

WATER SUPPLY CONDITIONS UPDATE 2/13/23

You can now access Updates on our website: <https://www.rrfc.net/weekly-water-supply-conditions-update>



Lake Mendocino, 2/1/23 by CJ Watt

Reservoir Storage & Operations([More info here](#)):

Water supply information below and **attached** provided by Sonoma Water.
National Weather Service updates **attached**.

Lake Mendocino**2/13**

Current Storage (acre-feet)	80,139
Target Water Supply Storage Curve (acre-feet)	68,400
% of Target Water Supply Storage Curve	117.16%
7-day change (acre-feet)	-708

Lake Pillsbury**2/12**

Current Storage (acre-feet)	57,021
Target Storage Curve (acre-feet)	37,933
7-day change (acre-feet)	-496

Lake Sonoma**2/13**

Current Storage (acre-feet)	242,963
Target Storage Curve (acre-feet)	245,000
% of Water Supply Pool	99.17%
7-day change (acre-feet)	+1,936

Groundwater, anyone? Airborne Electromagnetic (AEM) Data Viewer

[ARTICLE: DWR's Innovative Underground Aquifer Mapping Project Reaches Major Milestone: Data Now Available for Entire Central Valley, 2/6/23](#)

The [Department of Water Resources \(DWR\) conducted airborne electromagnetic \(AEM\) surveys](#) and the data is now available. Data Viewer provides a quick and easy way to visualize the AEM electrical resistivity data and the AEM data interpretations (as texture) in a three-dimensional space. The most recent data available are shown, which may be the provisional data for some areas that are not yet finalized.

AEM Electrical Resistivity Data

Viewer: <https://experience.arcgis.com/experience/8bb7340c86204b51b4c15fa13d82fd08/>

AEM Interpretation (Texture) Data

Viewer: <https://experience.arcgis.com/template/1f56890b60274dd4ad0ea738e3445a8d/>

Invasive Species Awareness

Ecosystems around the globe have long been disrupted by exotic species that arrive, thrive, and proliferate in their new homes. [National Invasive Species Awareness Week](#) beginning later this month, calls attention to this challenge. In California, woodlands and waterways are plagued by such invaders as overbite clams, which have drastically changed the ecology of the Bay-Delta; water hyacinth, which clogs many Sacramento-San Joaquin Delta sloughs; and fig trees, which form thickets in riparian forests.

New Job Opportunity

Mendocino County Resource Conservation District (MCRCDD) is seeking a well-organized water resources professional to work in the Water Resources Program. The Water Resources Project Manager will assist the Assistant Executive Director in the development of projects for watershed restoration, water conservation, monitoring and other related projects. The position will involve project development, project management, field work, grant writing, and working directly with partnering organizations.

[The full job description can be viewed here.](#)

In the press:

- [CA Water eNews 2/1/23](#)
- [Maven's Notebook, 2/10/23](#)

- [Mendocino Voice - Ukiah to expand recycled water project, offset a whopping 50% of water use by treating wastewater, 2/7/23](#)
- [CalMatters - Ground zero: Rain brings little relief to California's depleted groundwater, 2/7/23](#)
- [Stanford Water & the West- In times of scarcity, California's best new source of water? Reuse., 2/8/23](#)
- [Phys.org- Sensing water for smarter agriculture, 2/9/23](#)
- [Newsweek - California Reservoir Levels Before and After Rain Seen From Space, 2/13/23](#)

Other resources & information:

- [Mendocino County Water Agency Drought page](#)
- [SWRCB Russian River drought information page](#)
- [SaveOurWater.com](#)
- [SaveWater.ca.gov](#) to report water waste, such as leaks and overwatering.
- [Water Rights Enforcement Complaints Program](#) and/or [Cal EPA Complaint System](#) to report concerns of unauthorized diversions, violations of water rights, diversions impacting fisheries, etc. Reports can be made anonymously.
- Visit Sonoma Water's website for information on [current water supply levels](#) and [Temporary Urgency Change Petitions](#).

Elizabeth Salomone, General Manager

Mendocino County Russian River Flood Control & Water Conservation Improvement District

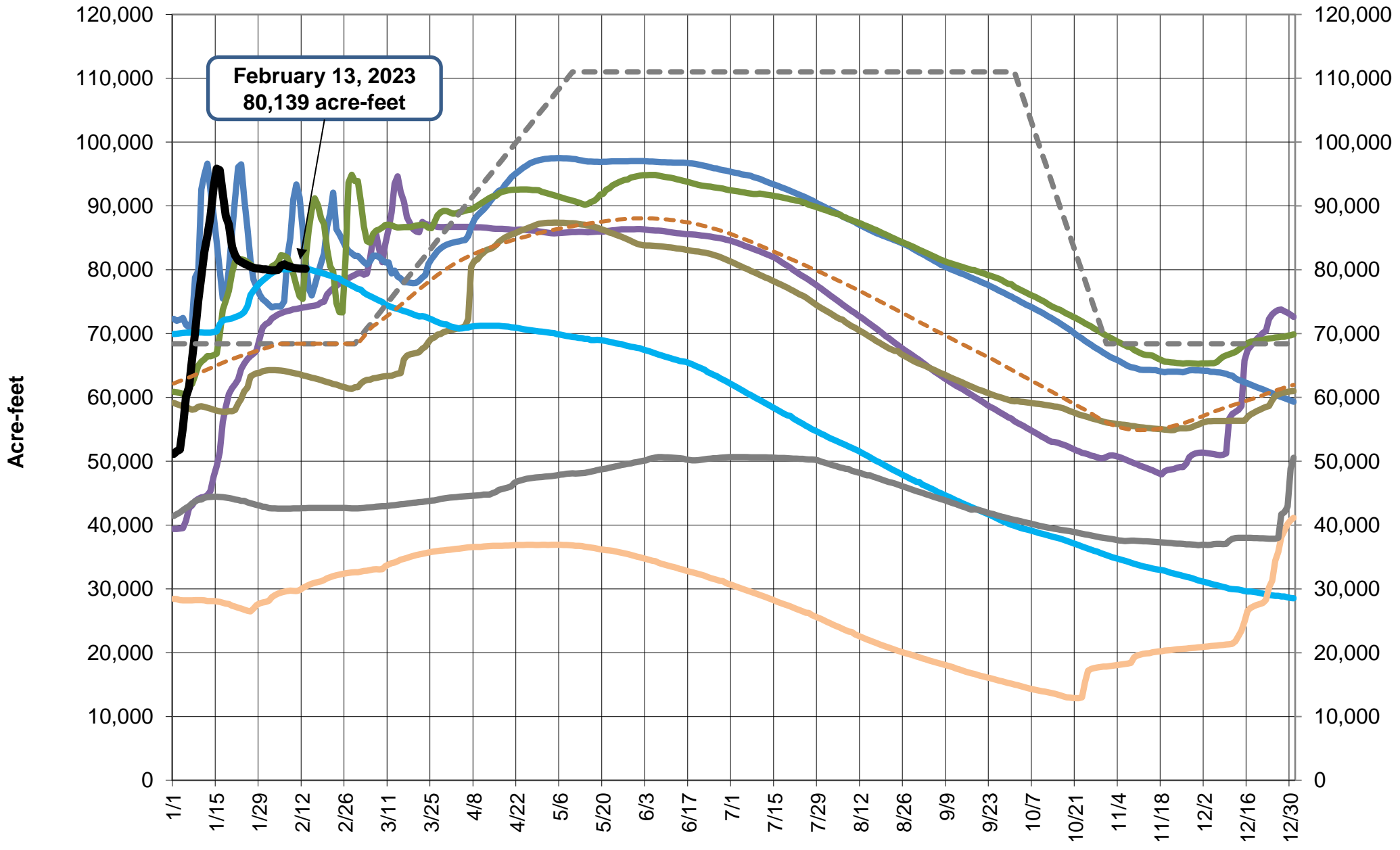
NEW ADDRESS: 304 N. State Street, #2, Ukiah, CA 95482

Cell: 707-462-5278 www.RRFC.net

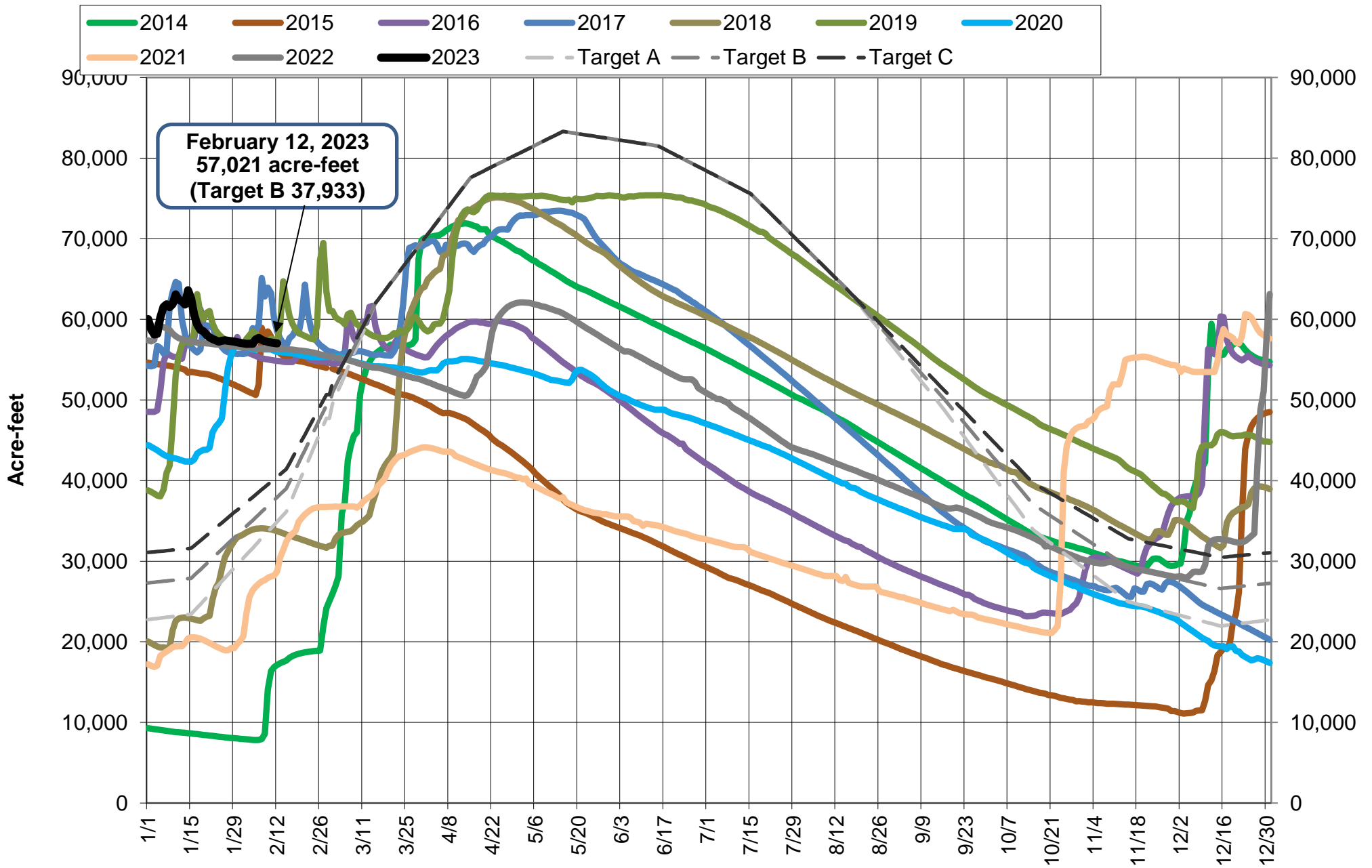


Lake Mendocino Storage

— 2016 — 2017 — 2018 — 2019 — 2020 — 2021 — 2022 — 2023 — Storage Curve — Target Water Supply Storage Curve

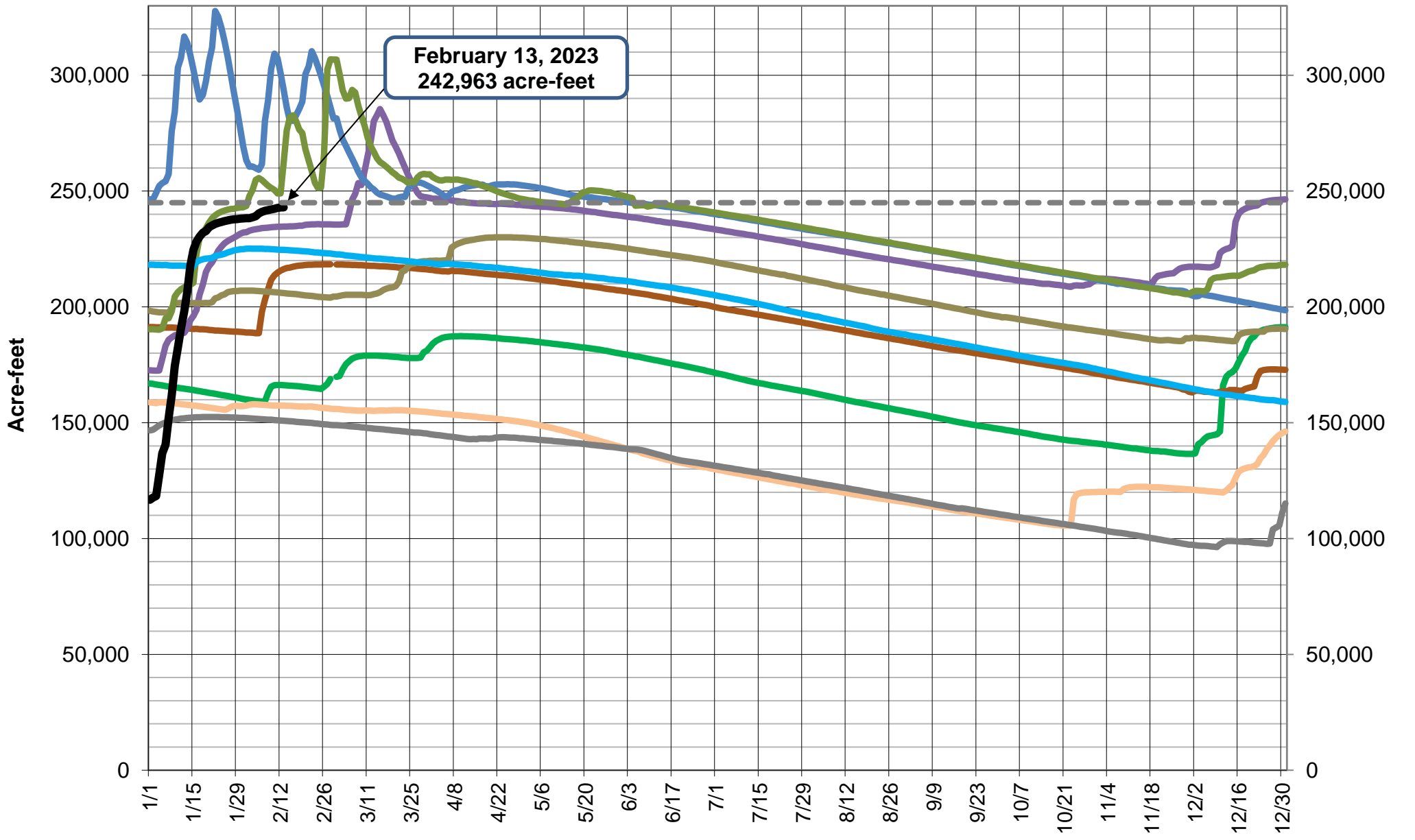


Lake Pillsbury Storage and Target Storage Scenarios



Lake Sonoma Storage

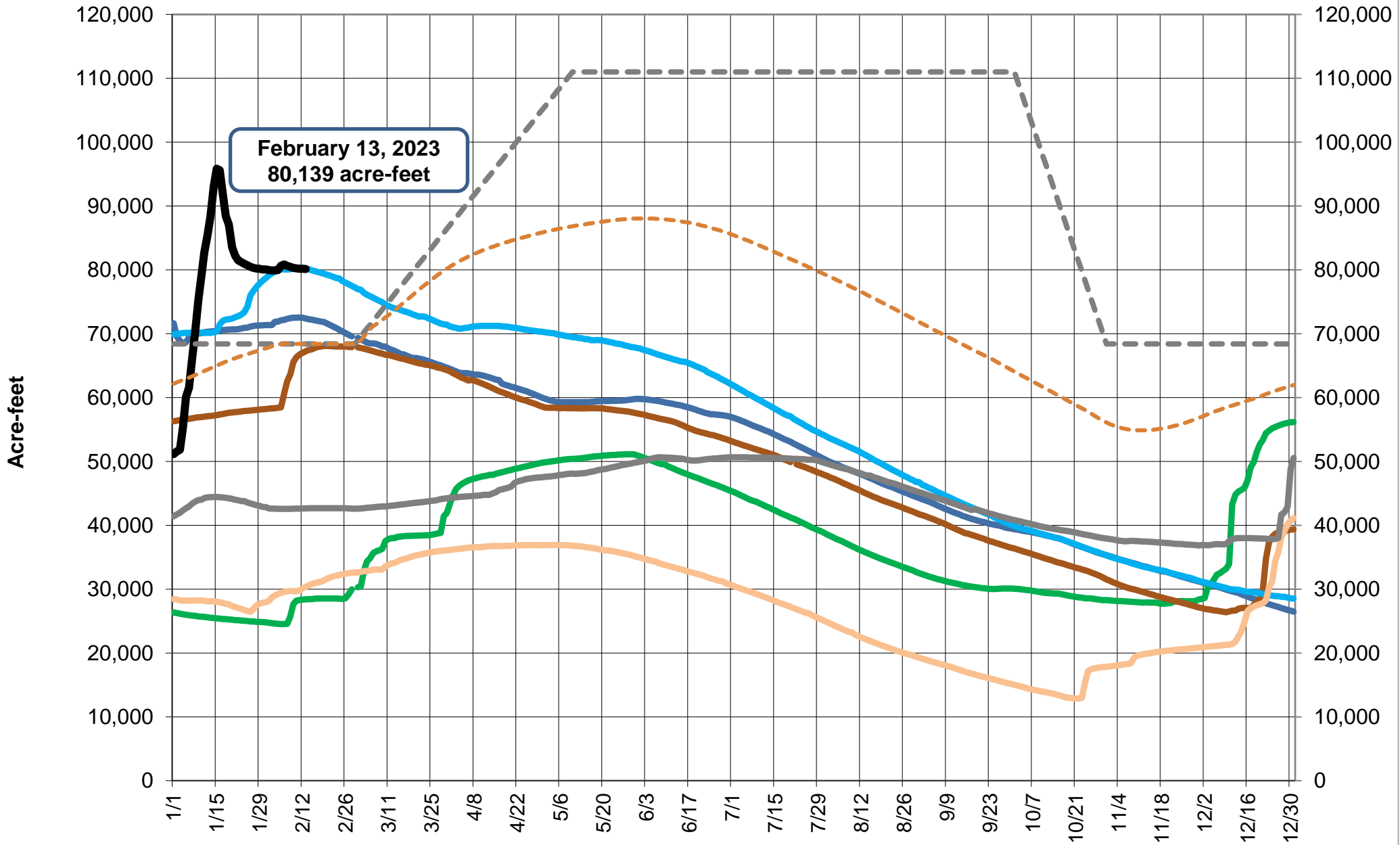
— 2014 — 2015 — 2016 — 2017 — 2018 — 2019 — 2020 — 2021 — 2022 — 2023 — - - - Storage Curve



February 13, 2023
242,963 acre-feet

Lake Mendocino Storage - Drought Years

— 2013
 — 2014
 — 2015
 — 2020
 — 2021
 — 2022
 — 2023
 - - - Storage Curve
 - - - Target Water Supply Storage Curve



February 13, 2023
80,139 acre-feet



Windy Monday with Quick Hitting Snow and Hail Tuesday

KEY POINTS

- Gusty north winds Monday into Tuesday
- Light snow down to 1000 feet early Tuesday
- Accumulating small hail and chance of thunder along the coast Tuesday
- Elevated surf along northwest facing beaches Tuesday
- Very cold morning temperatures Tuesday through Thursday

CHANGES FROM PREVIOUS BRIEFING

- Add wind details for Thursday
- Add more snow and small hail details
- Updated graphics and details

WEATHER RISK OUTLOOK

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

	Mon 2/13	Tue 2/14	Wed 2/15	Thu 2/16	Fri 2/17	Sat 2/18	Sun 2/19
Lake County Clearlake, Lakeport	Gusty Wind	Gusty Wind Cold	Cold	Gusty Wind Cold	Rain		
Del Norte County Crescent City, Gasquet	Gusty Wind Rain	Gusty Wind Enhanced Surf Snow Small Hail	Cold	Gusty Wind Cold	Rain		
Mendocino County Ukiah, Fort Bragg	Gusty Wind	Gusty Wind Cold Snow Enhanced Surf	Cold	Gusty Wind Cold	Rain		
Trinity County Weaverville, Hayfork	Gusty Wind	Gusty Wind Cold Snow	Cold	Gusty Wind Cold	Rain		
Humboldt County Eureka, Fortuna, Willow Creek	Gusty Wind Rain	Gusty Wind Enhanced Surf Snow Small Hail	Cold	Gusty Wind Cold	Rain		

Risk Levels

Little to None

Minor

Moderate

Major

Extreme

DETAILS

Lake County, Mendocino County, Trinity County, Humboldt County

Strong Wind

Impacts:

- Increased risk of falling limbs and trees.
- Localized power outages possible.
- Loose objects will blow around.
- High profile vehicles may be difficult to control.

Timing:

Monday and Tuesday

Confidence:

High

- Gusts as high as 60 mph on exposed ridges and coastal headlands.
- Gusts 30 to 40 mph at lower elevations and more sheltered coastal locations.
- Strongest winds along the southern Mendocino Coast, gusts over 50 mph possible in Point Arena.

Del Norte County, Humboldt County, Mendocino County

Snow

Impacts:

- Roads may be slippery and difficult to travel.
- Snow down to elevations the rarely see it.
- Increased risk of ice on bridges.

Timing:

Tuesday Morning

Confidence:

Moderate

- Snow levels will drop near 1000 feet, possibly lower for the interior.
- Generally light snow accumulation at lower elevations.

- 40 to 50% chance of at least 4 inches of snow at Berry Summit on 299 and Collier Tunnel on 199.
- Less than a 15% chance of more than 6 inches of snow even at high elevations.
- 30% chance of 1 inch of snow on the high elevation passes of Highway 101 around Prairie Creek.
- Trace amounts of snow possible along Rattlesnake Summit on 101.

- Less than a 20% chance of trace amounts of snow as low as Blue Lake.
- 50% chance of at least 1 inch of snow along the Trinity River in Hoopa and Willow Creek.

Del Norte County, Humboldt County

Small Hail

Impacts:

- Accumulating small hail will make roads icy and dangerous to travel.
- Small hail can cause minor damage to plants and outdoor objects.

Timing:

Tuesday Morning

Confidence:

Moderate

- Small hail and isolated thunderstorms likely on Tuesday.
- Greatest chance along the immediate coast of Humboldt Bay and north to Crescent City.

- Model indications of a line of storms capable of producing accumulating small hail around Humboldt Bay around sunrise on Tuesday.
- Very cold temperatures will encourage small hail accumulation on roadways.

Del Norte County, Mendocino County, Humboldt County



High Surf

Impacts:

- Surf will pose a danger to people and animals on beaches and jetties.
- Areas of increased coastal erosion.

Timing:

Tuesday and Wednesday

Confidence:

Moderate

- Combined wave heights above 20 feet.
- Highest surf runup on northwest facing beaches of 20 to 25 feet.

Lake County, Del Norte County, Mendocino County, Trinity County, Humboldt County



Cold

Impacts:

- Unsheltered people will be exposed to dangerously cold morning temperatures.
- Increased risk of ice on roadways.
- Exposed outdoor plants, pets, and pipes will be threatened by sub-freezing temperatures.

Timing:

Morning hours on Tuesday through Thursday

Confidence:

High

- Freezing temperatures throughout the area even along the coast.
- 90% chance of lows below 32 along the coast.
- 80% chance of lows below 28 along the coast.

FOR MORE INFORMATION

For the latest forecast updates, visit weather.gov/eureka.

If you have questions or would like to submit weather reports, photos, or to unsubscribe from these briefings, email nws.eureka@noaa.gov or call **(707) 443-6484**.

GRAPHICS

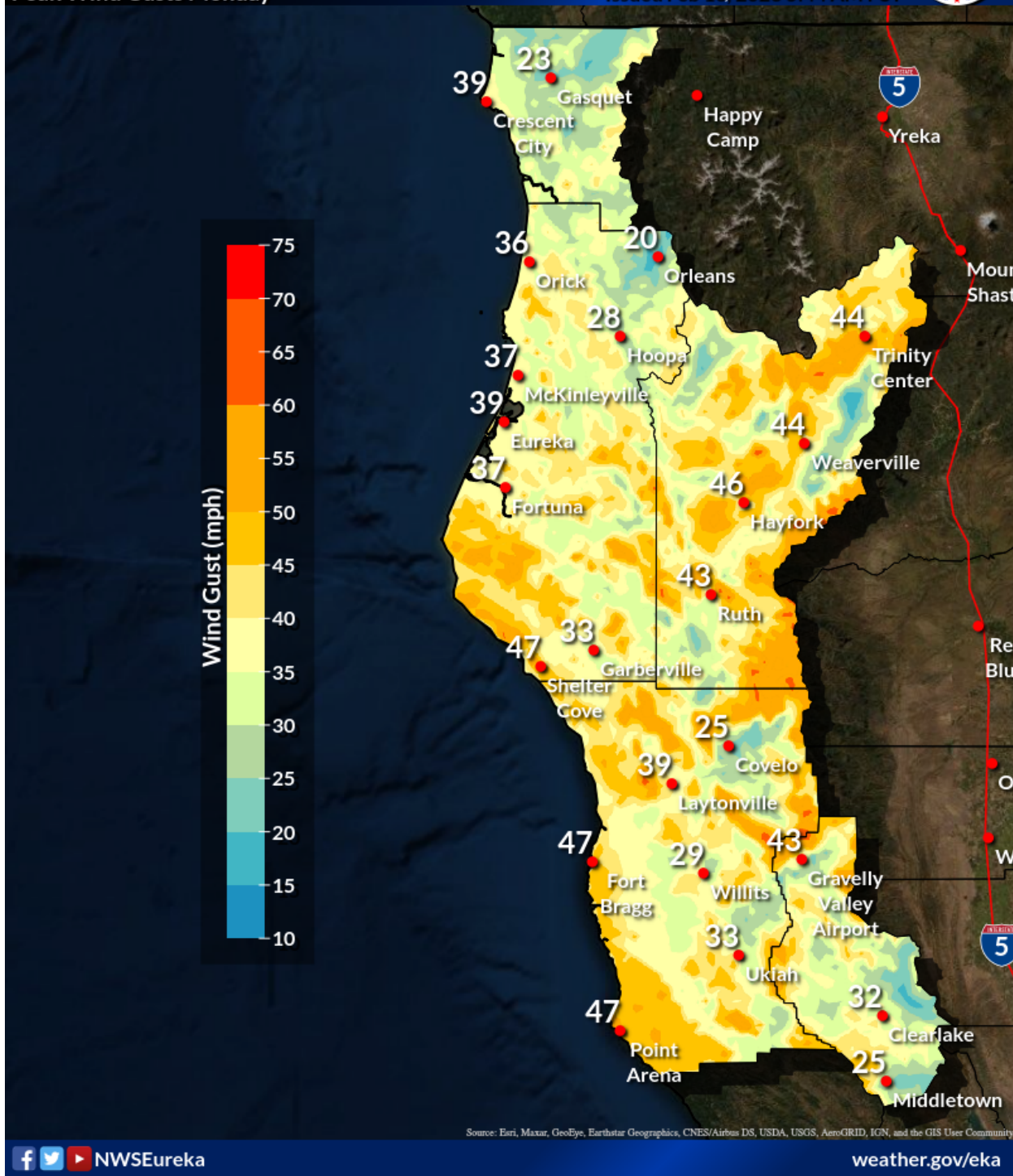
Gusty Monday Winds

Weather Forecast Office
Eureka, CA



Peak Wind Gusts Monday

Issued Feb 13, 2023 5:44 AM PST



02_13_CWA_PWG.png

Tuesday Snow and Hail

Weather Forecast Office
Eureka, CA



Tuesday Advisory

Issued Feb 13, 2023 5:51 AM PST

Hazards

Winter Weather Advisory

...WINTER WEATHER ADVISORY IN EFFECT FROM 6 AM TO 1 PM PST TUESDAY...

* **WHAT**...Accumulating small hail showers likely along the coast. Winds gusting as high as 35 mph.

* **WHERE**...Coastal Del Norte and Northern Humboldt Coast Counties.

* **WHEN**...From 6 AM to 1 PM PST Tuesday.

...WINTER WEATHER ADVISORY NOW IN EFFECT FROM 1 AM TO 1 PM PST TUESDAY...

* **WHAT**...Snow expected. Total snow accumulations of up to 5 inches, mostly above 1000 feet. Winds gusting as high as 45 mph.

* **WHERE**...Interior Humboldt and Del Norte Counties and Trinity County.

* **WHEN**...From 1 AM to 1 PM PST Tuesday.



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

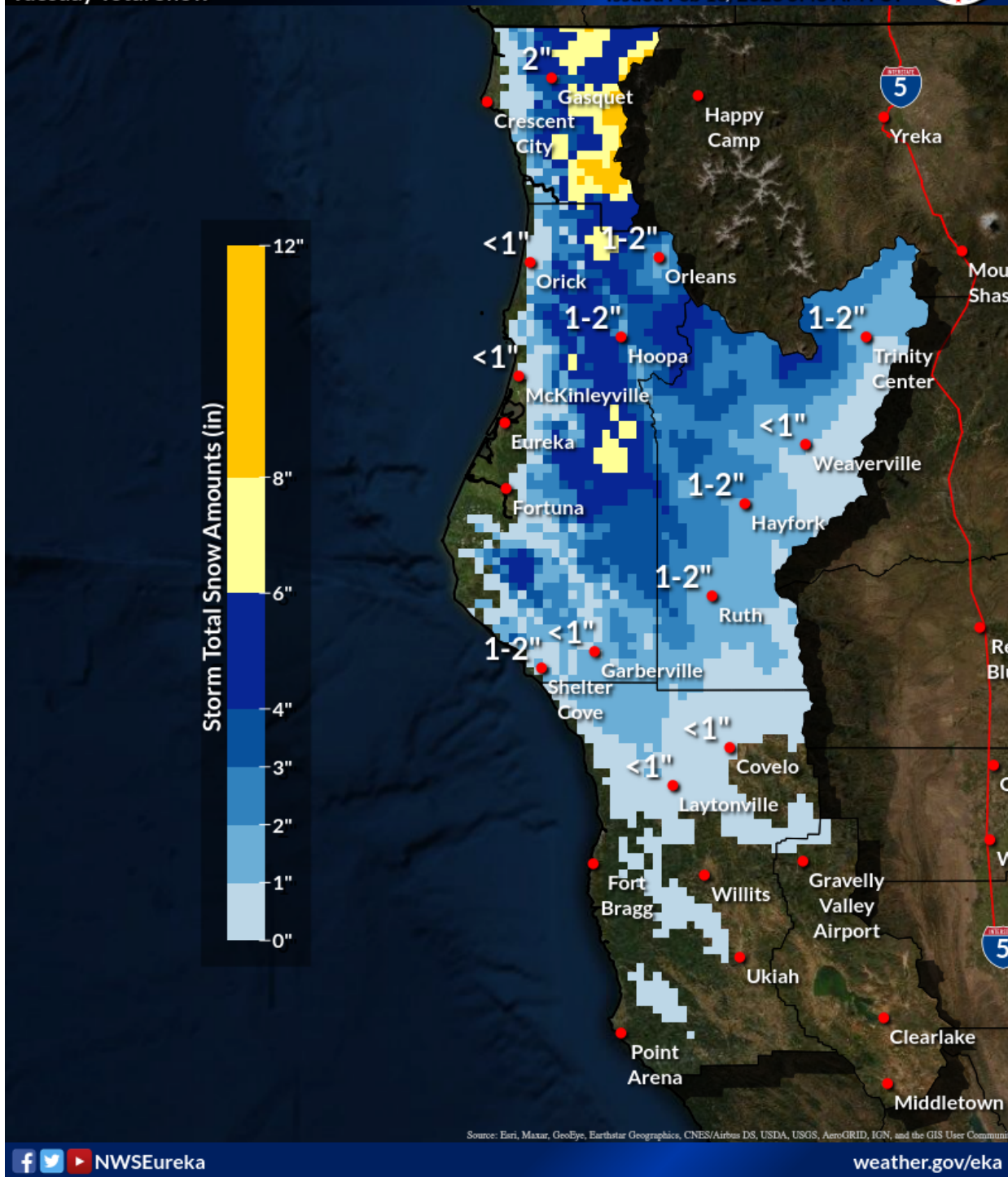
Tuesday Low Elevation Snow

Weather Forecast Office
Eureka, CA



Tuesday Total Snow

Issued Feb 13, 2023 5:48 AM PST



02_13_CWA_SNW.png

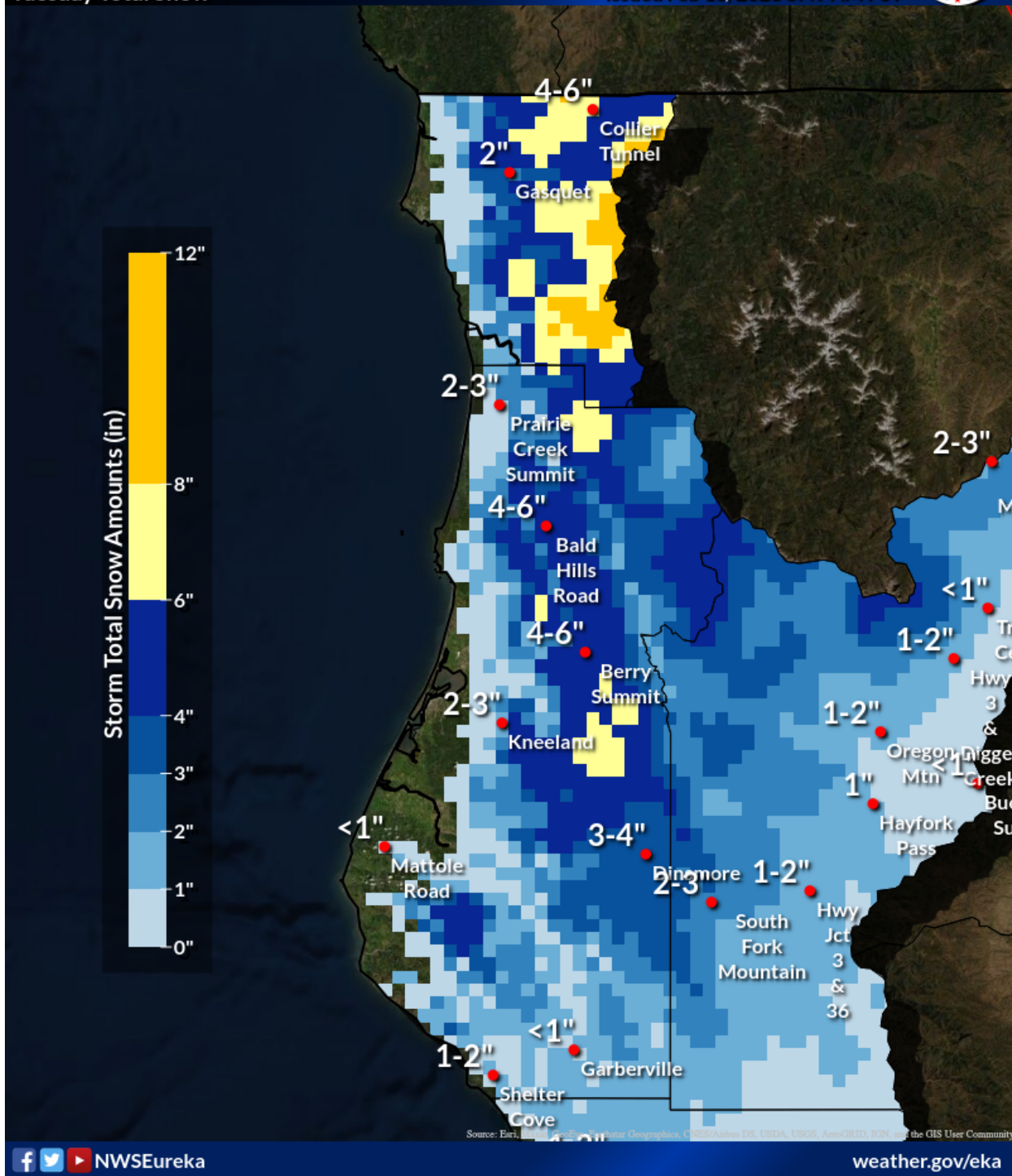
Tuesday Low Elevation Snow

Weather Forecast Office
Eureka, CA



Tuesday Total Snow

Issued Feb 13, 2023 5:49 AM PST



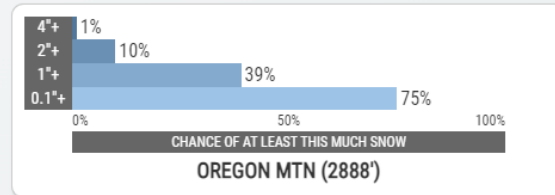
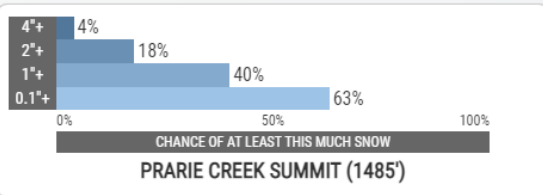
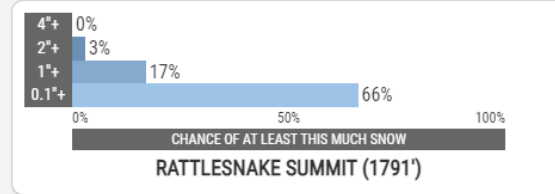
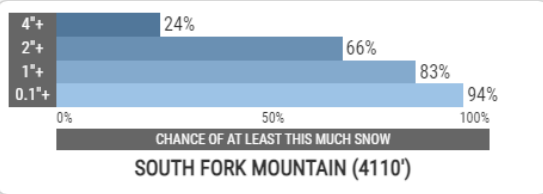
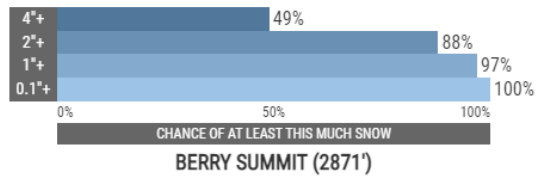
02_13_HDN_SNW.png



Snowfall Probabilities

Mon, Feb 13, 2023, 10 PM to Tue, Feb 14, 2023, 10 PM

These graphs show the probability that snowfall will reach or exceed the given value for select locations. Values above 50% indicate that snowfall of this amount has a greater than 50/50 chance of occurring.



Issued: Mon, Feb 13, 2023, 5 AM

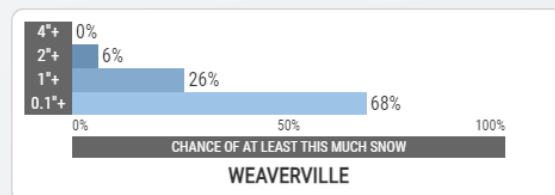
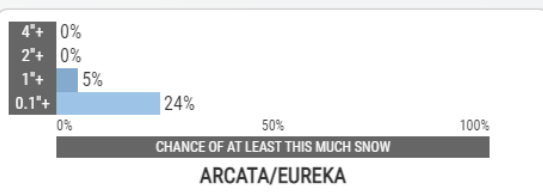
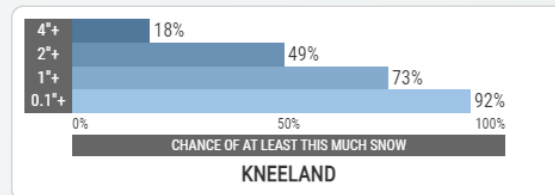
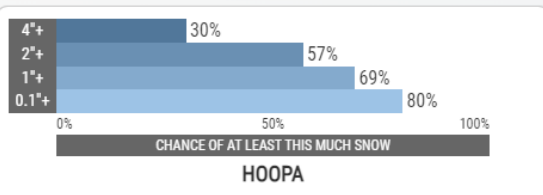
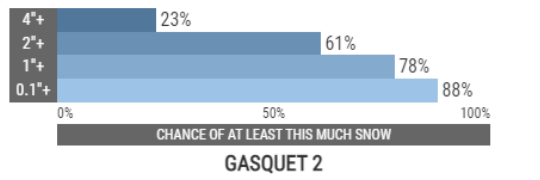
Highways Snow Probs.png



Snowfall Probabilities

Mon, Feb 13, 2023, 10 PM to Tue, Feb 14, 2023, 10 PM

These graphs show the probability that snowfall will reach or exceed the given value for select locations. Values above 50% indicate that snowfall of this amount has a greater than 50/50 chance of occurring.



Issued: Mon, Feb 13, 2023, 5 AM

Town Snow Probs.png

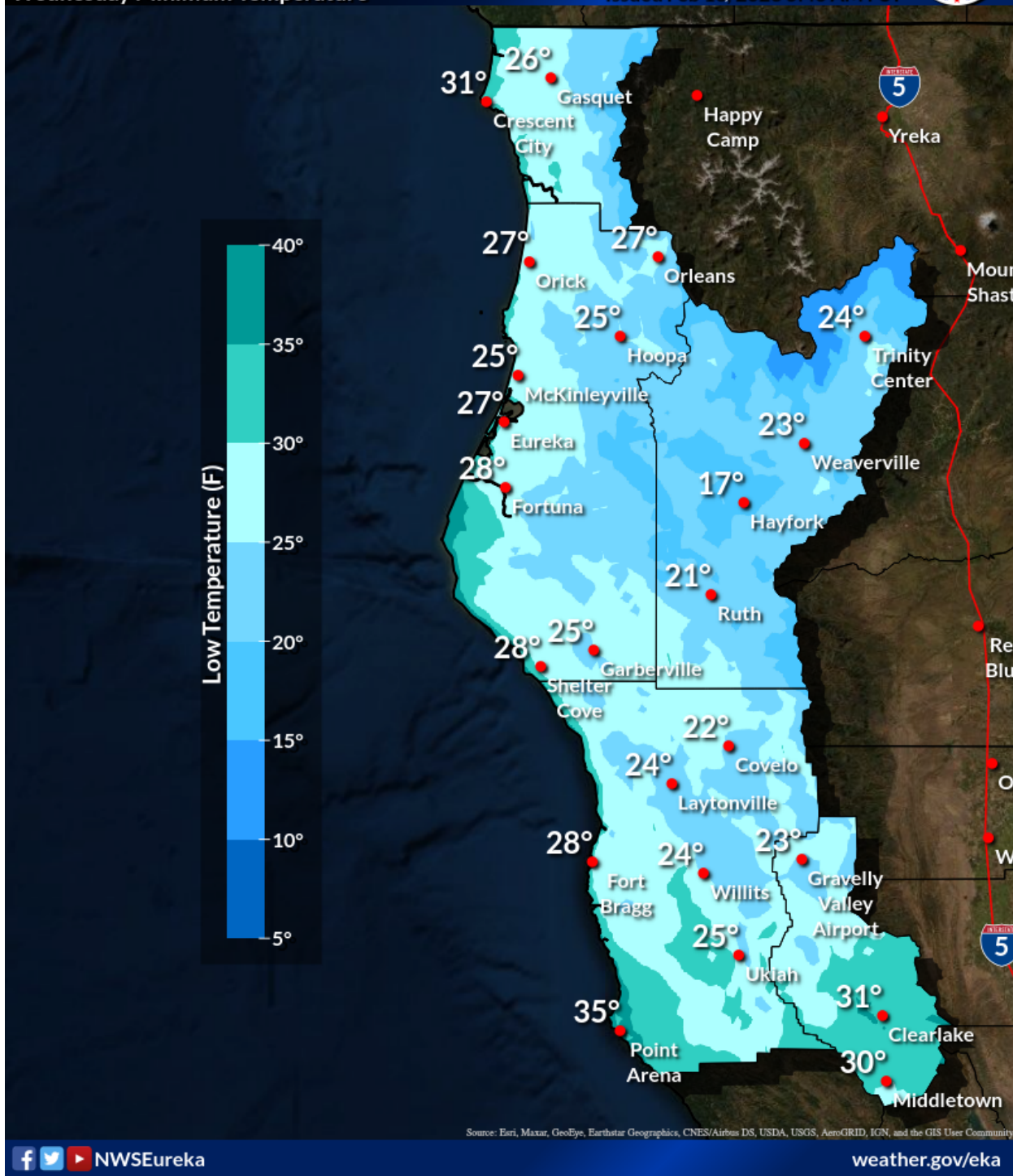
Cold Midweek Mornings

Weather Forecast Office
Eureka, CA



Wednesday Minimum Temperature

Issued Feb 13, 2023 5:46 AM PST



02_13_CWA_MNT.png

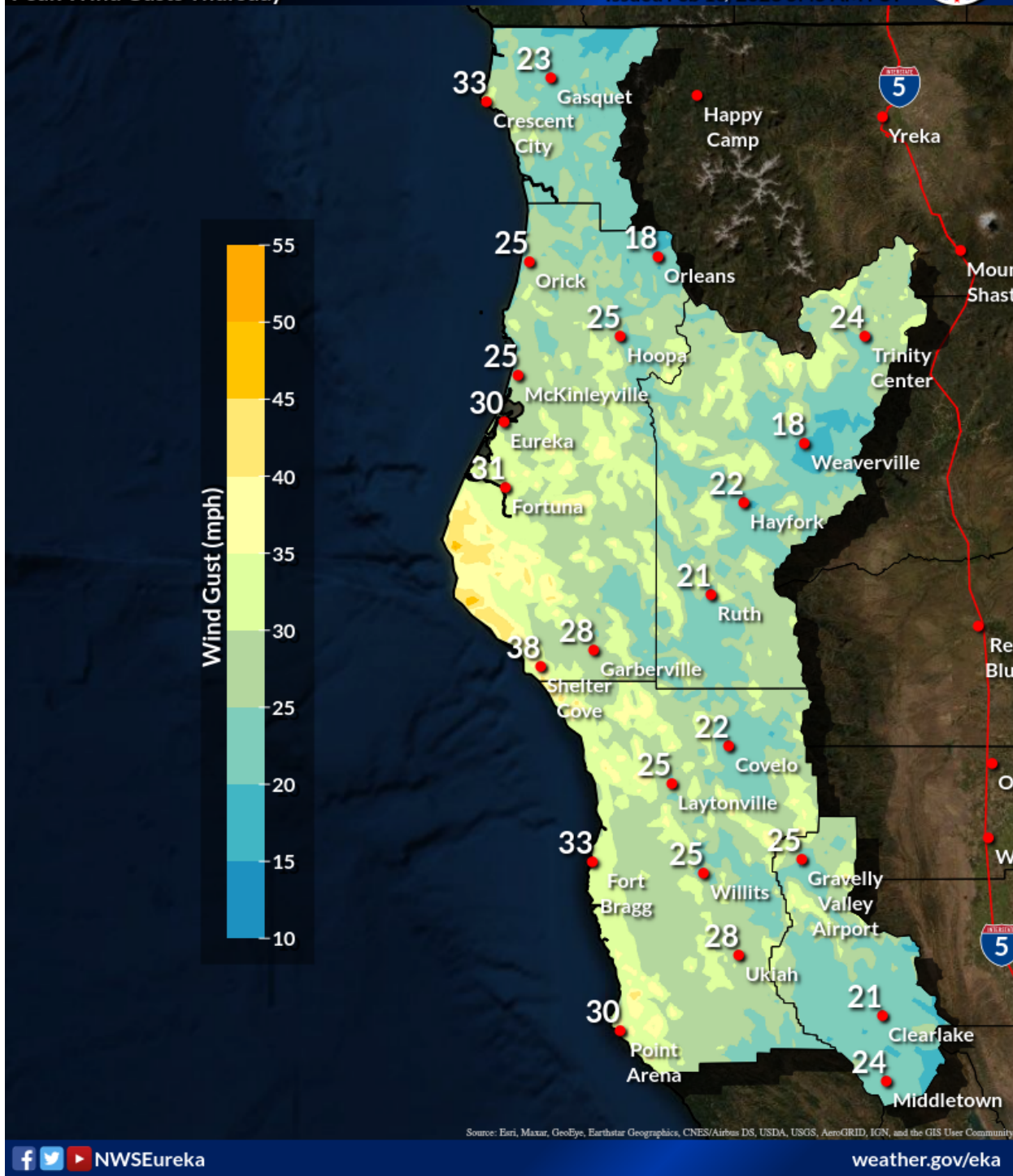
Gusty Thursday Winds

Weather Forecast Office
Eureka, CA



Peak Wind Gusts Thursday

Issued Feb 13, 2023 5:45 AM PST



02_13_CWA_PWG2.png



Low Elevation Snow and Hail Tuesday

KEY POINTS

- Light snow down to 500 feet Tuesday morning
- Accumulating small hail and chance of thunder along the coast Tuesday
- Elevated surf along northwest facing beaches Tuesday
- Gusty north winds Tuesday Morning
- Very cold morning temperatures Wednesday morning

WEATHER RISK OUTLOOK

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

	Tue 2/14	Wed 2/15	Thu 2/16	Fri 2/17	Sat 2/18	Sun 2/19	Mon 2/20
Lake County Clearlake, Lakeport	Gusty Wind Cold	Cold	Breezy Wind Cold Light Rain PM	Light Rain			
Del Norte County Crescent City, Gasquet	Gusty Wind Enhanced Surf Snow Small Hail	Cold	Breezy Wind Cold Light Rain PM	Light Rain			
Mendocino County Ukiah, Fort Bragg	Gusty Wind Cold Snow Enhanced Surf	Cold	Breezy Wind Cold Light Rain PM	Light Rain			
Trinity County Weaverville, Hayfork	Gusty Wind Cold Snow	Cold	Breezy Wind Cold Light Rain PM	Light Rain			
Humboldt County Eureka, Fortuna, Willow Creek	Gusty Wind Enhanced Surf Snow Small Hail	Cold	Breezy Wind Cold Light Rain PM	Light Rain			

Risk Levels

Little to None

Minor

Moderate

Major

Extreme

DETAILS

Del Norte County, Humboldt County, Mendocino County



Impacts:

- Roads may be slippery and difficult to travel.
- Snow down to elevations that rarely see it.
- Increased risk of ice on bridges.

Timing:

Tuesday

Confidence:

Moderate

- Snow levels will drop near 500 feet, possibly lower for the interior.
- Generally light snow accumulation at lower elevations.

Del Norte County, Humboldt County

Small Hail

Impacts:

- Accumulating small hail will make roads icy and dangerous to travel.

Timing:

Tuesday Morning

Confidence:

Moderate

- Small hail and isolated thunderstorms likely on Tuesday.
- Greatest chance along the immediate coast of Humboldt Bay and north to Crescent City.
- Very cold temperatures will allow small hail accumulation to linger on roadways.

Lake County, Mendocino County, Trinity County, Humboldt County

Strong Wind

Impacts:

- Loose objects will blow around.
- High profile vehicles may be difficult to control.

Timing:

Tuesday and again Thursday

Confidence:

Moderate

- Northerly winds with gusts 20 to 35 mph across the area Tuesday.
- Strongest winds along the coast and in exposed areas.
- Southerly winds with gusts to 35 mph across the Thursday.

Del Norte County, Mendocino County, Humboldt County

High Surf

Impacts:

- Surf will pose a danger to people and animals on beaches and jetties.
- Areas of increased coastal erosion.

Timing:

Tuesday and Wednesday

Confidence:

Moderate

- Combined wave heights above 20 feet.
- Highest surf runup on northwest facing beaches of 20 to 25 feet.

Lake County, Del Norte County, Mendocino County, Trinity County, Humboldt County

Cold

Impacts:

- Unsheltered people will be exposed to dangerously cold morning temperatures.
- Increased risk of ice on roadways.
- Exposed outdoor plants, pets, and pipes will be threatened by sub-freezing temperatures.

Timing:

Morning hours on Tuesday through Thursday

Confidence:

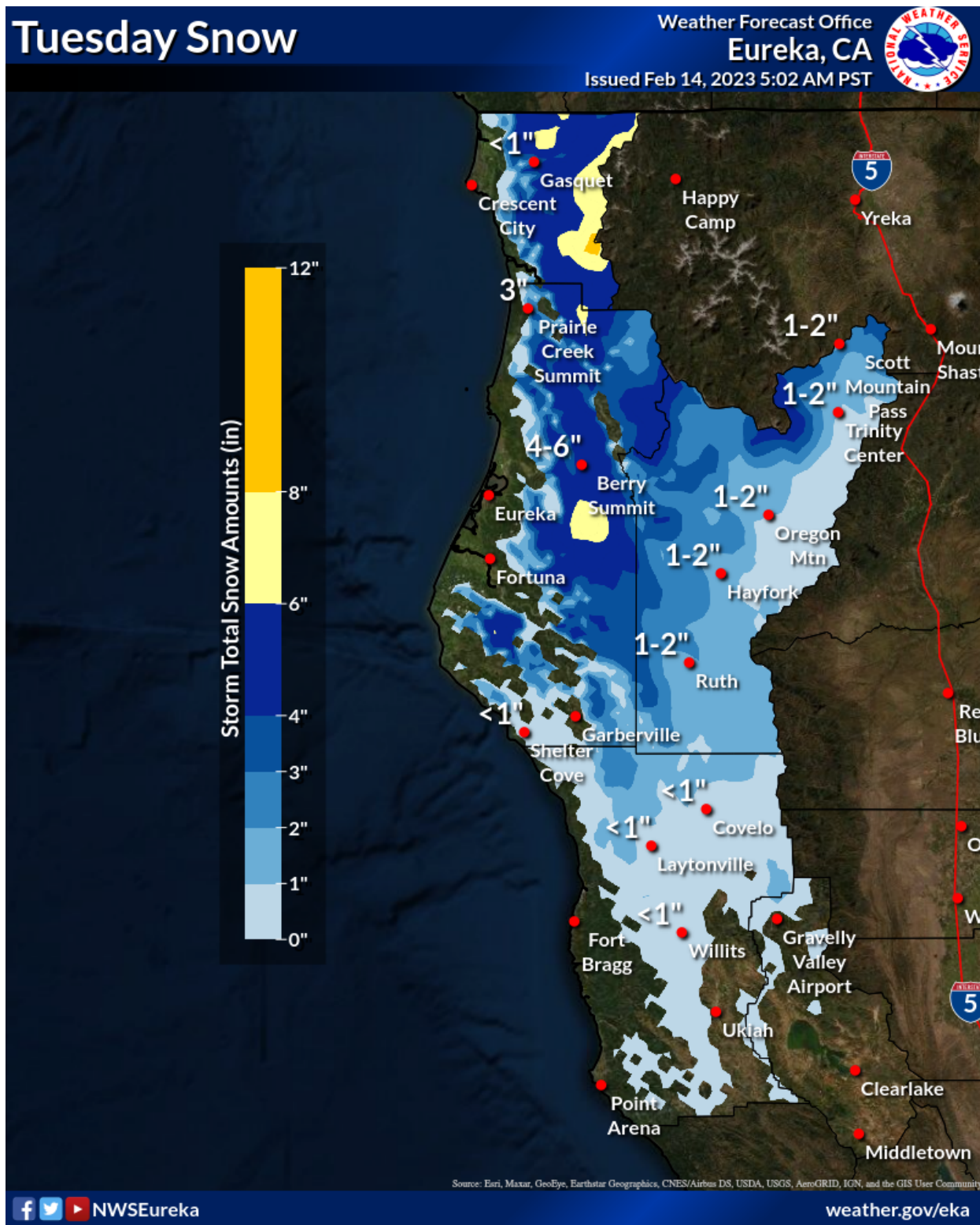
High

- Freezing temperatures throughout the area even along the coast.
- Above a 90% chance of lows below 32 along the coast.
- Around 80% chance of lows below 28 along the coast.

FOR MORE INFORMATION

For the latest forecast updates, visit [weather.gov/eureka](https://www.weather.gov/eureka).

GRAPHICS

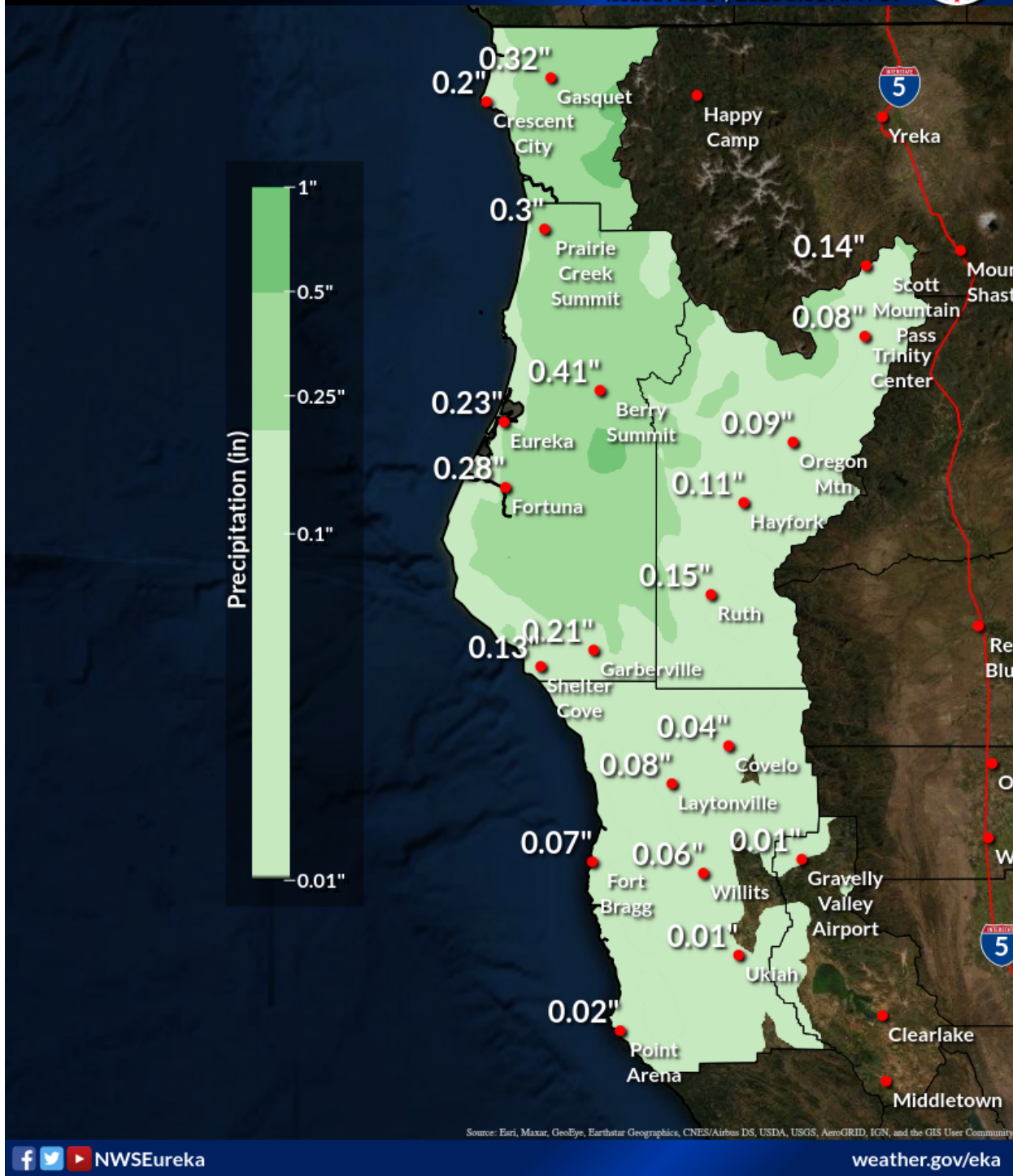


TuesdaySnow[1].png

Tuesday Rain

Weather Forecast Office
Eureka, CA

Issued Feb 14, 2023 5:01 AM PST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NWSEureka

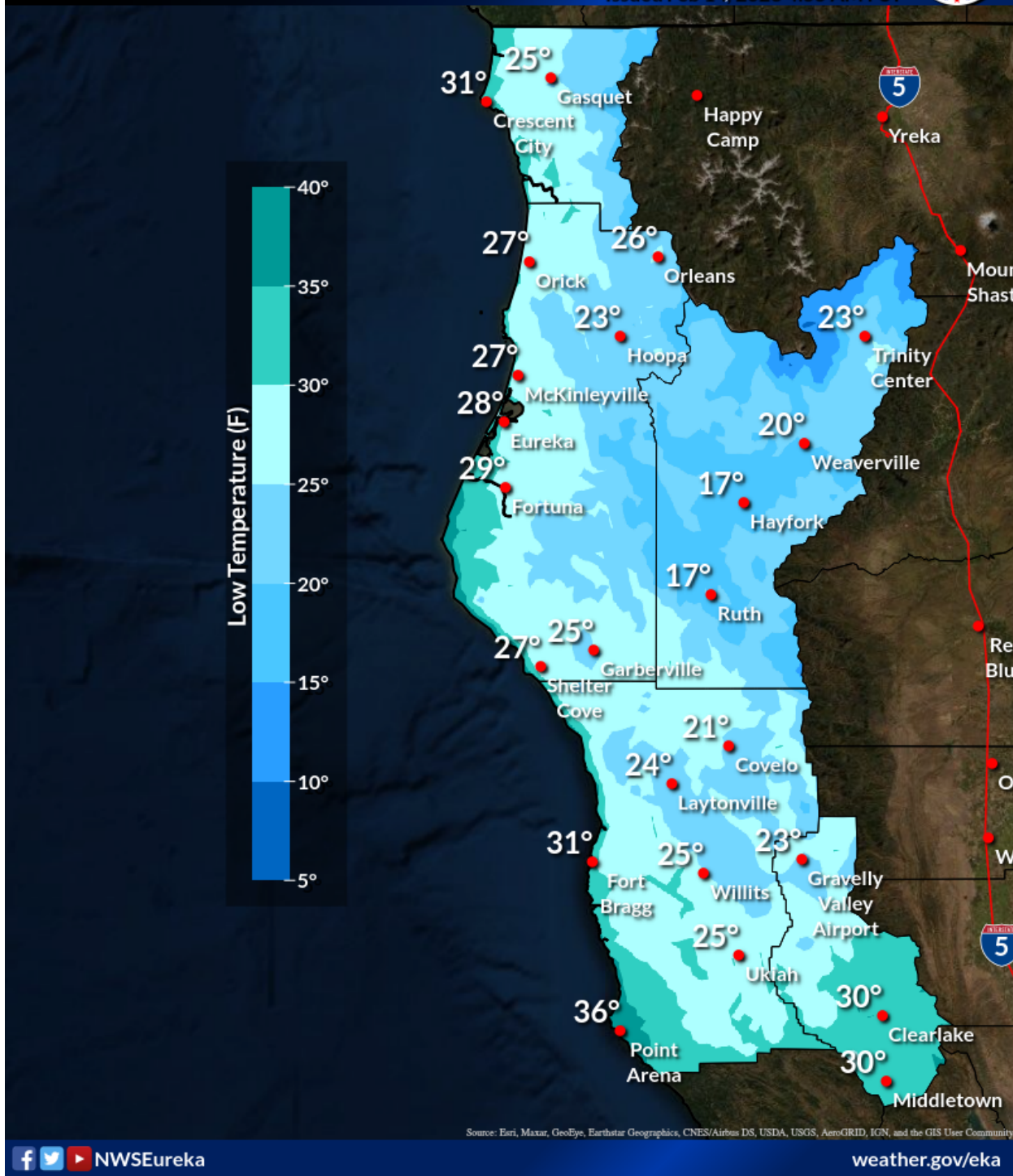
weather.gov/eka

TuesdayRain[1].png

Wednesday Morning Lows

Weather Forecast Office
Eureka, CA

Issued Feb 14, 2023 4:55 AM PST



MinTWednesday[1].png

Hail Showers Possible Today

Watch for Hail

DRIVING ON A HAIL COVERED ROAD:

- ▶ Ease off the gas pedal
- ▶ Do not slam on the brakes
- ▶ Avoid overcorrecting

SLOW DOWN!
Hail covered roads can be very icy

Courtesy of Del Norte Triplicate

NOAA
Caltrans
CHP

VISIT US ON THE WEB: WEATHER.GOV • DOT.CA.GOV • CHP.CA.GOV
For the most current road information on all California State highways, please call 1-800-427-7623 (1-800-GAS-ROAD)

Small_Hail.png