

National Weather Service Medford

2022: May 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 \(NCEI\)](#).



May 2022 Weather Review

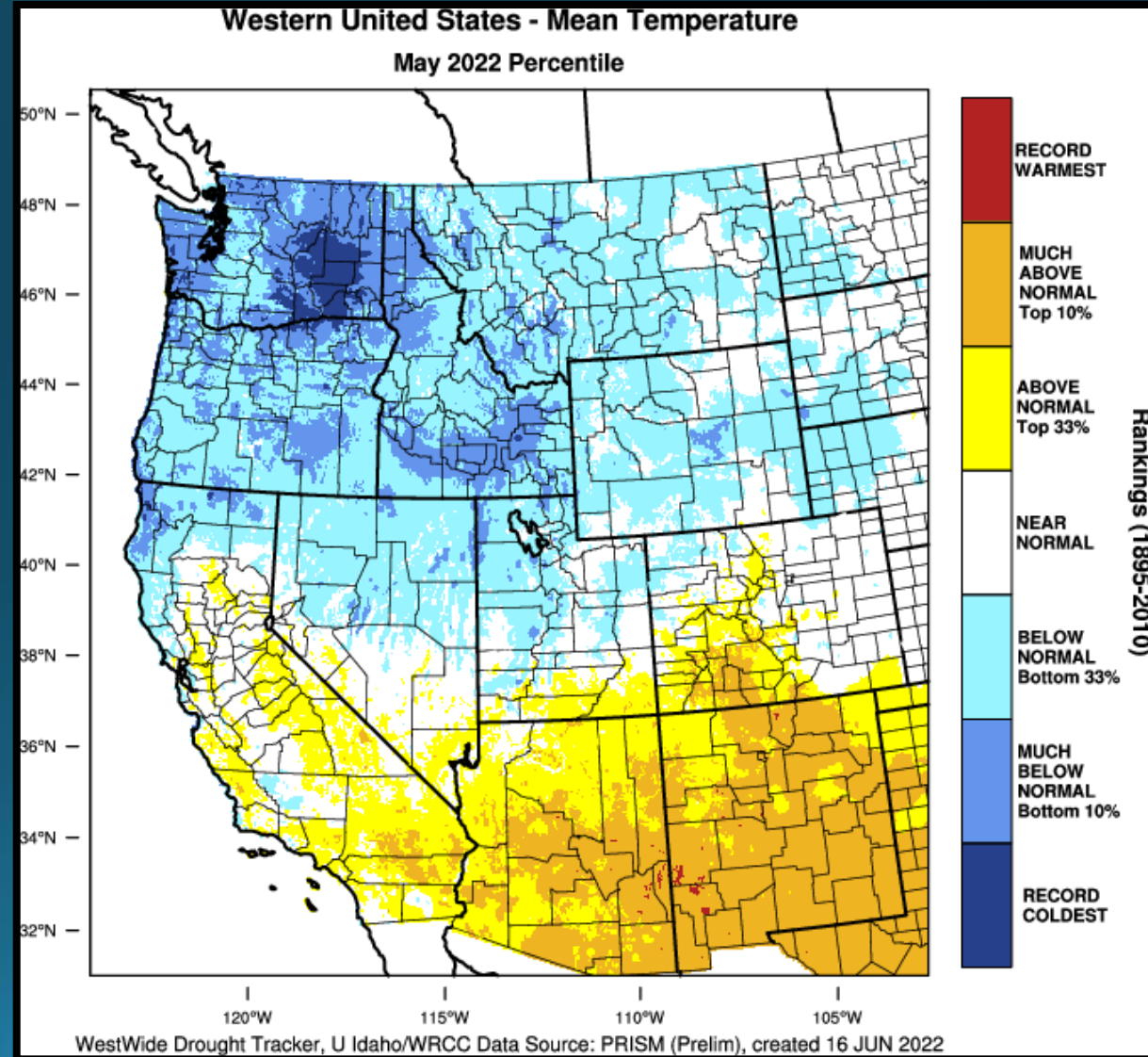
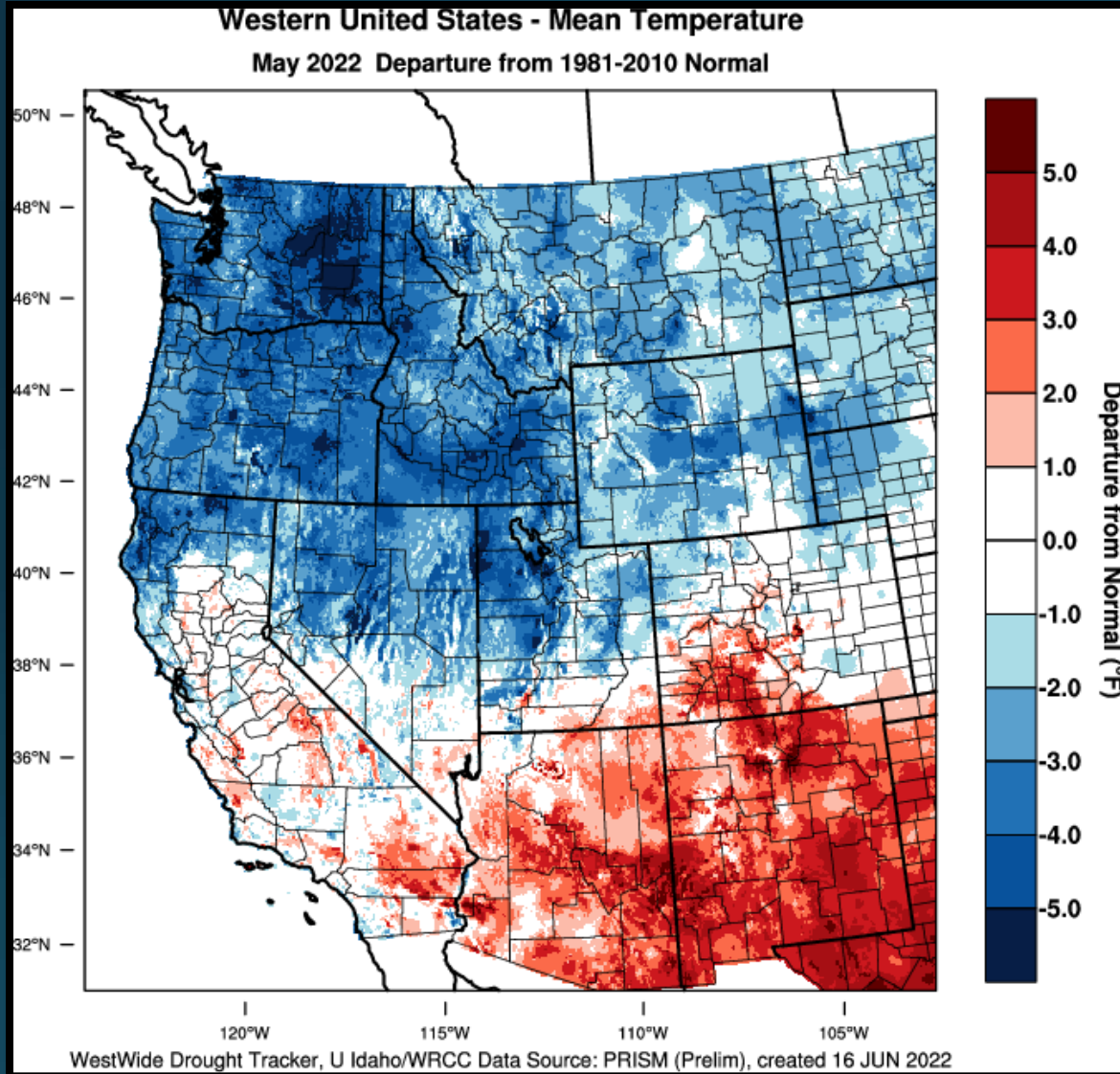
The cooler and wetter trend from the end of April continued well into May, though there was a brief break on the 4th and 5th. Anomalous troughing settled over the Pacific Northwest for the first half of May, and this brought a parade of fronts through the region. Cool temperatures, gusty winds, and beneficial precipitation accompanied each of these fronts. The most significant of these fronts, affected the region from the 8th to the 10th, and during this time, snow levels dipped to around 1500 ft. This brought snow down to some west side valley floors, though no accumulation occurred. Crater Lake, however, recorded almost a foot of snow with this front. The coldest temperatures of the month also occurred during this time, and every climate site in the forecast area set a new daily record low maximum temperature on the 8th and/or 9th. Active weather and well below normal temperatures continued into the middle of the month, though temperatures trended warmer after the 10th.

The anomalous trough finally moved to the east around the 15th and a period of zonal flow followed through the 20th. This resulted in more seasonable temperatures and a period of dry conditions. The frequency of active weather really slowed down after the middle of the month when, instead of a front coming through roughly every other day, it became more of a once a week occurrence. The next period of troughing returned from the 20th to the 22nd. This brought cooler temperatures, with values slightly below normal, but precipitation was scarce with this system. Upper level ridging followed this trough, and brought a sharp warm up to the region with temperatures reaching 5 to 10 degrees above normal. The Medford Airport came close to reaching it's first 90 degree day of the year on the 25th, but only managed to reach 88 degrees. Another period of troughing followed this ridge, and with temperatures returning to below normal values, this ended the chance for the Medford Airport to reach it's first 90 degree day of the year this month. This is notable considering the average first date for Medford to reach 90 degrees is May 20th.

With relatively persistent troughing, especially during the first half of the month, overall monthly temperatures were below normal and precipitation was near to above normal for much of the forecast area. This late season activity significantly helped to reduce water deficits, improve snowpack by May standards, and more importantly, slow the onset of fire season. Though water deficits were significantly improved, drought conditions persisted across much of the area into June.



May 2022 Observed Temperatures





Average Temperatures

	Average (°F)	Departure from Normal	Average Max (°F)	Departure from Normal	Average Min (°F)	Departure from Normal
North Bend	51.8	-2.4°	58.3	-2.2°	45.3	-2.7°
Roseburg	56.6	-2.9°	66.9	-4.1°	46.4	-1.5°
Medford	57.4	-3.0°	69.7	-4.2°	45.0	-1.9°
Klamath Falls	47.2	-4.5°	63.0	-4.2°	31.4	-4.8°
Montague, CA	54.4	-0.5°	71.1	2.4°	37.8	-3.2°
Mt. Shasta City, CA	53.6	-0.8°	67.8	-1.3°	39.3	-0.4°
Alturas, CA	48.2	-4.3°	64.8	-3.1°	31.6	-5.6°



Monthly Max & Min Temperatures

	Max (°F)	Date(s)	Min (°F)	Date(s)
<i>North Bend</i>	75°	26th	38°	11th
<i>Roseburg</i>	83°	25th	37°	9th
<i>Medford</i>	88°	25th	34°	20th
<i>Klamath Falls</i>	83°	25th	21°	3rd & 11th
<i>Montague, CA</i>	91°	25th	24°	8th & 11th
<i>Mt. Shasta City, CA</i>	88°	25th	22°	9th
<i>Alturas, CA</i>	85°	25th	14°	9th



May Temperature Records

	Date	Record High	Old Record/Year
North Bend	26 th	75°	72° / 1919

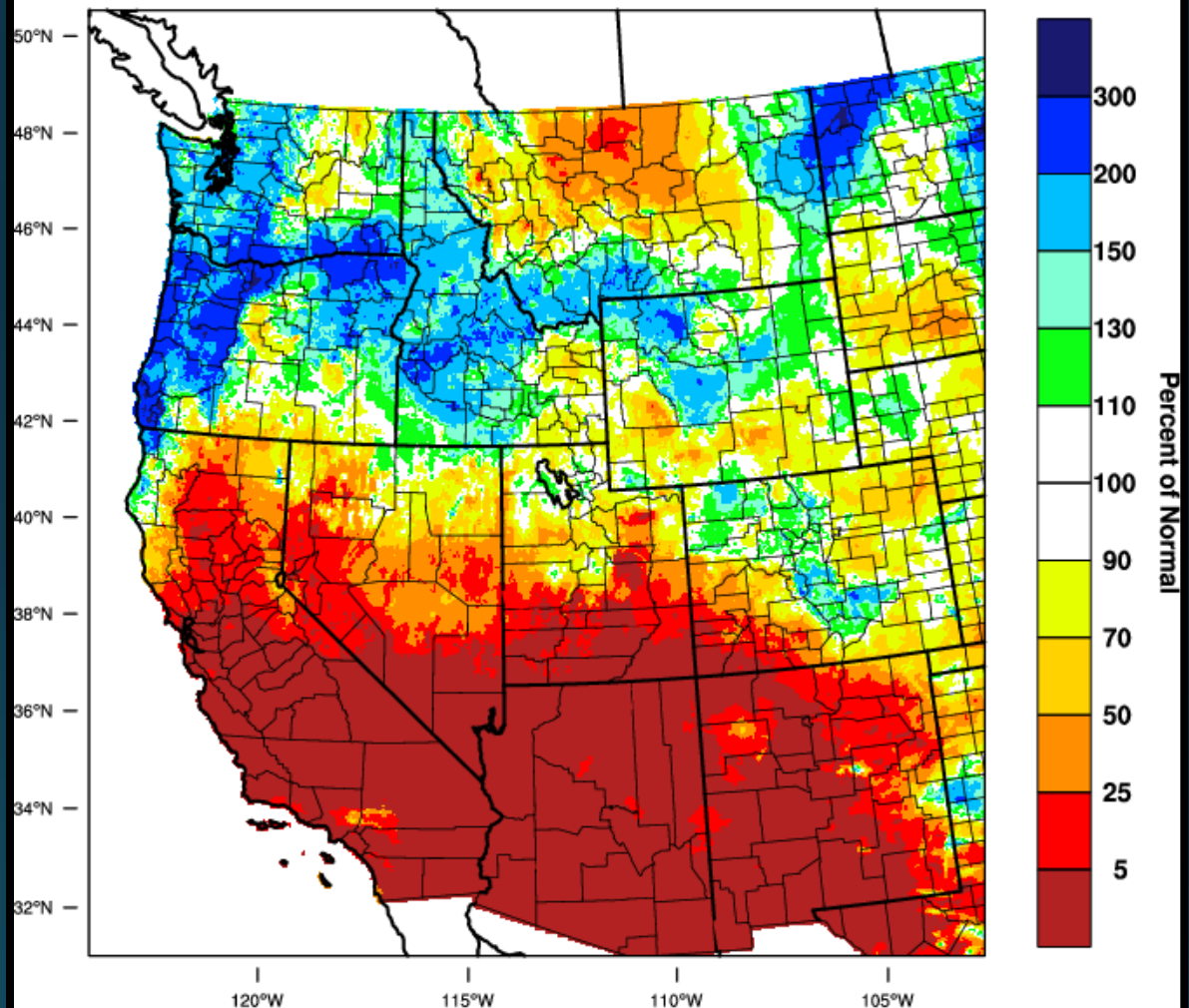
	Date	Record Low Max	Old Record/Year
Medford	8 th	50°F	Ties w/1922
Klamath Falls	8 th	39°	44° / 1922
	9 th	43°	44° / 1953
Alturas	8 th	41°	Ties w/2003
	9 th	42°	43° / 2003
Mt Shasta City	9 th	47°	48° / 1977
North Bend	9 th	49°	51° / 1967
	29 th	55°	Ties w/2011
Roseburg	8 th	50°	Ties w/1933
Montague	8 th	48°	51° / 2003
	9 th	49°	53° / 2005

	Date	Record Low	Old Record/Year
<i>Klamath Falls</i>	11 th	21°	24° / 1909
	17 th	25°	Ties w/ 1965
<i>Mt Shasta City</i>	8 th	27°	29° / 1977
	9 th	22°	29° / 1985
<i>Alturas</i>	8 th	19°	21° / 1990
	9 th	14°	22° / 1990
	31 st	26°	27° / 1978
<i>Montague</i>	3 rd	27°	Ties w/1959
	8 th	24°	27° / 1965
	11 th	24°	27° / 1970
	20 th	34°	35° / 2003



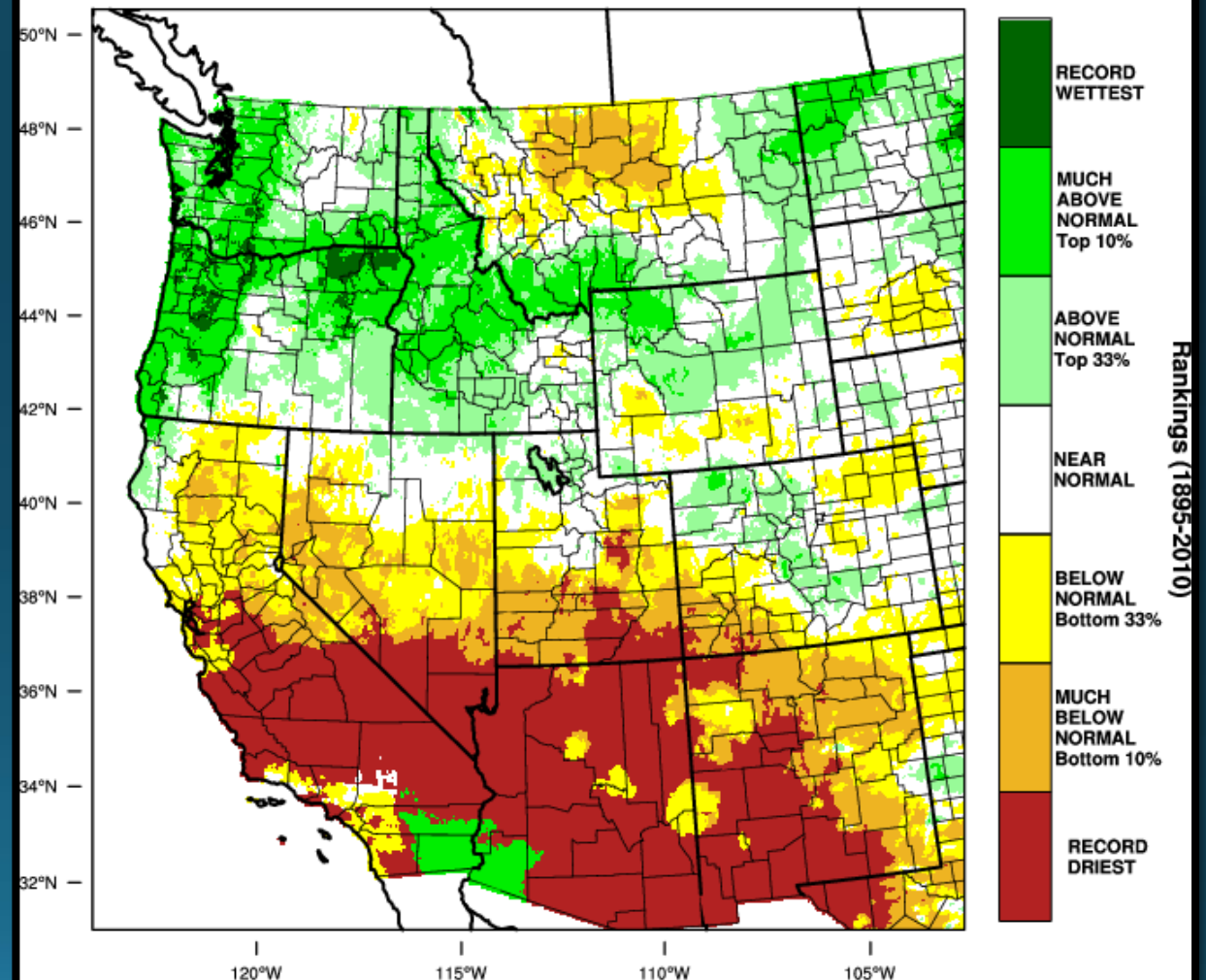
May 2022 Observed Precipitation

Western United States - Precipitation
May 2022 Percent of 1981-2010 Normal



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 JUN 2022

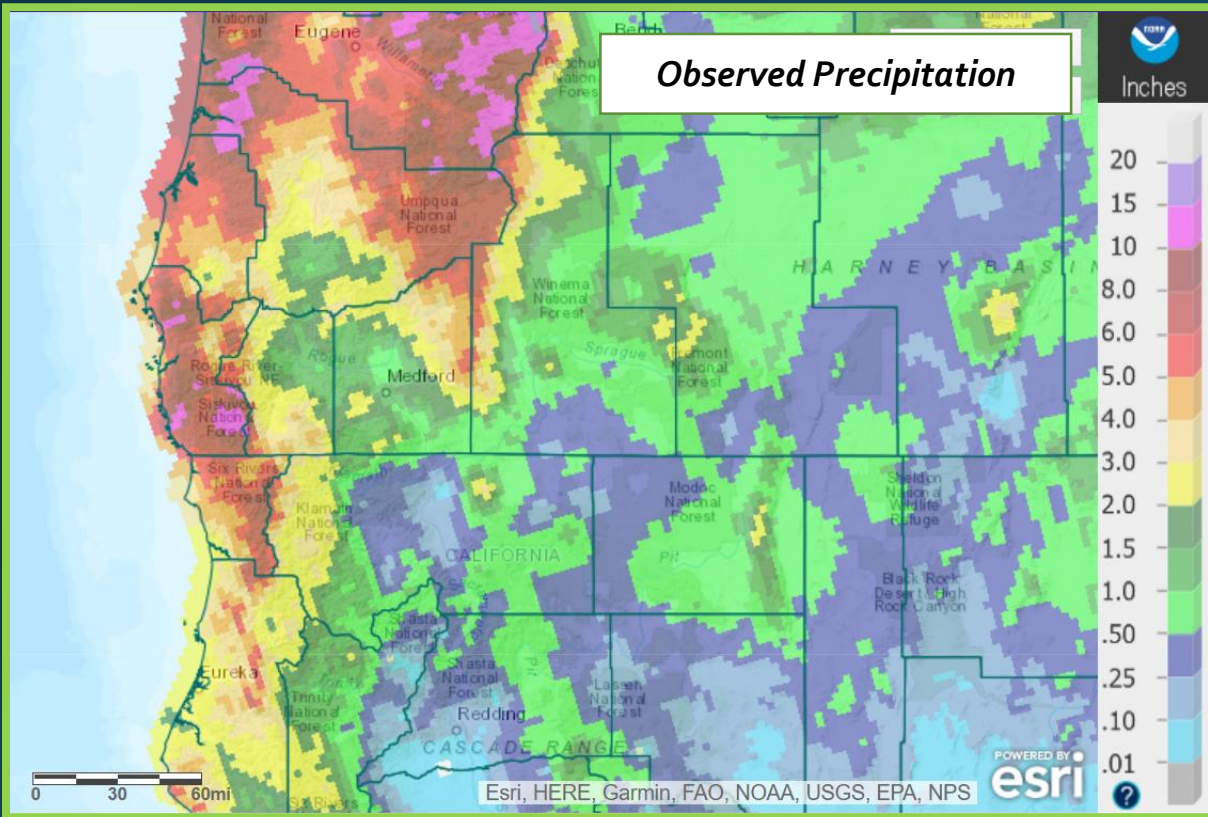
Western United States - Precipitation
May 2022 Percentile



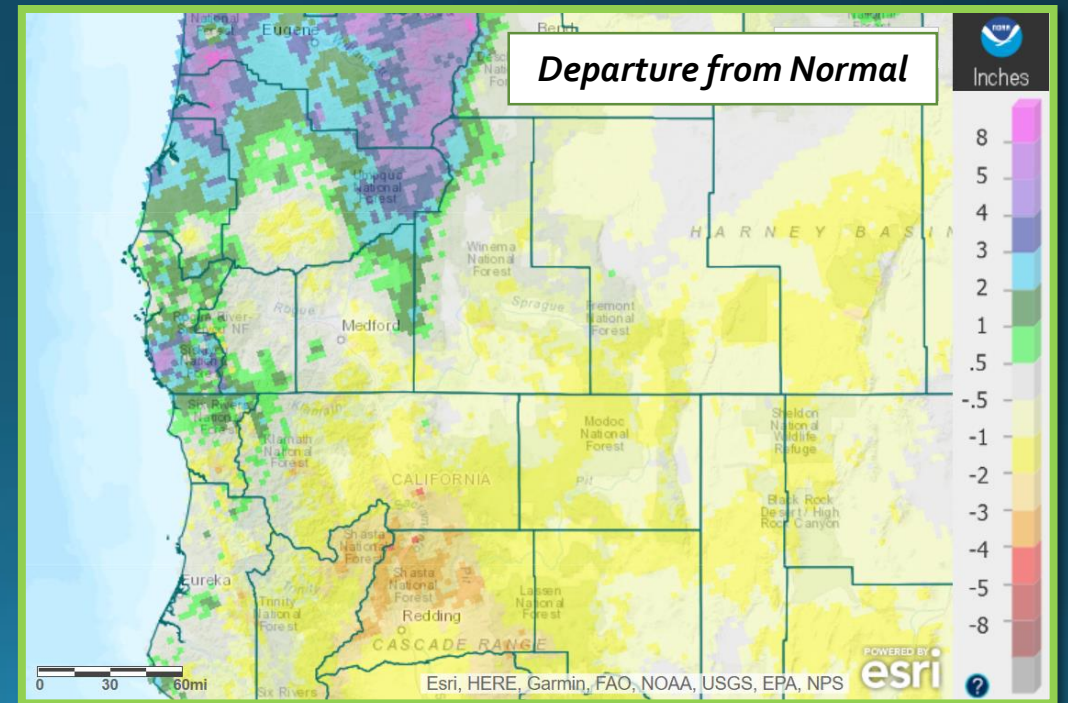
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 16 JUN 2022



Precipitation



	Total	Departure from Normal	Greatest 24-hr Total	Date(s)
North Bend	5.11"	2.16"	1.08"	13 th – 14 th
Roseburg	2.68"	0.59"	0.51"	5 th
Medford	0.82"	-0.52"	0.19"	9 th – 10 th
Klamath Falls	0.41"	-0.63"	0.14"	27 th – 28 th
Montague, CA	0.06"	-2.04"	0.02"	5 th
Mt. Shasta City, CA	0.54"	-1.68"	0.25"	9 th
Alturas, CA	0.72"	-0.54"	0.19"	8 th – 9 th

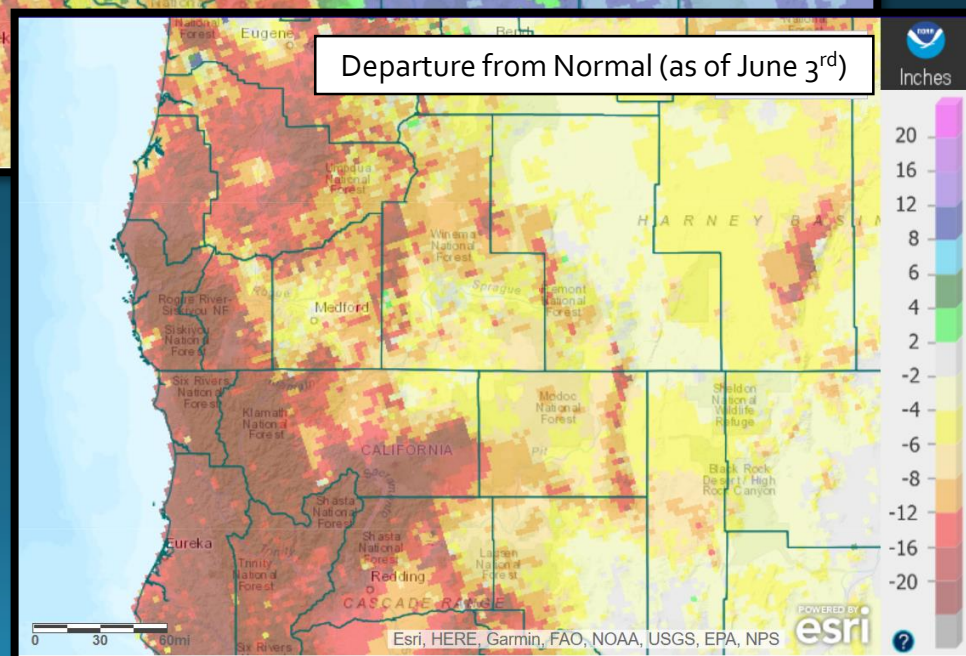
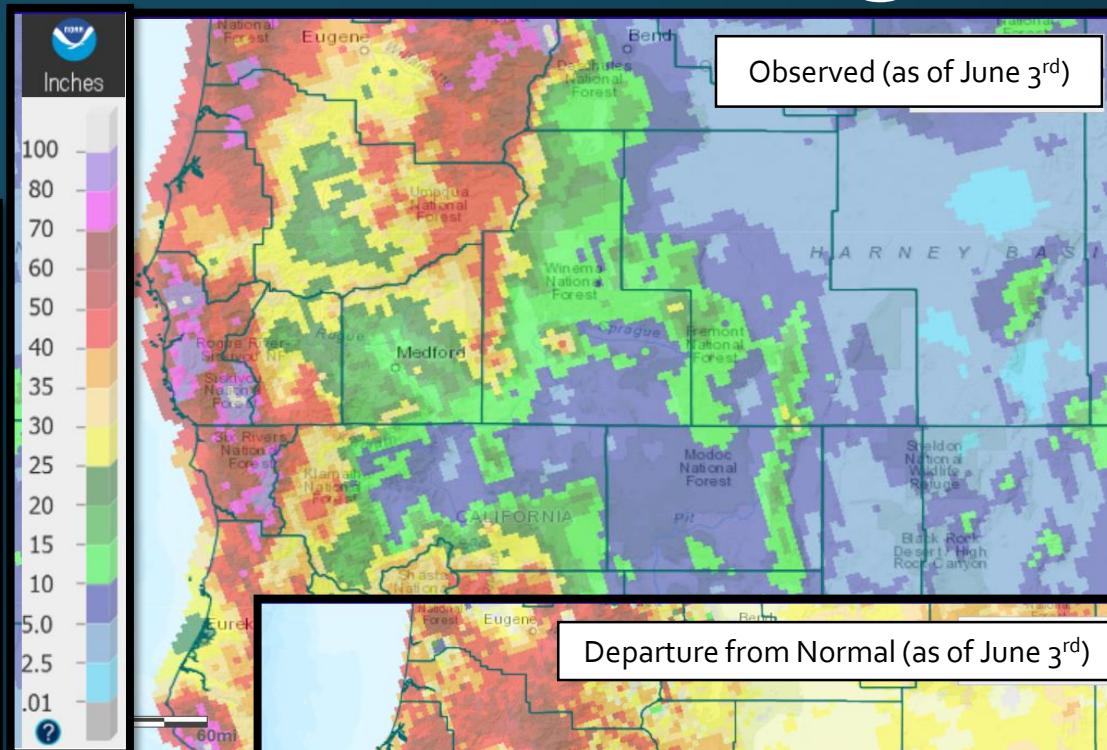
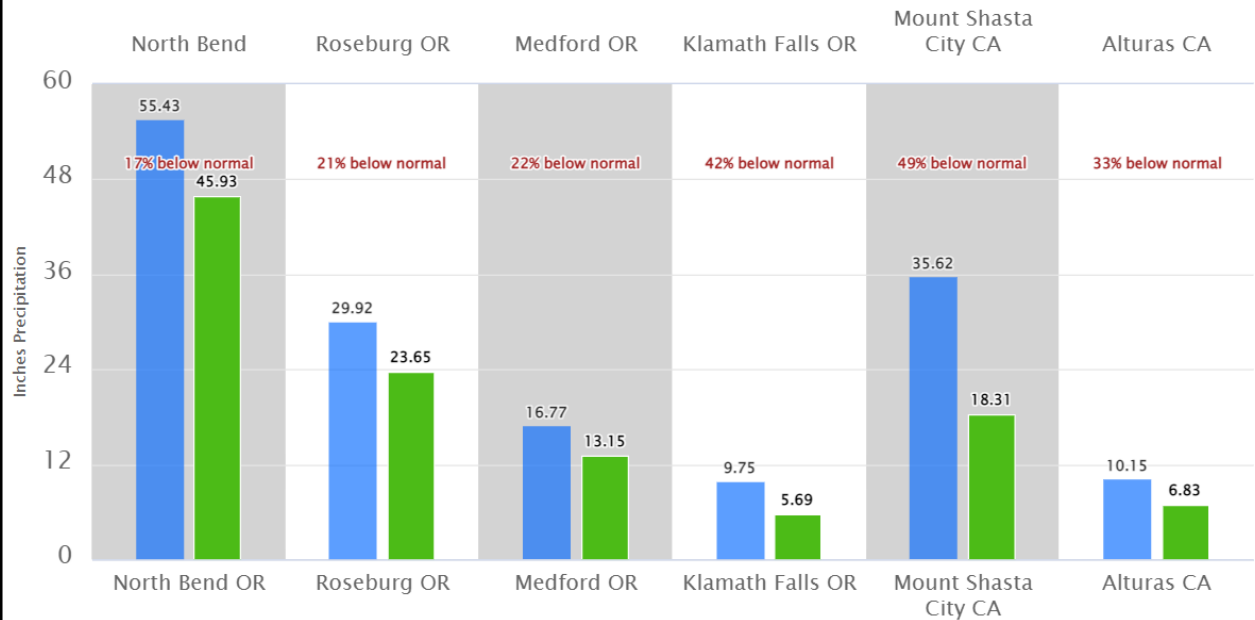




Water Year Status (As of June 3rd)

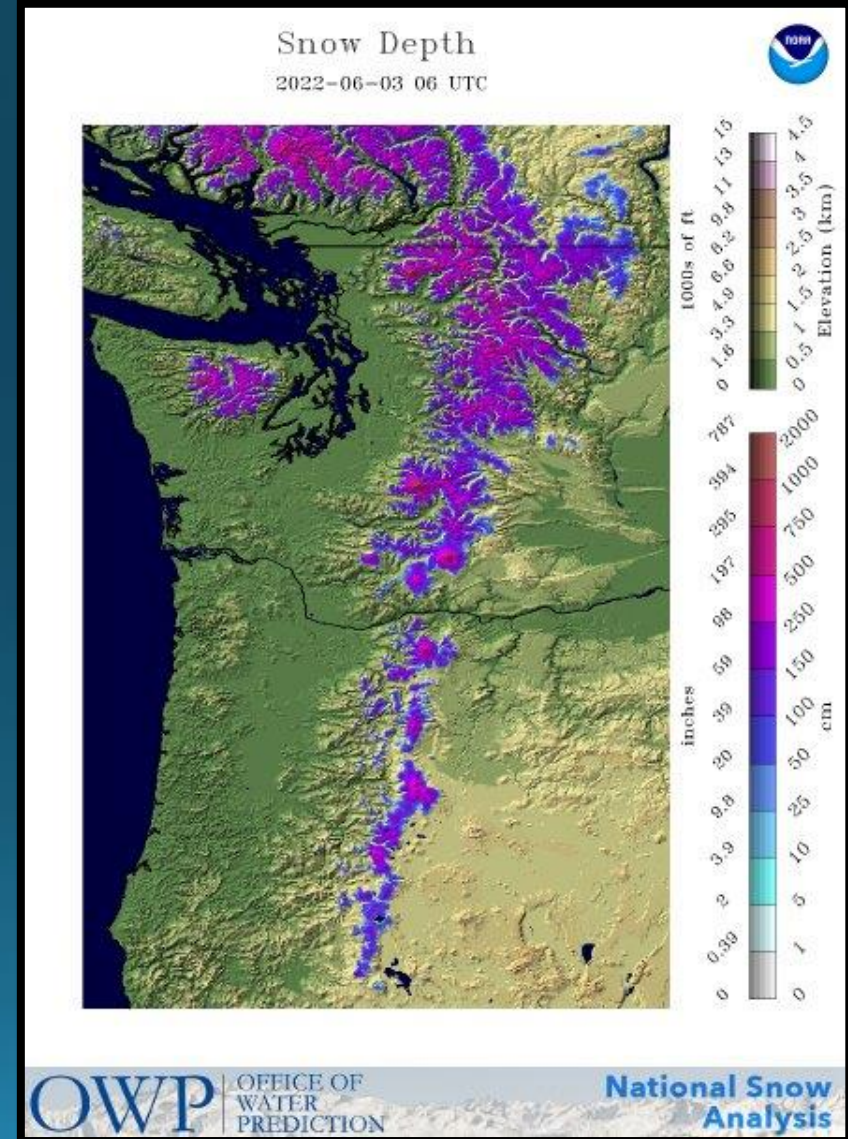
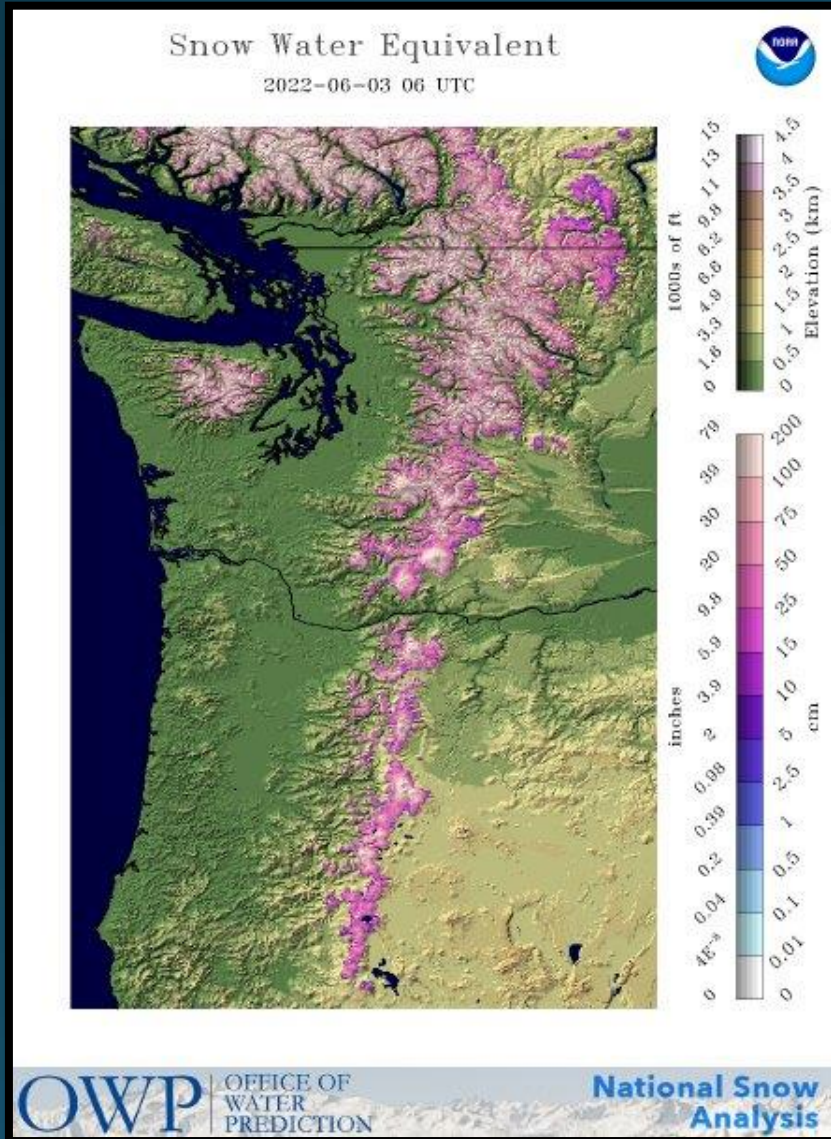
Climate Sites Water Year Precipitation (Since Oct 1) and Percent of Normal as of 131AM JUN03

■ Normal Precipitation Since Oct 1 ■ 2021/2022 Observed Precipitation Since Oct 1

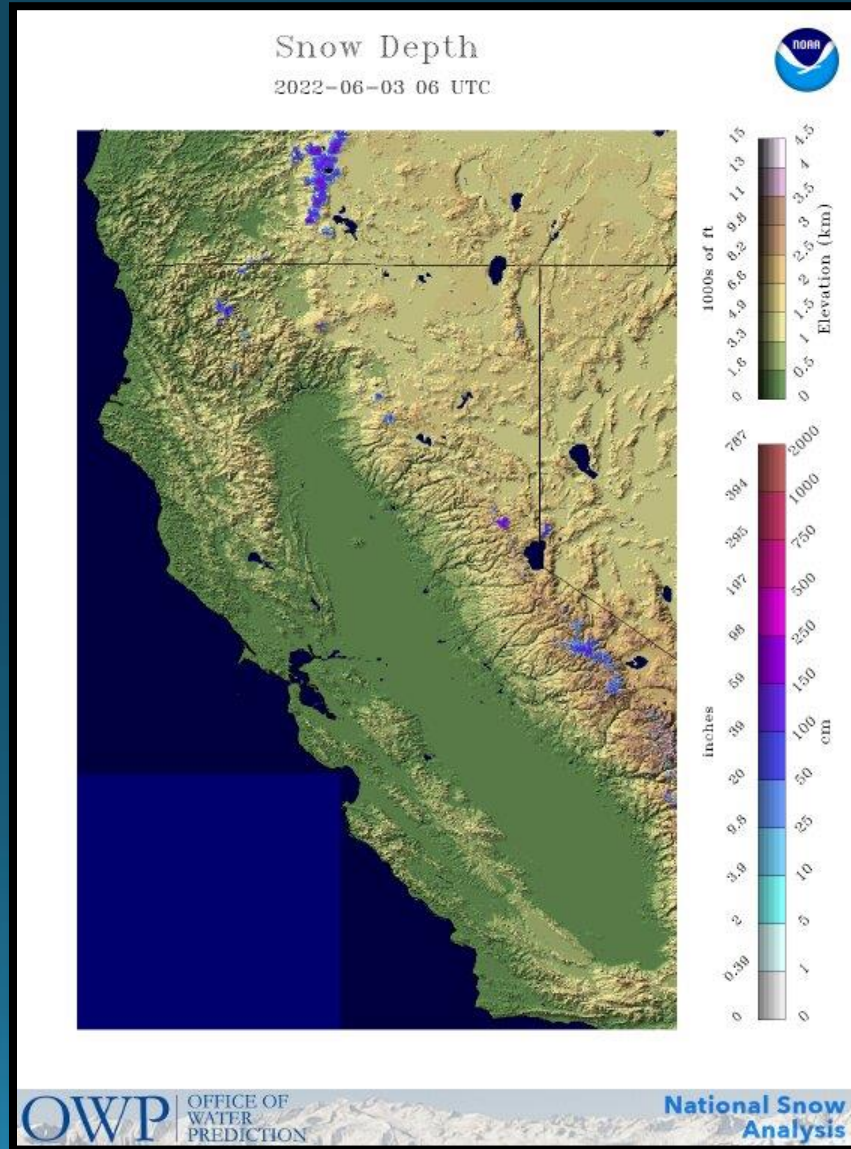
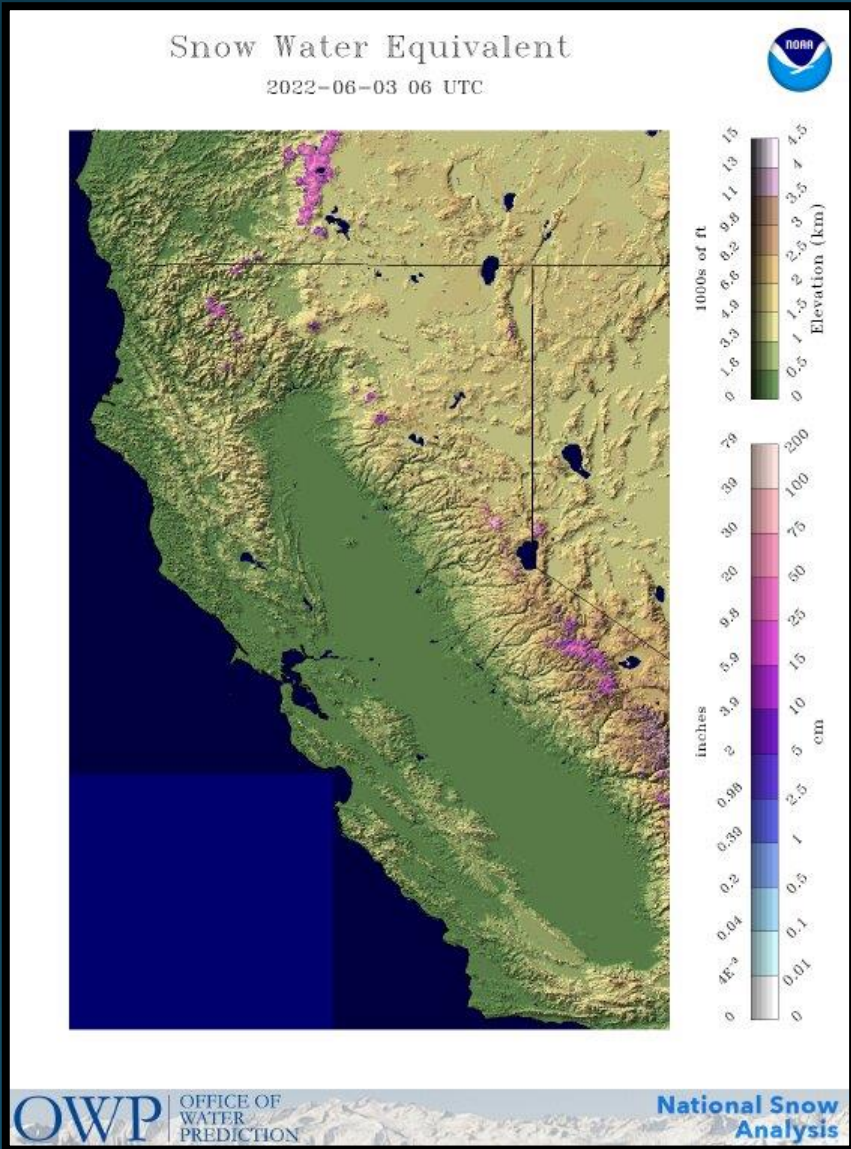




PacNW SWE & Snow Depth as of 6/3/22

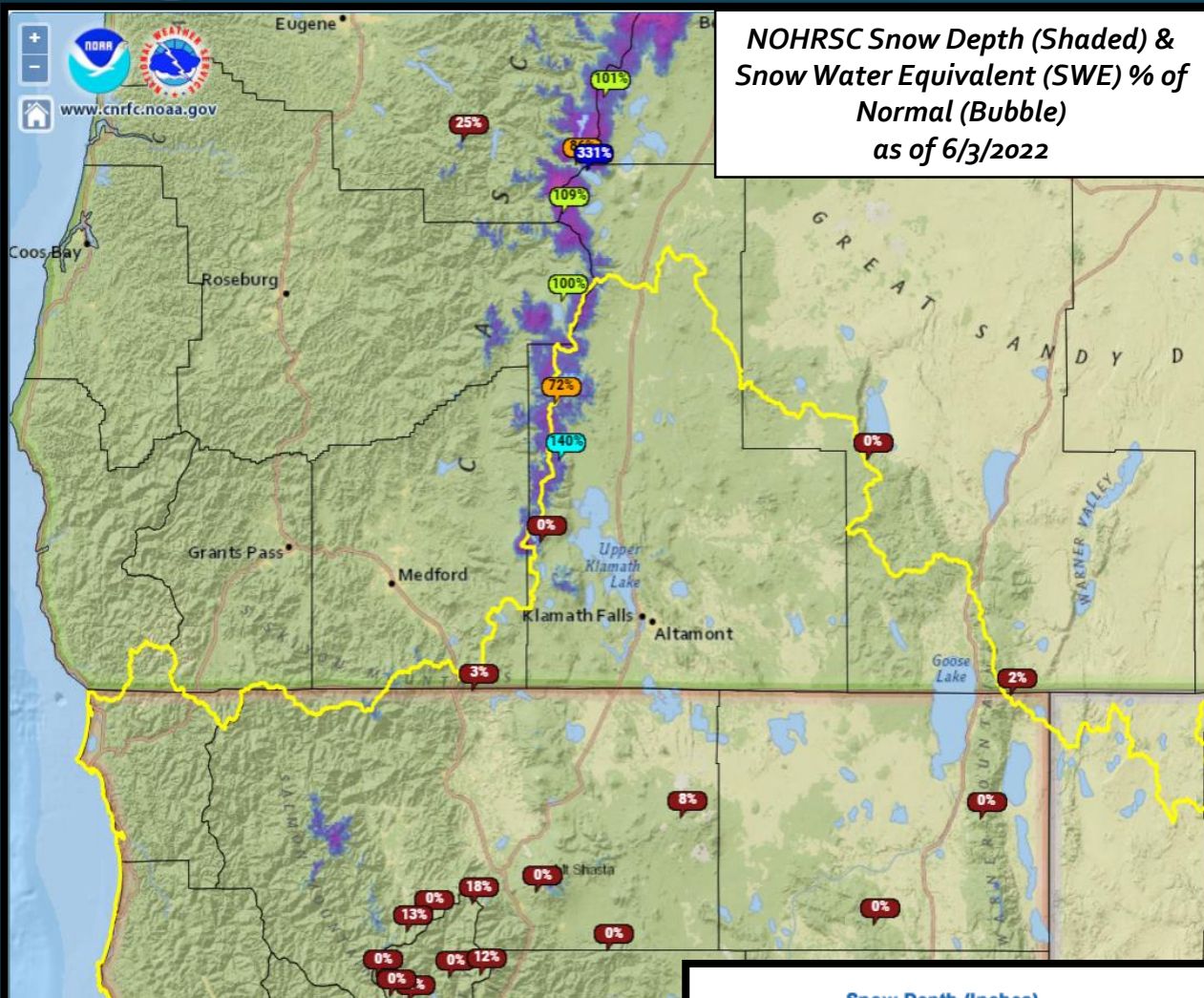


California SWE & Snow Depth as of 6/3/22

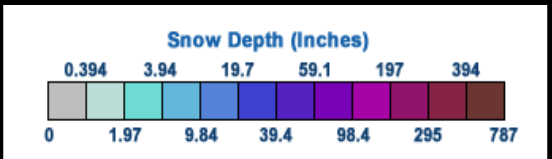
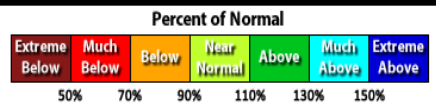




Snowpack Status



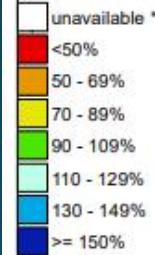
NOHRSC Snow Depth (Shaded) & Snow Water Equivalent (SWE) % of Normal (Bubble) as of 6/3/2022



Westwide SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Jun 03, 2022

Current Snow Water Equivalent (SWE) Basin-wide Percent of 1991-2020 Median



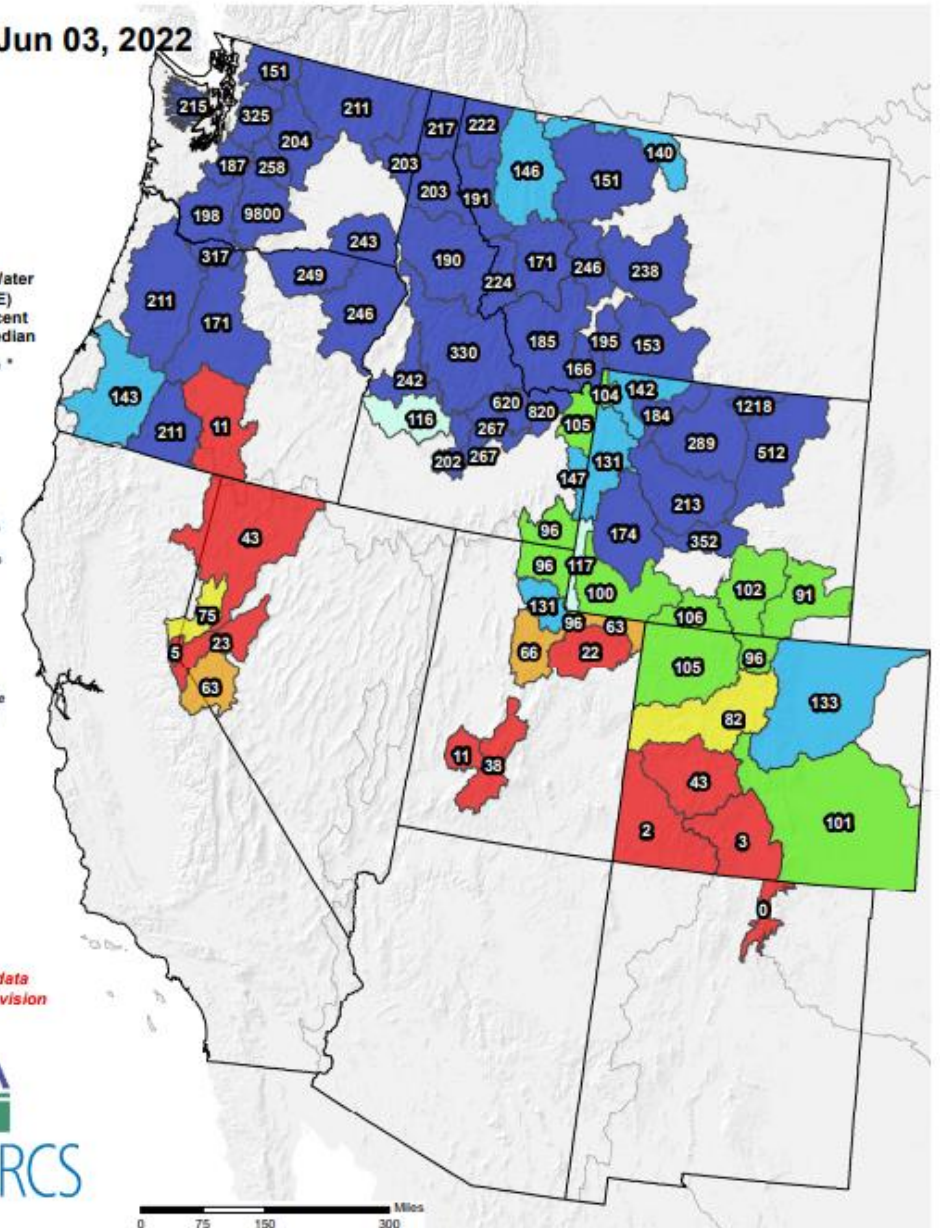
* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional data subject to revision



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<https://www.nrcs.usda.gov/wps/portal/wcc/home/>



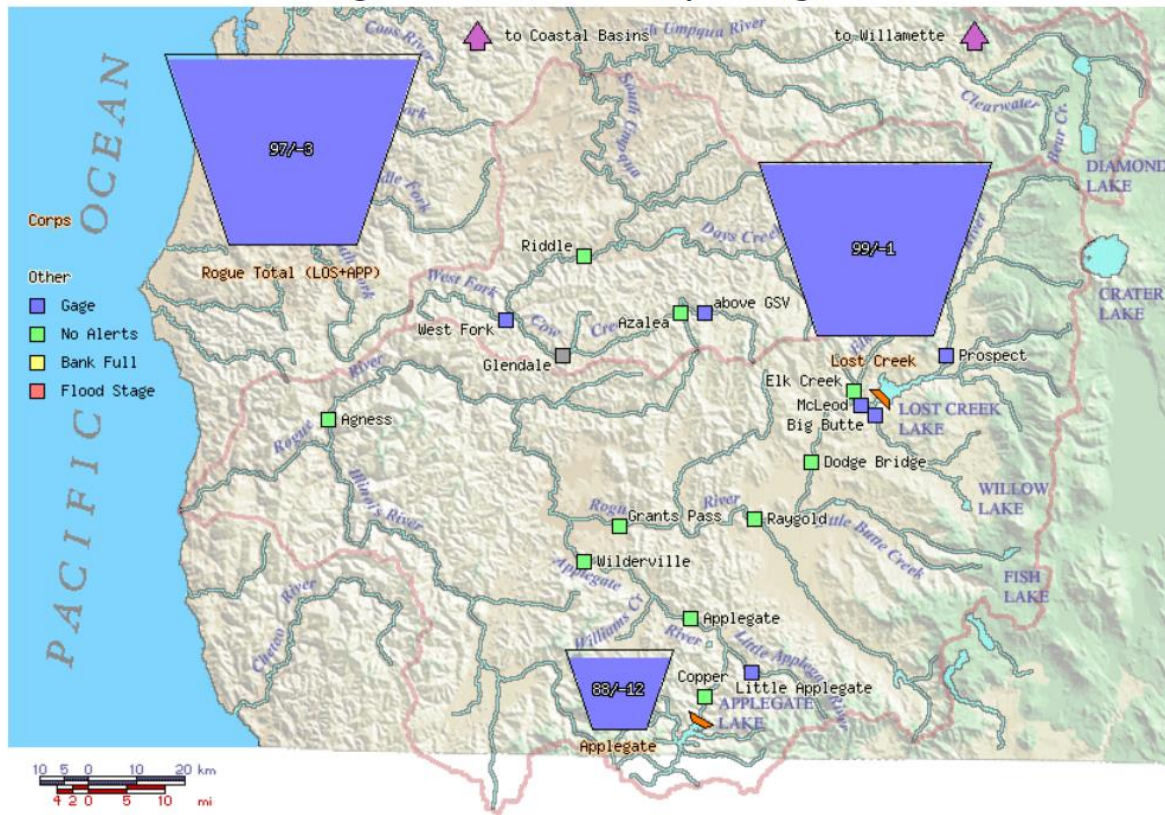


Reservoir Status

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

Data courtesy of [Bureau of Reclamation](#)

Rogue Basin Teacup Diagram

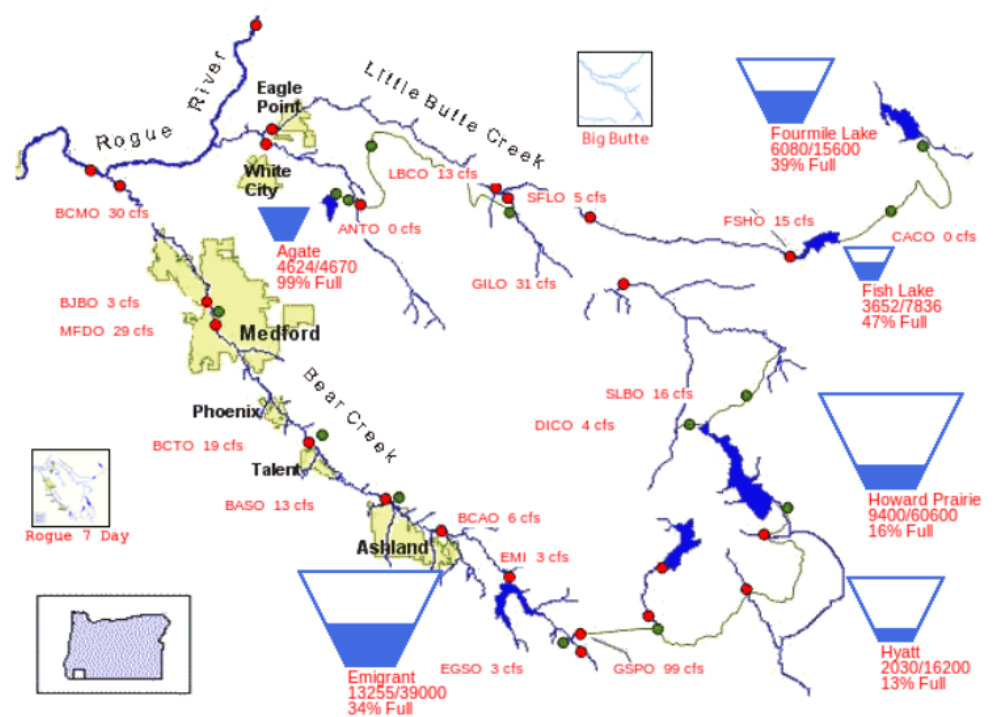


Created: Fri Jun 3 12:40:32 2022
WCD: Water Control Diagram

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

06/02/2022

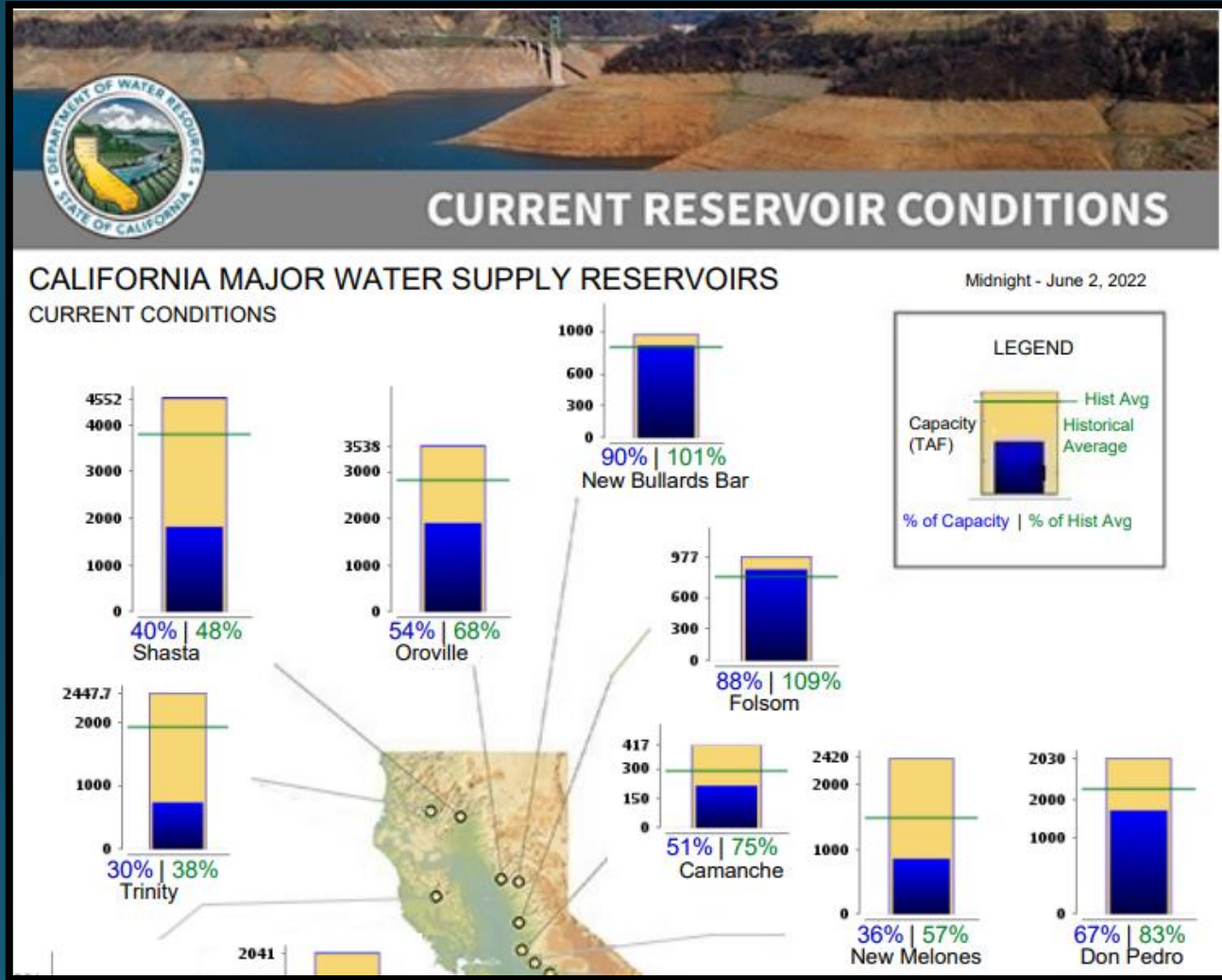
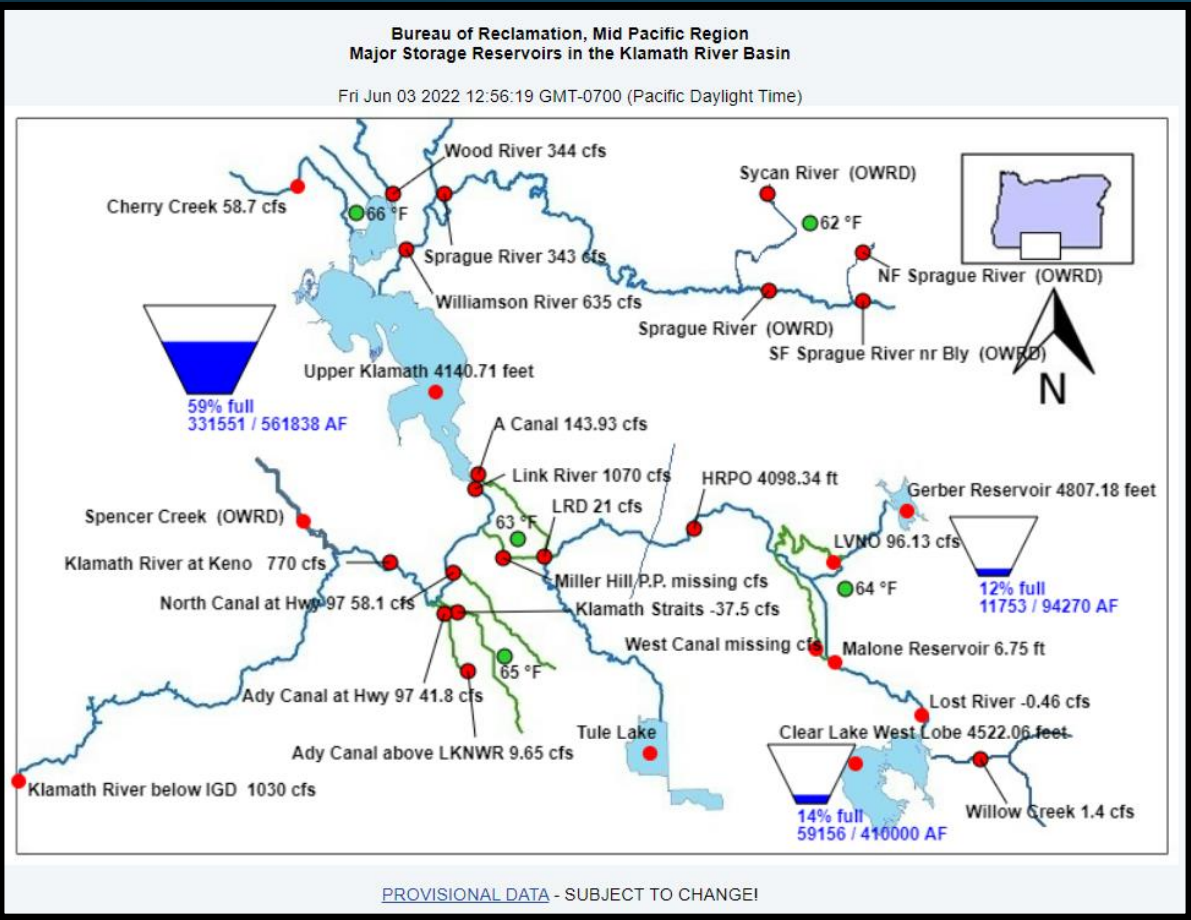


PROVISIONAL DATA - SUBJECT TO CHANGE!

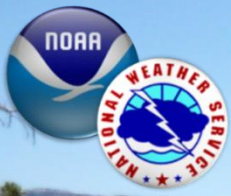


Reservoir Status

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



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



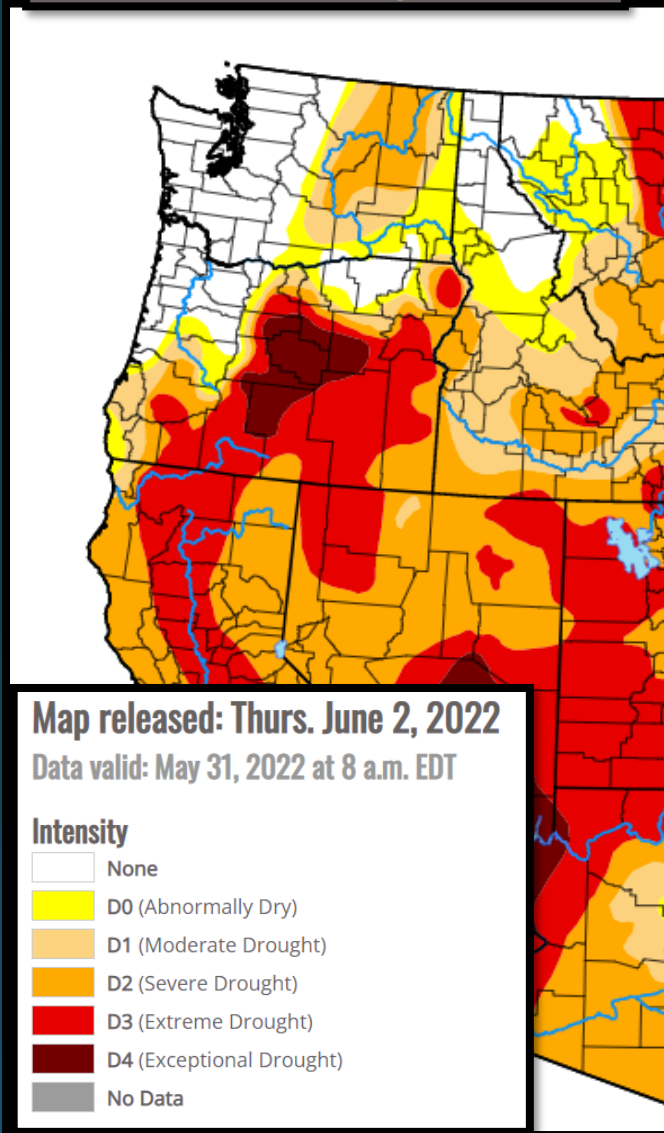
Crater Lake

Image: NPS

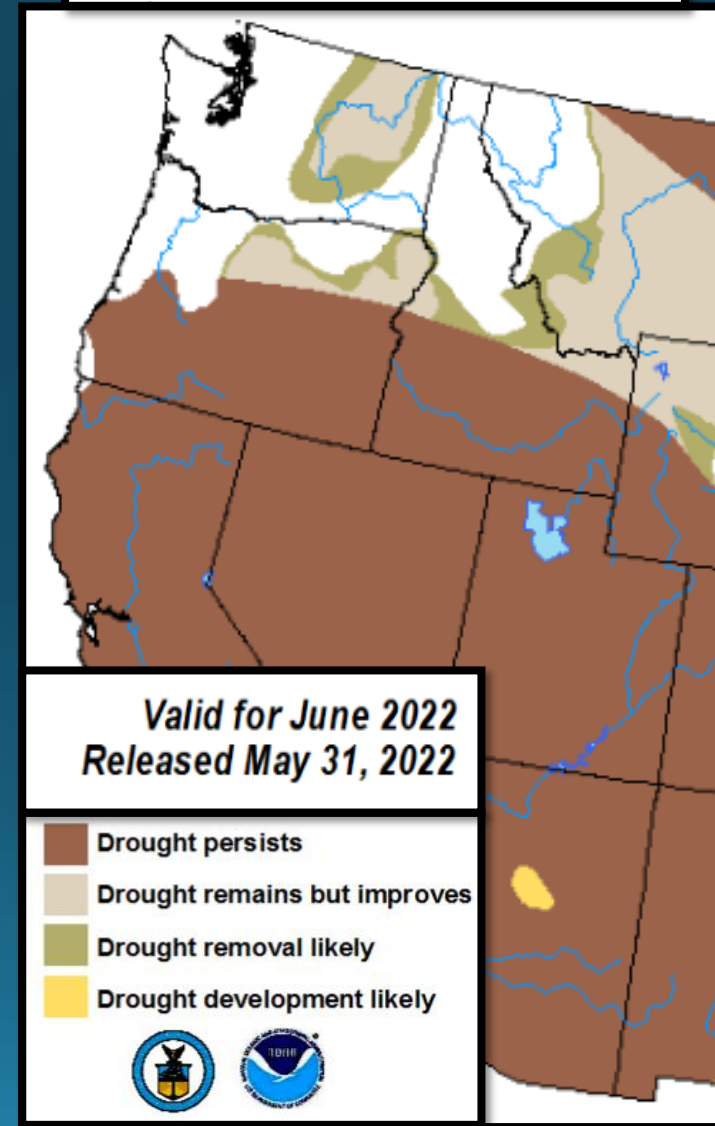
	Average Max Temp (°F)	Average Min Temp (°F)	Total Precipitation	Total Snowfall	Snow Depth as of: 5/29/22	Highest Max/ Lowest Min
May	45.5°	27.5°	7.36"	32.9"	41"	62° on 26 th / 17° on 11 th
Normal (1991-2020)	49.0°	29.3°	3.65"	14.5"	44"	N/A

Drought Monitor (Current) & Outlook (June)

United States Drought Monitor



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





Looking Ahead: Normals for June (1991-2020)

Temperatures:

Along the coast lows are around 50 with highs in the 60s. Inland, valley high temperatures are usually in the 70s to mid 80s. Nights are typically cool, with average minimum temperatures in the 30s and 40s in the valleys east of the Cascades, and in the 40s to near 50 in the valleys west of the Cascades. The higher mountains typically experience highs in the 50s and 60s, with lows in the 30s to lower 40s.

Precipitation:

June is a dry season month, so it typically features limited precipitation. Precipitation often comes in the form of showers and thunderstorms, but frontal systems do still occur, though much less frequently than during the wetter months of the year. Nearly half of the forecast area receives, on average, an inch or less of precipitation in June. The mountains get 1 to 3 inches of water in June, except in portions of the Cascades and Coast Range, where 3 to as much as 6 inches occurs, on average. West of the Coast Range and in eastern Douglas County normal precipitation is 2 to 4 inches.

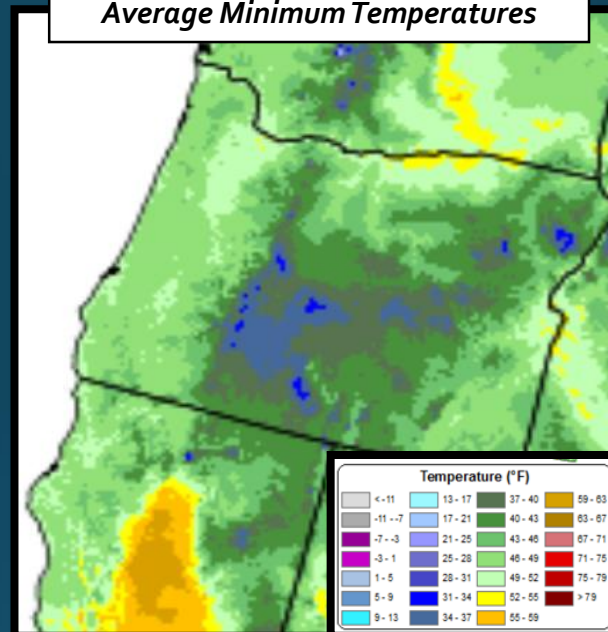
Snow:

Crater Lake NP HQ's average June snowfall is 3.7 inches, per the 1991-2020 normal period. Average snow depth there for the 1991-2010 time period is 4.2 inches on June 1st, and 5 inches on June 30th.

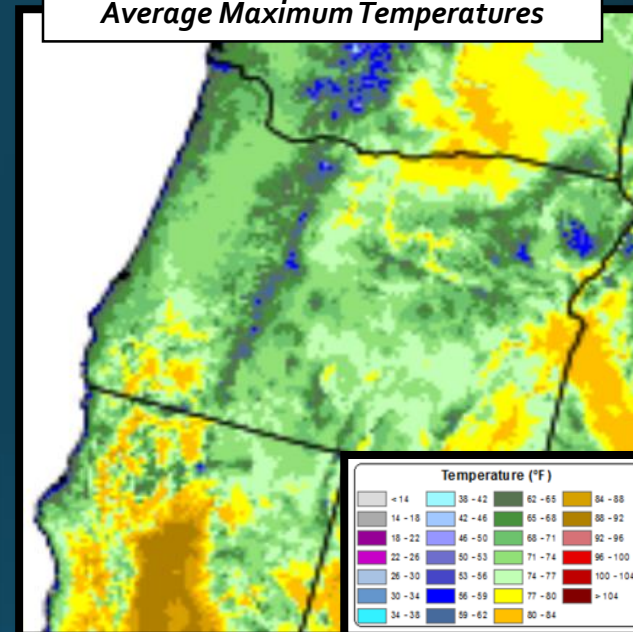
Lightning, 2003-2017 Average:

The average number of cloud to ground lightning strikes in the Medford County Warning Area during the month of June from 2003 to 2017 was 3,080. For comparison, the average for May is 2,466 and 4,196 for July.

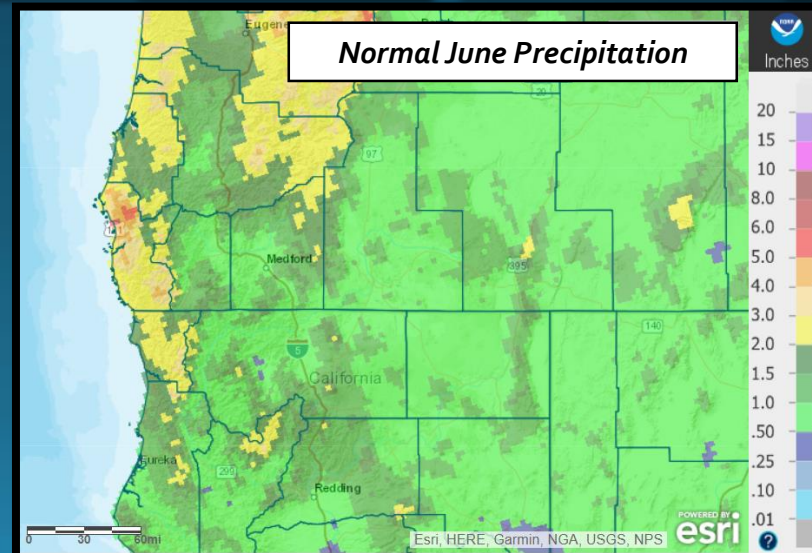
Average Minimum Temperatures



Average Maximum Temperatures



Normal June Precipitation





*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
- **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**
- **Medford: 03/11/1911 – Present**
- **Klamath Falls: 12/1897 – Present**