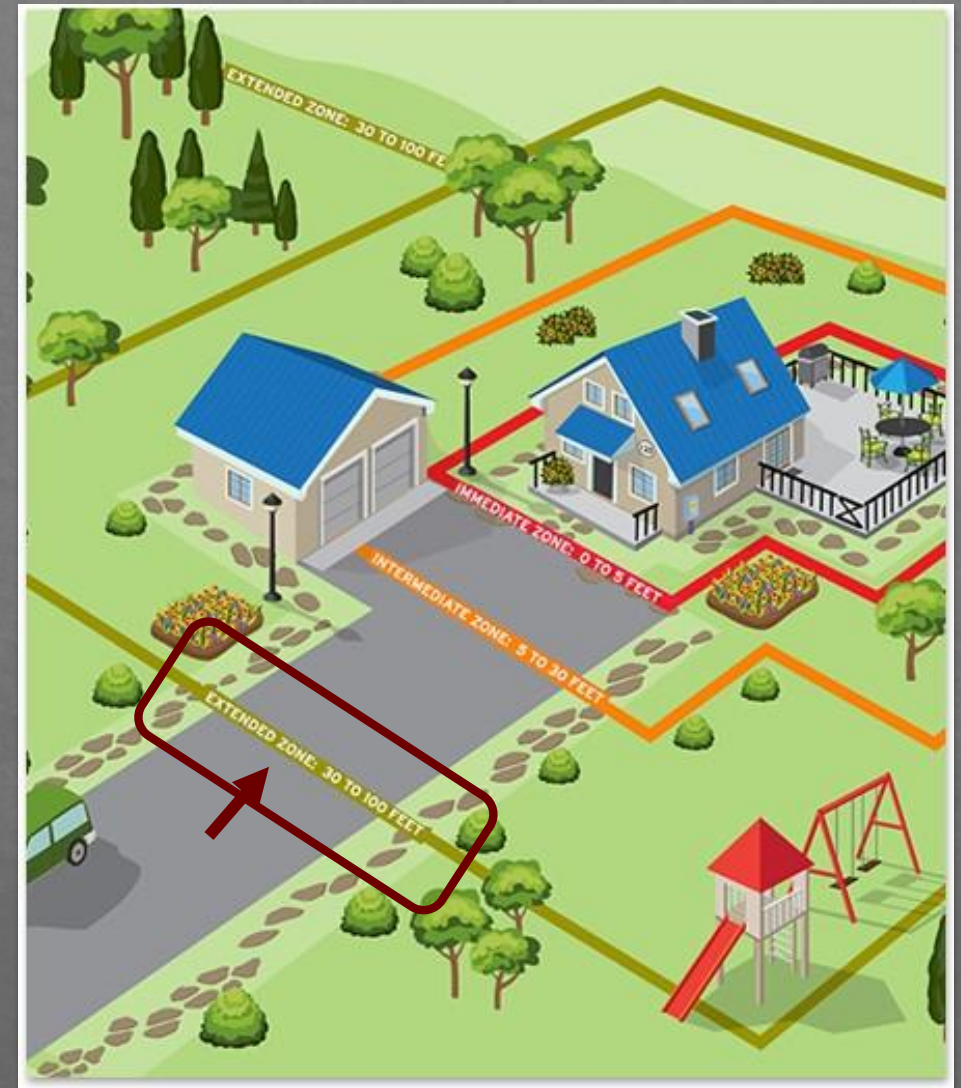
- ◆ Irrigated area
- ◆ Keep area around solar panels or propane tanks clear
- ◆ Provide clear driveway access
- ◆ Maintain trees 10 feet away from the chimney
- ◆ Prune trees 6 feet from ground



# Defensible Space Zone:

Extended – 30-100 feet

- ◆ Up to 100 feet or property line, whichever is closer
- ◆ Not every property has 100 feet
- ◆ Reduced fuel zone





# Home Hardening

# Vegetation Management: The 3 Rs

## Remove

- Remove all dead or dying vegetation
- Cut or remove vegetation that touches structure



## Reduce

- Thin out and prune trees
- Reduce amount of grouped trees
- Eliminate the “ladder” effect



## Replace

- Replace with drought-tolerant
- Replace with fire-resistive
- Ground cover, low growing shrubs





# Resources & Response

# Fire Access Along Driveways


- ◆ Remove combustible vegetation next to roadways and driveways
- ◆ Trim branches to meet a vertical clearance of 13 feet 6 inches




# Structure Triage



ICS256

<b>A</b>		
Type 1 Engine Access?		
Address or Location		
<b>W</b> Water Source? define below	<b>100</b> Feet Defensible Space?	 Civilians Present ?
Special Notes or Hazards:		
Date	Resource ID	
Time		

The final decision to defend a structure is always up to the assigned resource

  
FireLineSigns.com



# Other Important Tips

- ◆ Maintain Fire Hydrant Clearance of 3 feet



- ◆ Visible Address Numbers



# Water Supply

## NFPA Standards

- ◆ 1,500 GPM within the first 8 minutes of a fire response
- ◆ Residential areas: Minimum of 1,000 GPM for at least 2 hours.
- ◆ Commercial/Industrial: Can range from 1,500 to over 3,500 GPM depending on the building hazard level.
- ◆ Del Mar meets these water supply standards



# Training & Preparedness: Fire Department

## ◆ In House Wildland Fire Drill (RT-130)

- Area Familiarization
- Tailored Training for Del Mar Fire Hazards

## ◆ North Zone & San Diego County Collaboration

- Pre-positioned Strike Teams



# Vegetation Management Program

- ◆ Between June and August EDCO delivers containers to residents to clear brush and create defensible space
- ◆ 2024 summary of container counts and tonnage collected:
  - 60 – 3yd green waste containers delivered and removed.
  - 30,880 pounds of green waste/brush removed.
  - 15.44 tons total.
  - All 100% recycled.





# Emergency Preparedness Tools

# Make a Plan

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- ◆ Designate a relative or friend as an out-of-area contact with whom family members can relay information.
- ◆ Involve family and friends in the planning – let them be part of the process.
- ◆ Review and update your emergency plan and “important stuff” list periodically.
- ◆ Evacuation planning happens before an emergency or disaster happens
- ◆ Practice your plan with family and/or friends



# Prepare an emergency Go-Kit

- ◆ Three-day water supply (1 gallon per person per day is recommended)
- ◆ Three-day food supply that won't spoil, and a way to open it
- ◆ One change of clothing and shoes per person
- ◆ One blanket or sleeping bag per person
- ◆ First aid kit that includes family prescriptions
- ◆ Emergency tools
- ◆ Extra set of car keys
- ◆ Flashlight
- ◆ Extra batteries
- ◆ Battery-powered radio
- ◆ Pet transport carrier and leash
- ◆ Pet food for three days
- ◆ Goggles (for high wind or blowing embers)
- ◆ Face coverings
- ◆ Hand sanitizer
- ◆ Disinfecting wipes and/or spray
- ◆ Nitrile gloves
- ◆ Sunscreen
- ◆ Emergency hand crank radio
- ◆ NOAA Emergency Weather Radio



# Pre-evacuation & when to evacuate

## Pre-evacuation

- ◆ Review your evacuation plan
- ◆ Monitor wildfire updates
- ◆ Put Go-Kit in your vehicle, if not already there
- ◆ Wear clothes that cover your skin: long pants and tops and sturdy, closed-toe shoes
- ◆ Get pets ready to evacuate

## When to evacuate

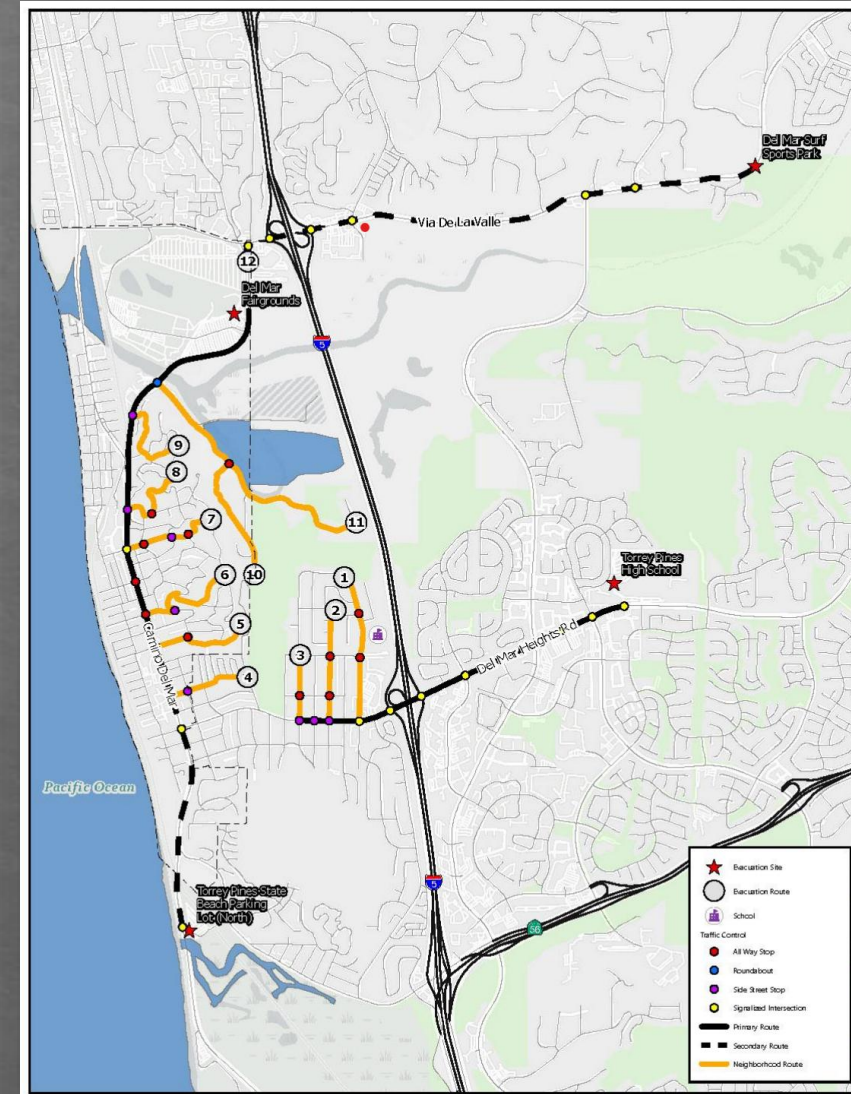
- ◆ Stay informed
- ◆ Fire officials decide when and where to evacuate based on the fire, wind, and terrain.
- ◆ Law enforcement enforce evacuation orders. Follow their directions right away.
- ◆ Evacuation Warning vs. Order
  - Don't wait for orders
- ◆ Act fast: In severe wildfires, there's no time to waste. If advised to leave, do so without delay.
- ◆ Stay alert: You may be directed to temporary assembly areas to await transfer to a safe location.
- ◆ Help firefighters: Don't return home until fire officials notify you that it's safe to do so.



# Crest Canyon Evacuation Routes

## Crest Canyon Evacuation Plan

- ◆ [Emergency Preparedness | Del Mar, CA](#)  
- [Official Website](#)
- Plan can be found via link on right hand side of webpage



# Alert San Diego

Preparedness | Emergency | Recovery



## ALERT SAN DIEGO

Home | Register for Emergency Alerts | Download the Mobile App | Make a Plan | Get Involved | Maps | Other Resources

Home / Preparedness

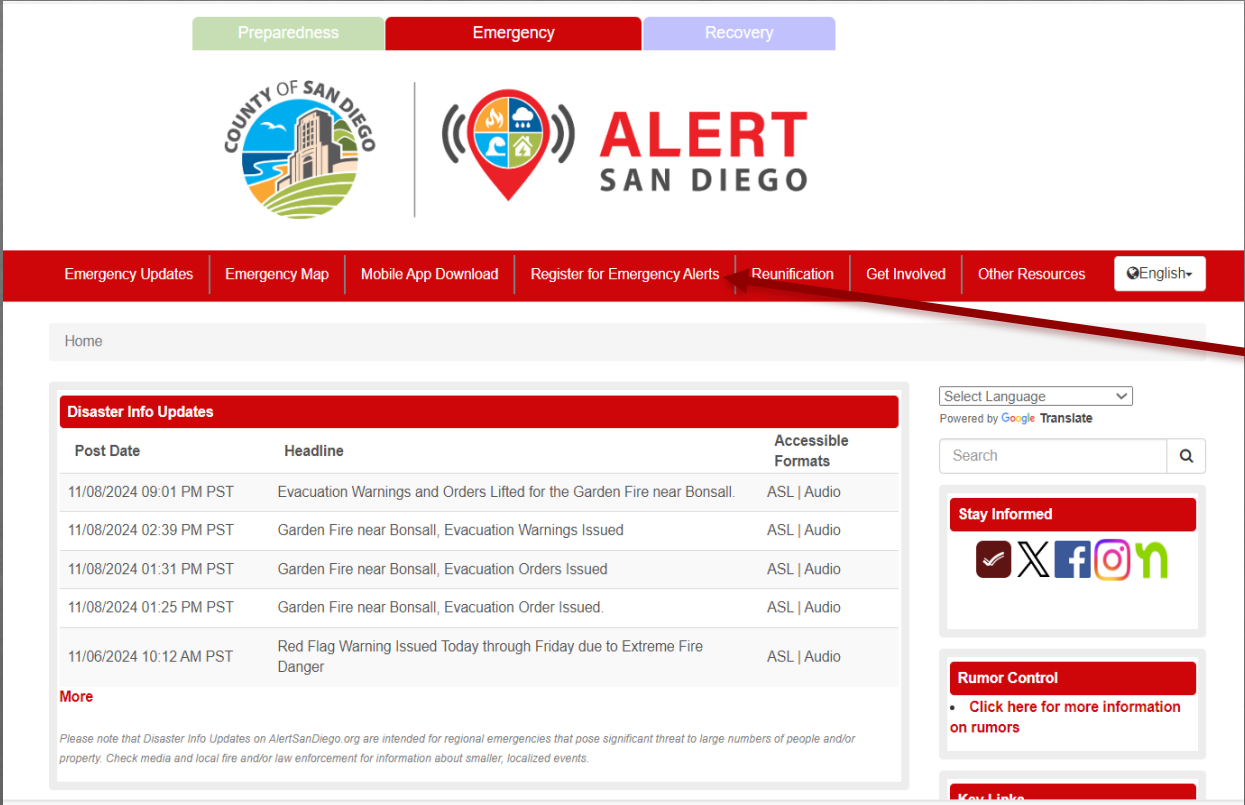
### 5 Steps to Disaster Preparedness

1. Create your own [Personal Disaster Plan](#) (available in 12 languages)
2. Register your cell phones for emergency alerts
3. Download the [SD Emergency mobile app](#), now with [Earthquake Early Warning](#)
4. Make an [Evacuation Go-Kit](#) and a [Shelter-in-Place Stay Kit](#)
5. Click on the icons below to review the types of disasters that San Diego is most at risk for:

 <h4>Wildfire</h4> <p>Be prepared for wildfires by learning about defensible space and evacuation planning.</p>	 <h4>Earthquake</h4> <p>Earthquakes can happen with little warning. If you feel shaking, remember to Drop, Cover and Hold On!</p>
 <h4>Heat</h4> <p>Learn about heat related illness and tips to beat the heat like staying hydrated and not leaving kids or pets in vehicles.</p>	 <h4>Tsunami</h4> <p>Learn the signs of incoming Tsunamis and when you need to move to high ground away from beaches and waterways.</p>
 <h4>Flooding</h4> <p>Learn about flooding impacts and what you can do to prepare like never driving through flooded roadways.</p>	 <h4>Pandemic</h4> <p>Pandemics, like COVID-19, affect everyone. Know your trusted sources of information before the next one.</p>



# Emergency Notifications



Preparedness | **Emergency** | Recovery

COUNTY OF SAN DIEGO | **ALERT SAN DIEGO**

Emergency Updates | Emergency Map | Mobile App Download | Register for Emergency Alerts | Reunification | Get Involved | Other Resources | English

Home

### Disaster Info Updates

Post Date	Headline	Accessible Formats
11/08/2024 09:01 PM PST	Evacuation Warnings and Orders Lifted for the Garden Fire near Bonsall.	ASL   Audio
11/08/2024 02:39 PM PST	Garden Fire near Bonsall, Evacuation Warnings Issued	ASL   Audio
11/08/2024 01:31 PM PST	Garden Fire near Bonsall, Evacuation Orders Issued	ASL   Audio
11/08/2024 01:25 PM PST	Garden Fire near Bonsall, Evacuation Order Issued.	ASL   Audio
11/06/2024 10:12 AM PST	Red Flag Warning Issued Today through Friday due to Extreme Fire Danger	ASL   Audio

[More](#)

Please note that Disaster Info Updates on AlertSanDiego.org are intended for regional emergencies that pose significant threat to large numbers of people and/or property. Check media and local fire and/or law enforcement for information about smaller, localized events.

Select Language    
 Powered by Google Translate

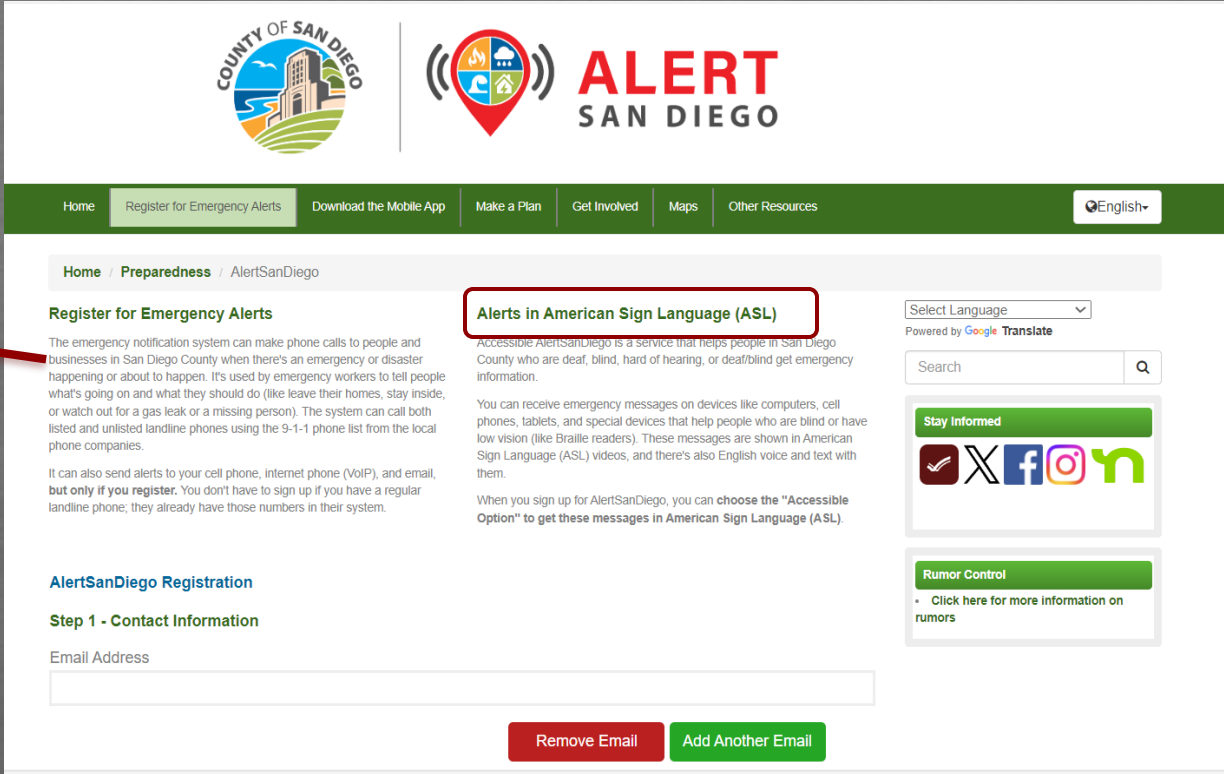
Search

**Stay Informed**

**Rumor Control**

- Click here for more information on rumors

**Key Links**



COUNTY OF SAN DIEGO | **ALERT SAN DIEGO**

Home | Register for Emergency Alerts | Download the Mobile App | Make a Plan | Get Involved | Maps | Other Resources | English

Home / Preparedness / AlertSanDiego

### Register for Emergency Alerts

The emergency notification system can make phone calls to people and businesses in San Diego County when there's an emergency or disaster happening or about to happen. It's used by emergency workers to tell people what's going on and what they should do (like leave their homes, stay inside, or watch out for a gas leak or a missing person). The system can call both listed and unlisted landline phones using the 9-1-1 phone list from the local phone companies.

It can also send alerts to your cell phone, internet phone (VoIP), and email, but **only if you register**. You don't have to sign up if you have a regular landline phone; they already have those numbers in their system.

**Alerts in American Sign Language (ASL)**

Accessible AlertSanDiego is a service that helps people in San Diego County who are deaf, blind, hard of hearing, or deaf/blind get emergency information.

You can receive emergency messages on devices like computers, cell phones, tablets, and special devices that help people who are blind or have low vision (like Braille readers). These messages are shown in American Sign Language (ASL) videos, and there's also English voice and text with them.

When you sign up for AlertSanDiego, you can choose the "Accessible Option" to get these messages in American Sign Language (ASL).

Select Language    
 Powered by Google Translate

Search

**Stay Informed**

**Rumor Control**

- Click here for more information on rumors

### AlertSanDiego Registration

#### Step 1 - Contact Information

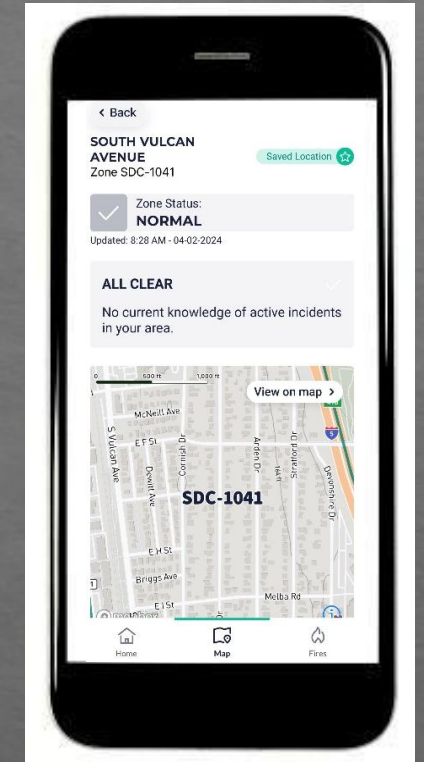
Email Address

www.AlertSanDiego.org



# Genasys Protect

- ◆ Used by law enforcement and fire departments
- ◆ Web and application based
- ◆ Allows users to view the status of zones
- ◆ Provides information about
  - ◆ Evacuation advisories, warnings and orders
  - ◆ Temporary evacuation point and shelter locations
  - ◆ Traffic control points
- ◆ Allows users to save up to 5 locations to track zone status.



[www.protect.genasys.com](http://www.protect.genasys.com)



# Additional Resources

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- ◆ City of Del Mar: [Del Mar, CA - Official Website | Official Website](#)
- ◆ Ready for Wildfire: [Home - Ready for Wildfire CAL FIRE Safety & Preparedness Tips](#)
- ◆ Alert San Diego: [Alert San Diego](#)
- ◆ Genasys Protect: [Genasys Protect](#)



# Questions & Answers

