



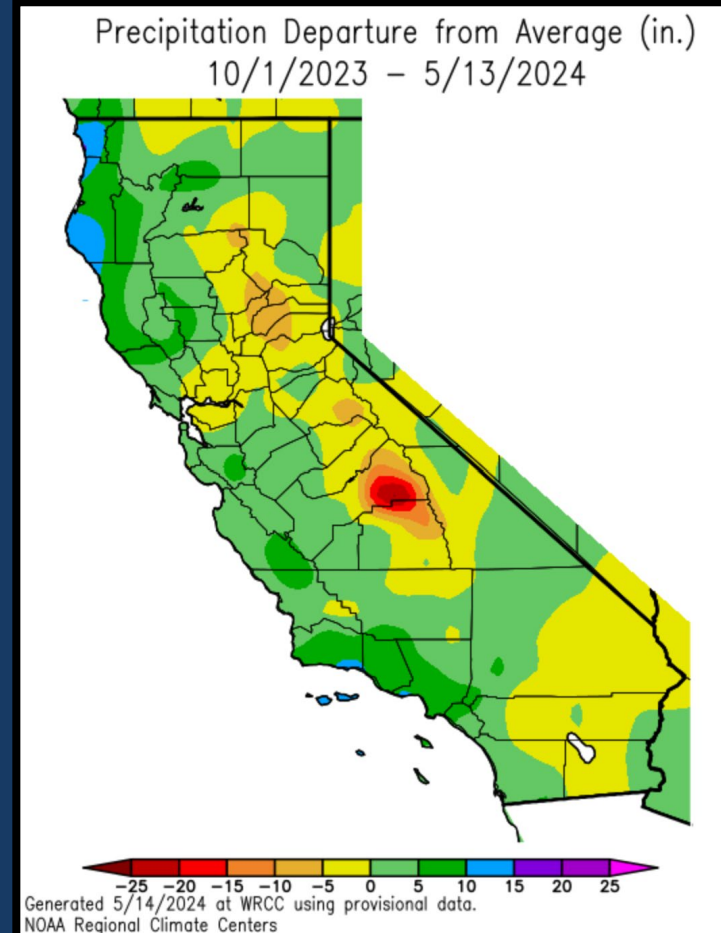
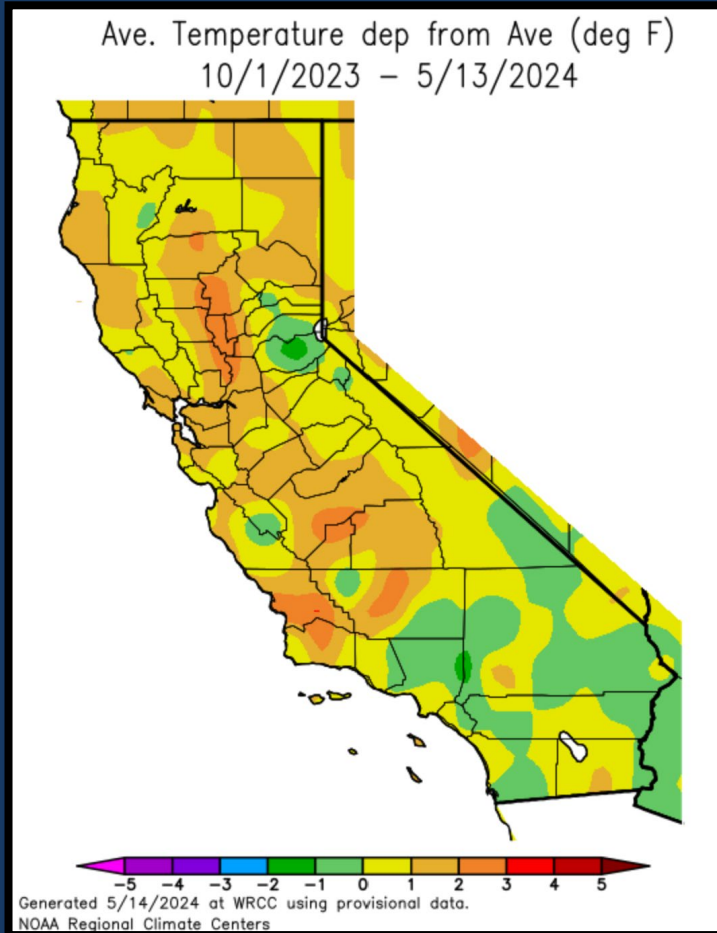
California Seasonal Outlook

May – August 2024

RC West Summer Readiness

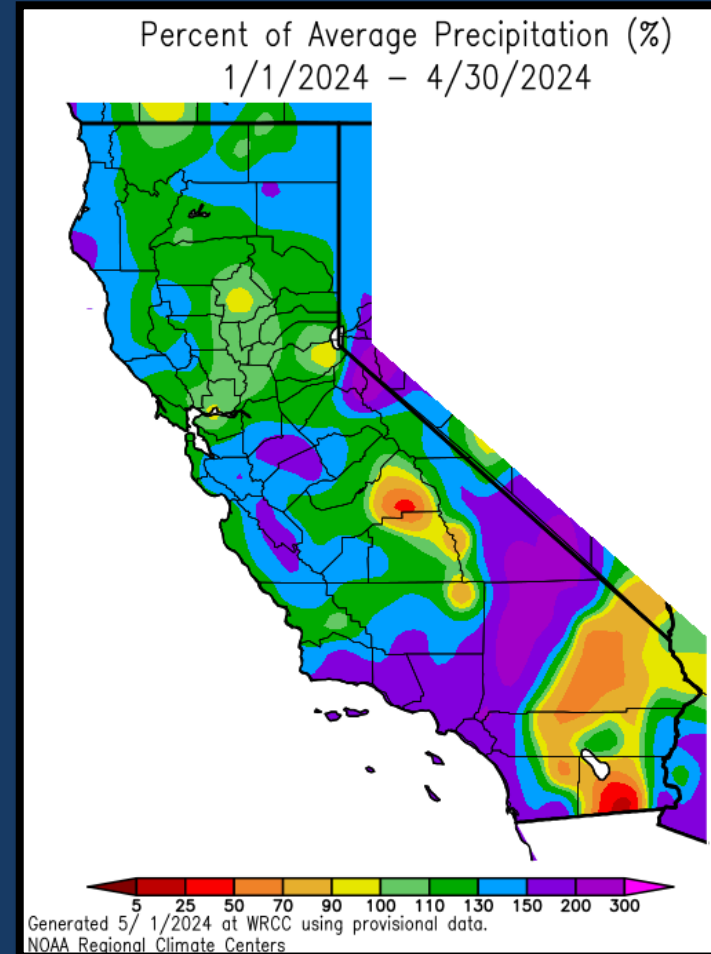
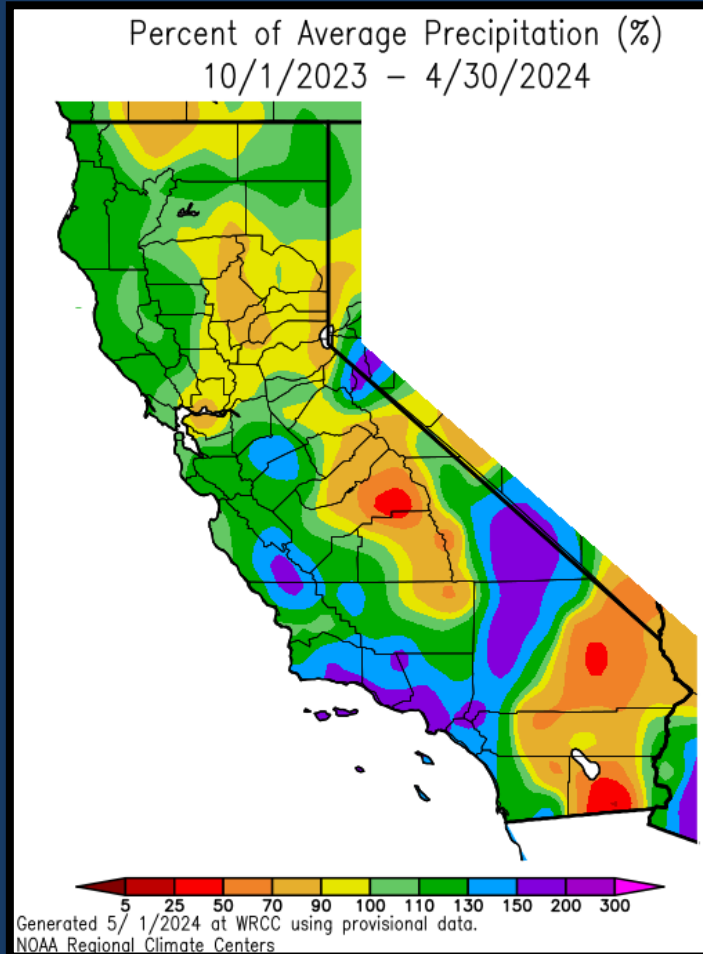


Weather Discussion: Temperature & Precipitation



- April weather patterns were variable with both some warm stretches and short periods of cooler, wet days.
- The Central Coast region received above average precipitation for the month of April, while much of the state was drier than normal.
- Temperatures remained slightly below normal for most of Southern California and mostly near to above normal in Northern California.

Weather Discussion: Water Year



- A slower start to the wet season has portions of the Sierra Nevada, Central Valley and Southern desert regions below average for the Water Year.
- South Lake Tahoe area is 76% of average for April 30
- Since January 1, most regions of the state have received normal to above normal percent of average precipitation

Precipitation

Source: [CalClim: California Climate Data Archive \(dri.edu\)](https://calclim.org/)

Weather Discussion: Snowpack

CURRENT REGIONAL SNOWPACK FROM AUTOMATED SNOW SENSORS

% of April 1 Average / % of Normal for This Date



Statewide Average: 61% / 102%

NORTH	
Data as of May 10, 2024	
Number of Stations Reporting	18
Average snow water equivalent (Inches)	25.0
Percent of April 1 Average (%)	81
Percent of normal for this date (%)	144

CENTRAL	
Data as of May 10, 2024	
Number of Stations Reporting	24
Average snow water equivalent (Inches)	18.3
Percent of April 1 Average (%)	64
Percent of normal for this date (%)	103

SOUTH	
Data as of May 10, 2024	
Number of Stations Reporting	27
Average snow water equivalent (Inches)	8.5
Percent of April 1 Average (%)	39
Percent of normal for this date (%)	68

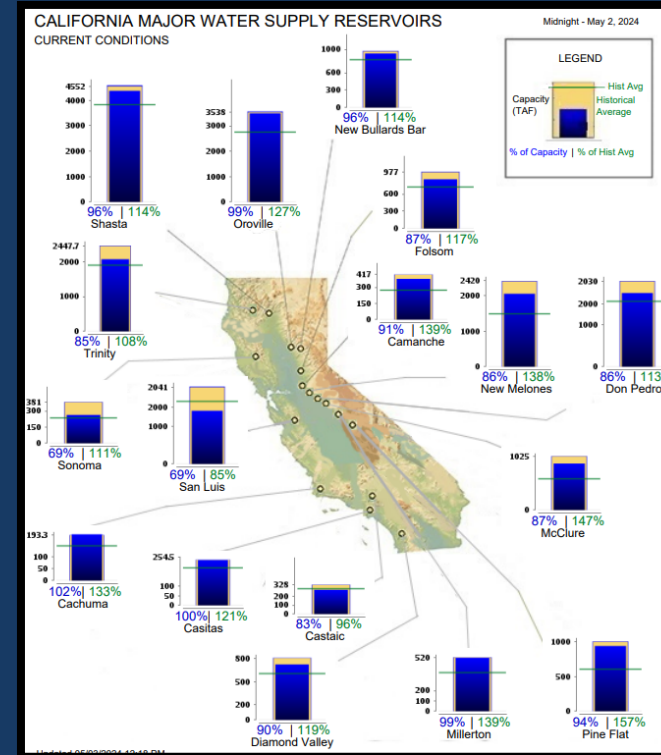
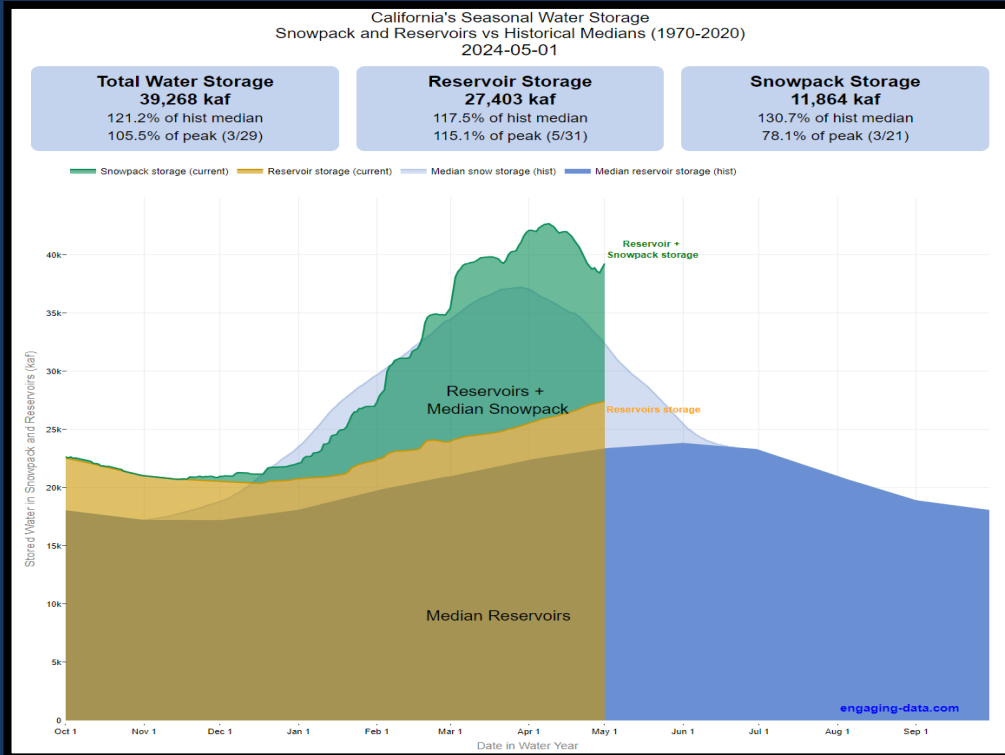
STATE	
Data as of May 10, 2024	
Number of Stations Reporting	69
Average snow water equivalent (Inches)	16.2
Percent of April 1 Average (%)	61
Percent of normal for this date (%)	102

- El Niño influenced warmer storms leading to elevated snow lines early-on in winter.
- The snowpack was at 35% of normal in January before colder storms arrived allowing it to reach 'normal' levels.
- California ended up at 102% of its snowpack average for May 10.

Snowpack

Source: [Snow Pack Conditions - Snow Water Content Chart \(ca.gov\)](https://www.ca.gov/snowpack/)

Weather Discussion: Reservoir Storage

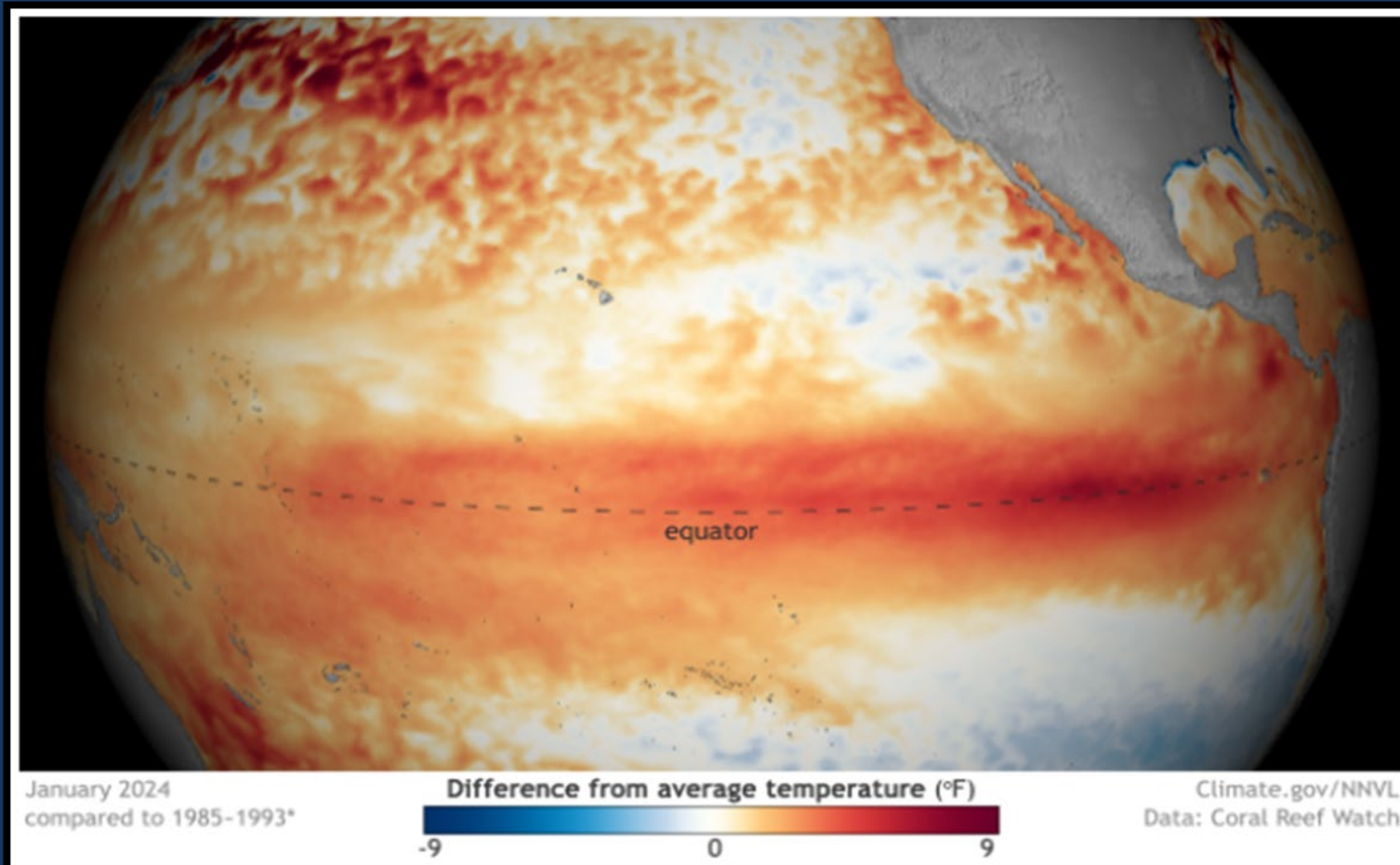


- Reservoirs were in good shape at the start of the rainy season
- Plenty of runoff through the winter and seasonable snowpack assure good water storage

Reservoir Status

Source: [Visualizing California's Water Storage - Reservoirs and Snowpack - Engaging Data \(engaging-data.com\)](https://engaging-data.com/visualizing-california-water-storage-reservoirs-and-snowpack/)

Weather Discussion: Exit El Niño, Enter La Niña

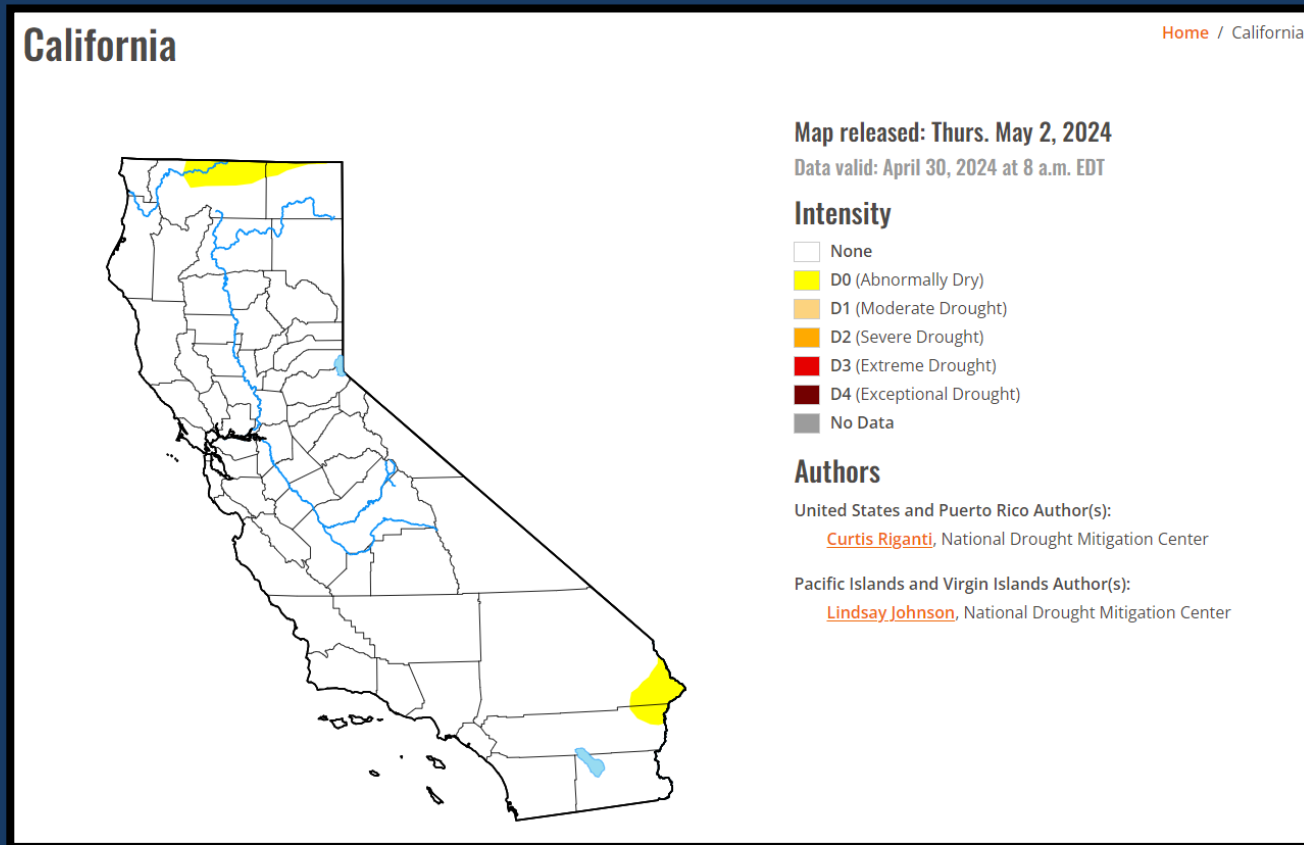


- The El Niño-Southern Oscillation (ENSO) El Niño pattern is shifting to an ENSO-neutral status
- The odds of a La Niña pattern developing in June - August is 55%
- La Niña implies a drier California

El Niño

Source: : [El Niño & La Niña \(El Niño-Southern Oscillation\)](#) | NOAA Climate.gov

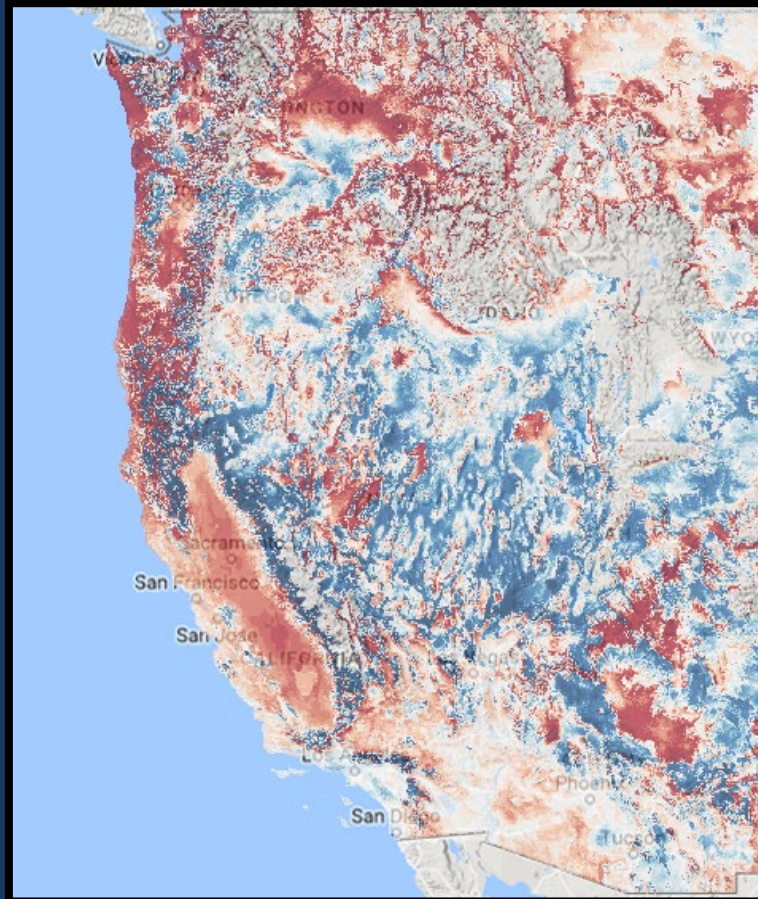
Weather Discussion: Drought Monitor



- Tropical moisture in the summer of 2023 along with the ‘normal’ winter has left only 2.7% of the State “Abnormally Dry”
- Potential areas for drought spread are the Northern Mountains, Modoc Plateau, and Sierra Nevada.

Status of Spring 2024

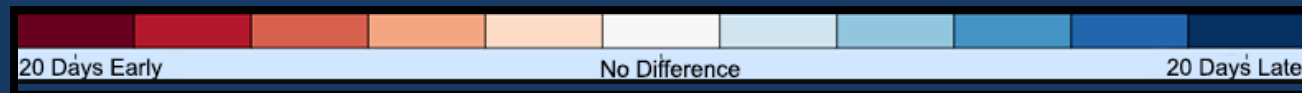
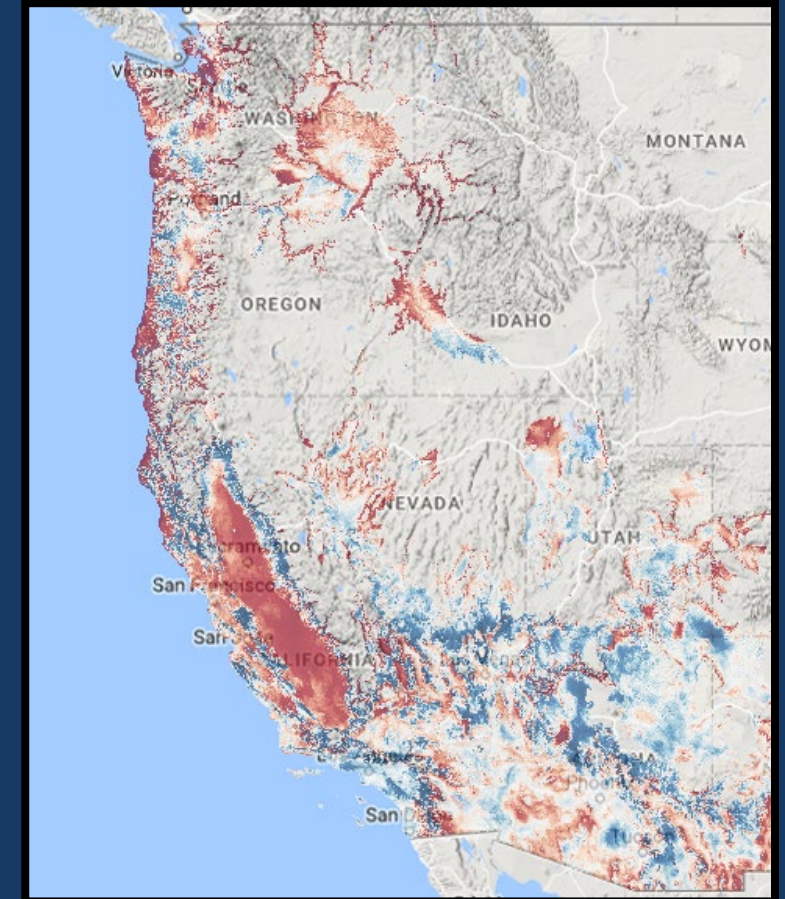
Spring Leaf Index



How does this spring compare to “normal”?

- The Sacramento Valley and coastal areas of Northern California are seeing the earliest spring leaf out on record.

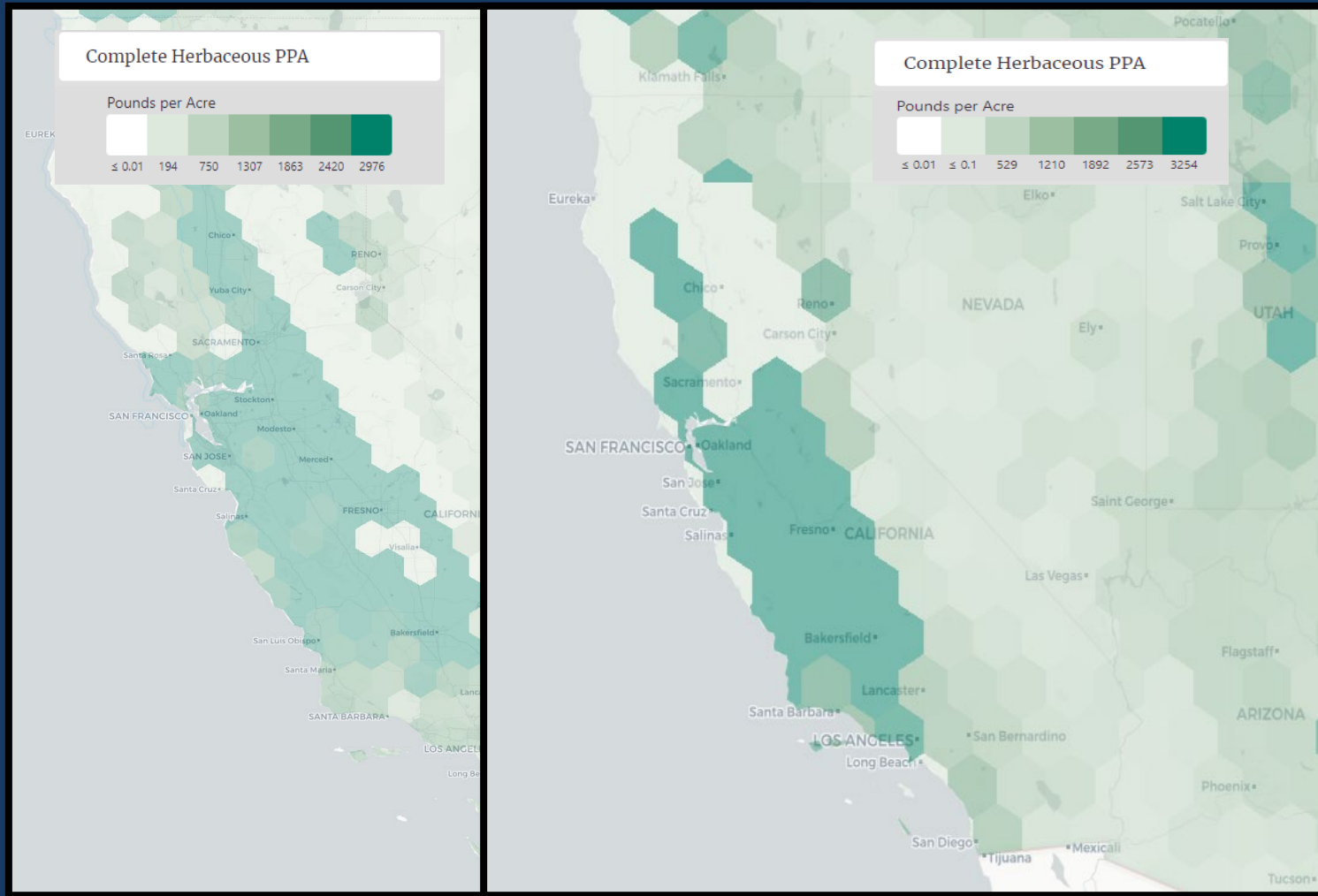
Spring Bloom Index



USA National Phenology Network

Source: [Status of Spring](https://usanpn.org/status-of-spring) | [USA National Phenology Network \(usanpn.org\)](https://usanpn.org)

Fuels Discussion: 2024 Grass Fuel Loading



- Nearly average herbaceous growth in Central California
- Grass fires will remain prevalent with rate of spread more consistent with historic rates once cured

Fuels Discussion: Herbaceous Growing, Drying Soon



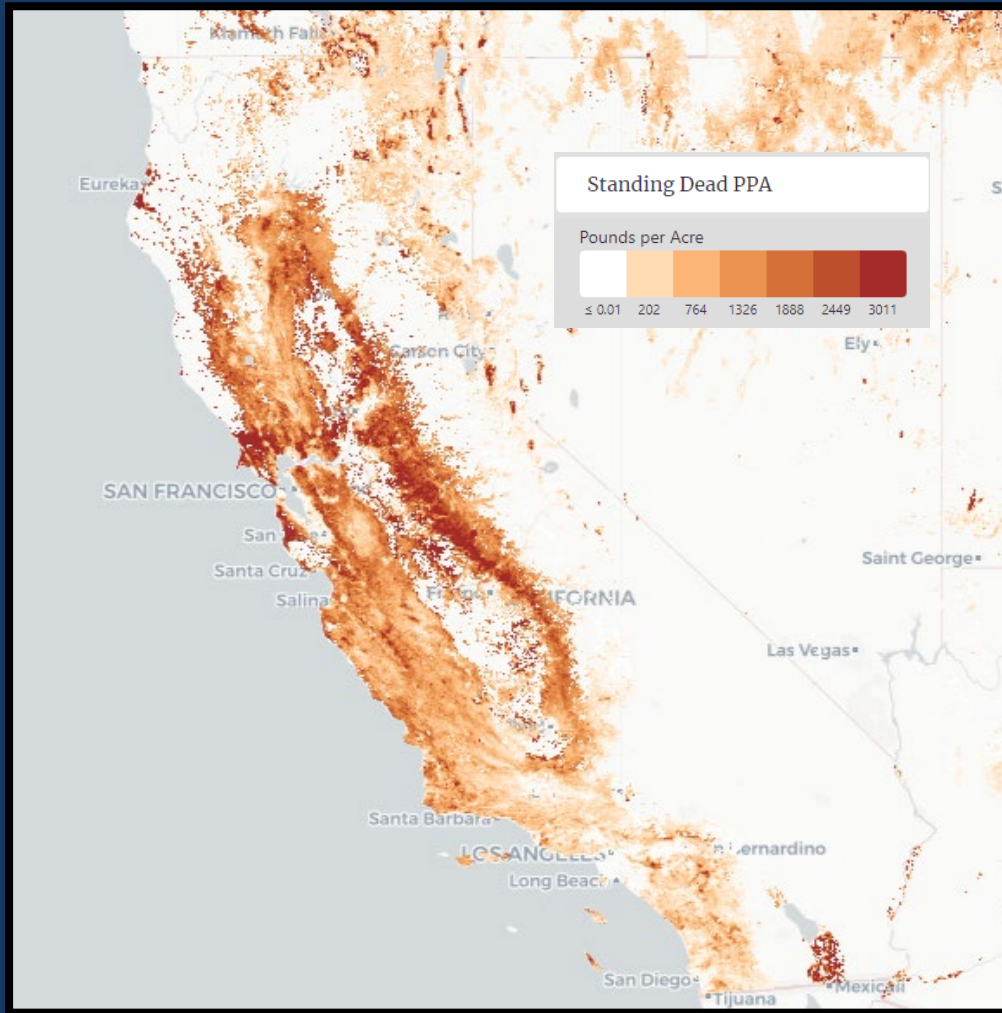
- Annual grasses are in full flush of growth below 6,000' elevation
- San Joaquin Valley grasses cured quickly on southerly slopes and beginning on northern exposures
- Sacramento Valley grasses curing where soils are thinner and with southern exposure

Fuels Discussion: Shrub and Tree Live Fuels



- Green-up of woody vegetation well under way below 4,000-ft; live fuel moistures trending above normal with high soil moisture levels
- Heavier live fuels should retain enough moisture to resist fire spread through June
- Favorable prescribed fire condition predicted

Fuels Discussion: 2023 Grass Fuel Load Remain



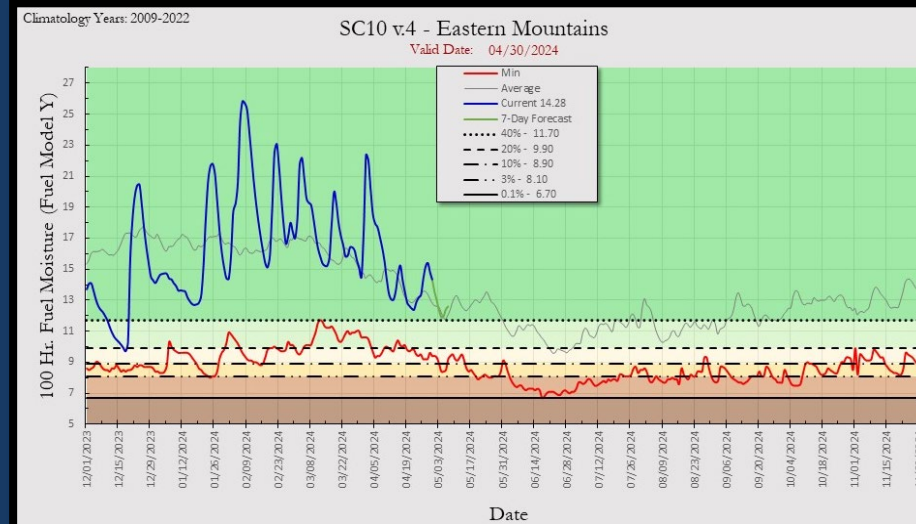
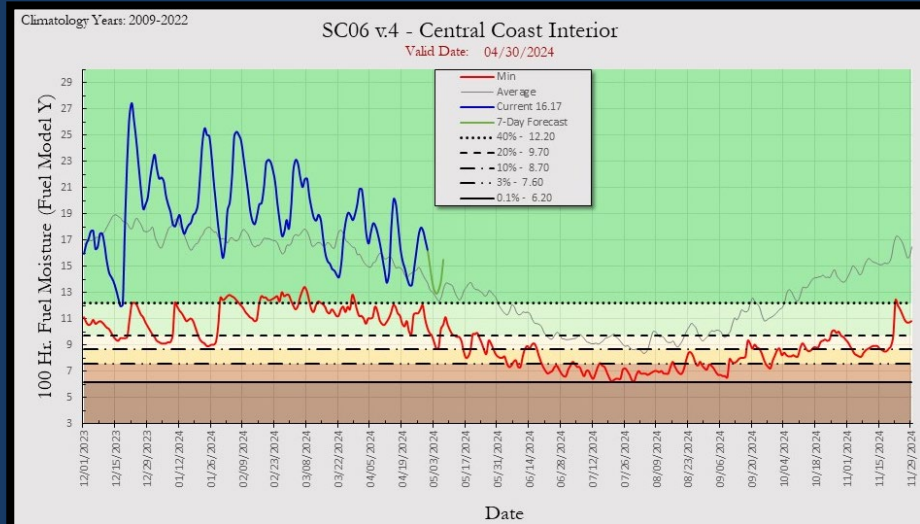
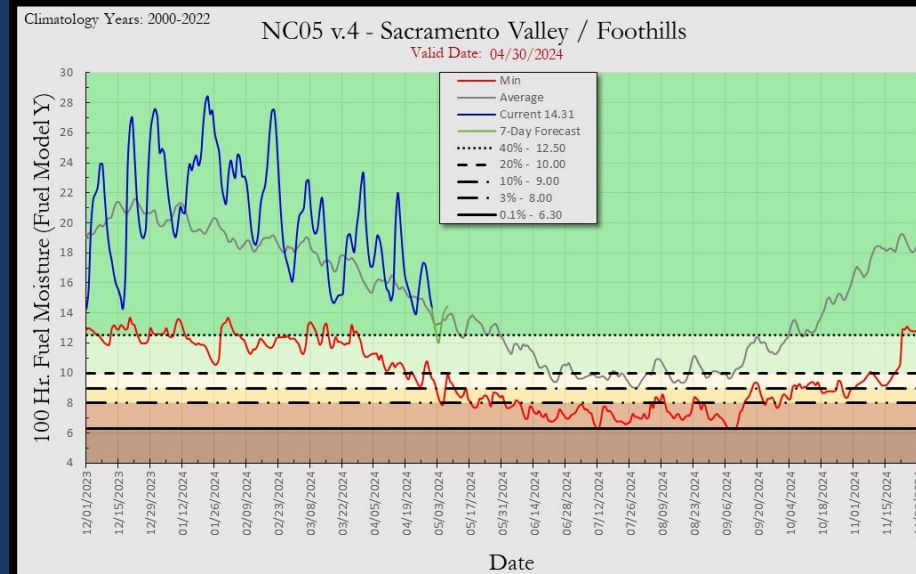
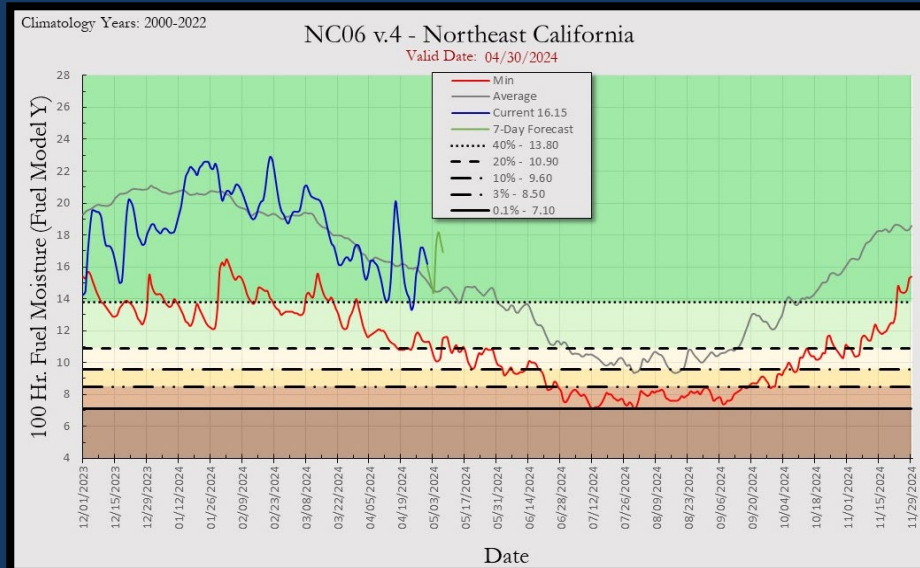
- Last year's herbaceous loading exacerbates this year's fuels as the compacted material creates a receptive fuel bed to carry and maintain fire
- User defined modifications to the grass fuel categories may be necessary for fire spread modeling in early summer

Fuels Discussion: Accumulated Fuel Loading



- Storm damage from last year has had a year to cure and compact
- Dead and Down vegetation still available fuel for 2024

Fuels Discussion: 100-hour Dead Fuels



- 100-hr fuels moistures are near or above seasonal averages
- Fuels conditions should provide time for prescribed burning

100-hour Dead Fuels

Source: [Predictive Services, Fuels and Fire Danger \(nifc.gov\)](https://nifc.gov/predictive-services/fuels-and-fire-danger)

Four-month Significant Fire Potential

May – August 2024 California Highlights

- Timely cool/moist intrusions in the form of showers or higher humidity due to dominant onshore flow are expected for the next four months as El Niño is weakening (+1° C) and trending to a neutral state
- Problematic lightning is expected to be less this summer due to a more subdued North American Monsoon and less East Pacific tropical influences with a developing La Niña
- North Pacific originating lightning activity less problematic without heat

Four-month Significant Fire Potential

May – August 2024 California Highlights

- With a developing La Niña in the summer, it favors a warmer and drier period especially with sea surface temperatures cooling in the Gulf of California that lessen the chance of convection forming and moving into the Four Corners region
- The prescribed fire burn window for larger projects should be favorable the rest of the spring into July as dead and live fuel moistures will remain well above normal

Four-month Significant Fire Potential



Four-month Significant Fire Potential

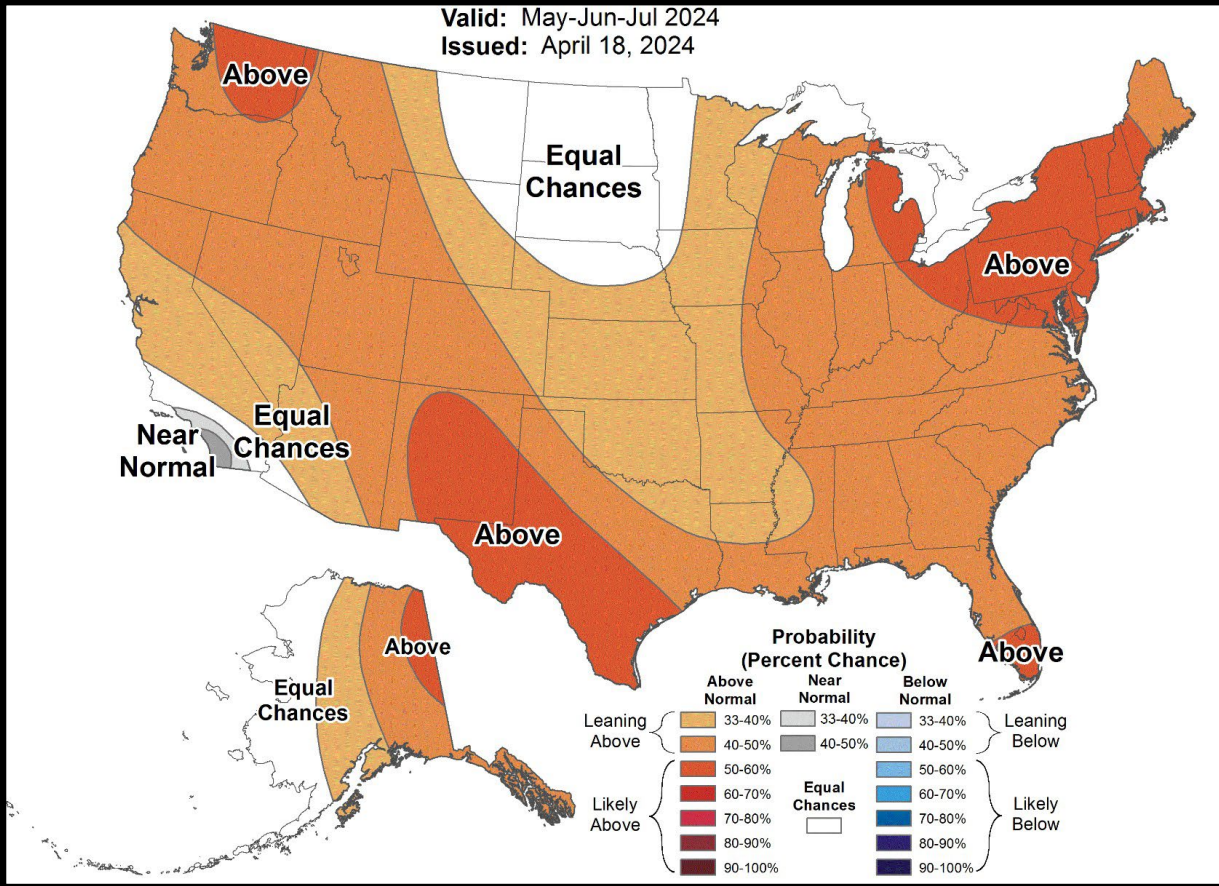


Predictive Services Areas July & August 2024

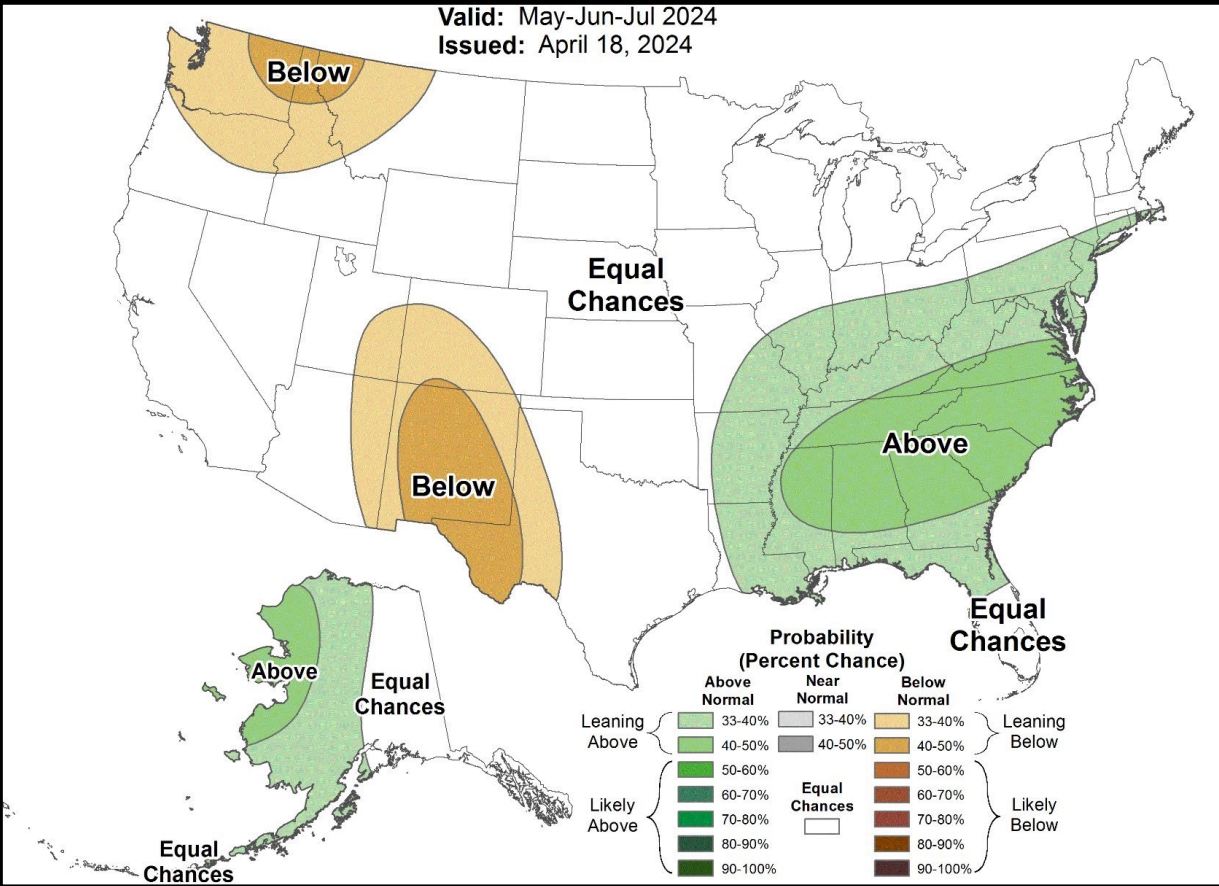
Source: [National Significant Wildland Fire Potential Outlook \(nifc.gov\)](https://www.nifc.gov)

California Outlook

Temperature Seasonal Outlook



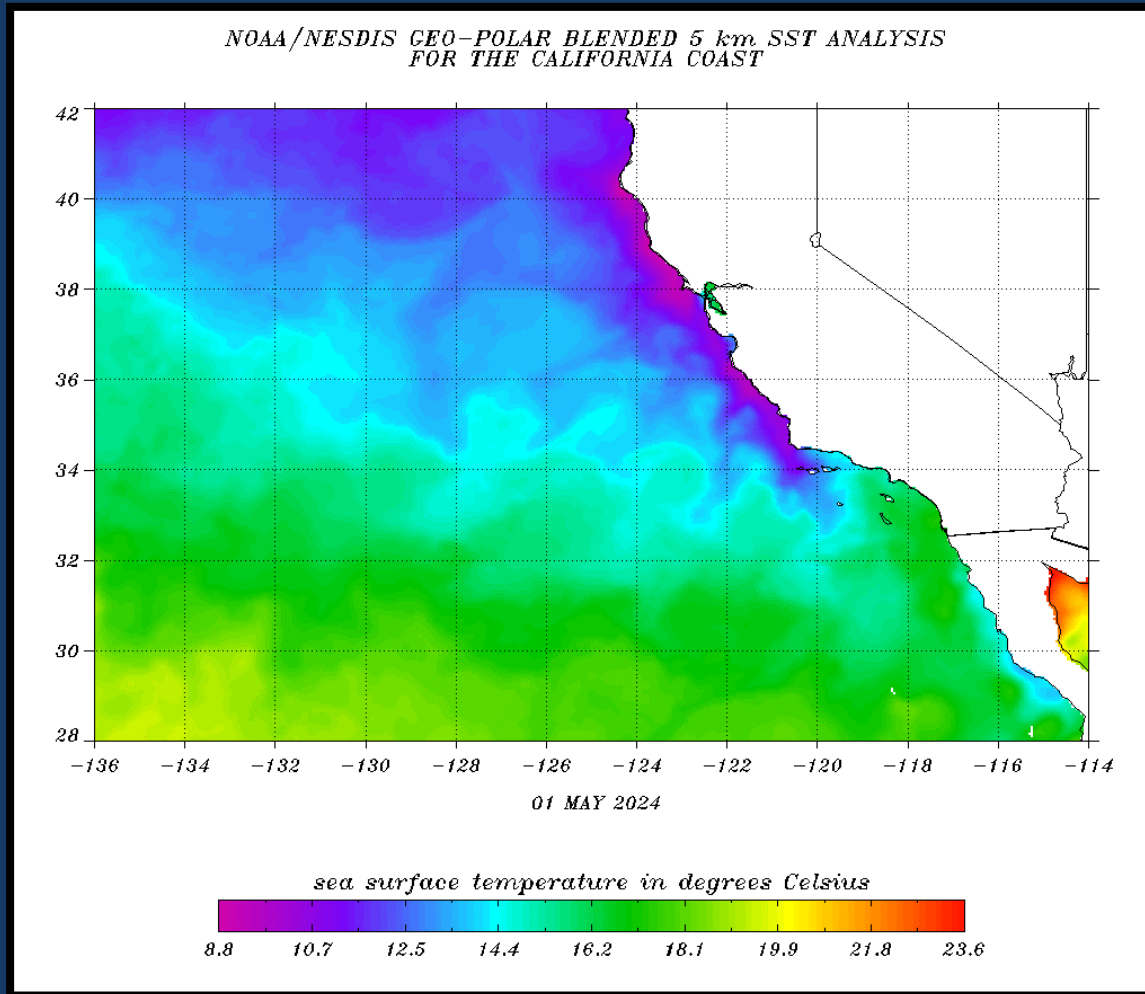
Precipitation Seasonal Outlook



Four-month Temperature & Precipitation Outlook

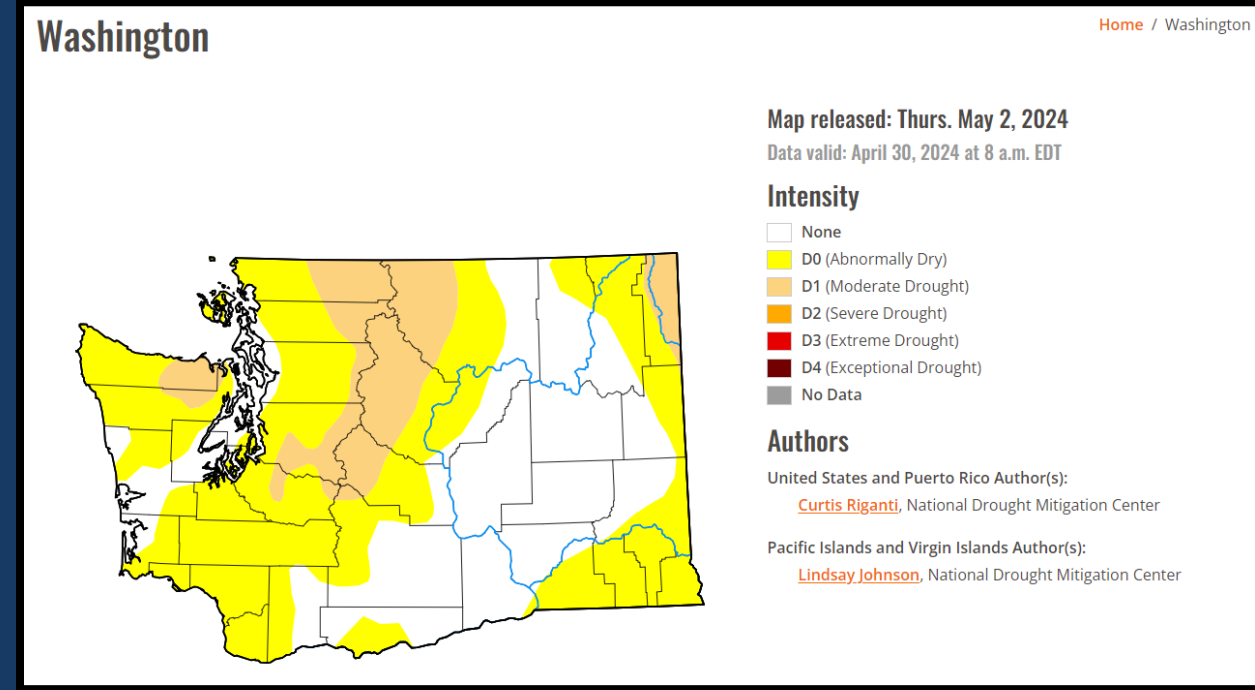
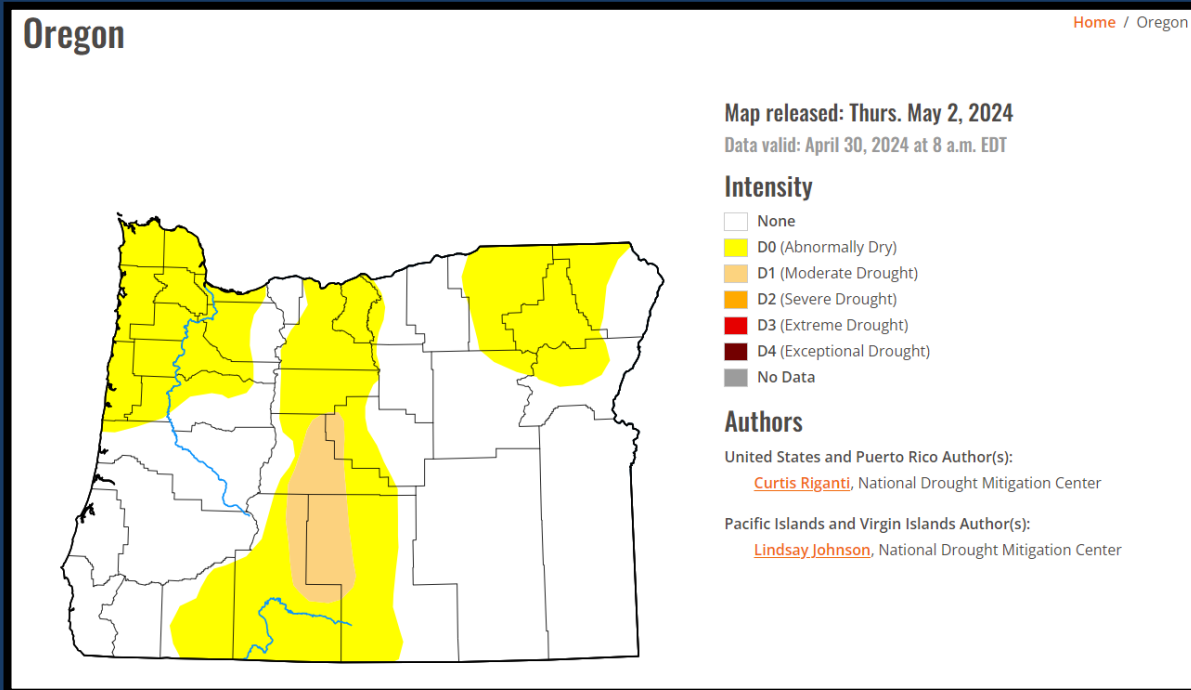


California Outlook



- Cooler sea surface temperatures are progressing down the California coast setting up seasonal fog formation
- Periods of cooler air with moisture continue through Spring before drier air associated with La Niña arrives with summer

Weather Discussion: Drought Monitor



- Drought conditions remained mostly unchanged in comparison to 2023.
- Abnormally dry to moderate drought in many portions of Oregon and Washington.

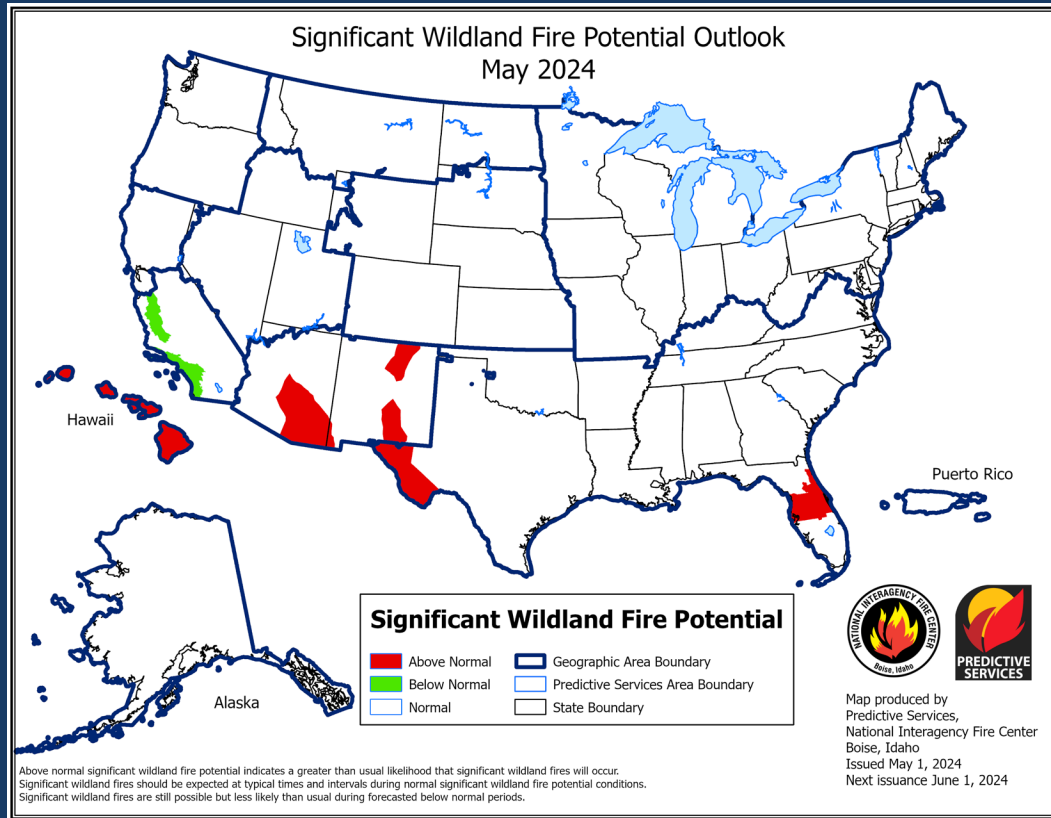
Northwest Region Four-month Significant Fire Potential

May – August 2024 Oregon/Washington Highlights

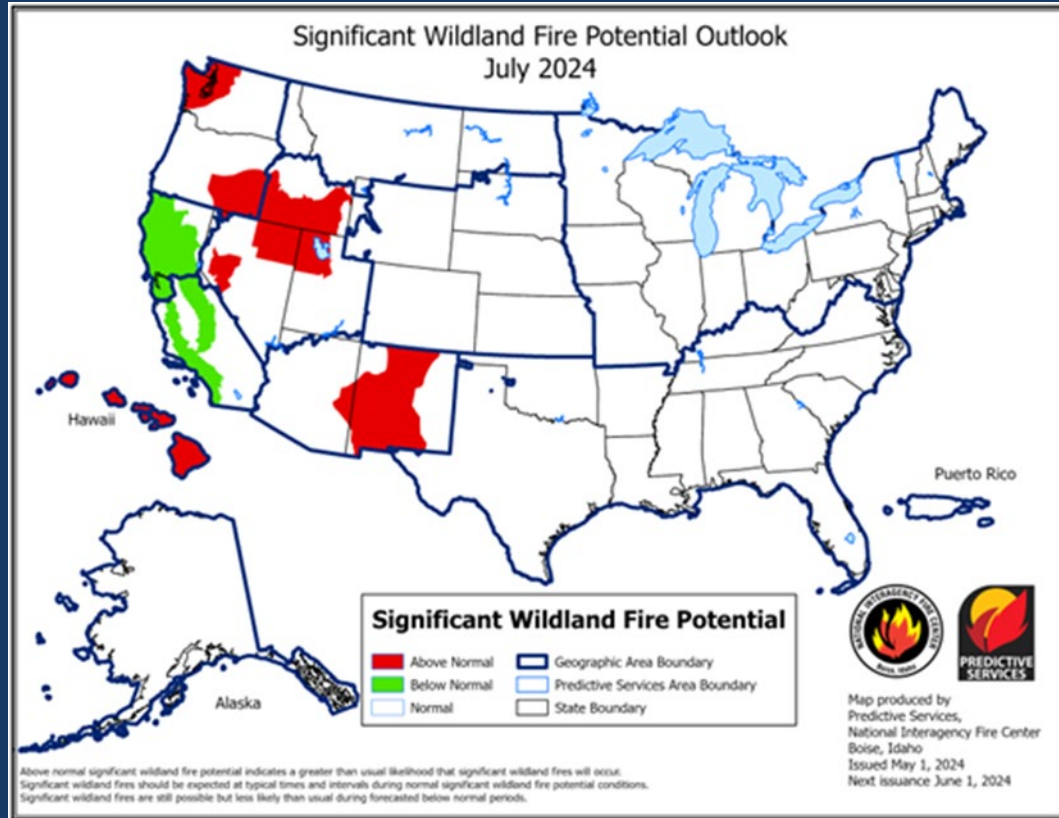
- Outlooks through May and beyond continue to suggest a transition to warmer than usual conditions during Fire Season 2023.
- Normal (i.e. very low) risk of significant fires is expected over the Northwest Area until July and August when areas of central and southeast Oregon are expected to be above average potential for significant fires.



Pacific Northwest Region Four-month Significant Fire Potential



Pacific Northwest Region Four-month Significant Fire Potential





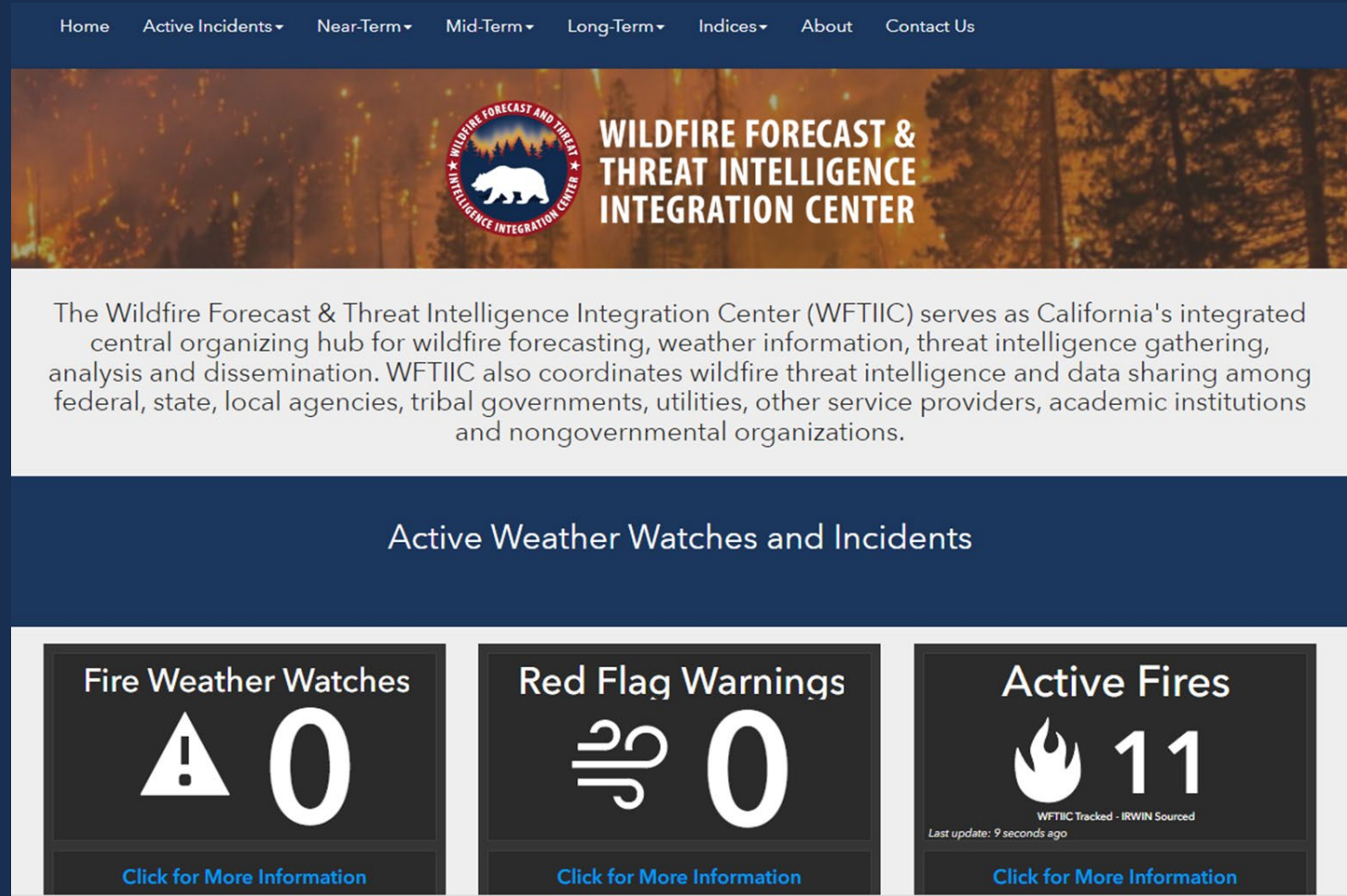
WILDFIRE FORECAST & THREAT INTELLIGENCE INTEGRATION CENTER



Wildfire Forecast & Threat Intelligence Website

Central Organized Hub displaying

- Active Wildfire Incident Information
- Wildfire Forecasting products
 - Near-term
 - Mid-term
 - Long-term
- Weather Information
- Decision Support tools
 - Indices
 - External Resources



The screenshot displays the homepage of the Wildfire Forecast & Threat Intelligence Integration Center (WFTIIC). The website has a dark blue header with a navigation menu: Home, Active Incidents, Near-Term, Mid-Term, Long-Term, Indices, About, and Contact Us. Below the header is a large banner image of a forest fire at night. On the left side of the banner is the WFTIIC logo, which features a white bear silhouette inside a red circle with the text 'WILDFIRE FORECAST AND THREAT INTELLIGENCE INTEGRATION CENTER'. To the right of the logo, the text 'WILDFIRE FORECAST & THREAT INTELLIGENCE INTEGRATION CENTER' is displayed in white. Below the banner, a white box contains a paragraph describing the center's role as California's integrated central organizing hub for wildfire forecasting, weather information, threat intelligence gathering, analysis and dissemination. Below this box is a dark blue section titled 'Active Weather Watches and Incidents'. At the bottom, there are three white boxes with dark backgrounds, each displaying a different type of alert: 'Fire Weather Watches' with a triangle icon and the number '0', 'Red Flag Warnings' with a flag icon and the number '0', and 'Active Fires' with a flame icon and the number '11'. Each box also includes a 'Click for More Information' link. The 'Active Fires' box also shows 'WFTIIC Tracked - IRWIN Sourced' and 'Last update: 9 seconds ago'.

Home Active Incidents Near-Term Mid-Term Long-Term Indices About Contact Us

WILDFIRE FORECAST & THREAT INTELLIGENCE INTEGRATION CENTER

The Wildfire Forecast & Threat Intelligence Integration Center (WFTIIC) serves as California's integrated central organizing hub for wildfire forecasting, weather information, threat intelligence gathering, analysis and dissemination. WFTIIC also coordinates wildfire threat intelligence and data sharing among federal, state, local agencies, tribal governments, utilities, other service providers, academic institutions and nongovernmental organizations.

Active Weather Watches and Incidents

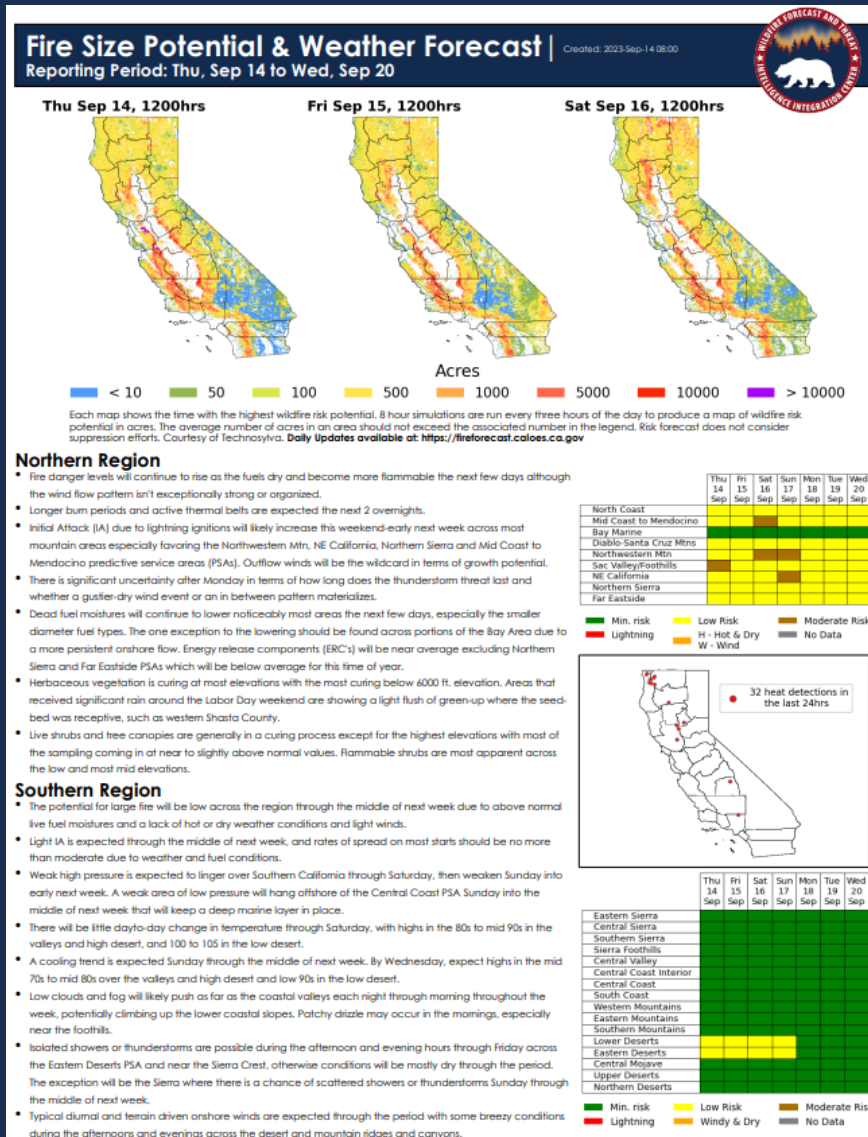
Fire Weather Watches
! 0
[Click for More Information](#)

Red Flag Warnings
☄ 0
[Click for More Information](#)

Active Fires
🔥 11
WFTIIC Tracked - IRWIN Sourced
Last update: 9 seconds ago
[Click for More Information](#)

Fire Potential & Weather Forecast Products

Daily Product

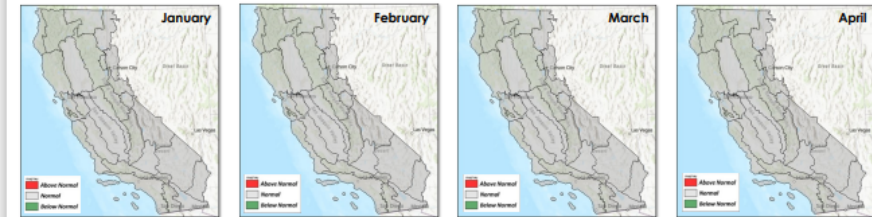


Monthly Product

WFTIIC Four Month Outlook

Visit WFTIIC Hub @ <https://wftiic.ca.gov> for more information | Created: January 2, 2024

Significant Fire Potential | January - April 2024



Northern Operations | [Click Here for Source](#)

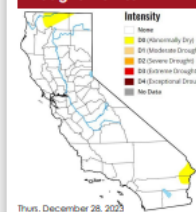
- An active storm track during extended periods of January will bring near to above normal precipitation.
- February and March will have near to below normal precipitation as storm systems skirt the region. April's precipitation forecast is still uncertain.
- Temperatures will be near to above normal leading to an earlier green-up with significant growth in March and April across the lower elevations.

Southern Operations | [Click Here for Source](#)

- El Niño core warmest sea surface temperatures are shifting west and weakening expected to become neutral by late Spring.
- This pattern suggests cooler than normal temperatures and above normal precipitation for the forecast period.
- Dead and live fuel moisture are above average and will remain so through April.

Drought Monitor

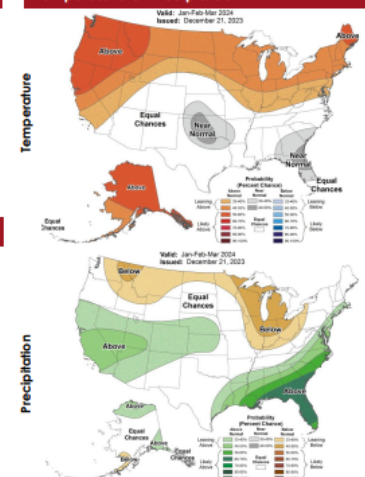
California | U.S. Drought Monitor (url.edu)



California snowpack is in a precarious state with conditions at 30% of normal. Northern Sacramento Valley, the Bay Area, and the Sierra Nevada are below to date averages for precipitation (see below) and while coastal Southern California is near average, much of this rain arrived in August from tropical storm influence before late December rains. Drought conditions could worsen if wetter El Niño effects do not materialize.

Temperature & Precipitation

Alaska Prediction Center



Rainfall Accumulation to Date

California Seasonal Rainfall and Percent of Normal

Location	To Date	To Date Avg	% Normal	Location	To Date	To Date Avg	% Normal
Alturas	4.78	4.51	106%	Eureka	25.99	25.17	103%
Redding	11.59	12.6	92%	Ukiah	11.49	12.73	90%
South Lake Tahoe	5.42	7.99	68%	Sacramento	5.73	6.18	93%
San Jose	3.51	4.35	81%	Modesto	4.24	3.98	107%
Bishop	2.83	1.72	165%	Bakersfield	2.04	1.98	103%
Bartow	0.91	1.79	51%	Santa Barbara	5.61	5.15	109%
Los Angeles	6.22	4.11	151%	San Diego	3.43	3.39	101%

WFTIIC Situation Reports

Public Safety Power Shutoff (PSPS) events

- Fire Weather and Fuels Seasonal Outlooks
- Significant Event Reports
- Year End Report





Wildfire Forecast & Threat Intelligence Integration Center (WFTIIC)

<https://hub.wftiic.ca.gov/>

