

National Weather Service Medford

2023: July Climate Summary



*These data are preliminary and have not undergone final QC by NCEI. Therefore, these data are subject to revision. Final and certified climate data can be accessed at the [National Centers for Environmental Information \(NCEI\)](#).



July 2023 Weather Review

July 2023 was a typical summer month for southern Oregon and northern California. The month started off on the hot side with high pressure in control. Upper 90s/triple digits were common across the valleys west of the Cascades with upper 80s/lower 90s east of the Cascades. This prompted Heat Advisories across the region, and the Medford Airport recorded its first 100 degree day of 2023 on July 4th. Other climate sites came close to records during this heat event, but the Roseburg airport was the only one to set a daily record on the 4th and 5th. There were a couple of thunderstorm days during the first week of the month, but lightning was only recorded across northern California and into Lake County during this time.

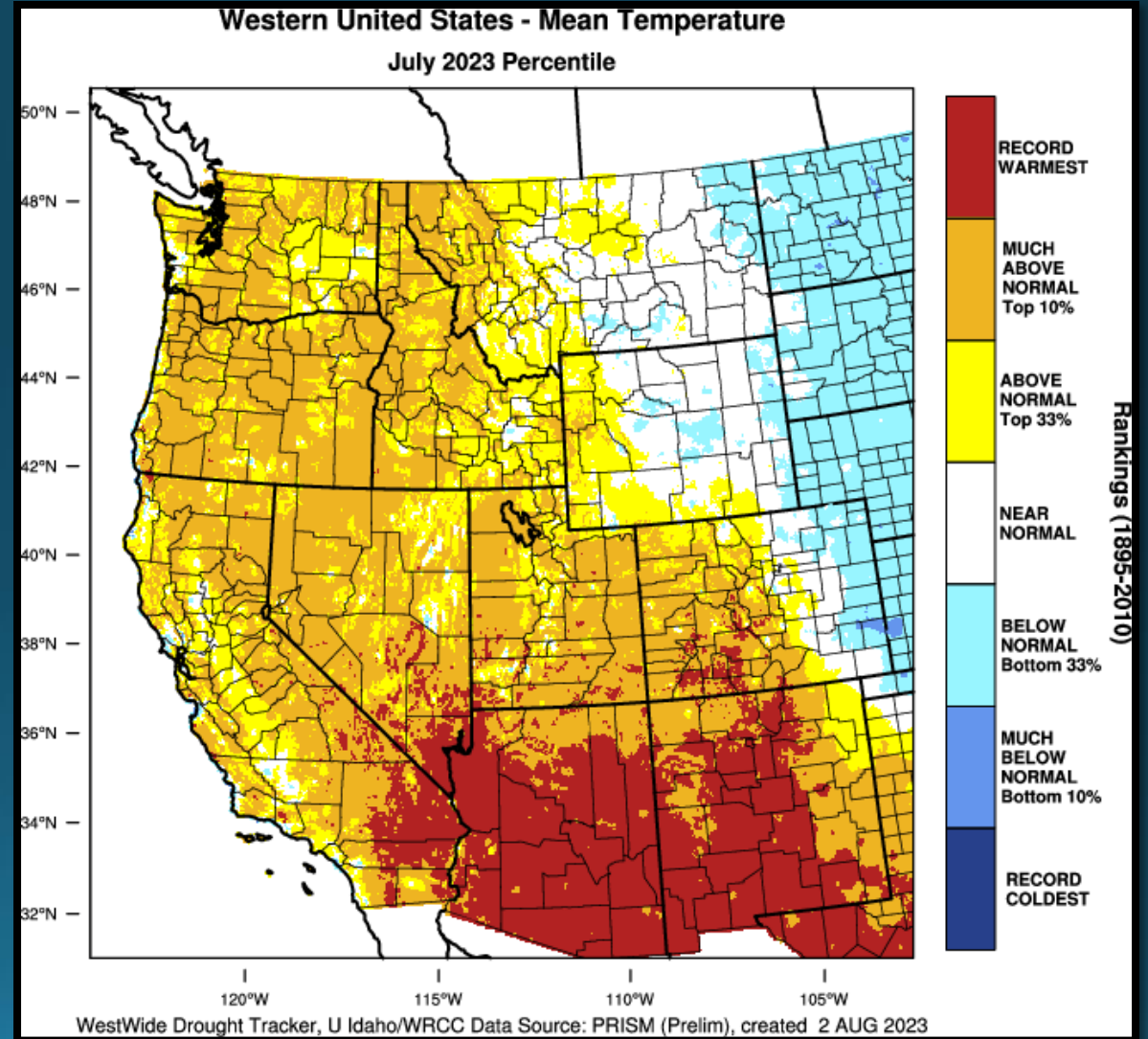
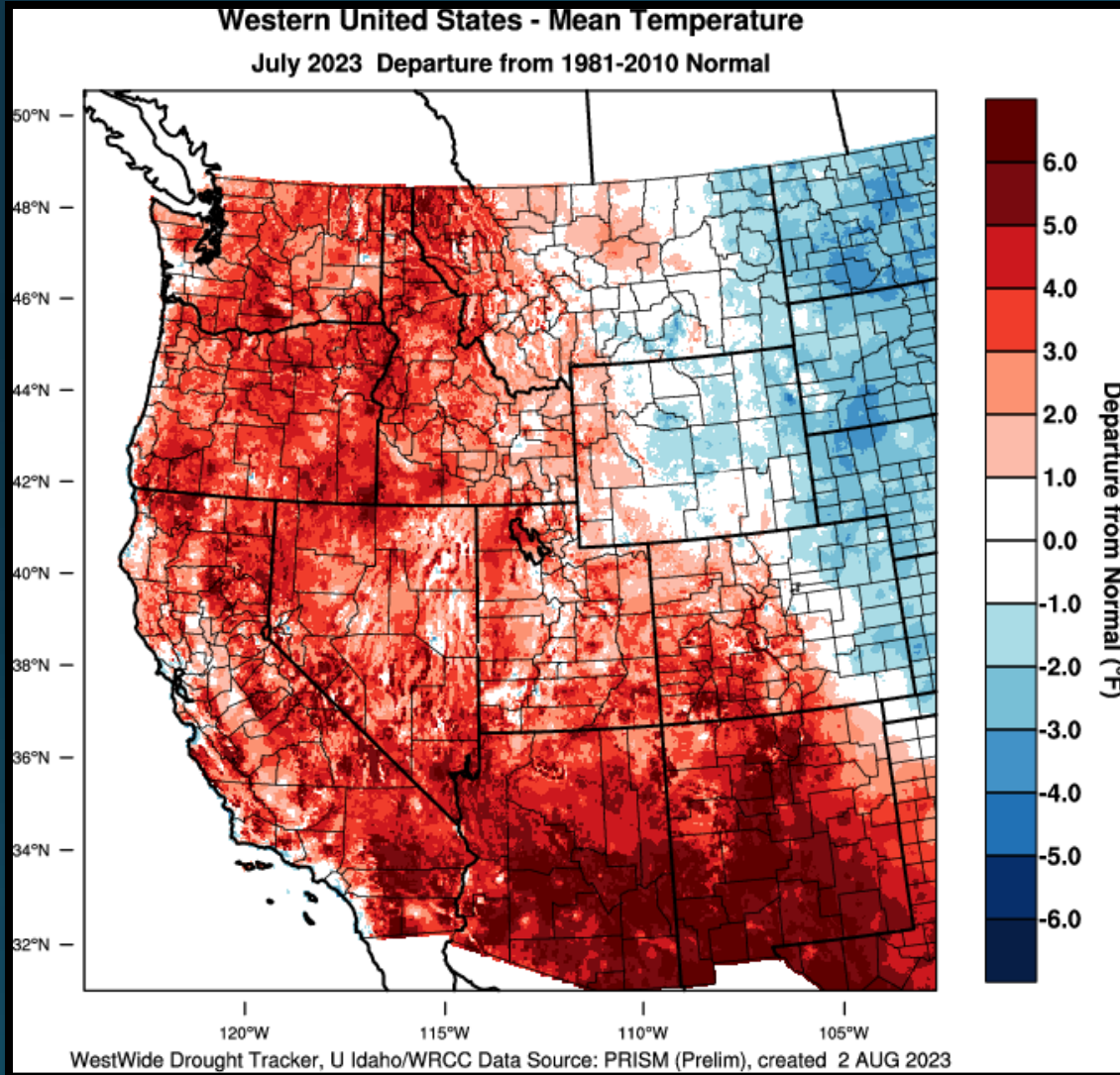
Temperatures trended cooler from the 7th to the 12th as low pressure passed through the Pacific Northwest and temperatures lowered to near normal for early July. High pressure returned around the middle of the month, however, and its influence persisted through around the 23rd. This brought the return of above normal temperatures and triple digits to West Side Valleys. The Medford Airport recorded its hottest temperature of the year thus far on the 15th when the high temperature reached 102 degrees. Even locations east of the Cascades approached and/or reached 100 degrees, and two of the climate sites in northern California set multiple daily record high temperatures during this hot stretch. Dry conditions persisted during this heat event, even when the heat broke as monsoonal moisture remained south and east of the area.

Another notable cooldown arrived on the 24th as a relatively strong front (by summer standards, weak by winter standards) moved through the region. There was enough moisture associated with this front to bring measurable precipitation to coastal locations, but not enough for precipitation to make it any farther inland. This front did result in some critical fire weather conditions as gusty winds occurred across the region and relative humidities reached critically low values. This cool down persisted through the end of the month with no additional thunderstorm days.

The region saw its first wildfires of the season ignite during the week of the 17th. The Flat fire started in Curry County near the Oak Flat Campground, and the Golden Fire started in Klamath County between the communities of Bonanza and Beatty. The Golden fire resulted in immediate evacuations and ultimately destroyed a number of homes and outbuildings. By the end of the month, however, the Golden fire was well under control. The Flat fire, however, continued to burn into the month of August, and smoke from this fire impacted Curry, Josephine and Jackson counties at times during the last half of the month.



July 2023 Observed Temperatures





Average Temperatures

	Average (°F)	Departure from Normal	Average Max (°F)	Departure from Normal	Average Min (°F)	Departure from Normal
North Bend	60.6	0.8°F	67.2	1.1°F	54.1	0.5°F
Roseburg	73.9	2.3°F	90.0	4.2°F	57.8	0.4°F
Medford	78.7	3.6°F	95.0	3.4°F	62.3	3.7°F
Klamath Falls	69.3	2.2°F	89.6	3.3°F	49.0	1.2°F
Montague, CA	77.6	3.6°F	97.3	3.9°F	57.9	3.4°F
Mt. Shasta City, CA	72.5	4.1°F	91.8	6.6°F	53.3	1.6°F
Alturas, CA	69.2	1.0°F	91.2	2.1°F	47.3	0.1°F



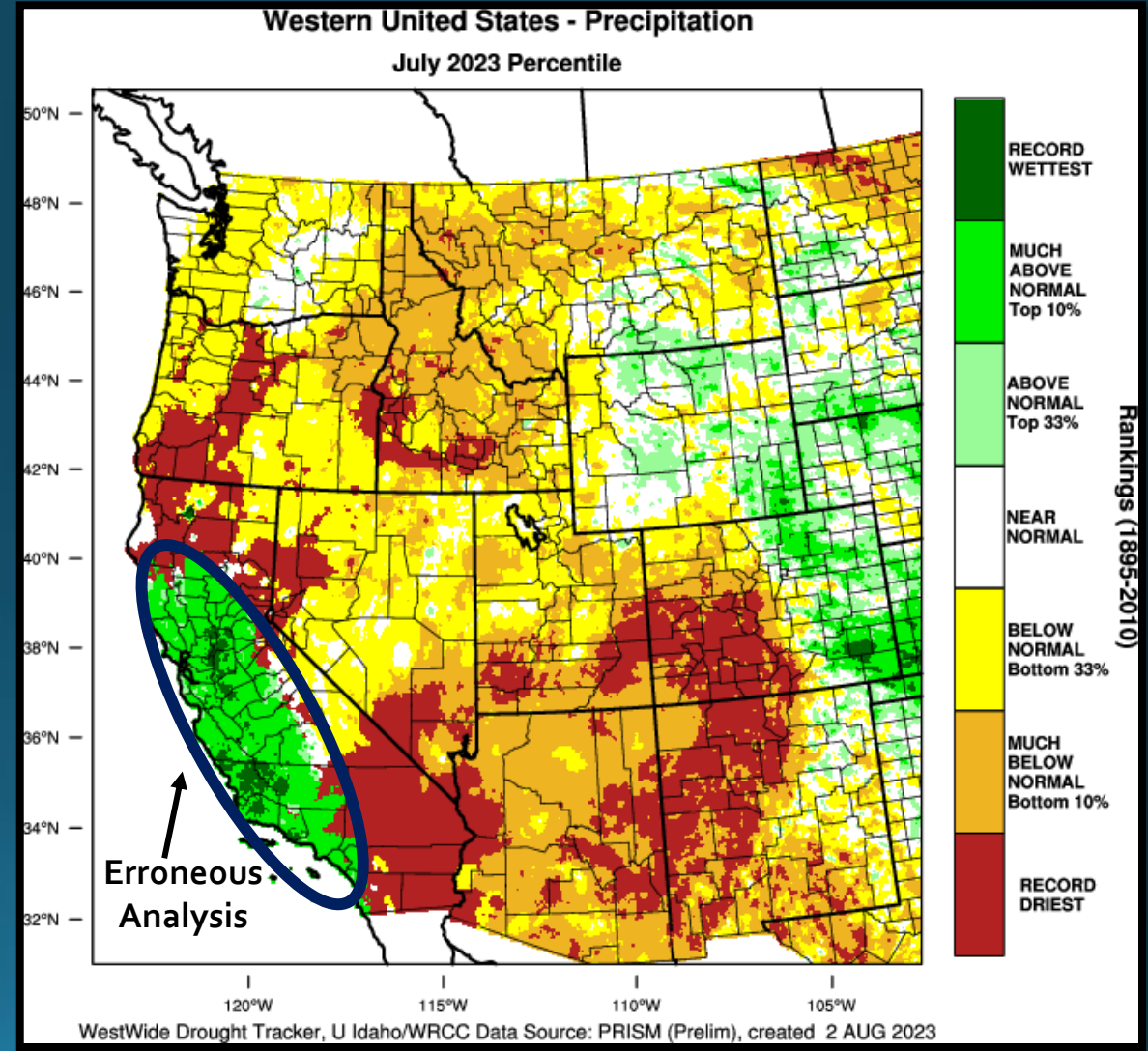
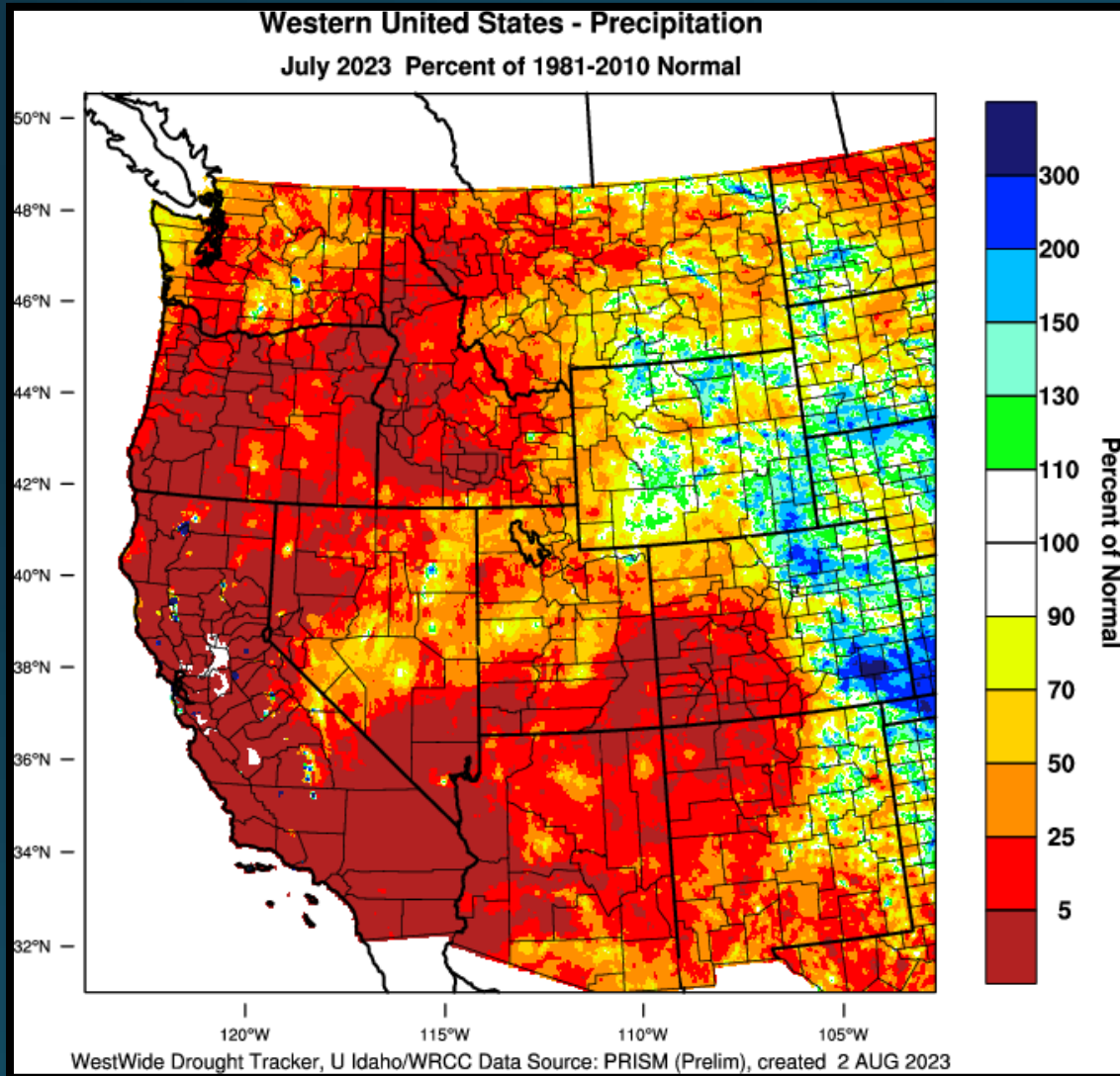
Monthly Max & Min Temperatures

	Max (°F)	Date(s)	Min (°F)	Date(s)
North Bend	74°	24th	49°	1st
Roseburg	101°	15th	52°	9th
Medford	102°	15th	57°	8th & 11th
Klamath Falls	98°	15th	42°	11th
Montague, CA	107°	15th	51°	11th
Mt. Shasta City, CA	100°	15th & 16th	48°	30th & 31st
Alturas, CA	100°	15th & 16th	40°	30th

	Date	Record High	Old Record/Year
Roseburg	4 th	98°F	96°F / 2009
	5 th	98°F	97°F / 1960
Montague	15 th	107°F	105°F / 1990
	16 th	105°F	Ties w/1984
Mt. Shasta City	15 th	100°F	99°F / 1984
	16 th	100°F	98°F / 1972



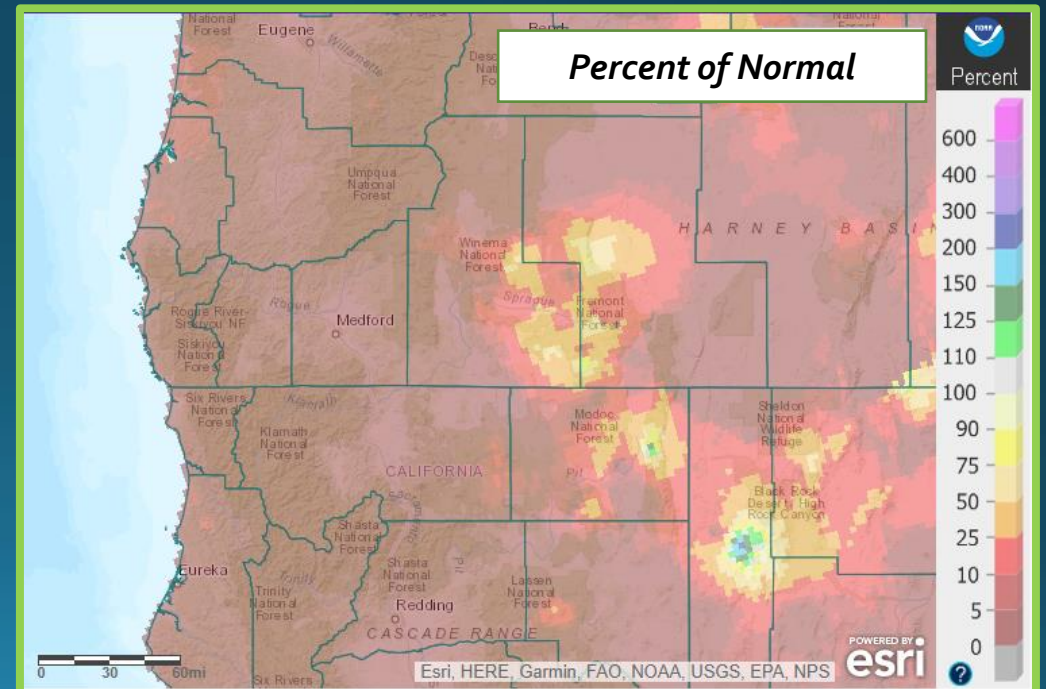
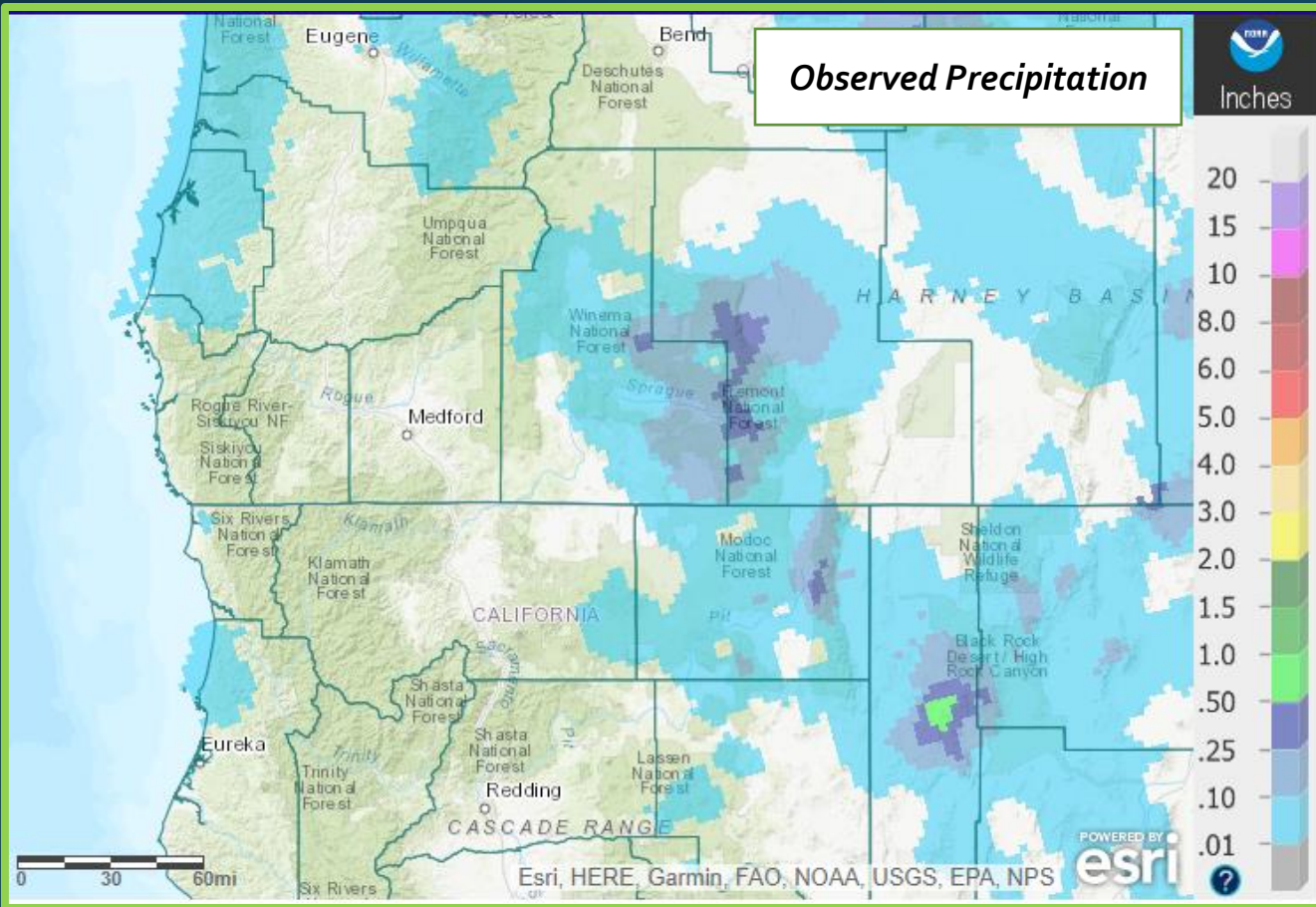
July 2023 Observed Precipitation





Precipitation

	Total	Departure from Normal	Greatest 24-hr Total	Date(s)
North Bend	0.08"	-0.27"	0.07"	24 th – 25 th
Roseburg	0.00"	-0.26"	0.00"	N/A
Medford	0.00"	-0.24"	0.00"	N/A
Klamath Falls	0.00"	-0.22"	0.00"	N/A
Montague, CA	0.00"	-0.16"	0.00"	N/A
Mt. Shasta City, CA	0.00"	-0.28"	0.00"	N/A
Alturas, CA	Trace	-0.29"	Trace	5 th

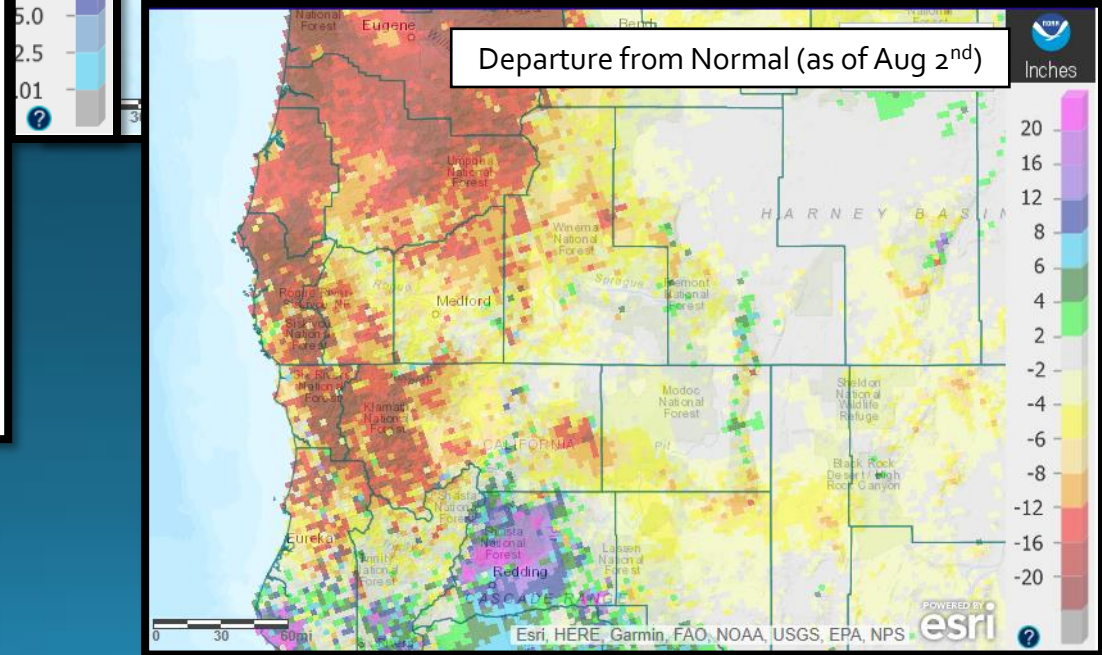
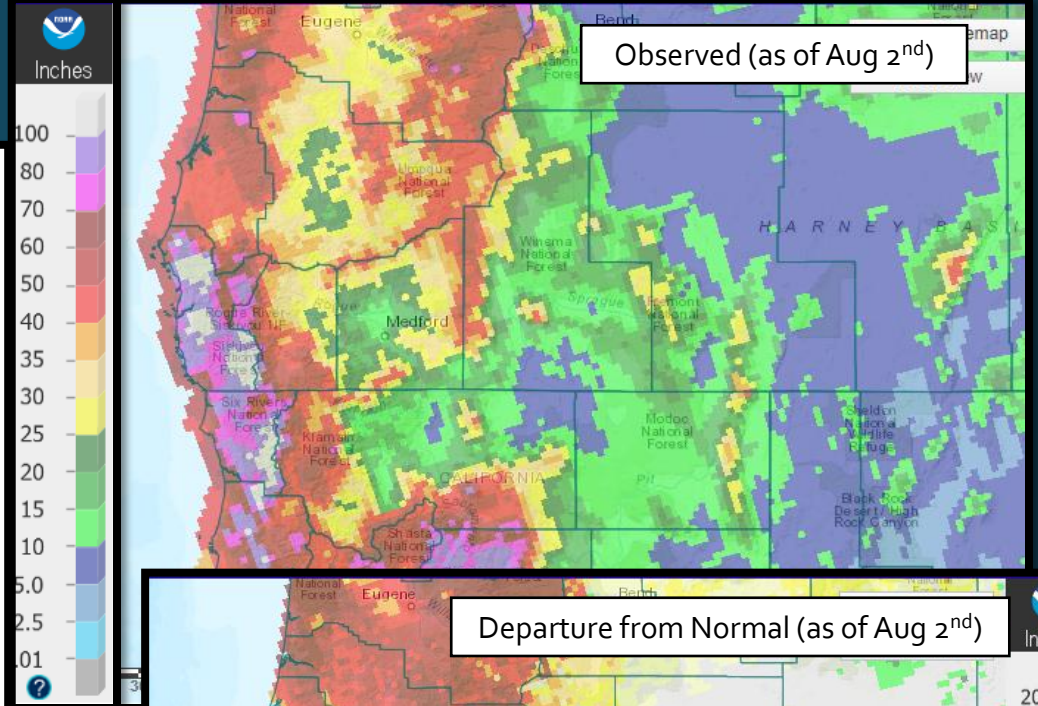
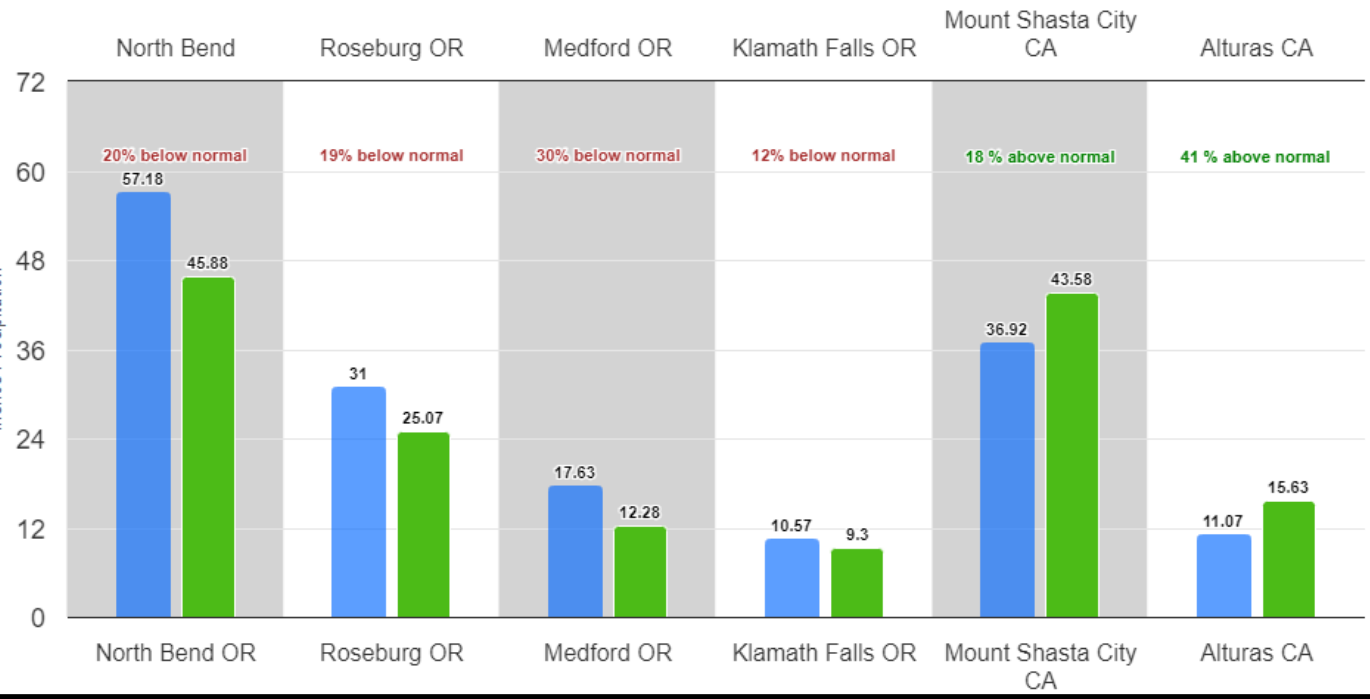




Water Year Status (as of August 2nd)

Climate Sites Water Year Precipitation (Since Oct 1) and Percent of Normal as of 133AM AUG02

■ Normal Precipitation Since Oct 1 ■ 2022/2023 Observed Precipitation Since Oct 1



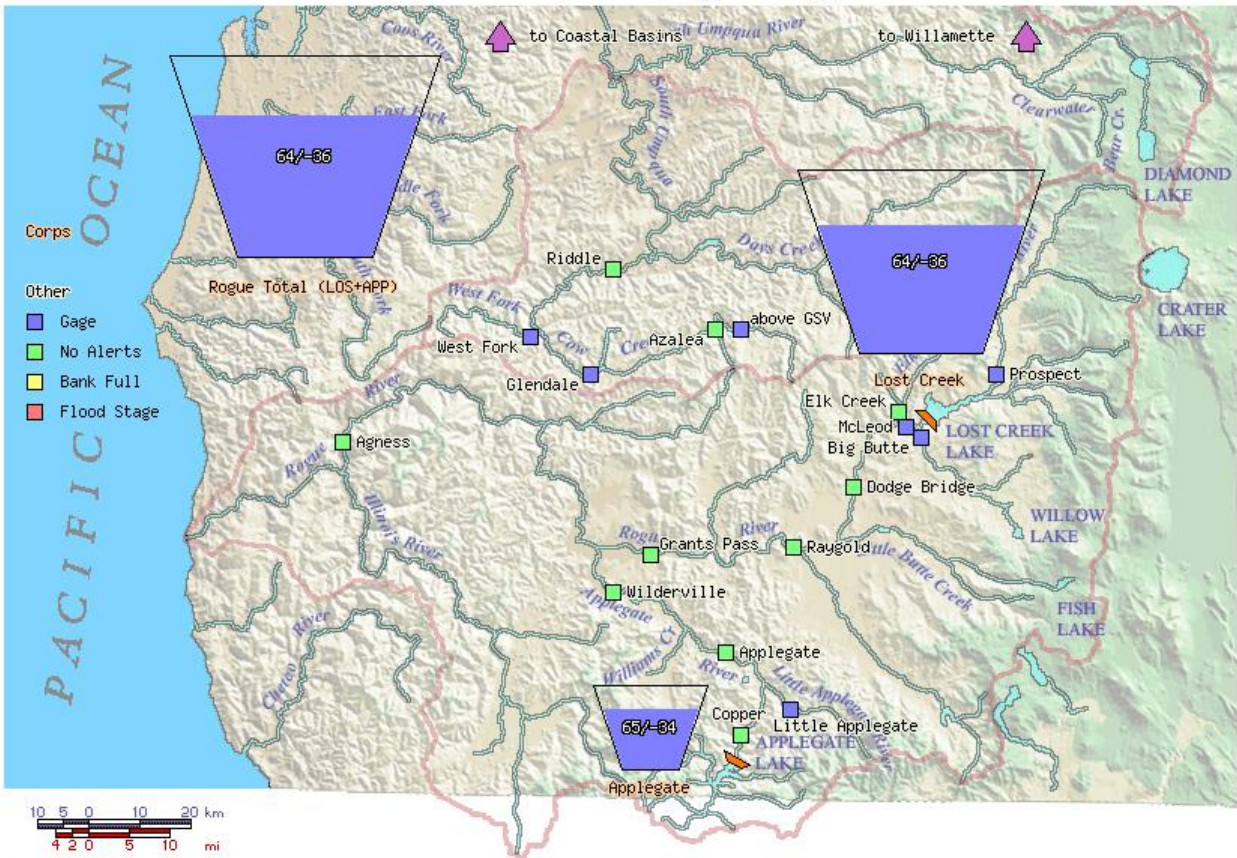


Reservoir Status

Data courtesy of [US Army Corps of Engineers](#)

Data courtesy of [Bureau of Reclamation](#)

Rogue Basin Teacup Diagram



Created: Wed Aug 2 17:25:56 2023

WCD: Water Control Diagram

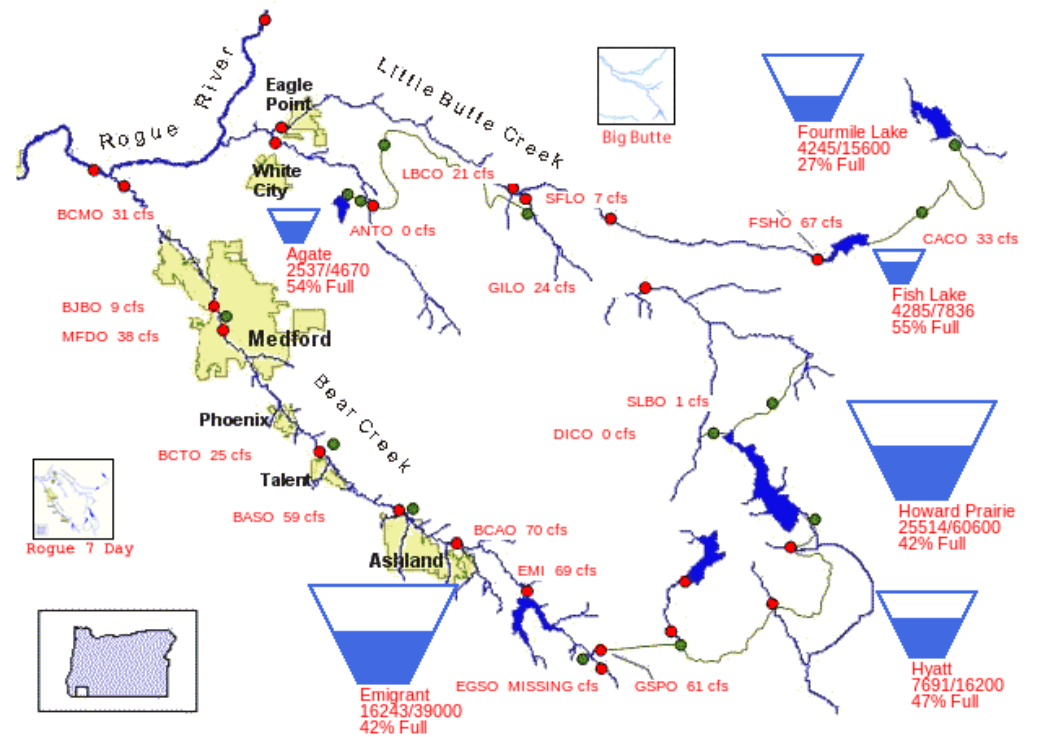
Project numbers: percent full / percent above WCD, where

percent full = (current storage - minimum conservation storage) / (maximum conservation storage - minimum conservation storage)

percent above water control diagram = (current storage - WCD storage) / (maximum conservation storage - minimum conservation storage)

US Bureau of Reclamation, Pacific Northwest Region Bear Creek and Little Butte Creek Basins

08/01/2023

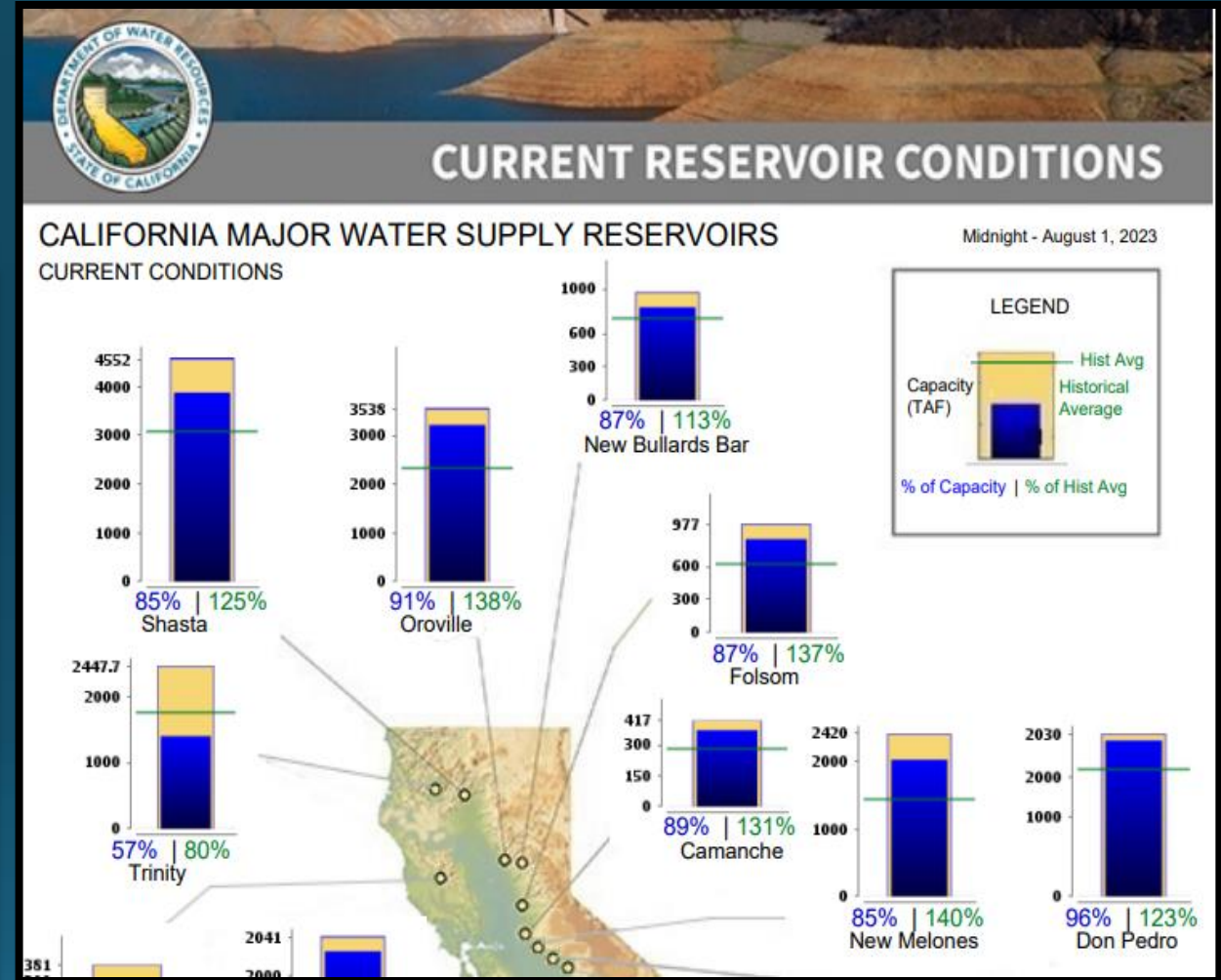
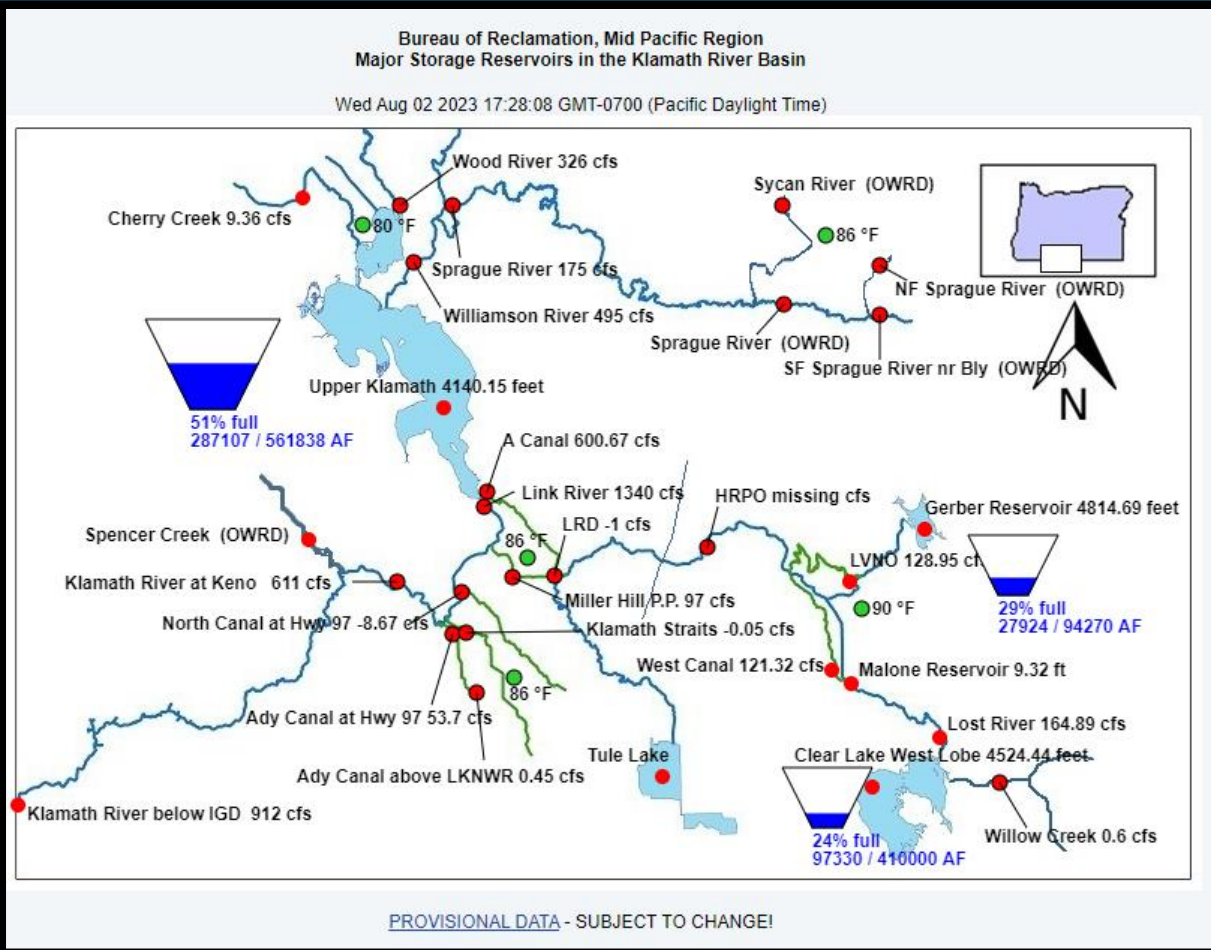


PROVISIONAL DATA - SUBJECT TO CHANGE!



Reservoir Status

Klamath River Basin. Data courtesy of [Bureau of Reclamation](#)



Northern California. [California Data Exchange Center](#)



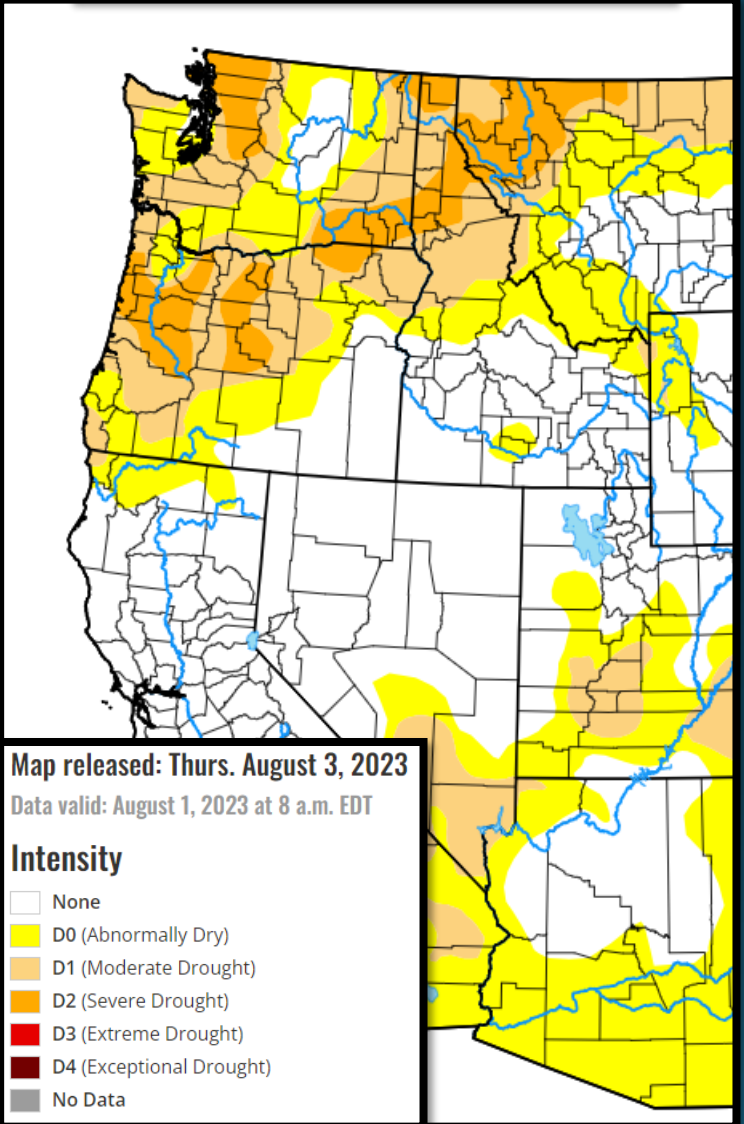
Crater Lake

Image: NPS

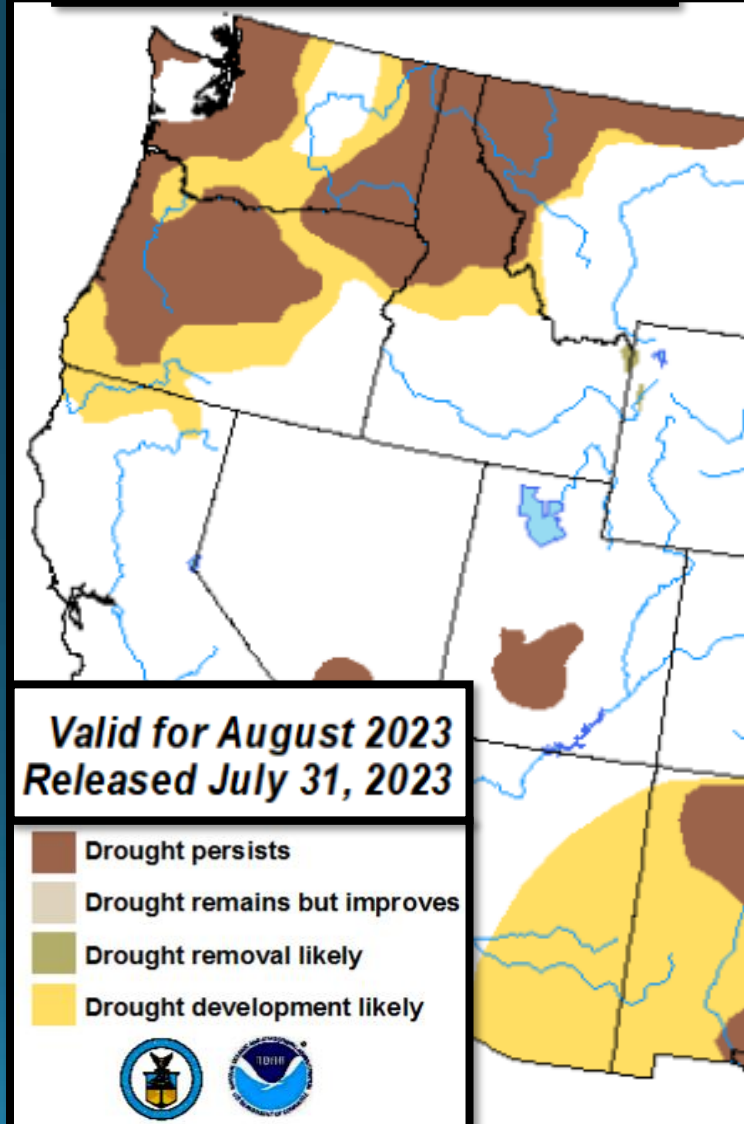
	Average Max Temp (°F)	Average Min Temp (°F)	Total Precipitation	Total Snowfall	Snow Depth as of: 7/31/23	Highest Max/ Lowest Min
July	71.9°	45.8°	0.00"	0.0"	0"	80°F on 16 th / 40°F on 10 th
Normal (1991-2020)	68.9°	41.4°	0.80"	0.0"	0"	N/A

Drought Monitor (Current) & Outlook (August)

United States Drought Monitor



U.S. Monthly Drought Outlook
Drought Tendency During the Valid Period

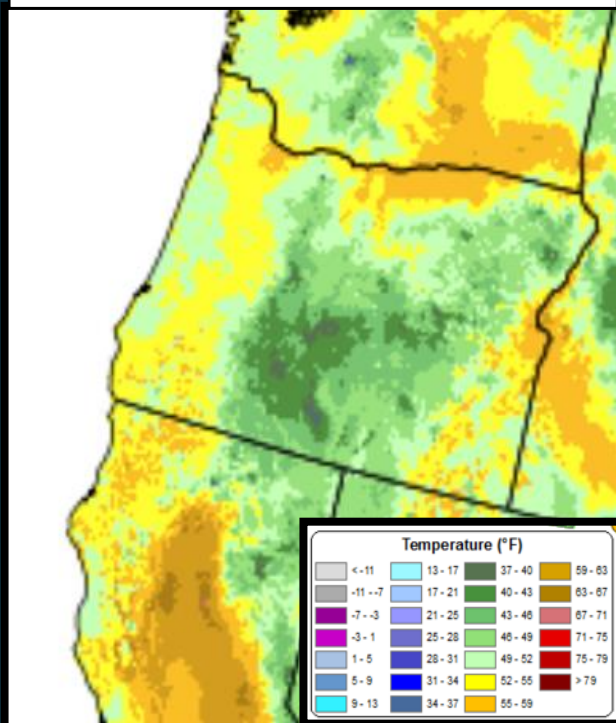




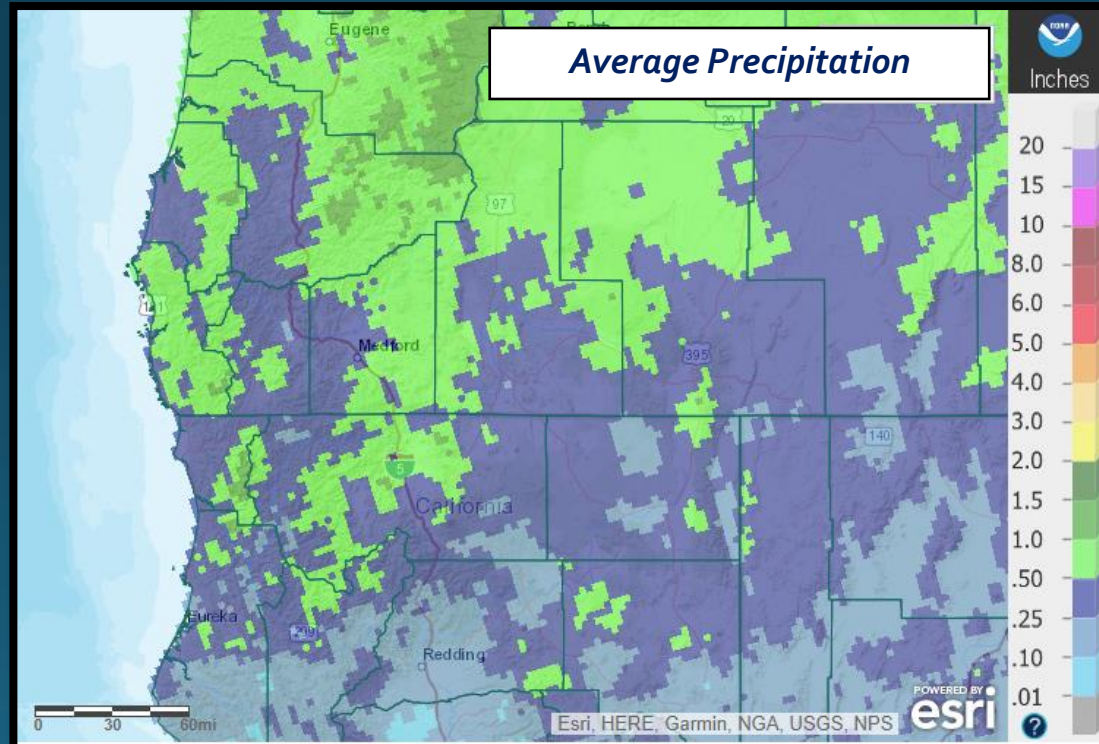
Looking Ahead: Normals for August (1991-2020)

August is typically one of the two driest dry months across the forecast area, but is not as dry as July for areas west from the coastal mountain ranges westward. Lightning and fire activity usually peaks in August. High temperatures are typically at their warmest of the year, and are generally very similar to July's normals. Valley high temperatures are typically in the 80s to lower 90s. Average minimum temperatures are slightly cooler than those of July as nights become increasingly longer. Average minimum temperatures are mostly in the 40s for east side valleys, and in the 40s and 50s for west side valleys. Most of the forecast area usually receives an inch or less of precipitation. Exceptions include portions of the coastal mountain ranges and the higher terrain of eastern Douglas county.

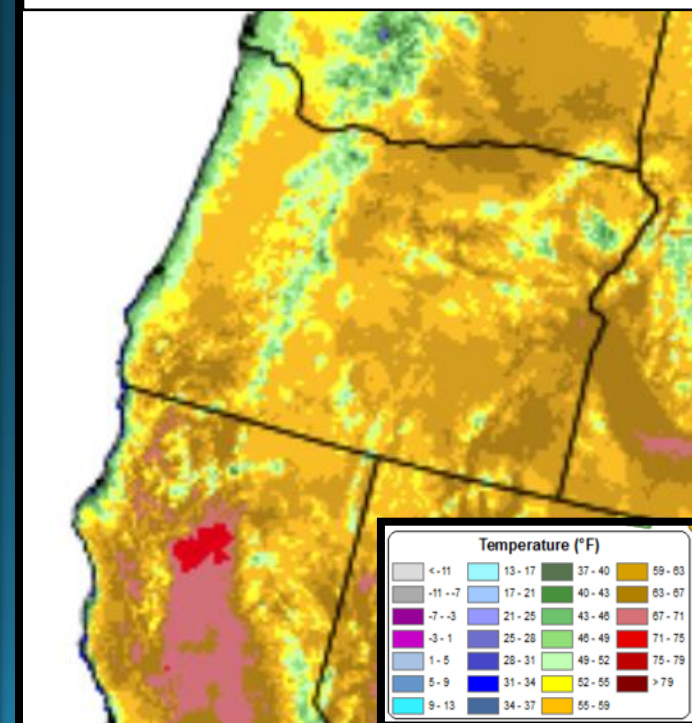
Average Minimum Temperatures



Average Precipitation



Average Maximum Temperatures





*A note about Period of Record (POR)

When looking at record setting events, it's important to consider the length and completeness of the site's period of record (POR). For example, a site might have records dating back to the early 1900's, but if there is a significant portion of the record missing, it's possible that the POR is not encompassing another significant event that might have surpassed the event in question. Therefore, "record setting" should be considered relative to the completeness/length of POR. To help keep records in context, the POR for each climate site is listed below:

- **North Bend: 01/1902 – Present**
- **Roseburg: 04/1900 – Present**
 - ❖ *Missing:*
 - 05/1900-01/1901
 - 03/1901-06/1902
 - 08/1902-12/1930
 - 10/1965-06/1997
- **Medford: 03/11/1911 – Present**
- **Klamath Falls: 12/1897 – Present**
- **Montague, CA: 07/1948 – Present**
 - ❖ *Missing:*
 - 08-09/1952
 - 02/1953-06/2000
- **Mount Shasta City, CA: 04/1948 – Present**
- **Alturas, CA: 05/1935 – Present**