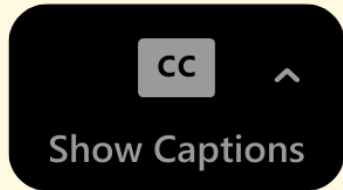




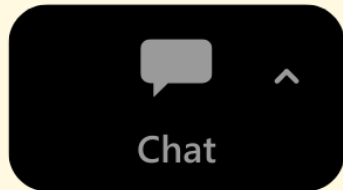
# HEAT & AIR QUALITY RESILIENCE (HAQR) WORK GROUP

Quarterly Meeting  
May 28, 2025

# Accessibility



Read live transcripts and closed captions.



- Join the chat (if available).
- Write to the panelists or all guests.

# Meeting Objectives

- ✓ Hear from the National Weather Service on summer heat projections.
- ✓ Learn about how governmental and community organizations strategize heat-safety for everyone during high temperatures.

# Agenda

- Meeting Objectives
- Summer Heat Forecast | *National Weather Service*
- Extreme Heat and Cooling Resources | *Office of Emergency Management and Office of Supportive Housing*
- Impacts of Extreme Heat on the Unhoused | *Downtown Streets Team*
- Group Information Share
- Next Steps & Closing

# Summer Heat Outlook

**Brian Garcia**

National Weather Service







# NWS SF Bay Area 2025 Summer and Fire Season Outlook



Image: [happeningsonoma.com](https://happeningsonoma.com)

Presented by: *Warning Coordination Meteorologist - Brian Garcia*





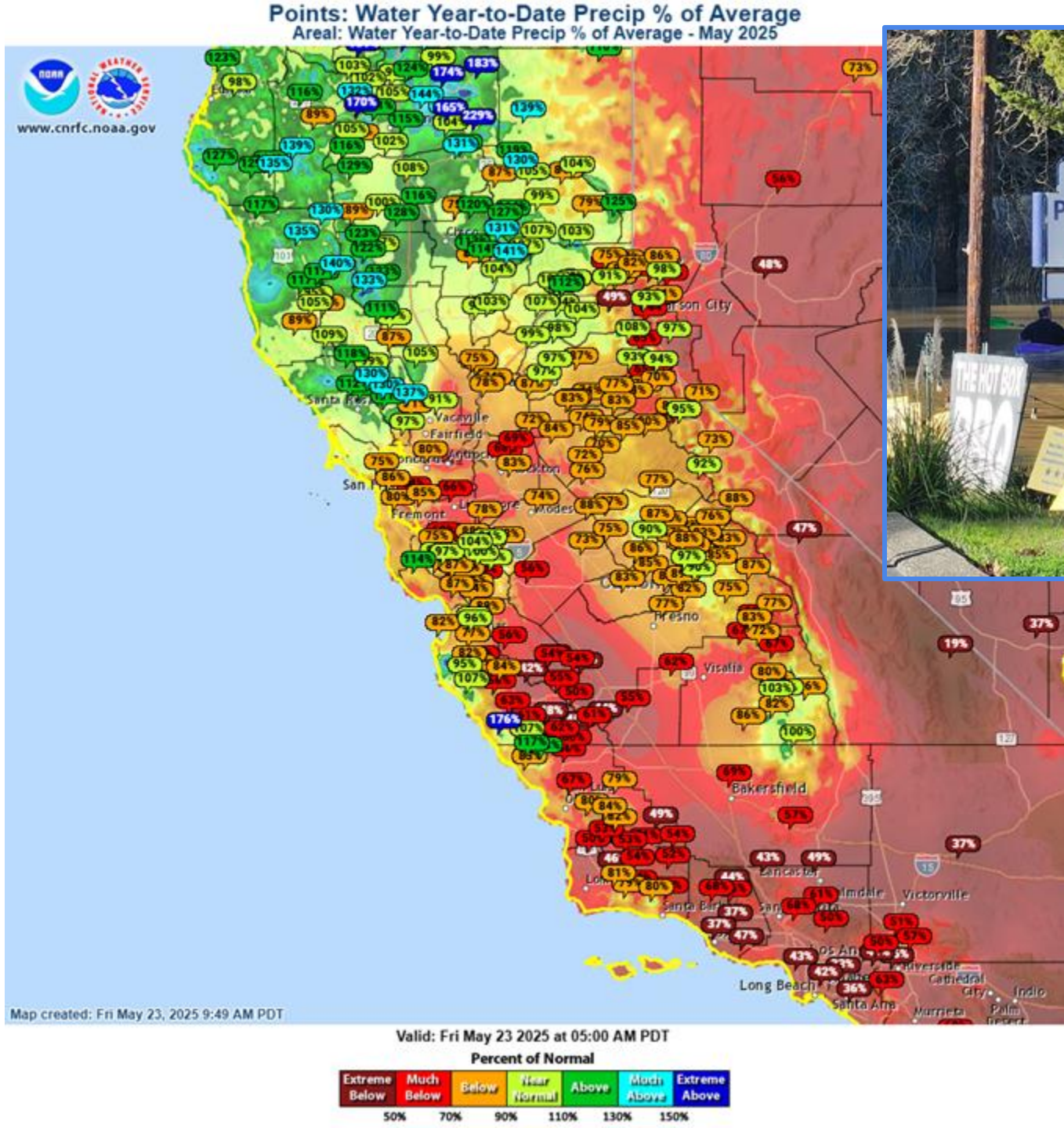
# TOPICS

- Winter Season Precipitation Recap
- Current Conditions
- Summer Outlook
- Fire Season Outlook
- Tool for the toolbox





# 2024/2025 Winter Season Recp

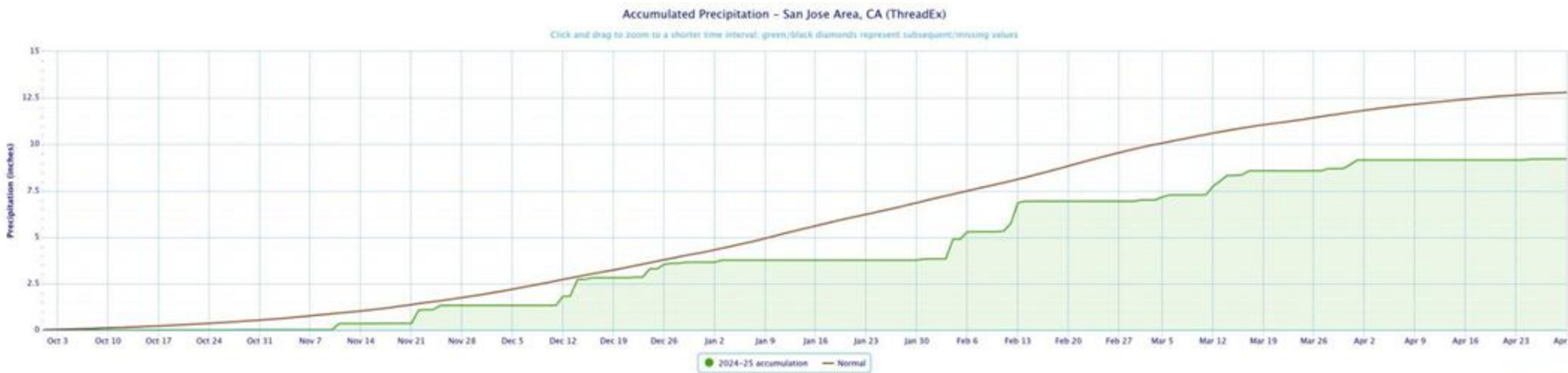
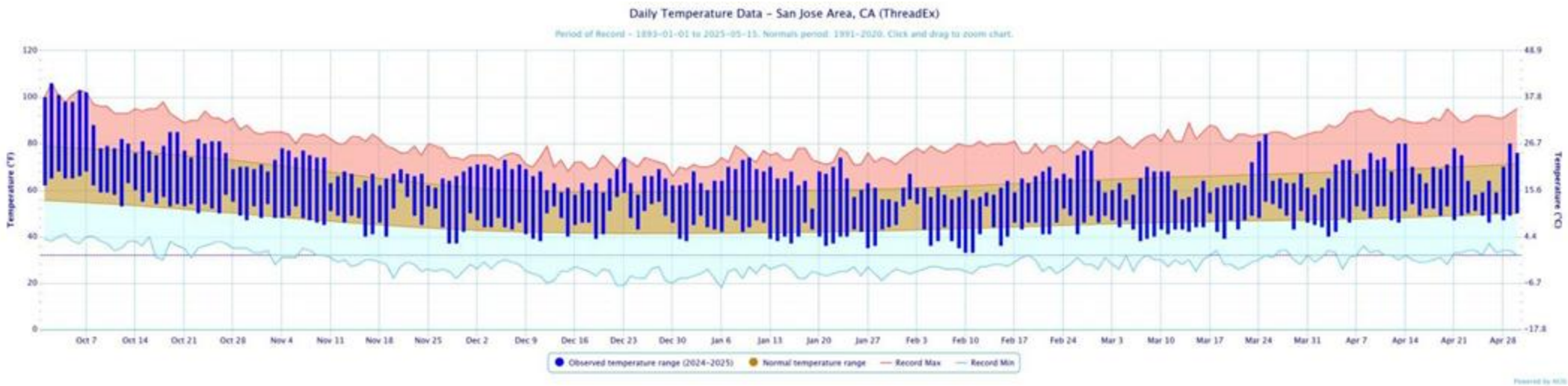


Sonoma County Russian River





# 2024/2025 Winter Season Recp

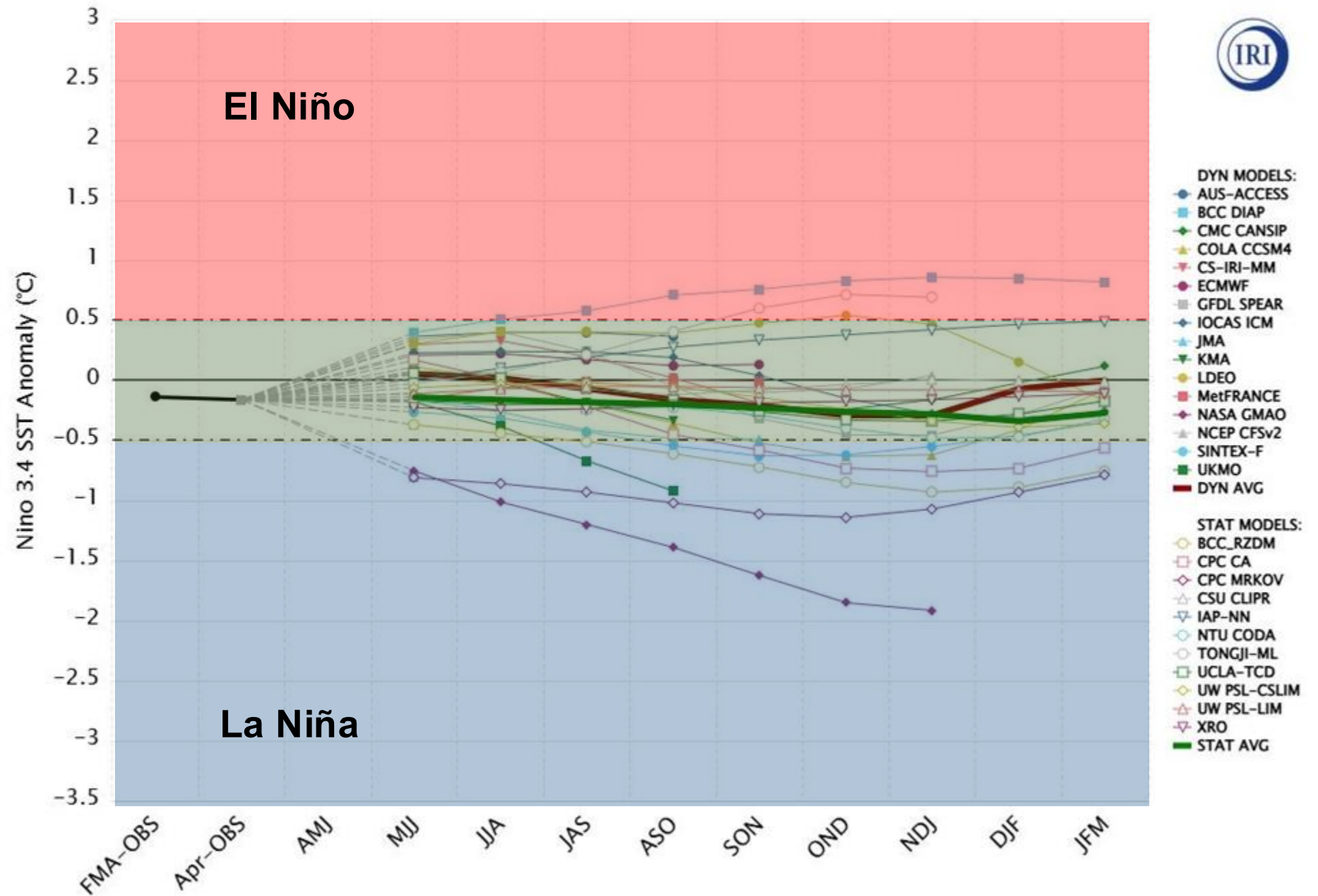






# Current Conditions

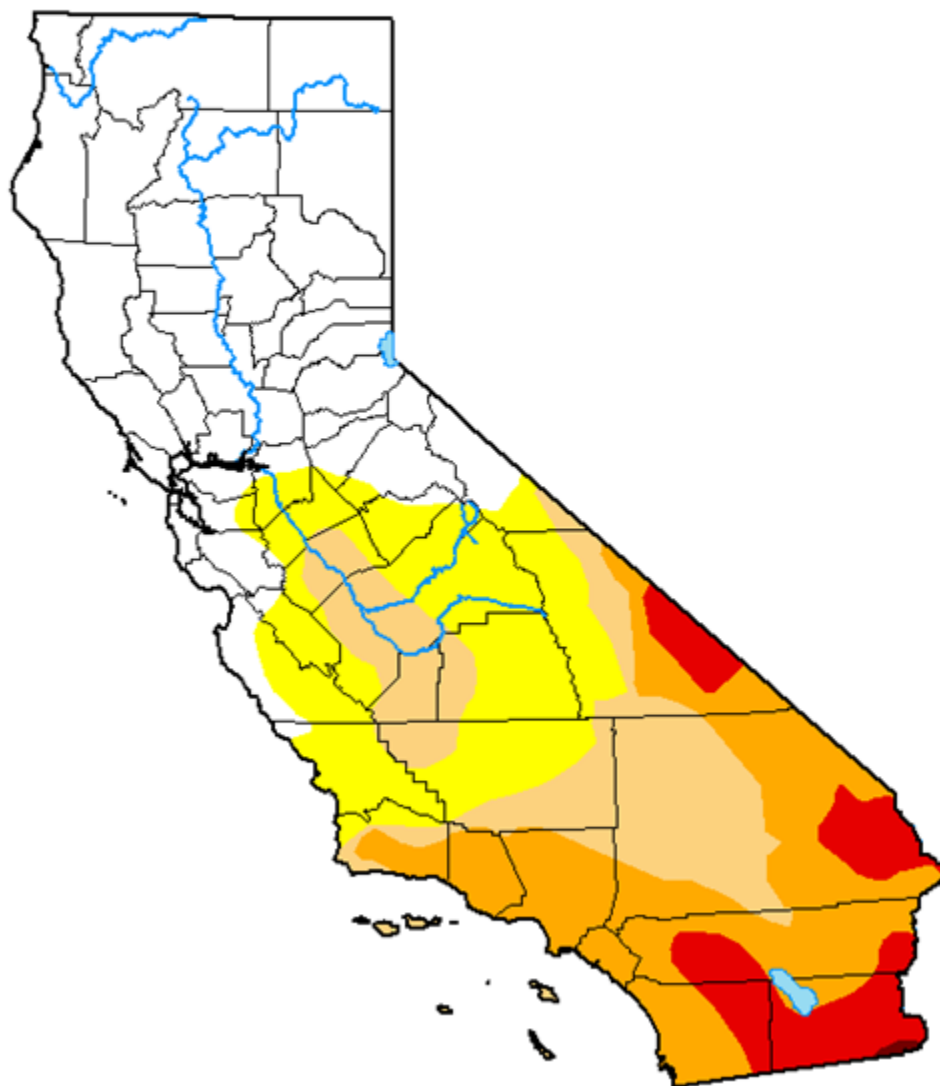
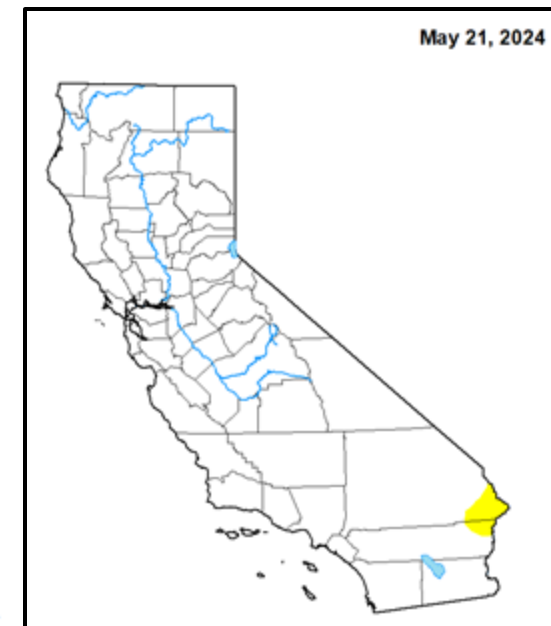
Model Predictions of ENSO from May 2025





# U.S. Drought Monitor California

**May 20, 2025**  
(Released Thursday, May. 22, 2025)  
Valid 8 a.m. EDT



## Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>*

## Author:

Rocky Bilotta  
NCEI/NOAA



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

# Current Conditions

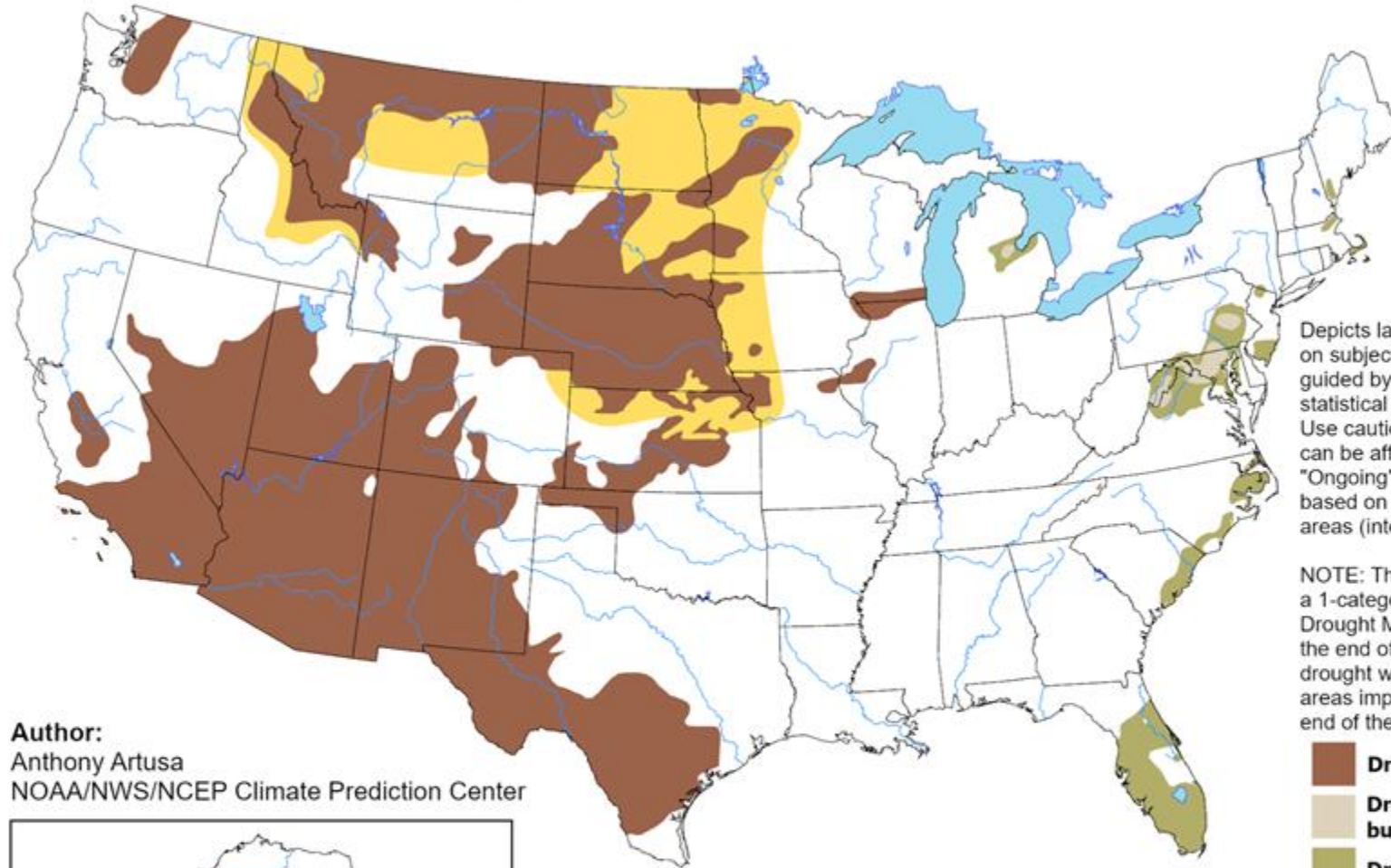




# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for May 15 - August 31, 2025  
Released May 15, 2025

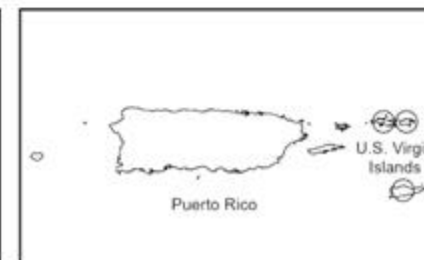


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought

Author:  
Anthony Artusa  
NOAA/NWS/NCEP Climate Prediction Center

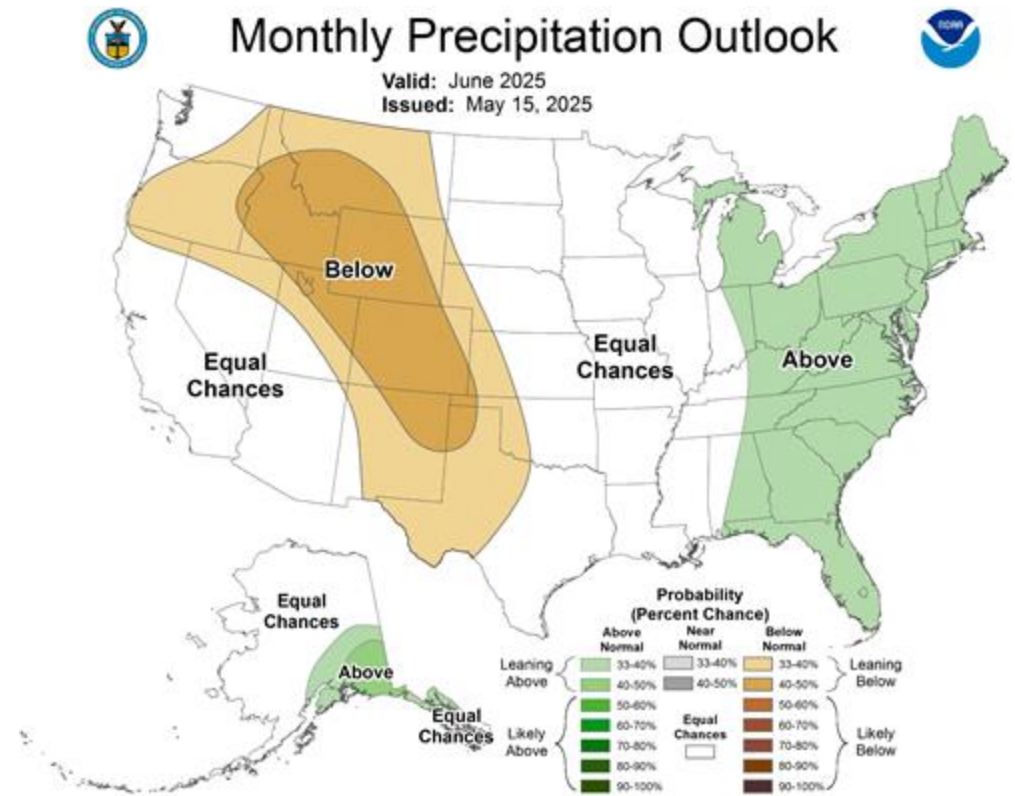
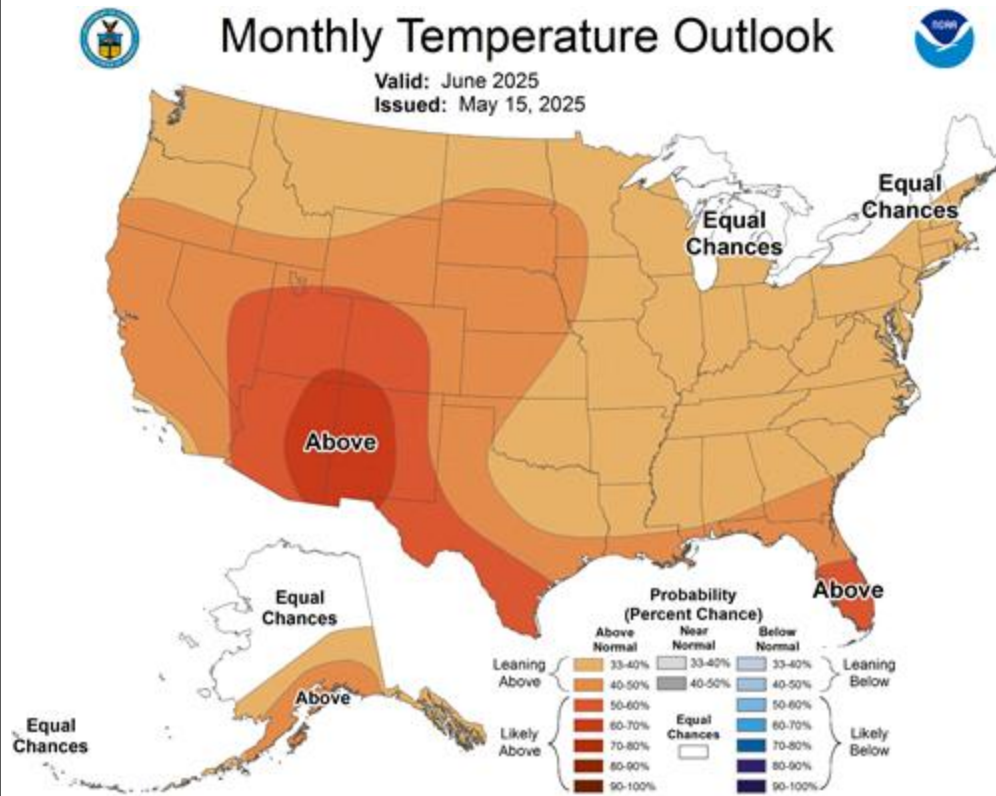


<https://go.usa.gov/3eZ73>

Current  
Conditions



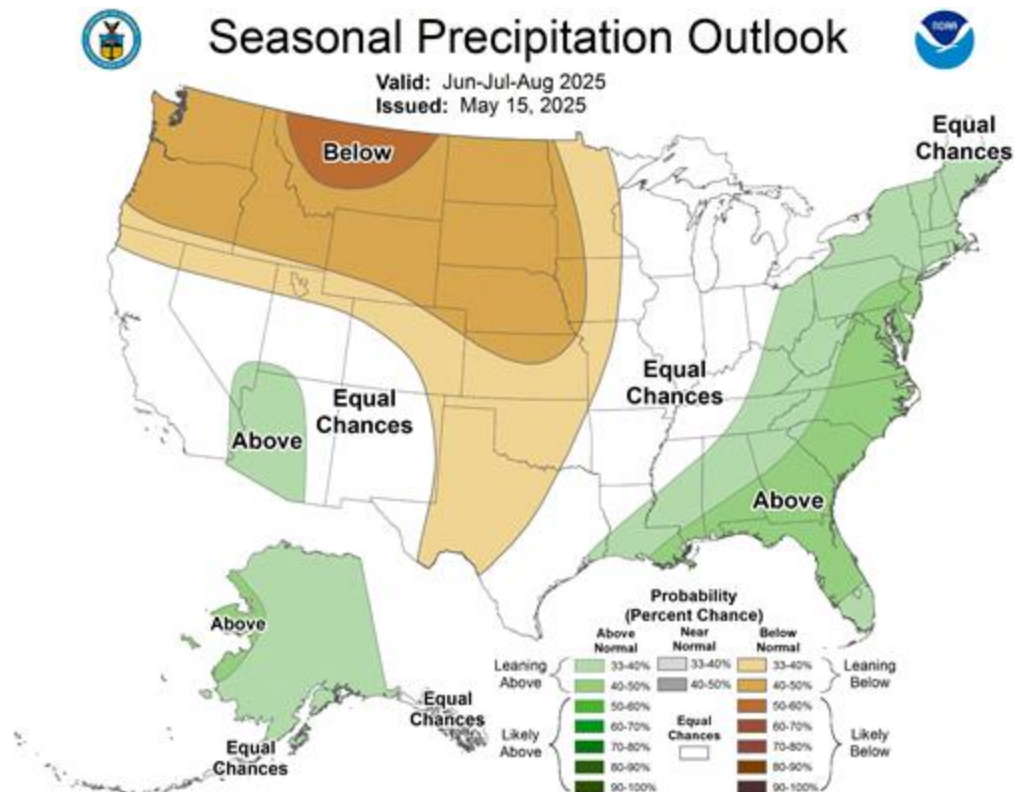
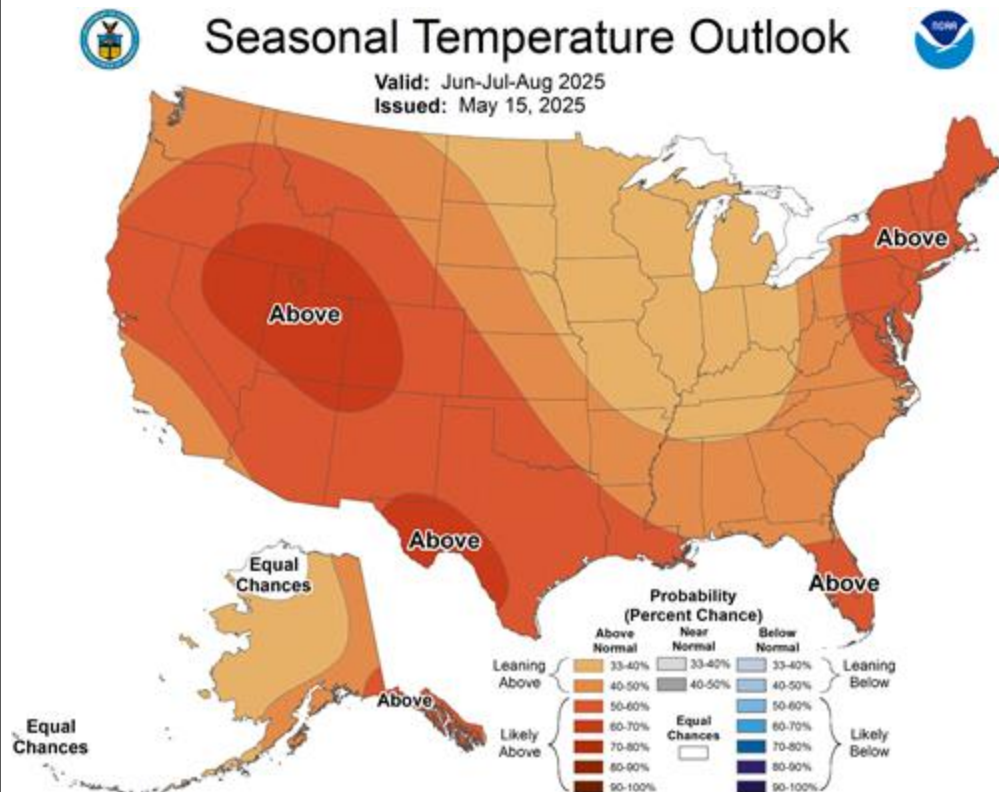
# Summer Outlook





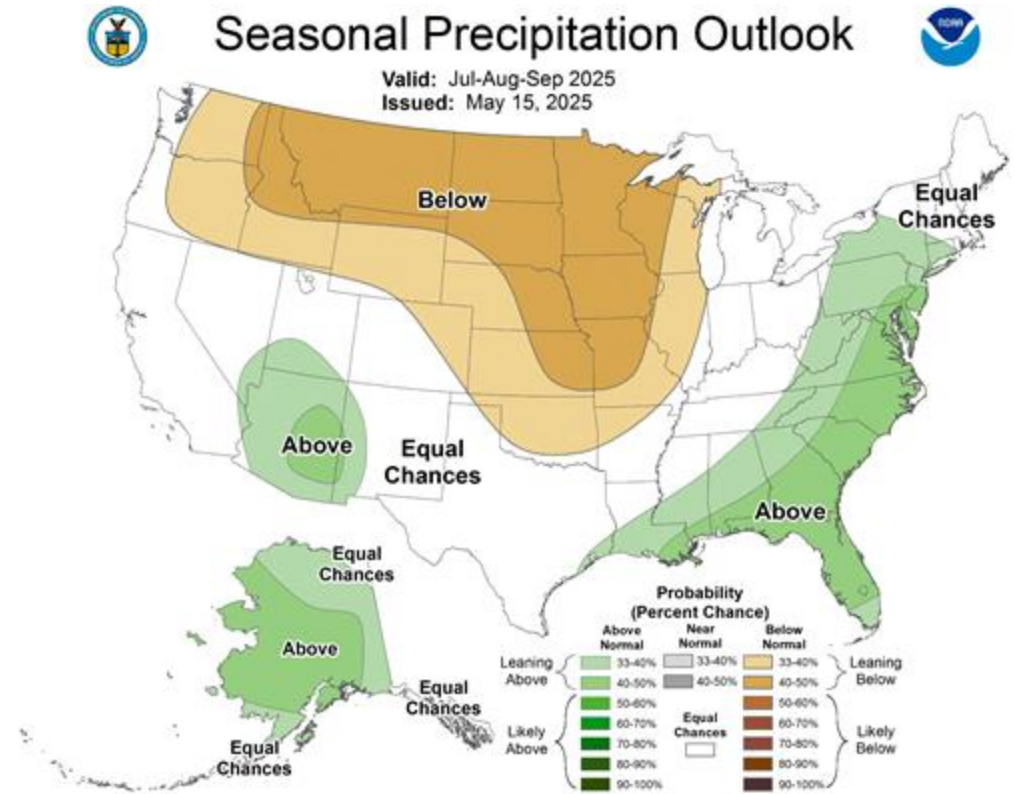
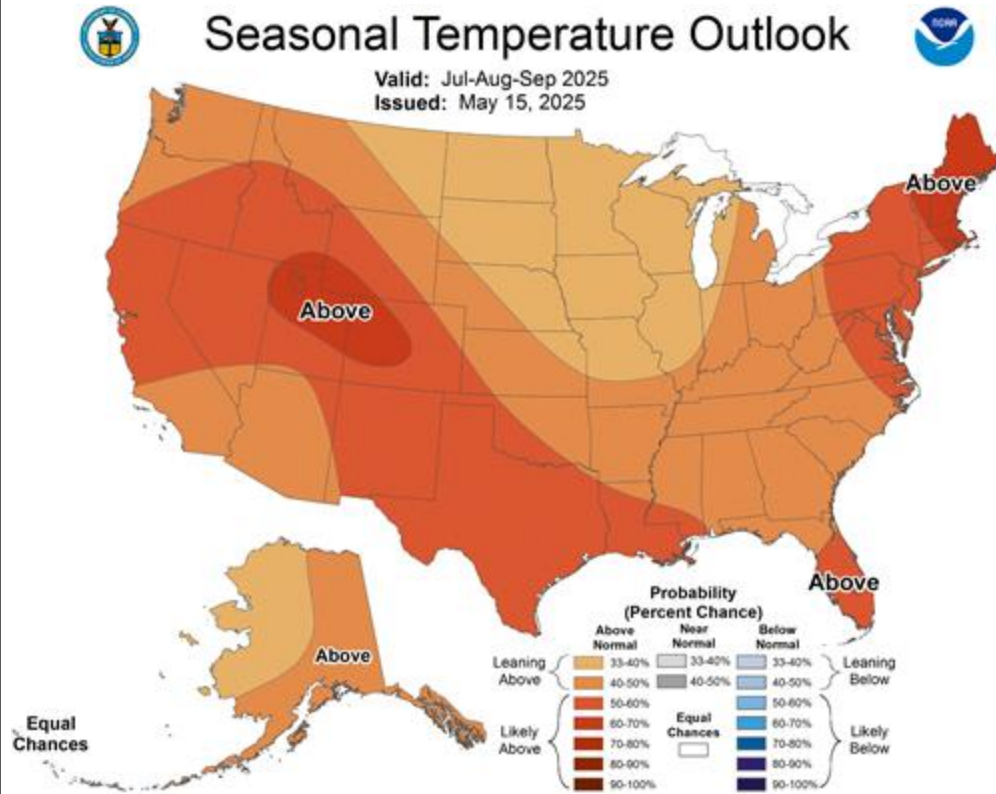


# Summer Outlook





# Summer Outlook







# Alerts Extreme Heat Watch / Warning

## EXTREME HEAT WATCH

---

An Extreme Heat Watch is issued when **dangerous heat is possible**.

Reschedule outdoor activities in the coming days. Make sure that children, the elderly, and pets have a place to cool off during the heat.

---

### Be Prepared.



weather.gov

## EXTREME HEAT WARNING

---

An Extreme Heat Warning is issued when **dangerous heat is happening or about to happen**.

Avoid heavy activity & direct sunlight. Stay hydrated, find a cool indoor place, and check on children, elderly & pets.

---

### Take Action!



# HeatRisk

## NWS HeatRisk

Identifying Potential Heat Risks in the Seven Day Forecast

Mon 5/19	Tue 5/20	Wed 5/21	Thu 5/22	Fri 5/23	Sat 5/24	Sun 5/25
-------------	-------------	-------------	-------------	-------------	-------------	-------------

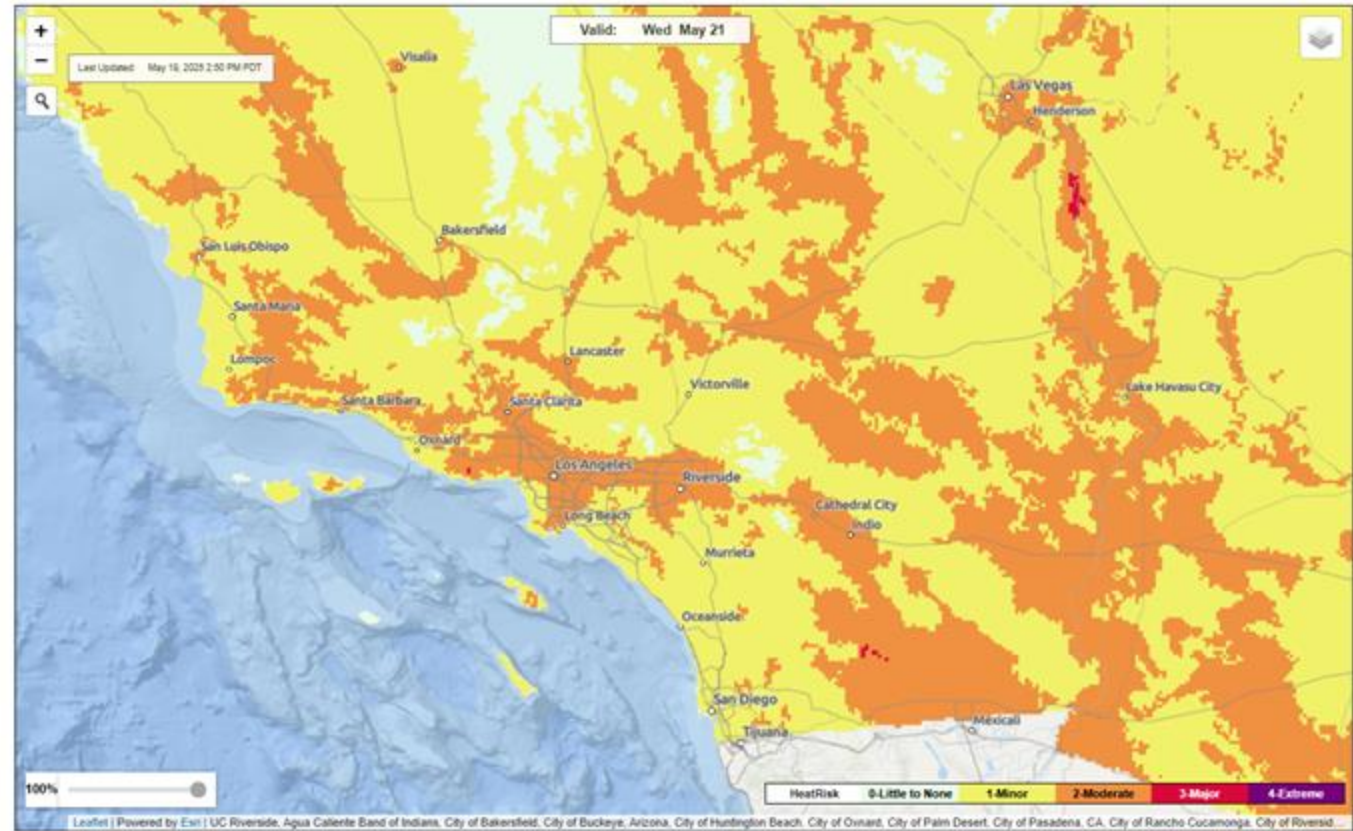
[Click map for potential heat risks and NWS forecast for a location.](#)

The NWS HeatRisk is an experimental color-numeric-based index that provides a forecast risk of heat-related impacts to occur over a 24-hour period. HeatRisk takes into consideration:

- How unusual the heat is for the time of the year
  - The duration of the heat including both daytime and nighttime temperatures
  - If those temperatures pose an elevated risk of heat-related impacts based on data from the CDC
- This index is supplementary to official NWS heat products and is meant to provide risk guidance for those decision makers and heat-sensitive populations who need to take actions at levels that may be below current NWS heat product levels.

Category	Risk of Heat-Related Impacts
Green 0	Little to no risk from expected heat.
Yellow 1	Minor - This level of heat affects primarily those individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
Orange 2	Moderate - This level of heat affects most individuals sensitive to heat, especially those without effective cooling and/or adequate hydration. Impacts possible in some health systems and in heat-sensitive industries.
Red 3	Major - This level of heat affects anyone without effective cooling and/or adequate hydration. Impacts likely in some health systems, heat-sensitive industries and infrastructure.
Magenta 4	Extreme - This level of rare and/or long-duration extreme heat with little to no overnight relief affects anyone without effective cooling and/or adequate hydration. Impacts likely in most health systems, heat-sensitive industries and infrastructure.

[Comments? Questions? Please Contact Us.](#)



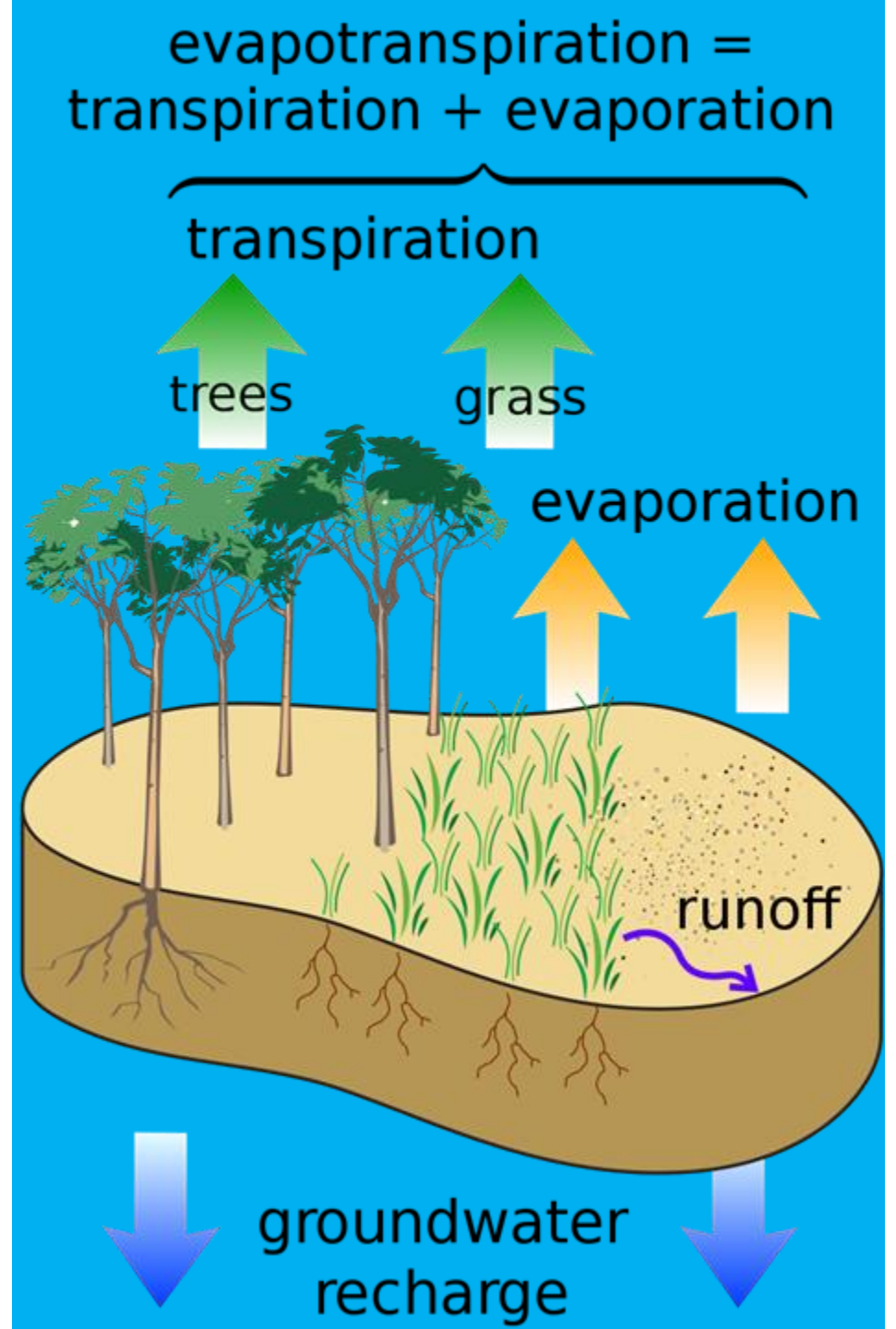
Heat Advisory

Extreme Heat Warning





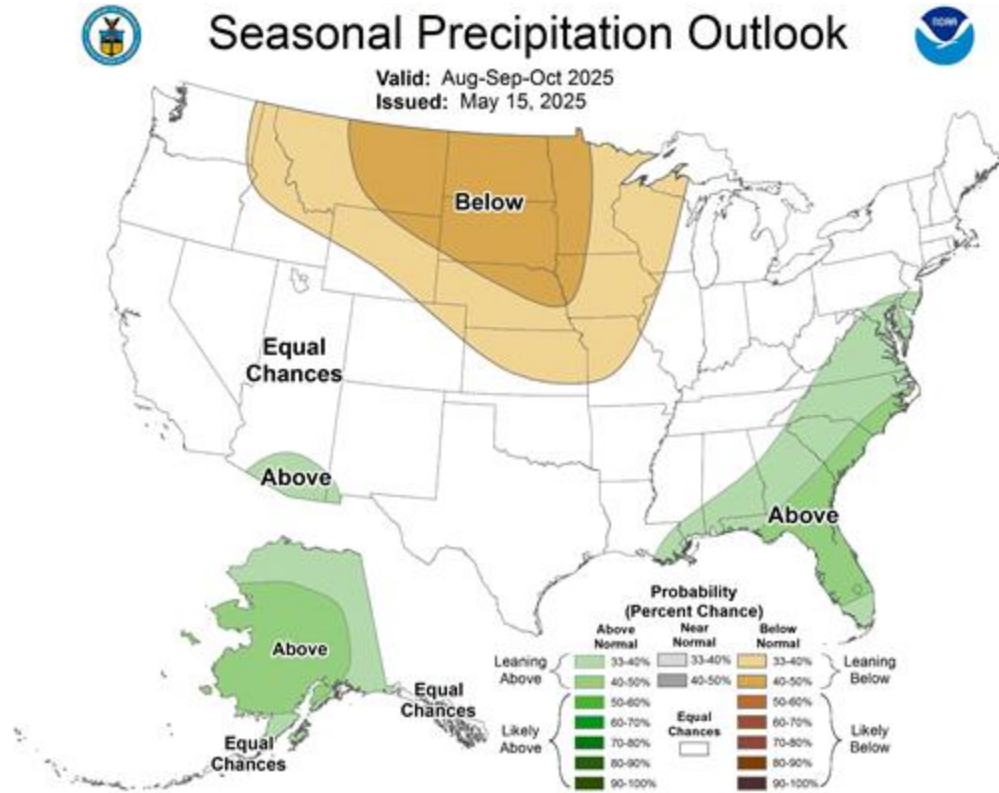
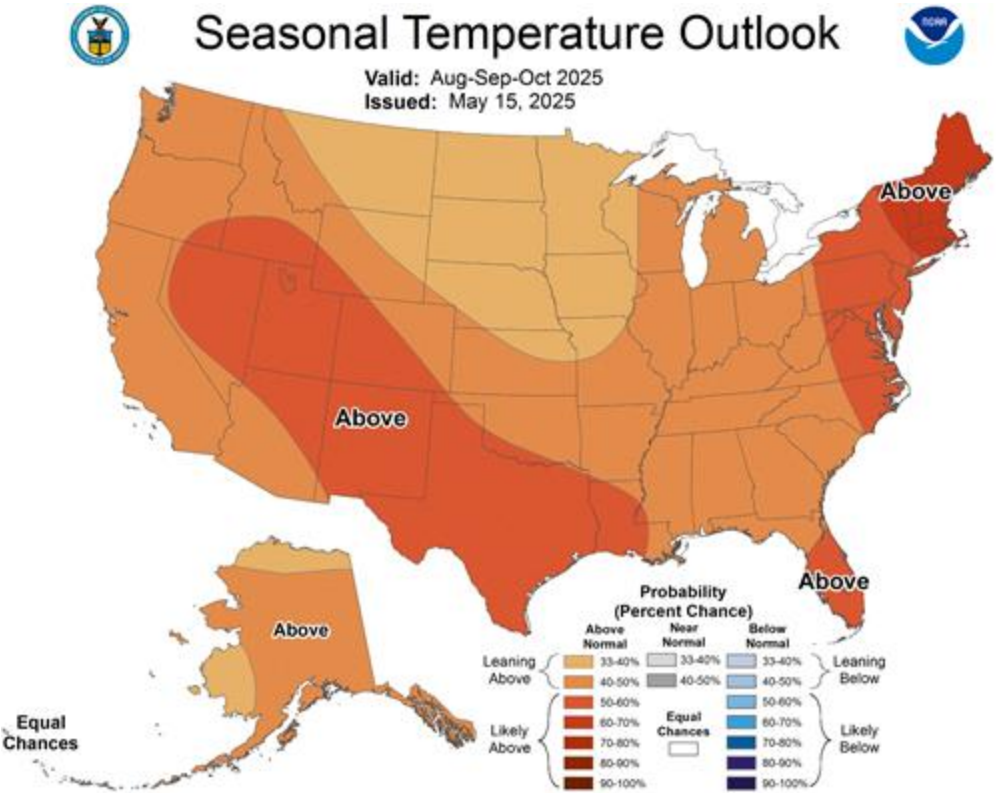
# Summer Heat Matters







# Fire Season Outlook



# Fire Season Current Conditions



**North Zone Operations**  
*Predictive Service Areas*





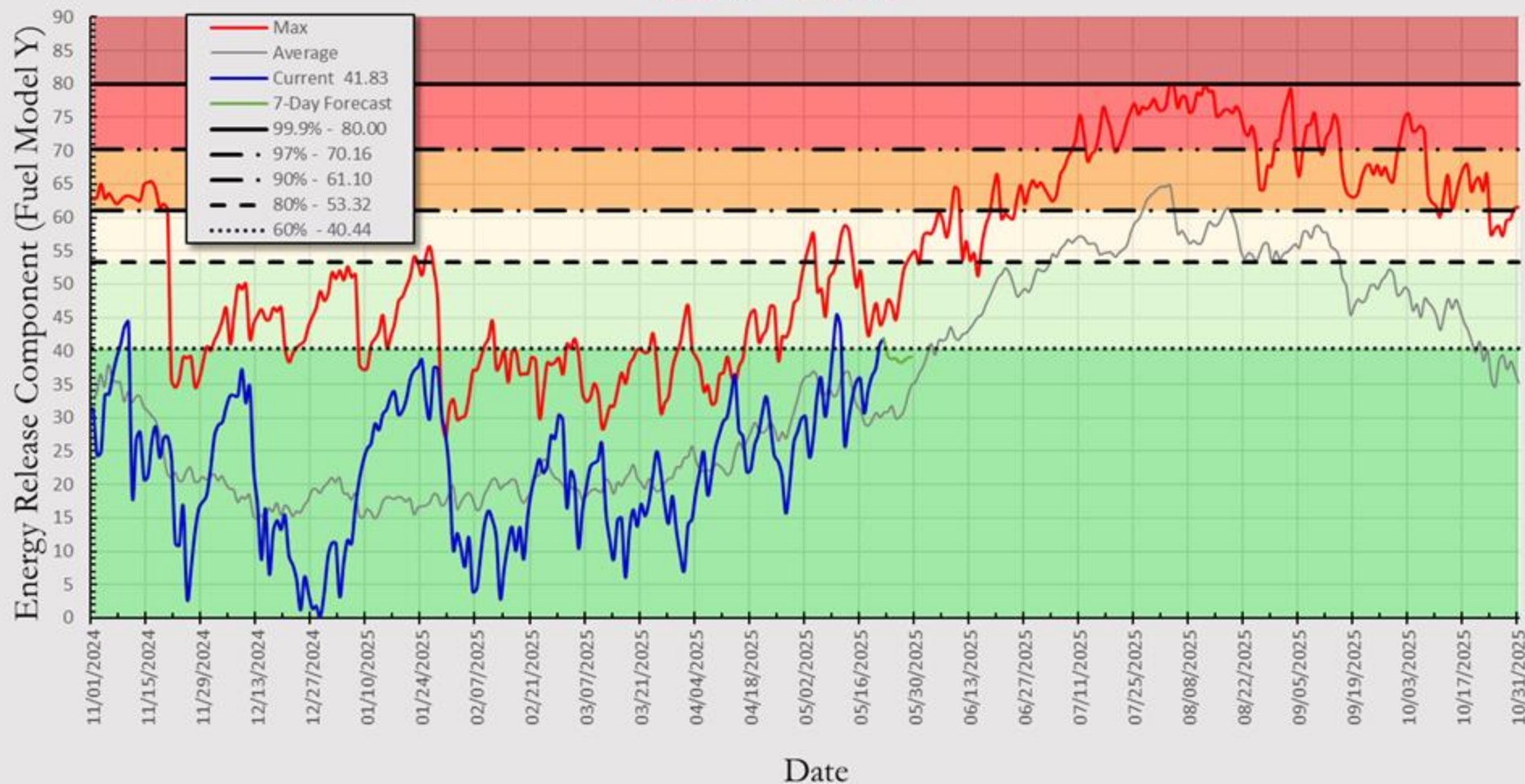
# Fire Season Current Conditions

Climatology Years: 2010-2021

NC03b v.4 - Diablo / Santa Cruz Mountains

Percentile Filter: 01/01-12/31

Valid Date: 05/22/2025







# Fire Season Outlook

## May - August 2025 North Ops Highlights

- April's weather patterns are expected to extend into May which means both cool-moist periods and warm-dry ones creating mixed temperature & precipitation anomalies.
- Expecting warmer and drier than normal conditions from June through August with sufficient Marine Layer influences near the Coast.
- Noticeable May curing of abundant herbaceous fuels combined with some dry-windy periods will increase the spread potential within the lower elevation Oak woodland environment, otherwise resistance barriers to spread will be found across the landscape.
- Heightened flash drought potential and impacts to both live & dead fuels likely this summer.
- **Significant Fire Potential is projected to be normal for May then trending near to above normal during June thru August favoring the interior or away from Coastal influences.**



Northern Operations

## **MONTHLY/SEASONAL OUTLOOKS**

ISSUED May 1, 2025    VALID May - August 2025



# Fire Season Outlook



# Fire Season Particularly Dangerous Situation (PDS)



National Weather Service  
San Francisco Bay Area/Monterey, CA



## Red Flag Warning: Particularly Dangerous Situation (PDS)

**Objective:** Highlight exceptional fire weather conditions (combination of meteorological and fuels) considered rare and/or especially impactful to the firefighting community

*PDS language included in the **first bullet** of the Red Flag Warning Product (RFBMTR) with **NO change** to headline*

- Not a new product
- Red Flag criteria unchanged
- Rare event (3 - 5 year interval of occurrence)
- May cover a portion of the Red Flag Warning area and/or duration
- Exact criteria may vary by region
- May be used by any California Weather Forecast Office

### **Diablo/North Wind Event**

Criteria (NWS Bay Area) Must coincide for  $\geq 8$  hours

- Sustained winds 30 mph
- Daytime minimum humidity less than 9% and/or nighttime humidity less than 30%
- 10-hour fuel moisture of less than 6% and no wetting rain (greater than 0.10 inch) has fallen in the past 24 hours.

@NWSBayarea  
[www.weather.gov/bayarea](http://www.weather.gov/bayarea)







# Fire Season Outlook

from  
**NWS San Francisco Bay Area**



## Extreme Fire Conditions

**Particularly Dangerous Situation**

Red Flag Warning  
through 6:00 PM Friday  
North Bay Interior Mountains

Extreme Risk – Take Action

Updated Thursday October 17, 2024

High potential for very rapid fire spread,  
long range spotting and life-threatening fire  
behavior with any new fire ignitions

- North Bay Interior Mountains
- Increasing wind gusts up to 65 mph
- Humidities in the single digits
- Very poor overnight humidity recoveries

- ⚠ Use extreme caution with any potential ignition sources
- 📢 Stay alert to the forecast and follow instruction from emergency officials



@NWSBayArea  
www.weather.gov/bayarea

minor

moderate

major

extreme

# Ocean and Beach Safety



Even when the air is **hot**,  
water can be **cold**!

Always wear a life vest

Even experienced swimmers can  
quickly lose muscle control

Cold water can kill



weather.gov

## Summer Water Hazards

Cold water

Rips

Tidal swings

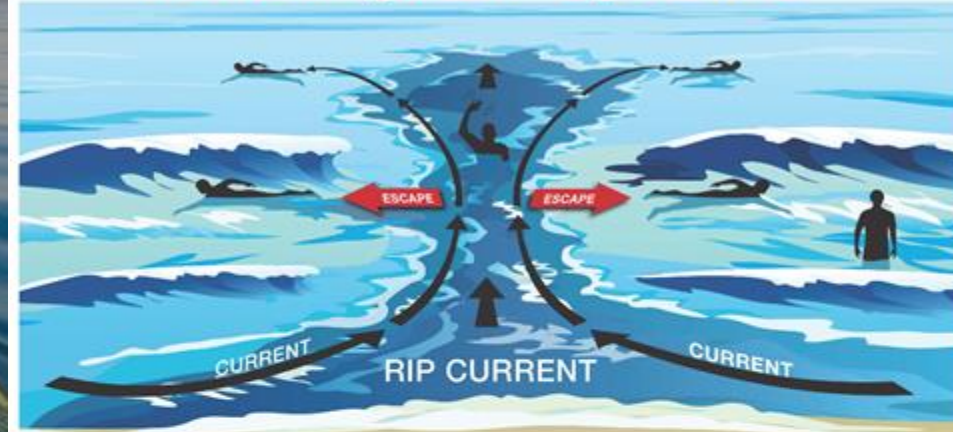
Large surf

Sneaker waves (ex. Santa Cruz)

Tsunamis

## RIP CURRENTS

Know your options



Rip currents are powerful currents of water moving away from shore. They can sweep even the strongest swimmer away from shore. If at all possible, swim near a lifeguard.

### IF CAUGHT IN A RIP CURRENT

- ◆ Relax, rip currents don't pull you under.
- ◆ Don't swim against the current.
- ◆ Swim out of the current, then to shore.
- ◆ If you can't escape, float or tread water.
- ◆ If you need help, yell or wave for assistance.

### SAFETY

- ◆ Know how to swim.
- ◆ Never swim alone.
- ◆ If in doubt, don't go out.
- ◆ Swim near a lifeguard.

More information about rip currents can be found at the following websites:

[weather.gov/safety/ripcurrent/](http://weather.gov/safety/ripcurrent/)  
[usla.org](http://usla.org)







# NWS Connect

Partner Management Solution

<https://partnerservices.nws.noaa.gov/registration/>



Partner Communication Channels

<https://partnerservices.nws.noaa.gov/registration/>



Tools for the  
Toolbox



## Windy conditions develop this weekend, moderate HeatRisk develops the middle of next week.

Good Morning Partners,

Breezy northerly winds will persist through Friday with the strongest winds over the coastal waters. Much stronger winds are expected to develop early Saturday and peak Saturday night and Sunday. Winds will be strongest over the coastal waters, coastal areas, and higher terrain. A burst of northerly/offshore flow will develop Sunday night and early Monday, but mainly over the interior North Bay. Minor HeatRisk continues through next week with the exception of Saturday where cooler weather develops. It's still a week out, but temperatures will warm the middle of next week pushing far interior locations into Moderate HeatRisk.

### KEY POINTS

- Windy conditions this weekend
- Moderate HeatRisk develops across the interior middle of next week

### CHANGES FROM PREVIOUS BRIEFING

First Issuance

### WEATHER RISK OUTLOOK

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence for a reasonable worst case scenario.

	Thu 5/15	Fri 5/16	Sat 5/17	Sun 5/18	Mon 5/19	Tue 5/20	Wed 5/21
North Bay Santa Rosa, Napa, San Rafael			Wind	Wind			Napa County Moderate HeatRisk
San Francisco Downtown SF			Wind	Wind			
SF Peninsula Half Moon Bay, San Mateo, SFO			Wind	Wind			
East Bay Oakland, Concord, Livermore			Wind	Wind			Interior East Bay Moderate HeatRisk
South Bay San Jose, Gilroy			Wind	Wind			
Santa Cruz County Santa Cruz, Boulder Creek, Corralito			Wind	Wind			
Monterey & San Benito County			Wind	Wind			8 Salinas Valley Moderate HeatRisk

Risk Levels

Little to None

Minor

Moderate

Major

Extreme

# Tools for the Toolbox



# Tools for the Toolbox



@NWSBayArea



# Tools for the Toolbox

## Other web resources

[weather.gov/bayarea](https://weather.gov/bayarea)

[weather.gov/forecastpoints](https://weather.gov/forecastpoints)

[www.wpc.ncep.noaa.gov/heatrisk/](https://www.wpc.ncep.noaa.gov/heatrisk/)

[www.weather.gov/safety/heat-hazards](https://www.weather.gov/safety/heat-hazards)

[cpc.ncep.noaa.gov](https://cpc.ncep.noaa.gov)

[gacc.nifc.gov/oncc/](https://gacc.nifc.gov/oncc/)





# NWS SF Bay Area 2025 Summer and Fire Season Outlooks



Image: happeningsonomacounty.com

Presented by: *Warning Coordination Meteorologist - [brian.garcia@noaa.gov](mailto:brian.garcia@noaa.gov)*

**Questions?**





# Extreme Heat Services and Resources



**Jackie Koci Tamayo**

Santa Clara County Office of  
Emergency Management



**Shana Kurlan**

Santa Clara County Office of Supportive  
Housing





# COUNTY OF SANTA CLARA EXTREME HEAT ACTIVATION



Jackie Koci Tamayo, Senior Emergency Planning Coordinator  
Office of Emergency Management

Shana Kurlan, Program Manager – Emergency Response  
Office of Supportive Housing

# ROLE OF THE OFFICE OF EMERGENCY MANAGEMENT

OEM enhances community resilience by coordinating and integrating all activities to build, sustain, and improve the capability to:

- Prevent
- Mitigate against
- Prepare for
- Respond to
- Recover from

threatened or actual natural disasters, acts of terrorism, or other human-made disasters.

These efforts aim to minimize the impact of emergencies and protect lives, property, and the environment—while ensuring equity by addressing Access and Functional Needs (AFN) and incorporating cultural competency throughout all phases of emergency management.





# OEM

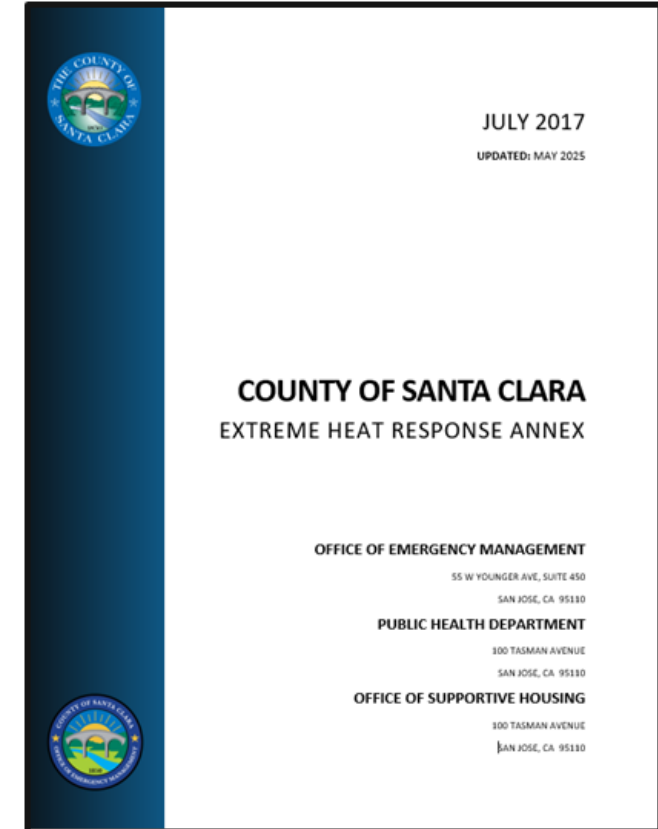


- PROVIDE SUPPORT
- PLAN
- COORDINATE
- COMMUNICATE
- COLLABORATE
- ACCESS AND  
FUNCTIONAL NEEDS



# EXTREME HEAT ANNEX

- **Coordinated Response Framework:** Outlines a countywide strategy for mitigating, preparing for, responding to, and recovering from extreme heat events through coordinated efforts across departments and partner agencies.
- **Equity and Access Focus:** Emphasizes protection of vulnerable populations by integrating Access and Functional Needs (AFN), cultural competency, and whole community principles into all phases of planning and response.
- **Cooling Center Operations and Public Information:** Provides detailed guidance for identifying, activating, and operating cooling centers, including pet accommodations, staffing needs, and public messaging during heat emergencies.



# ACTIVATING THE ANNEX

- Office of Supportive Housing (OSH) staff along with the Office of Emergency Management (OEM) Duty Officer monitor weather briefings from NWS to determine whether the forecasted HeatRisk will meet triggers to activate the Heat Annex
  - Operational Area (OA) Calls are scheduled, public notifications are sent, and cooling centers are established when communities within the County are expected to experience HeatRisk Values at levels Red (Major) or Magenta (Extreme)

Category	Risk of Heat-Related Impacts
Green 0	Little to no risk from expected heat.
Yellow 1	Minor - This level of heat affects primarily those individuals extremely sensitive to heat, especially when outdoors without effective cooling and/or adequate hydration.
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Magenta 4	Extreme - This level of rare and/or long-duration extreme heat with little to no overnight relief affects anyone without effective cooling and/or adequate hydration. Impacts likely in most health systems, heat-sensitive industries and infrastructure.

# COOLING CENTERS

- During heat activations, the Office of Supportive Housing (OSH) requests that County Libraries open as Cooling Centers during their business hours
- Cooling Center location and hour information is updated as information is received on the Office of Emergency Management (OEM) website:  
<https://oem.santaclaracounty.gov/disaster-preparedness/hot-weather-safety>
  - OEM also posts Cooling Center information provided by the jurisdictions within the County
  - Locations and hours are added in real time as information becomes available



# VTA RIDES TO COOLING CENTERS



- For activations lasting longer than 48 hours, OSH requests free rides on VTA buses and light rail for folks traveling to cooling centers.
- Availability of free rides is shared through AlertSCC messaging, social media, and press releases.

# OTHER RESOURCES

- OSH asks our contracted providers and network of volunteer advocates to conduct additional outreach in encampments prior to and during extreme heat activations (when it is safe to do so).
- Providers and advocates distribute water and supplies (including tents, tarps, electrolyte powder, cooling towels, ice packs, and more) and provide information such as cooling center location and availability of VTA rides.





Questions?



# Impacts of extreme heat on the unhoused

**Pablo Diaz**

Downtown Streets Team



# **Staying Safe and Supported:**

## Summer Outreach with Downtown Streets Team (DST)

*A Look At DST's Collaboration,  
Summer Safety, and Support Needs*

---

Hosted by: Pablo Diaz Jr  
Case Manager



# **Downtown Streets Team is a Non-Profit Organization that fights homelessness through dignity of work and the power of community.**

---

- ✓ Empowering unhoused and low-income individuals through community beautification and job readiness
- ✓ Active across the Bay Area and California
- ✓ Mission: Ending Homelessness by changing the Perception of Homelessness through the dignity of work





# Working with Santa Clara County Office of Supportive Housing

---

- ✓ Close collaboration with County Office of Supportive Housing
- ✓ Align efforts with county-wide homelessness strategies
- ✓ Participate in local encampment response coordination

# Summer Safety for Unhoused Communities

## Heat & Air Quality Preparedness:

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- ✓ Cancel volunteer shifts during extreme heat or poor air quality (AQI)
- ✓ Educate team members on symptoms of heat exhaustion and how to stay safe

# Summer Outreach & Fire Prevention

---

- ✓ Distribute hygiene kits to team members
- ✓ Work with local partners to reduce fire risk:
  - *Clear brush along Guadalupe River & creeks*
  - *Collaborate with local fire departments*
- ✓ Share community resources like free museum access for EBT users (heat-safe indoor activities)





# **Resources**

- Resource referrals from local nonprofits & outreach partners.
- Museums, libraries, and cooling centers are critical summer resources.
- All kits and supplies are donation-driven.

## **Donation-Based Hygiene Kit Essentials:**

- Reusable water bottles
- Socks, hats, cooling towels Sunscreen, lip balm
- Electrolytes
- Shampoo, deodorant, soap
- Toothbrush & toothpaste

# Impact of Our Community Support

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- Keeps unhoused neighbors safe and healthy
- Builds trust and connections
- Enables dignity and empowerment
- Helps transition team members into employment and housing

Thank You + Q&A

Let's Work Together to Keep Our Community Safe

Contact: [Pablo@streetsteam.org](mailto:Pablo@streetsteam.org)

Website: [www.streetsteam.org](http://www.streetsteam.org)



**Questions?**





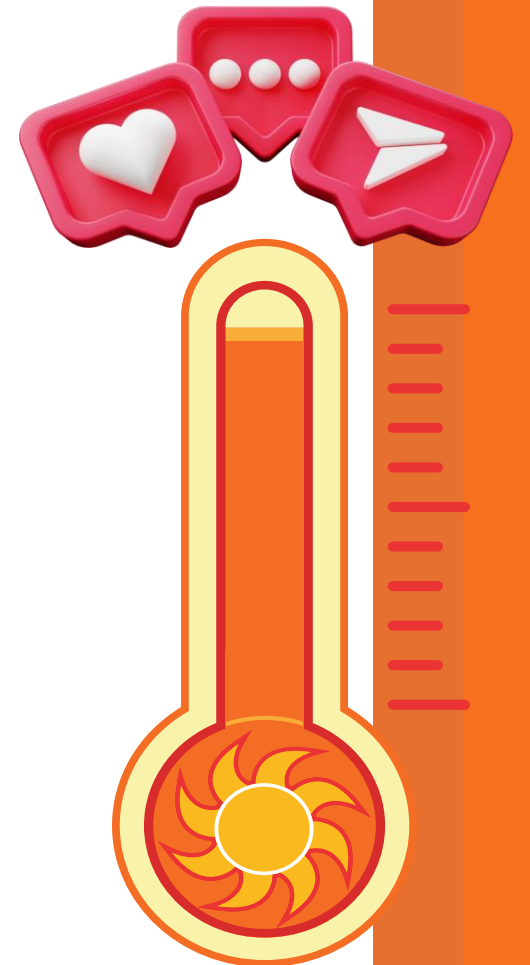
# We are recruiting Heat Ambassadors!

Campaign partners can amplify our heat safety messaging to the community.

## How it works:

- We provide you with ready-to-post images and messages that you can share on your social media or through community outreach channels.
- You help spread the word and keep people safe.

Register to be a heat ambassador  
at [tinyurl.com/HeatSafeSCC](https://tinyurl.com/HeatSafeSCC)



# Take the HAQR Survey!

**Due June 11**

Your feedback will help shape future sessions and improve overall participant engagement and resource sharing.

# GROUP INFO SHARE

Take this opportunity to connect with other working group members to share program updates, request feedback, share opportunities, or just ask questions!

Raise Hand or Chat to share







Please enter the code

5123 2347

Submit

The code is found on the screen in front of you

Powered by Mentimeter [Terms](#)

AA

🔒 menti.com



# Feedback Survey

- Visit Menti.com
- Enter Code: 5123 2347 to provide your input



# Thank you!

Co-Chairs

**C.J. Gabbe**

Santa Clara University  
cgabbe@scu.edu

**Marsha Hovey**

CADRE  
marsha@cadresv.org

Staff

**Tonya Veitch**

Public Health Department  
tonya.veitch@phd.sccgov.org

**Damicela Killeen**

Public Health Department  
damicela.killeen@phd.sccgov.org

## Next Quarterly Meeting

August 27, 2025  
10:30am – 12:00pm