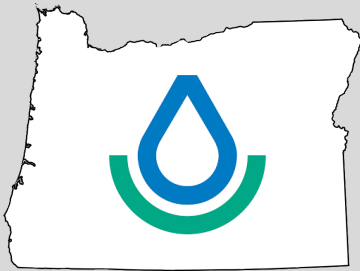




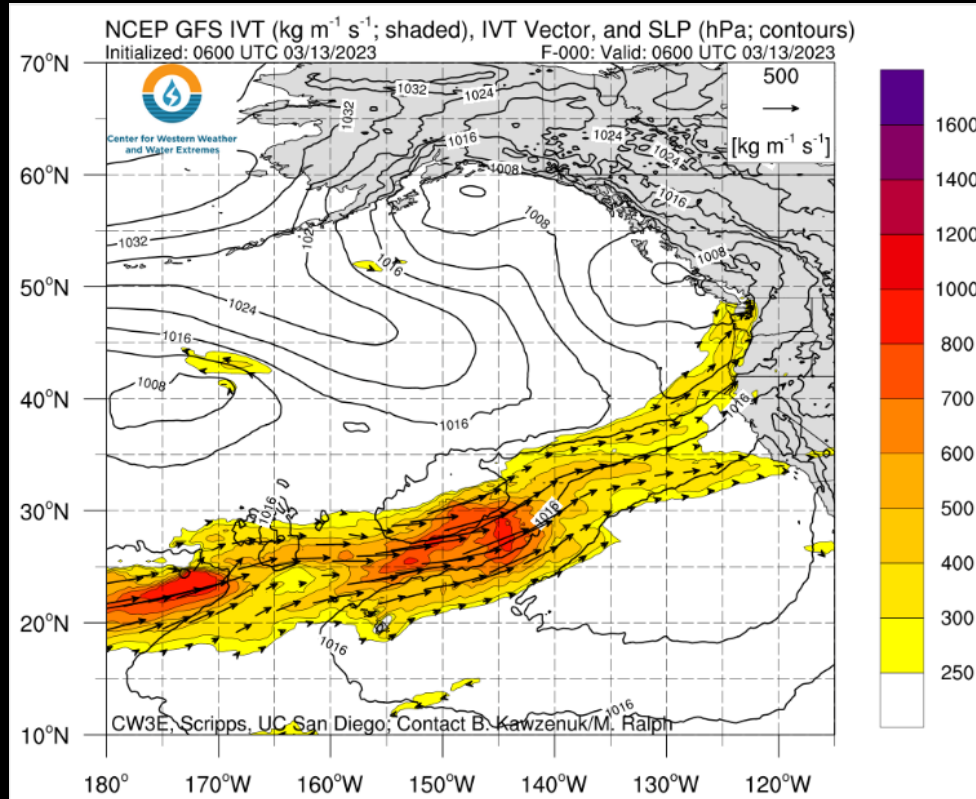
Oregon Snow Survey

Snow Survey and Water Supply Forecasting Program

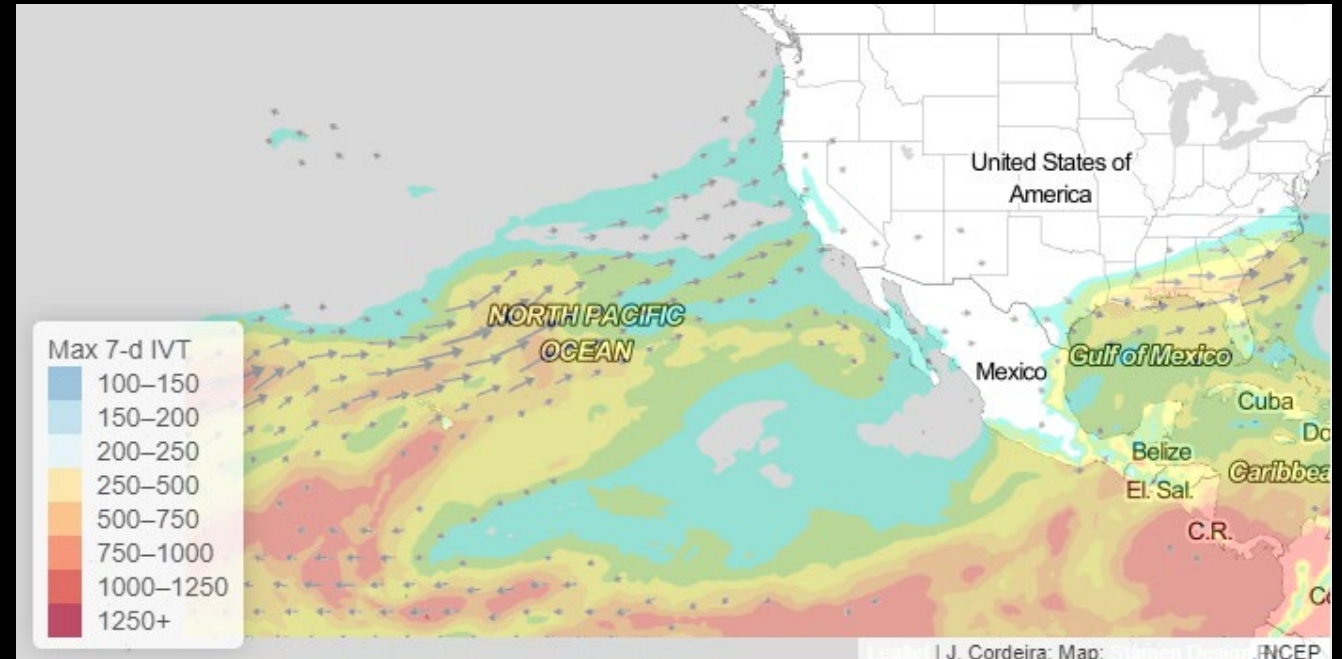


NRCS
Oregon Technical Advisory Committee
March 23, 2023

Matt Warbritton
Lead Hydrologist
USDA NRCS Oregon Snow Survey
matt.warbritton@usda.gov
503-307-2829



March 13, 2023

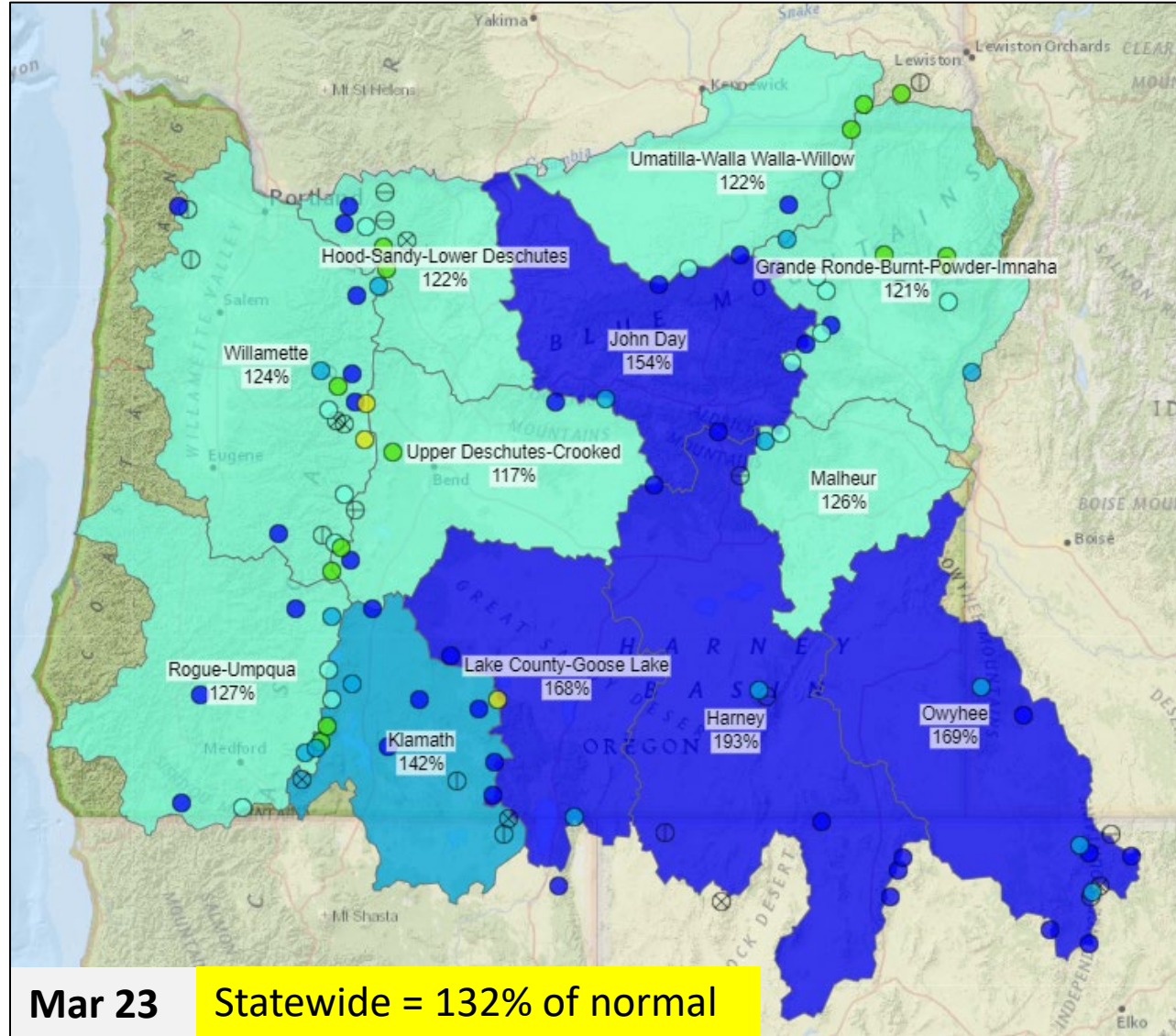
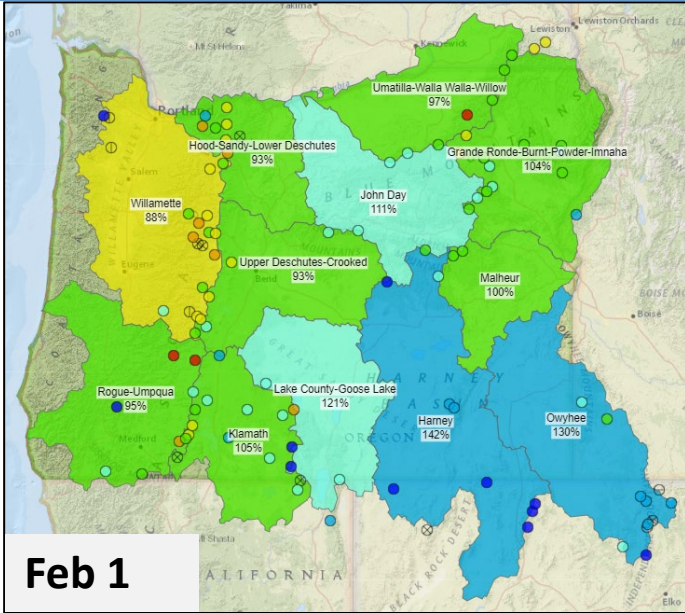


Center for Western Weather and Water Extremes



Snowpack Conditions


Snow Water Equivalent Basin Map



Snow Water Equivalent
 Percent NRCs 1991-2020
 Median

- ≥ 150%
- 130% - 149%
- 110% - 129%
- 90% - 109%
- 70% - 89%
- 50% - 69%
- < 50%
- No basin value

Watershed Boundaries
 — State Watersheds

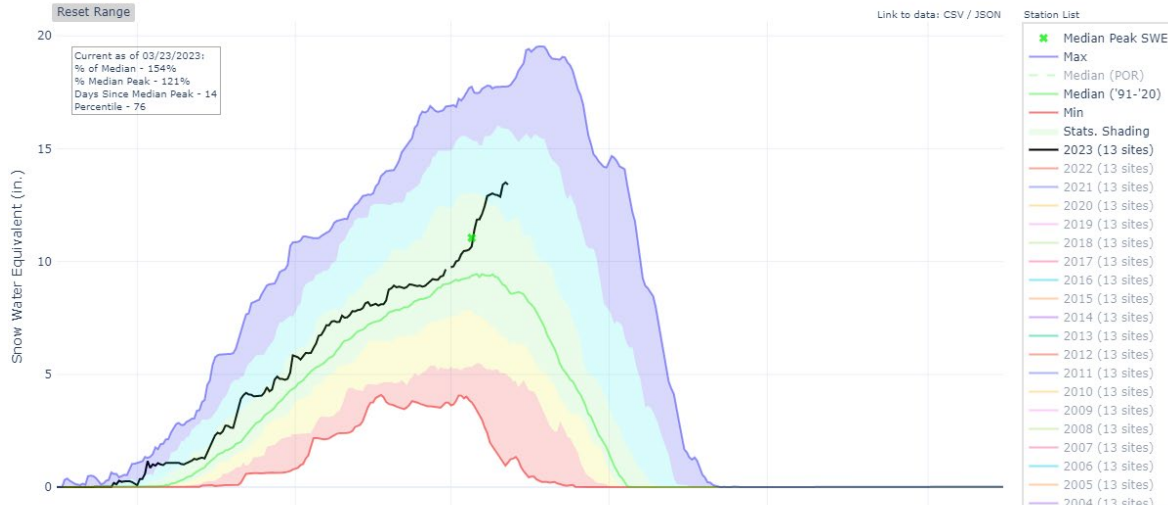

 Natural Resources
 Conservation Service

Created 11-21-2022, 12:21 PM PST

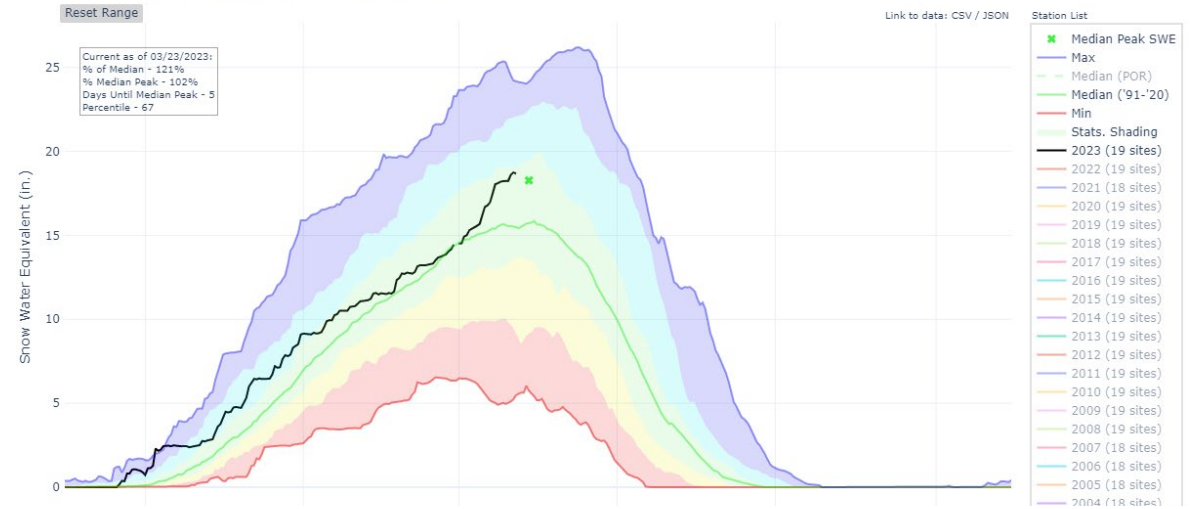
Snow Water Equivalent

WY 2023 Basin Charts

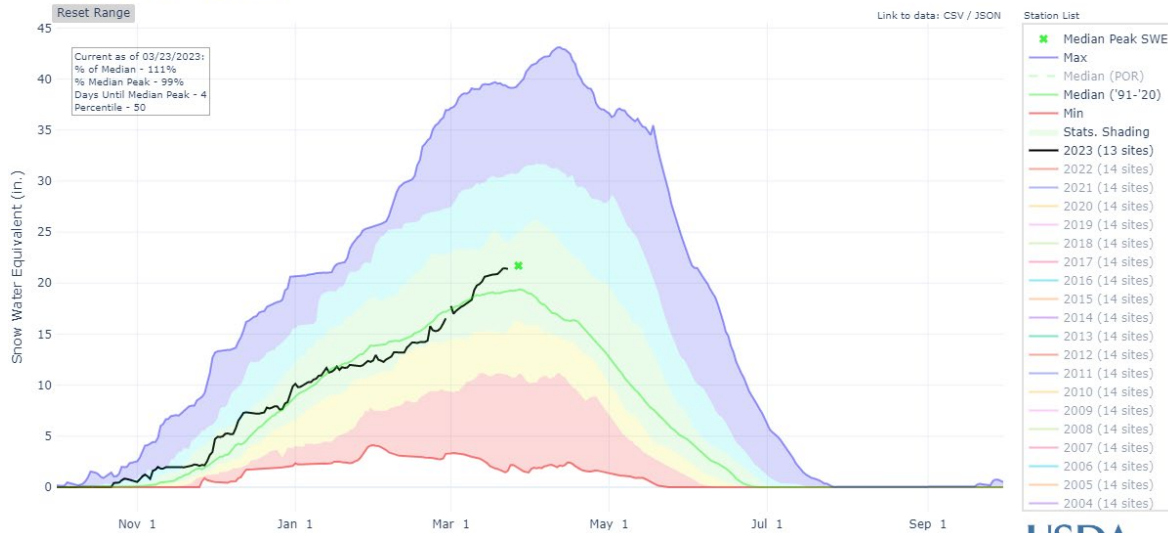
SNOW WATER EQUIVALENT IN JOHN DAY



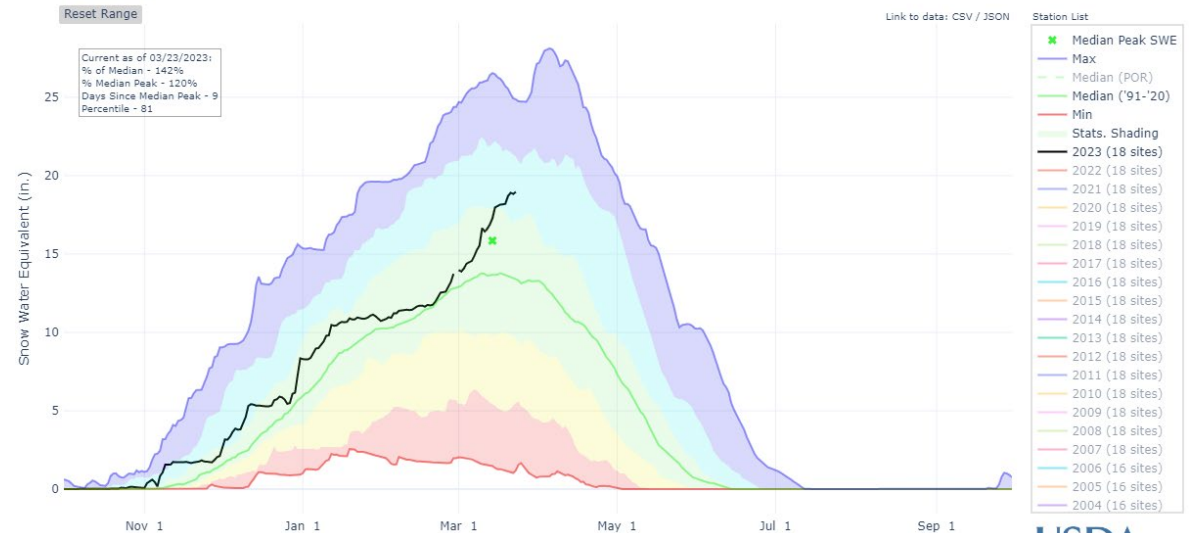
SNOW WATER EQUIVALENT IN GRANDE RONDE-BURNT-POWDER-IMNAHA



SNOW WATER EQUIVALENT IN UPPER DESCHUTES-CROOKED



SNOW WATER EQUIVALENT IN KLAMATH

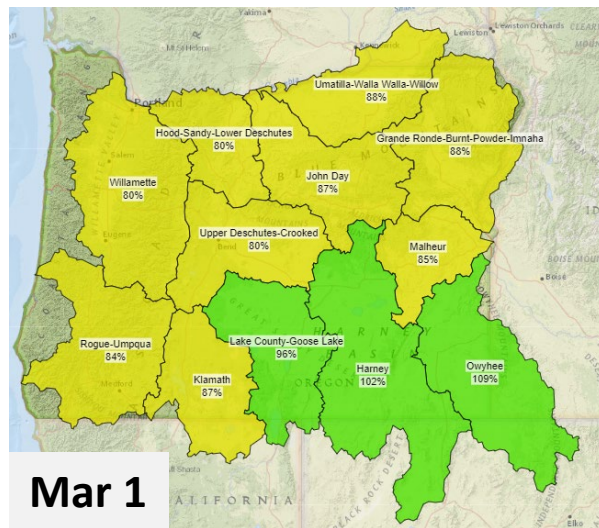
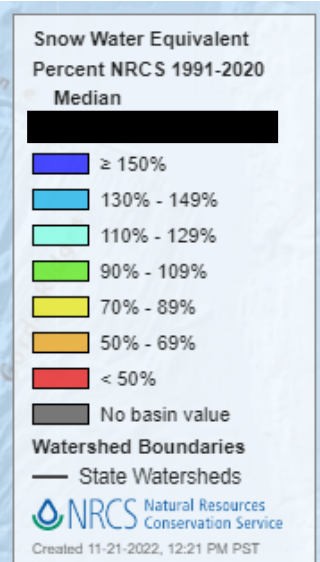
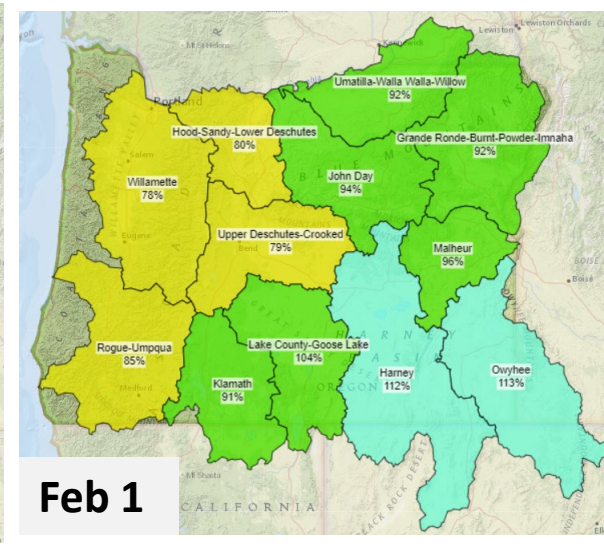
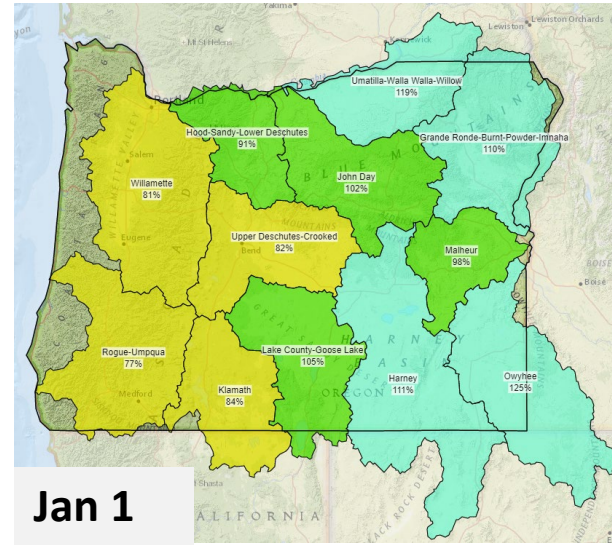
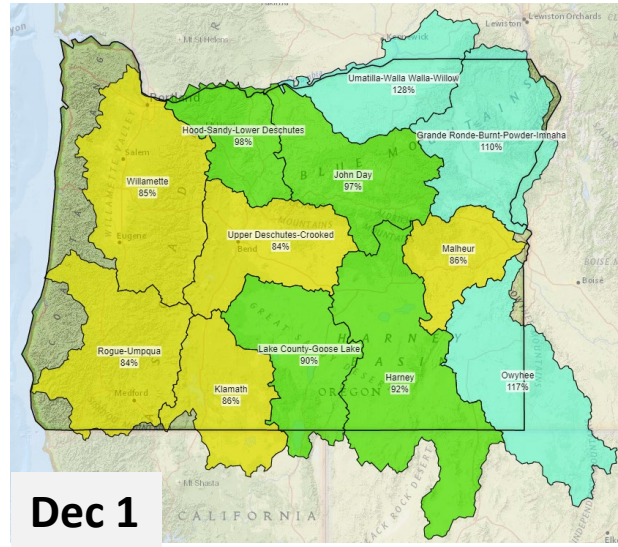
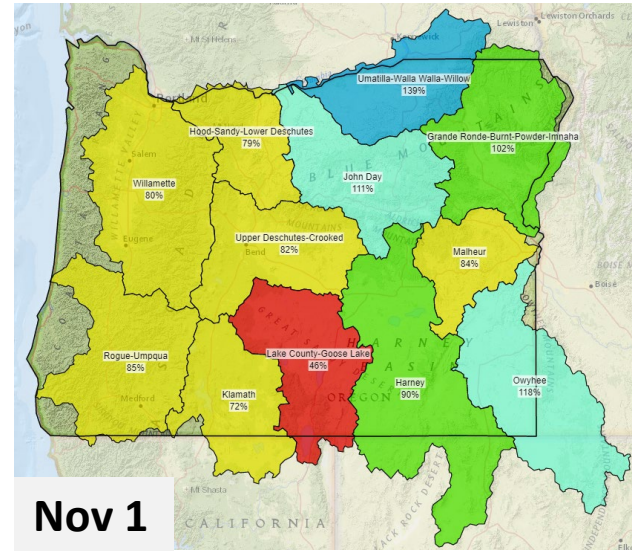




Precipitation Conditions

Water Year Precipitation

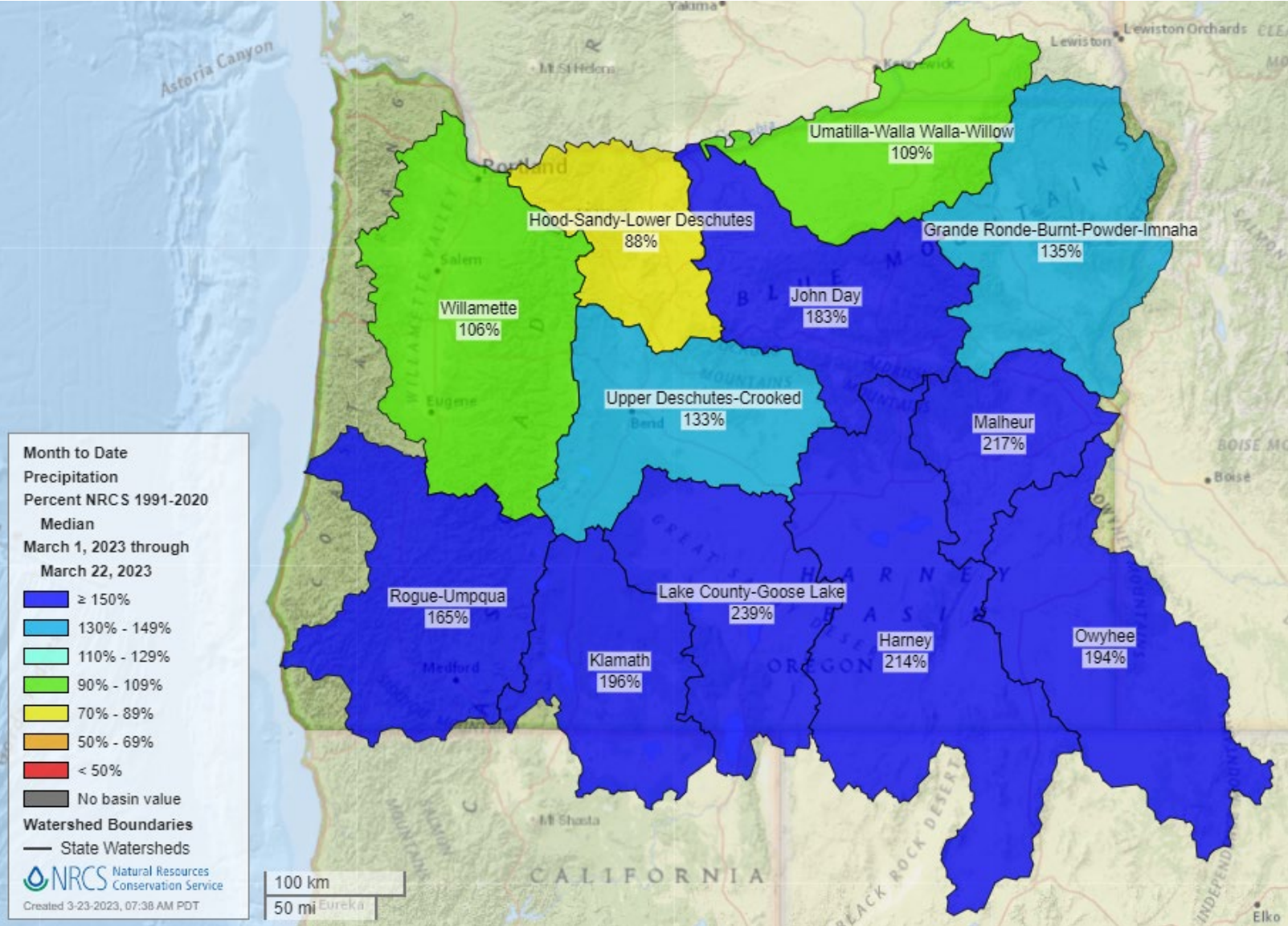
Basin Maps



Statewide =
89% of normal

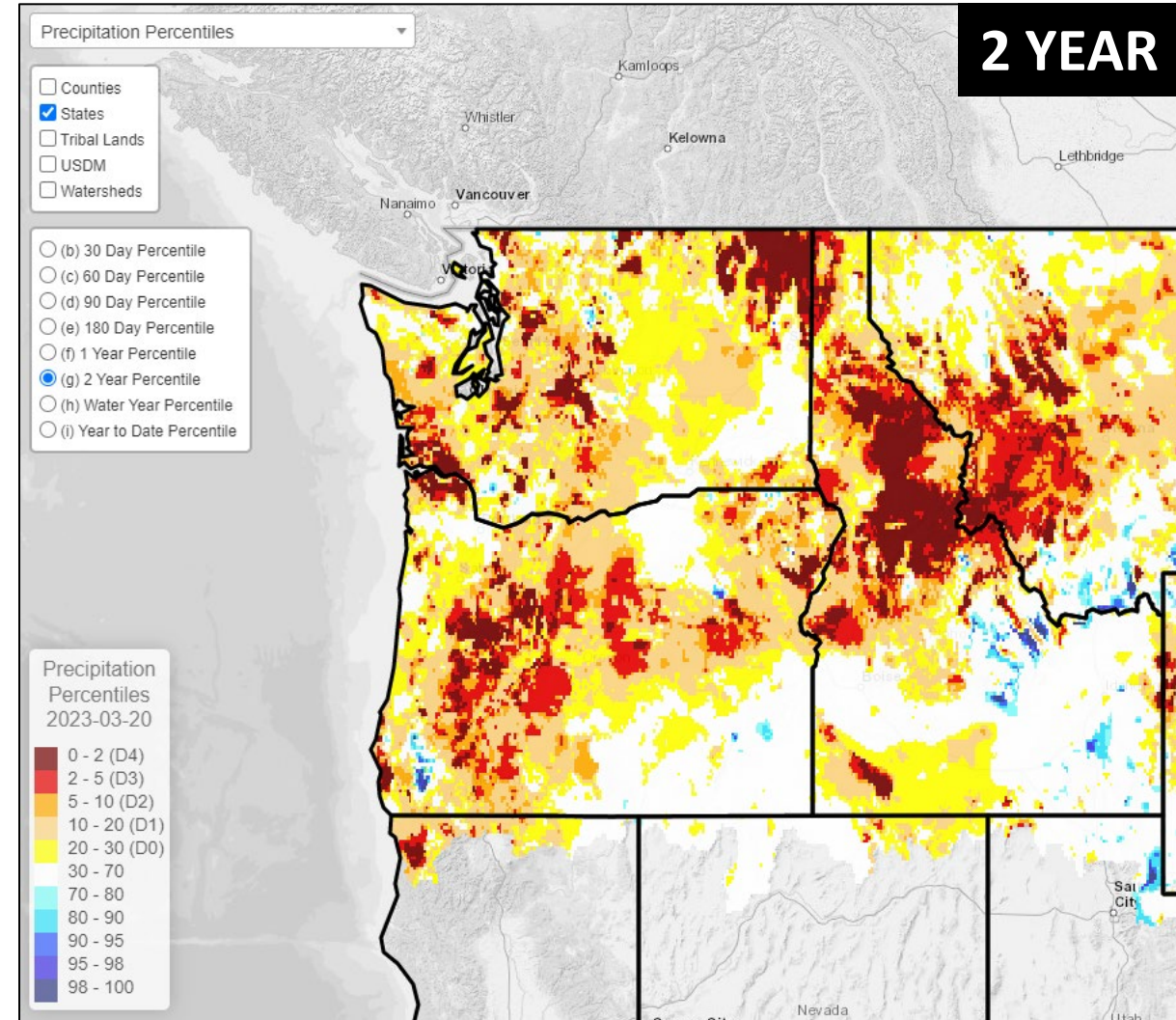
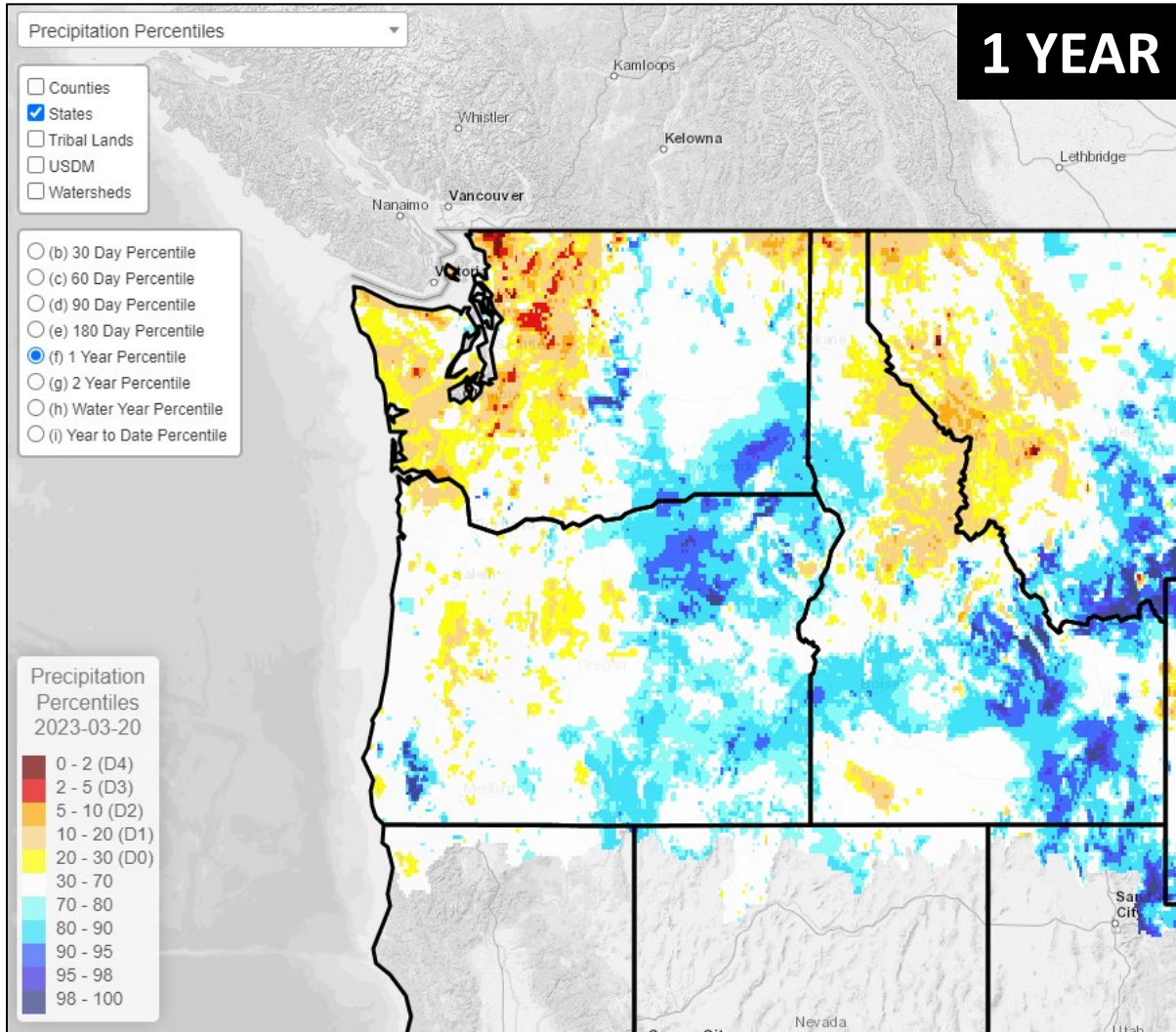
Precipitation

Month-to-Date



Precipitation Percentiles

Site Percentiles – Water Year

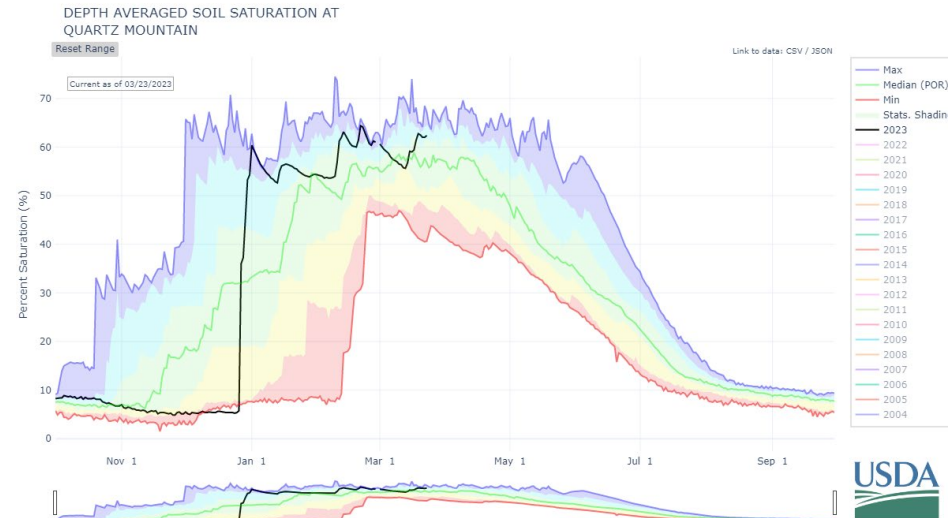
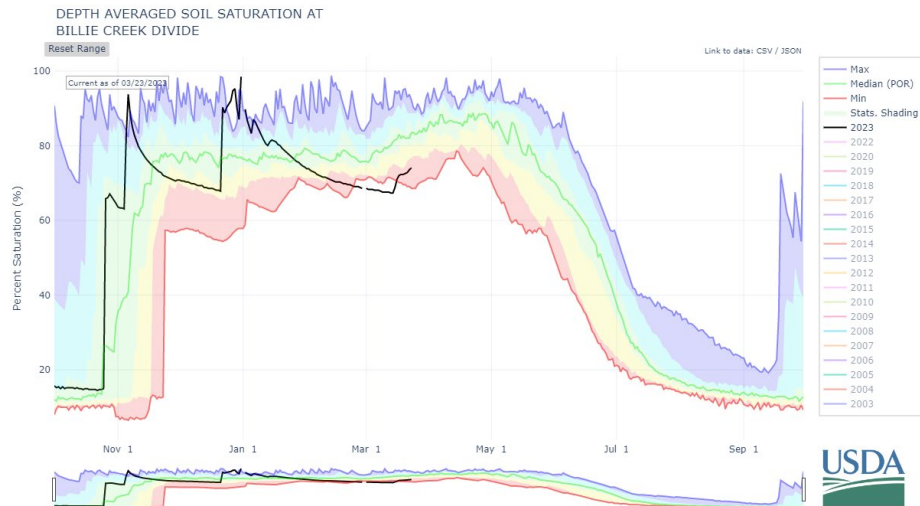
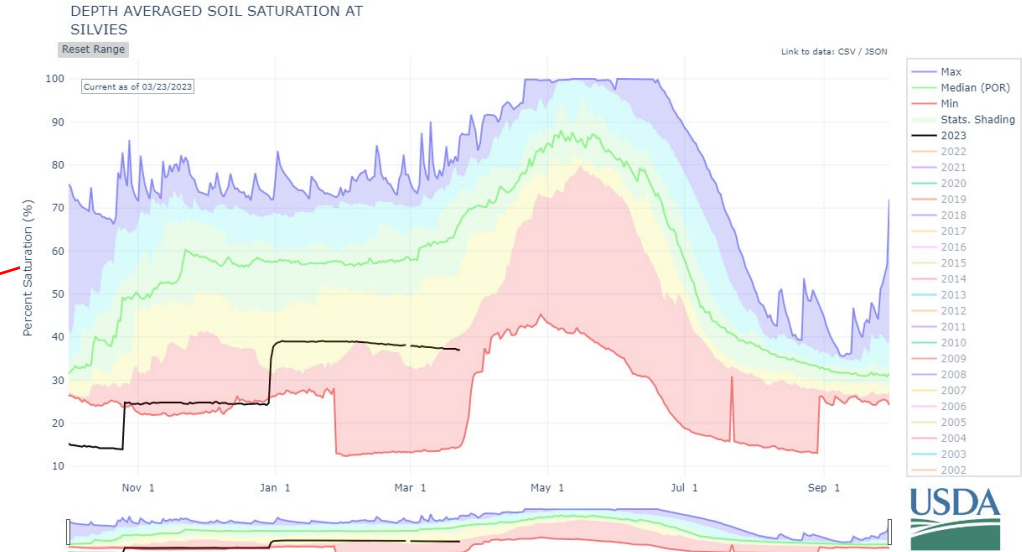
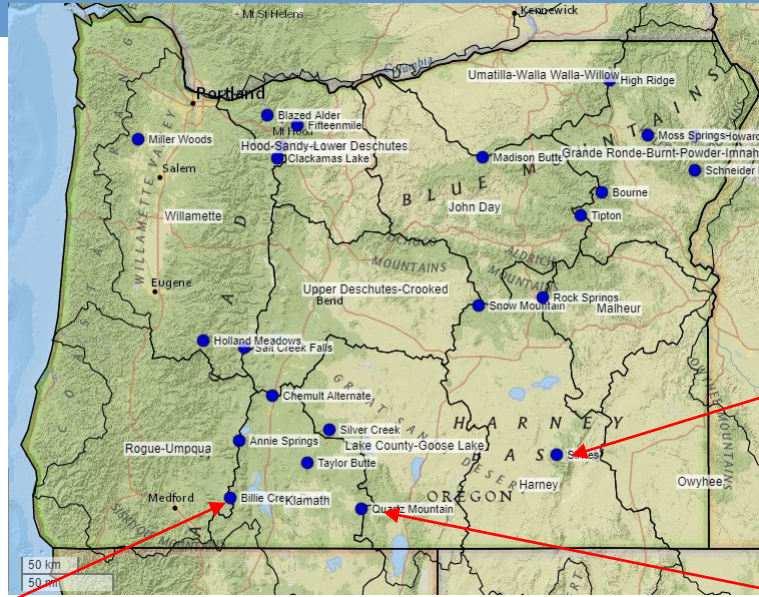




Soil Moisture Conditions

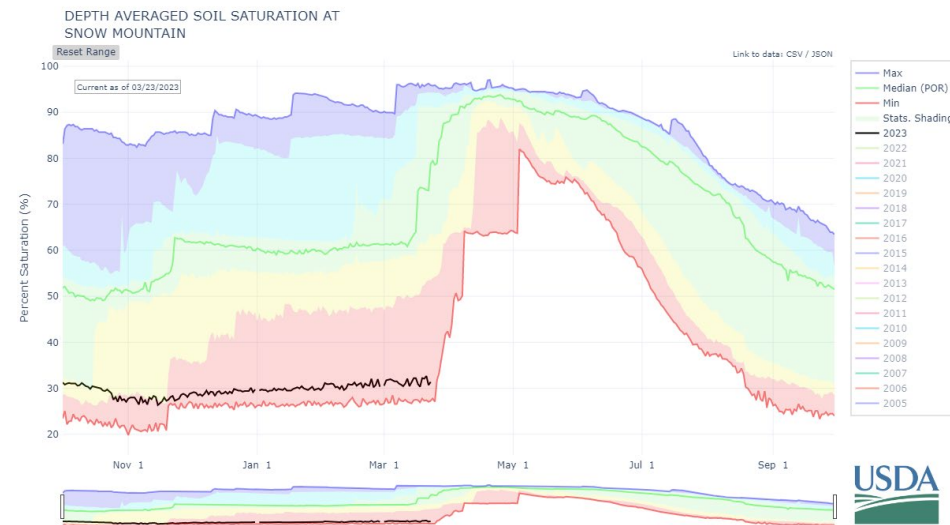
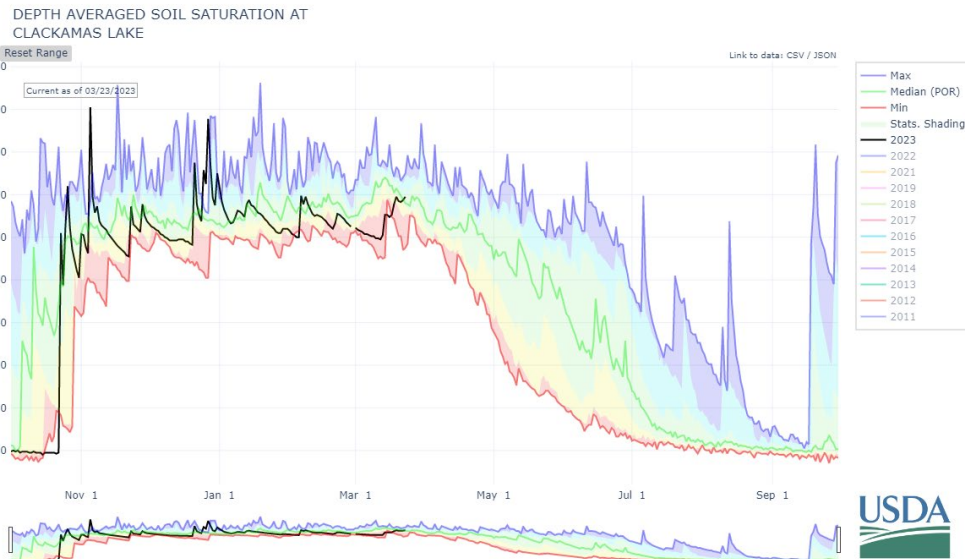
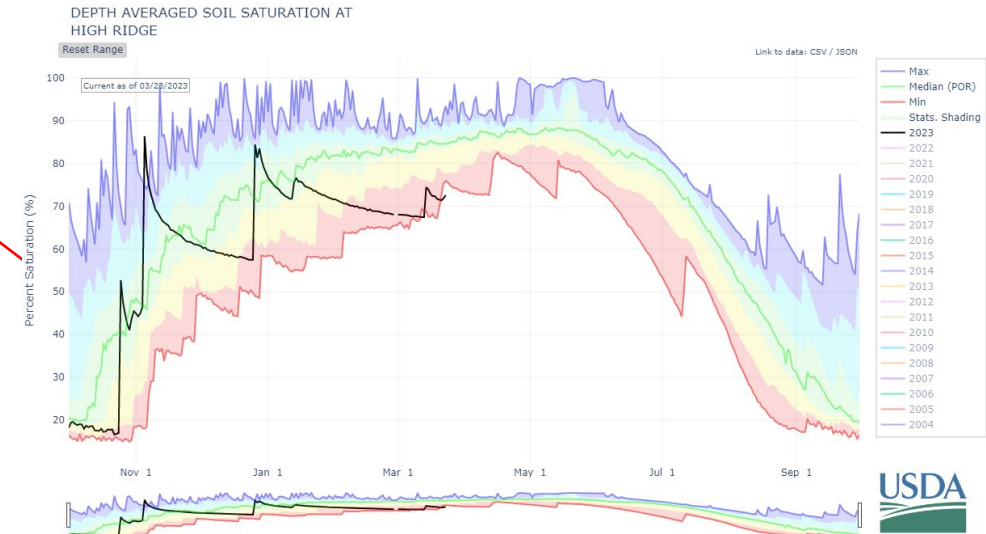
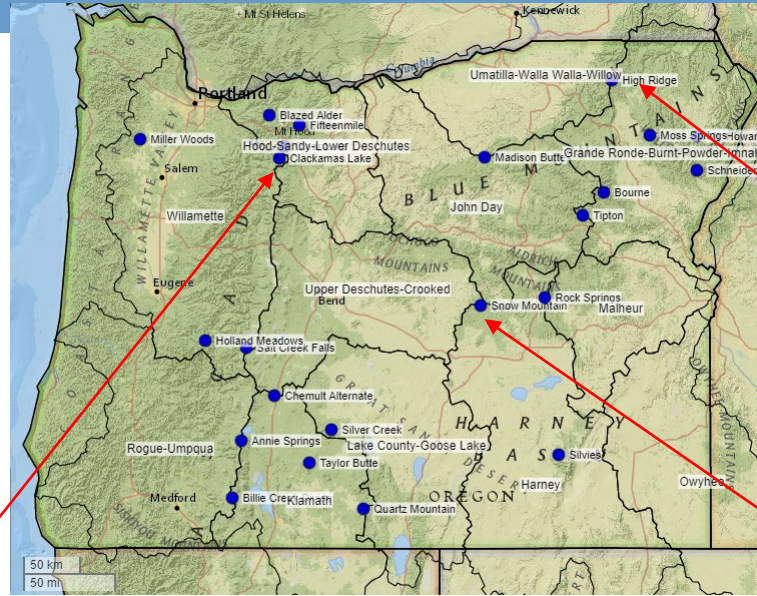
Soil Moisture

WY 2023 – Select Site Charts



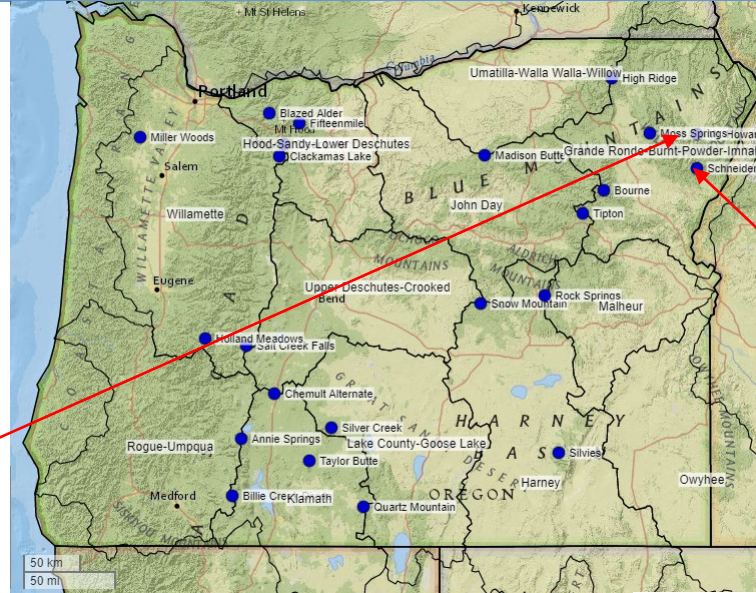
Soil Moisture

WY 2023 – Select Site Charts

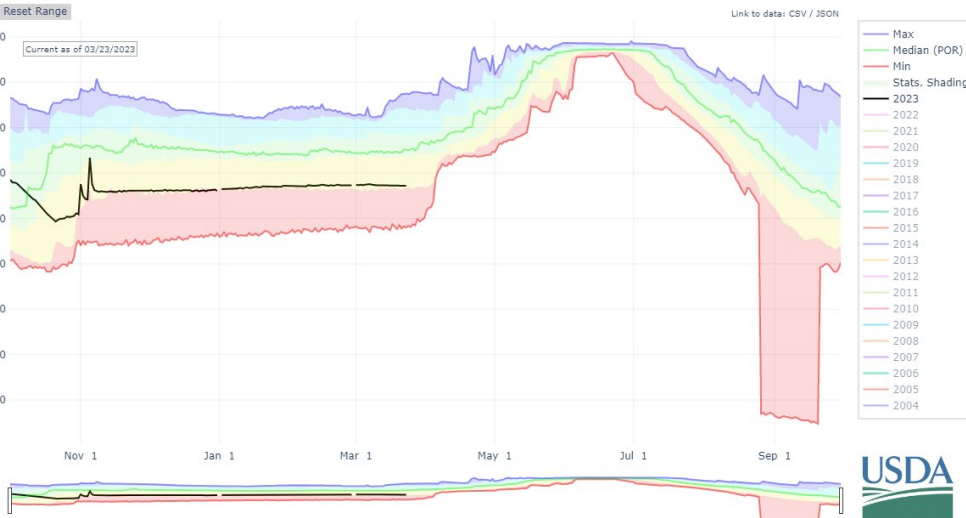


Soil Moisture

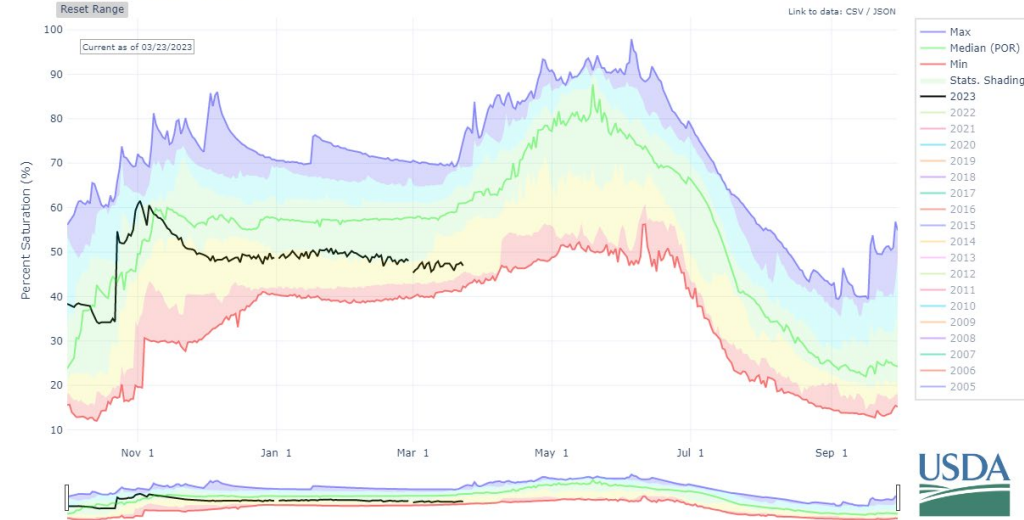
WY 2023 – Select Site Charts



DEPTH AVERAGED SOIL SATURATION AT
MT. HOWARD



DEPTH AVERAGED SOIL SATURATION AT
SCHNEIDER MEADOWS

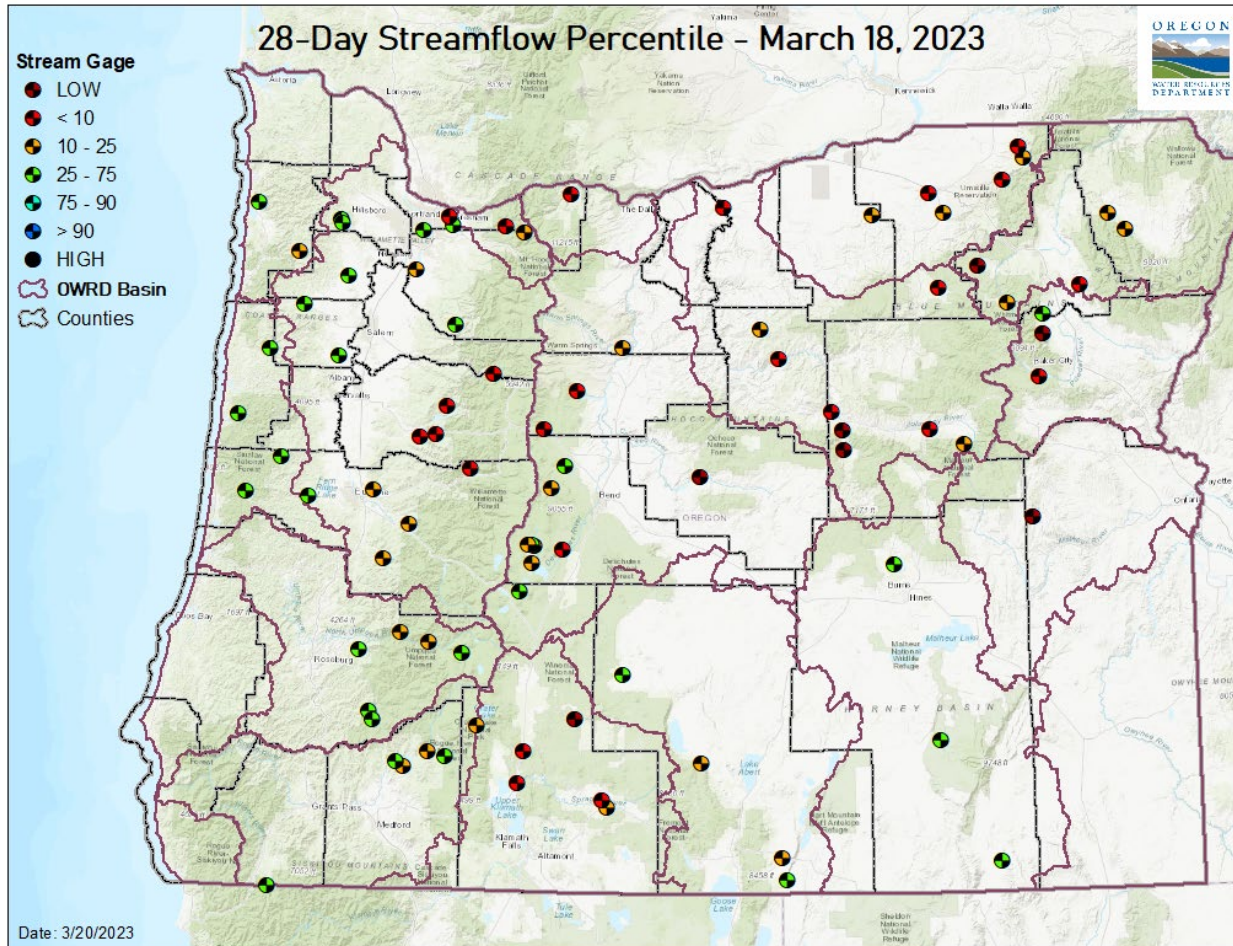




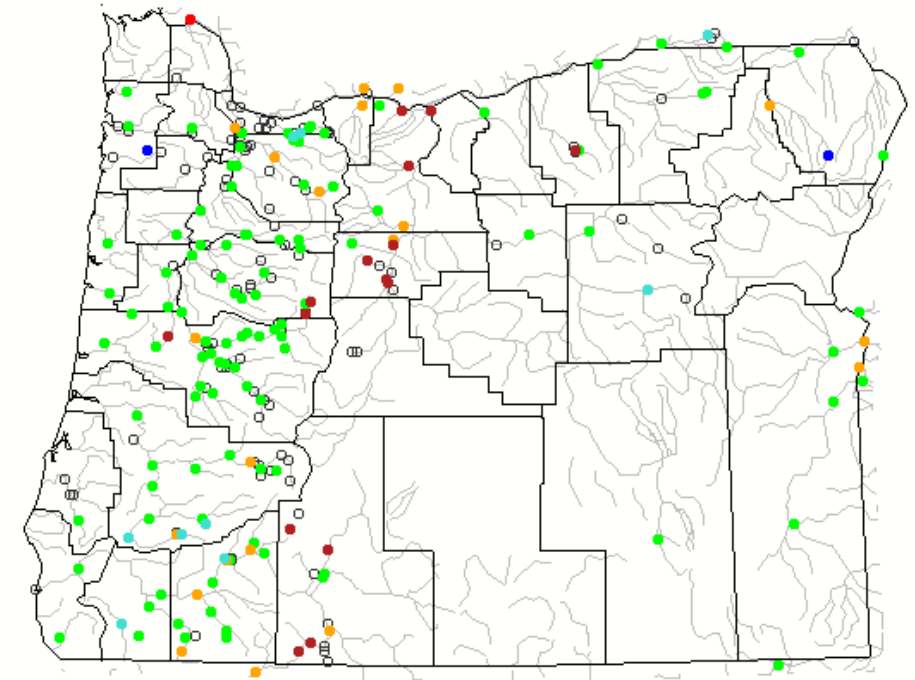
Streamflow

Streamflow

Thursday, March 23, 2023 10:30ET



Oregon Water Resources Department



Explanation - Percentile classes

●	●	●	●	●	●	●	○
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked



Drought

Oregon Drought Status

USDM

U.S. Drought Monitor Oregon

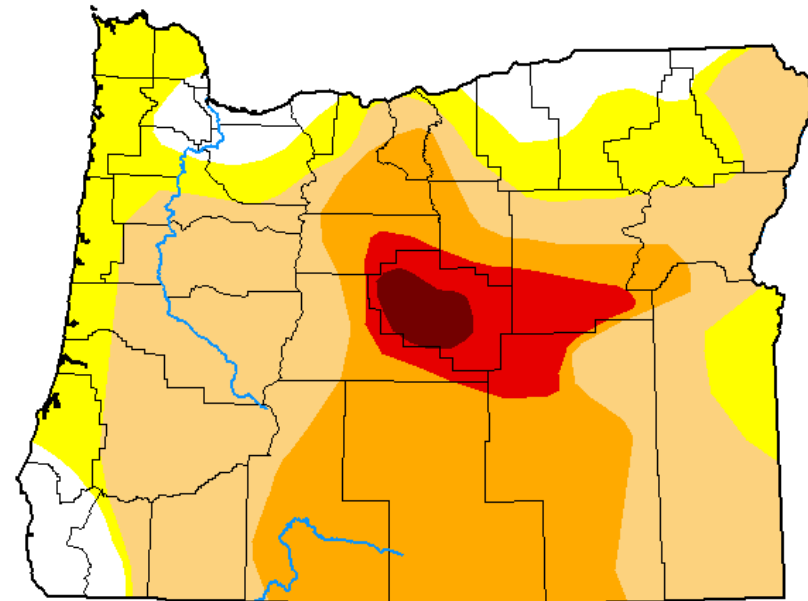
March 21, 2023

(Released Thursday, Mar. 23, 2023)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	8.50	91.50	73.32	33.49	7.18	1.40
Last Week <small>03-14-2023</small>	8.28	91.72	77.32	37.70	13.51	1.40
3 Months Ago <small>12-20-2022</small>	8.58	91.42	59.76	46.04	26.18	1.40
Start of Calendar Year <small>01-03-2023</small>	13.46	86.54	59.75	46.03	26.18	1.40
Start of Water Year <small>09-27-2022</small>	0.42	99.58	68.05	52.42	30.73	1.40
One Year Ago <small>03-22-2022</small>	6.11	93.89	89.04	74.25	49.92	15.01



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:

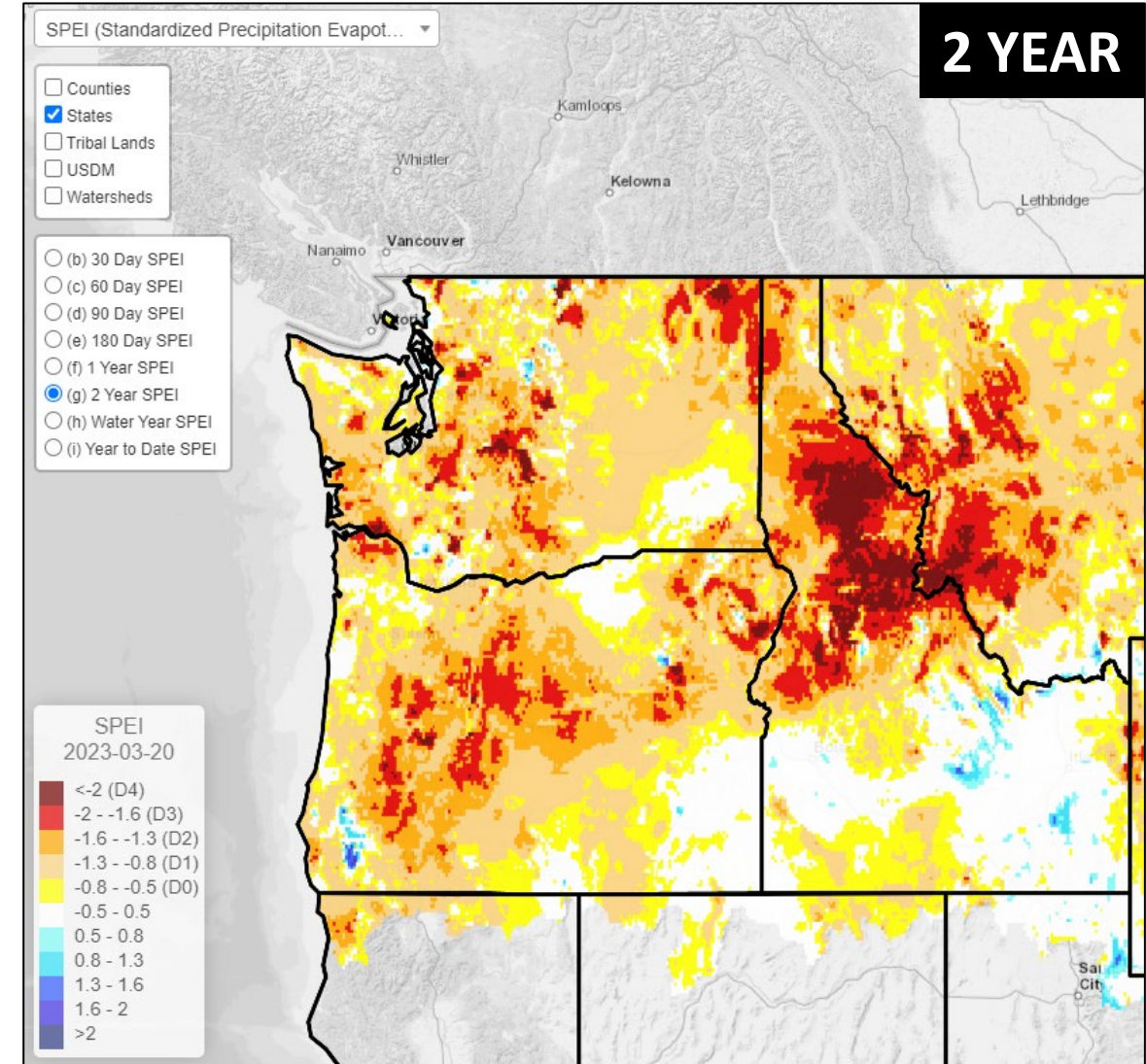
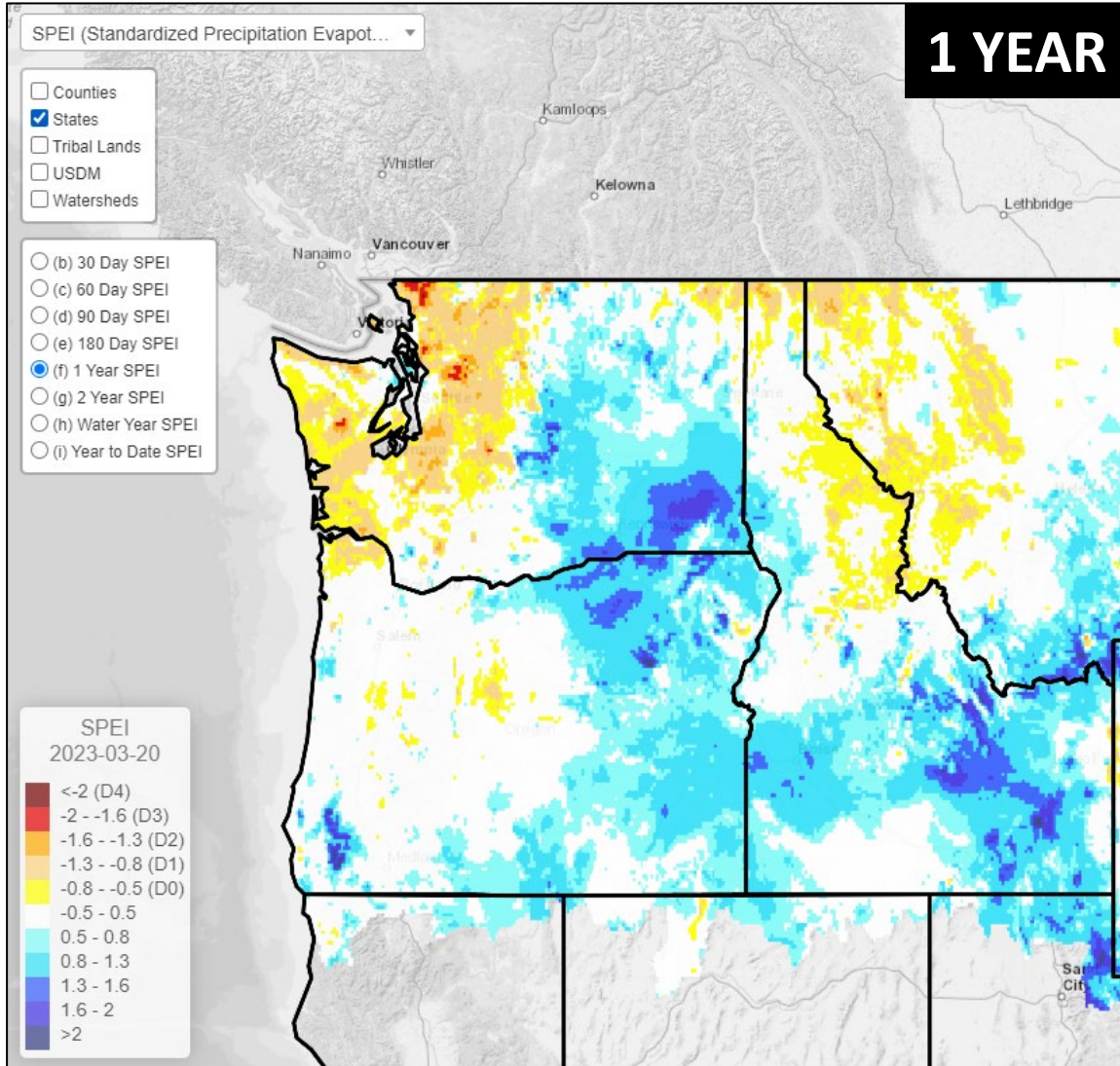
Curtis Riganti
National Drought Mitigation Center



droughtmonitor.unl.edu

Standardized Precipitation Evapotranspiration Index (SPEI)

UMRB

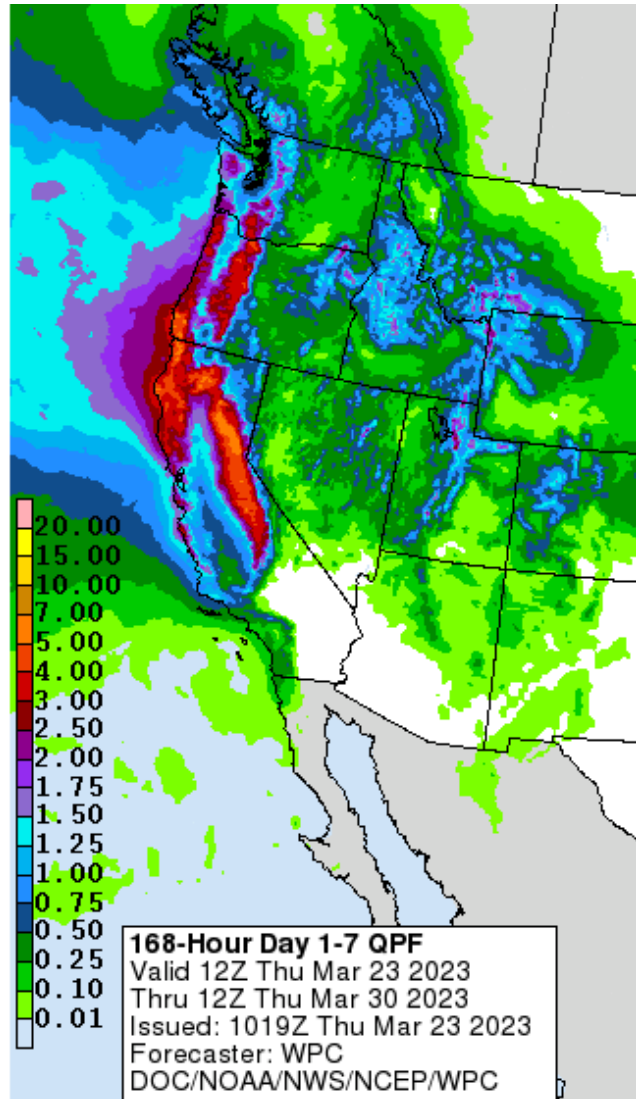




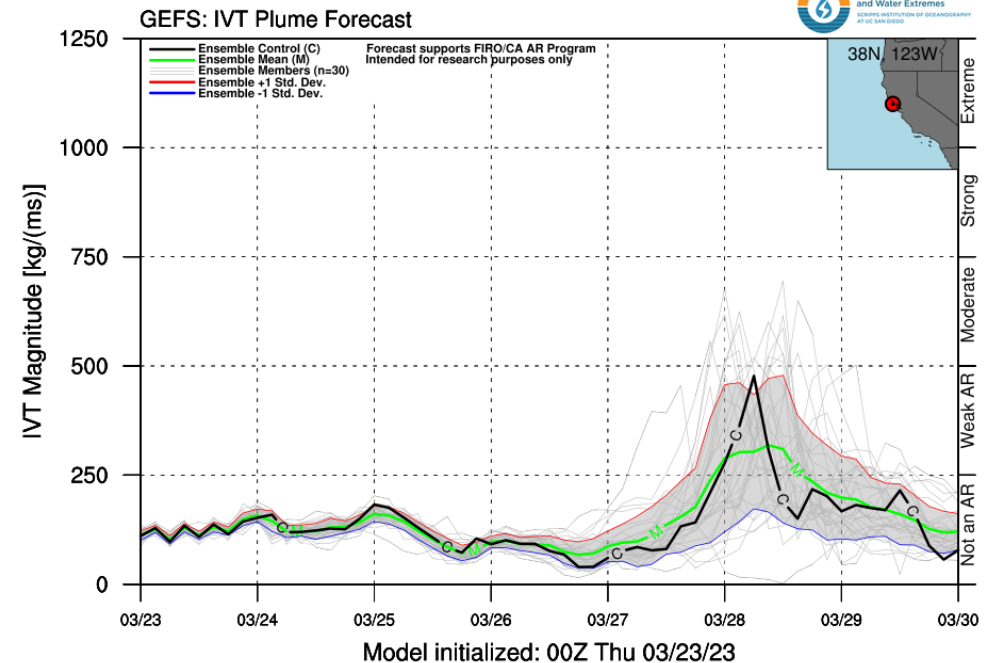
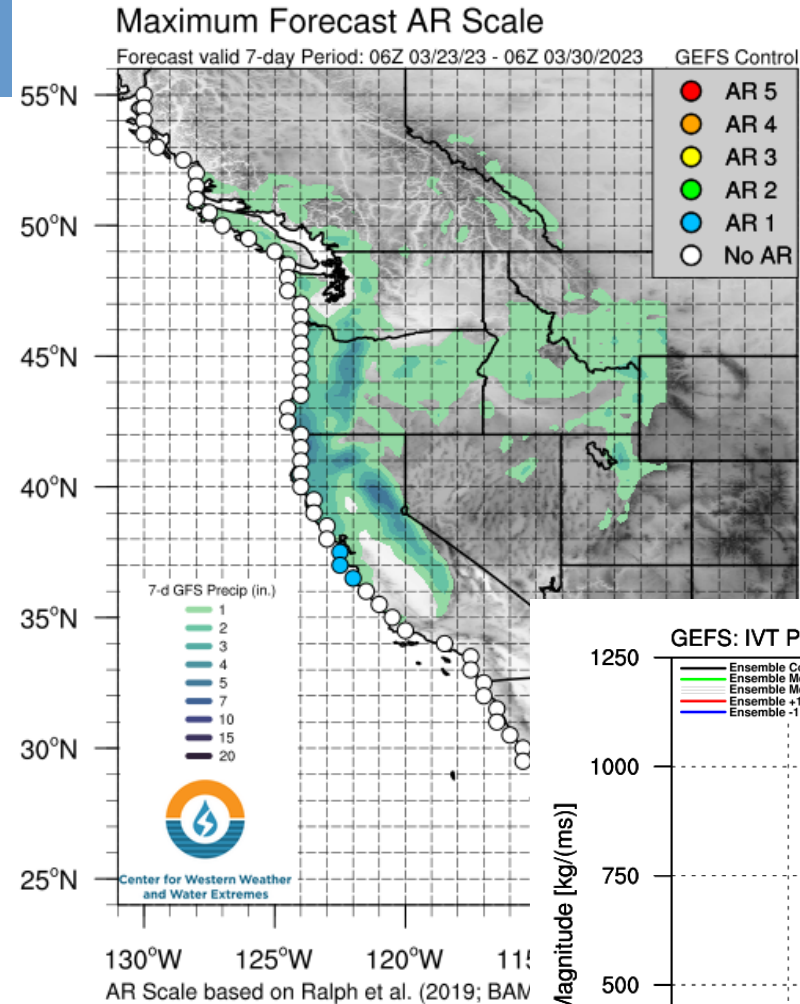
Climatic Outlook

Precipitation Forecast

CW3E and NOAA



NOAA CPC



Categorical AR Strength by Ralph/CW3E

8-14 Day Temperature Outlook

CW3E and NOAA

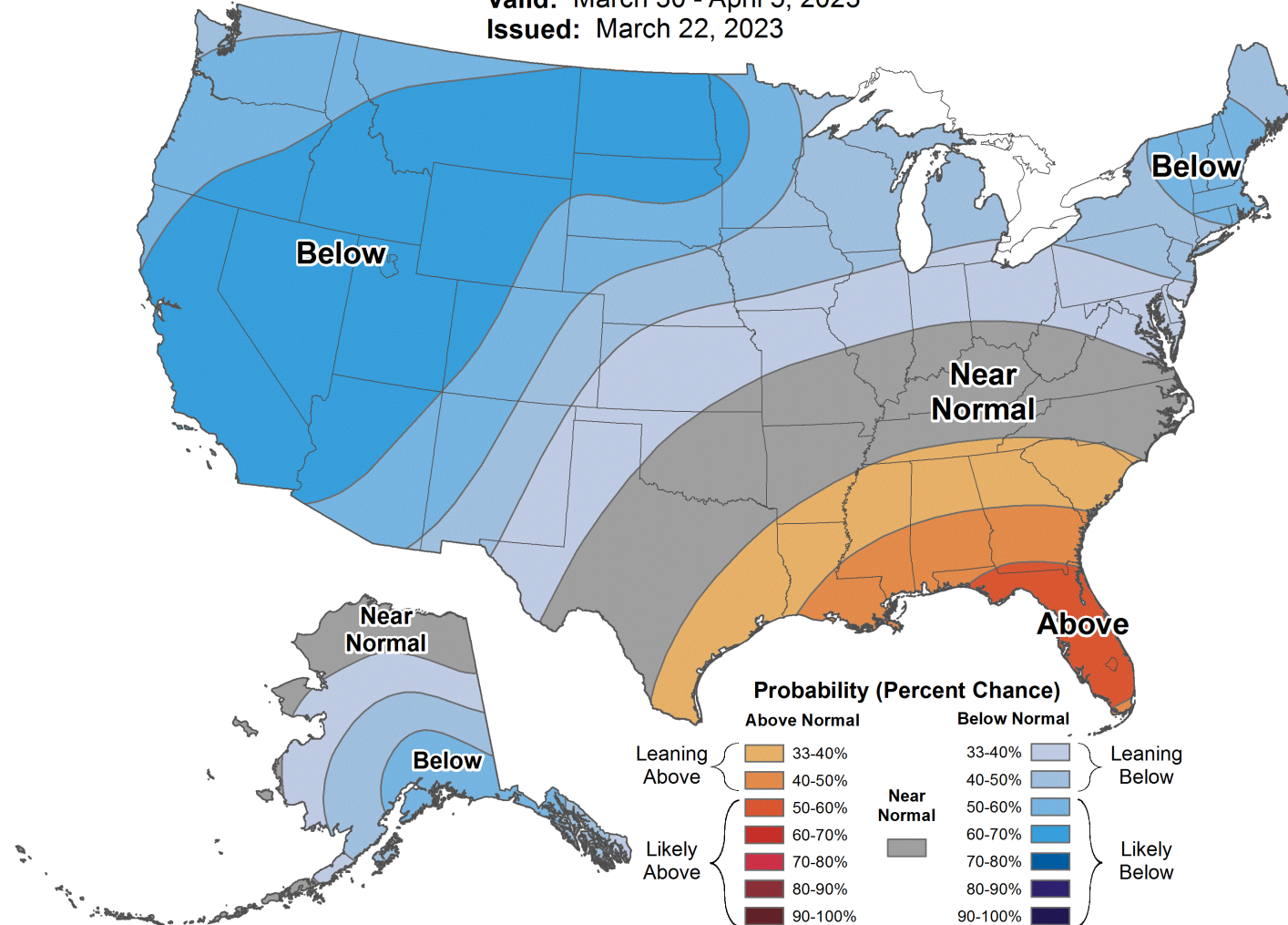


8-14 Day Temperature Outlook



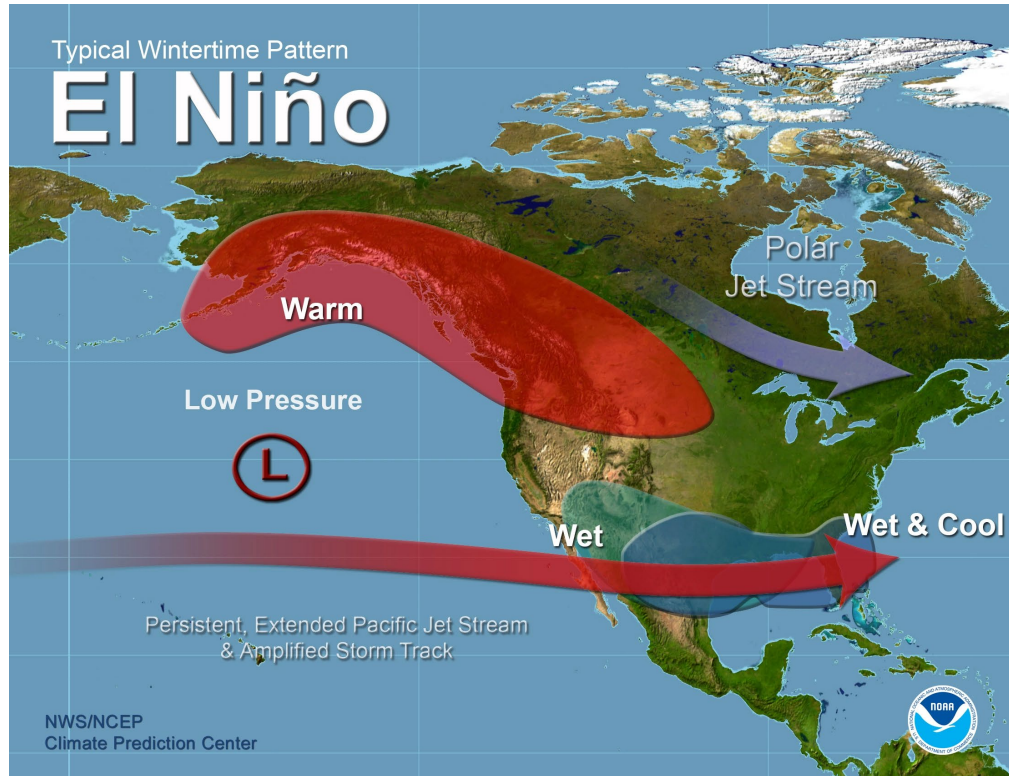
Valid: March 30 - April 5, 2023

Issued: March 22, 2023



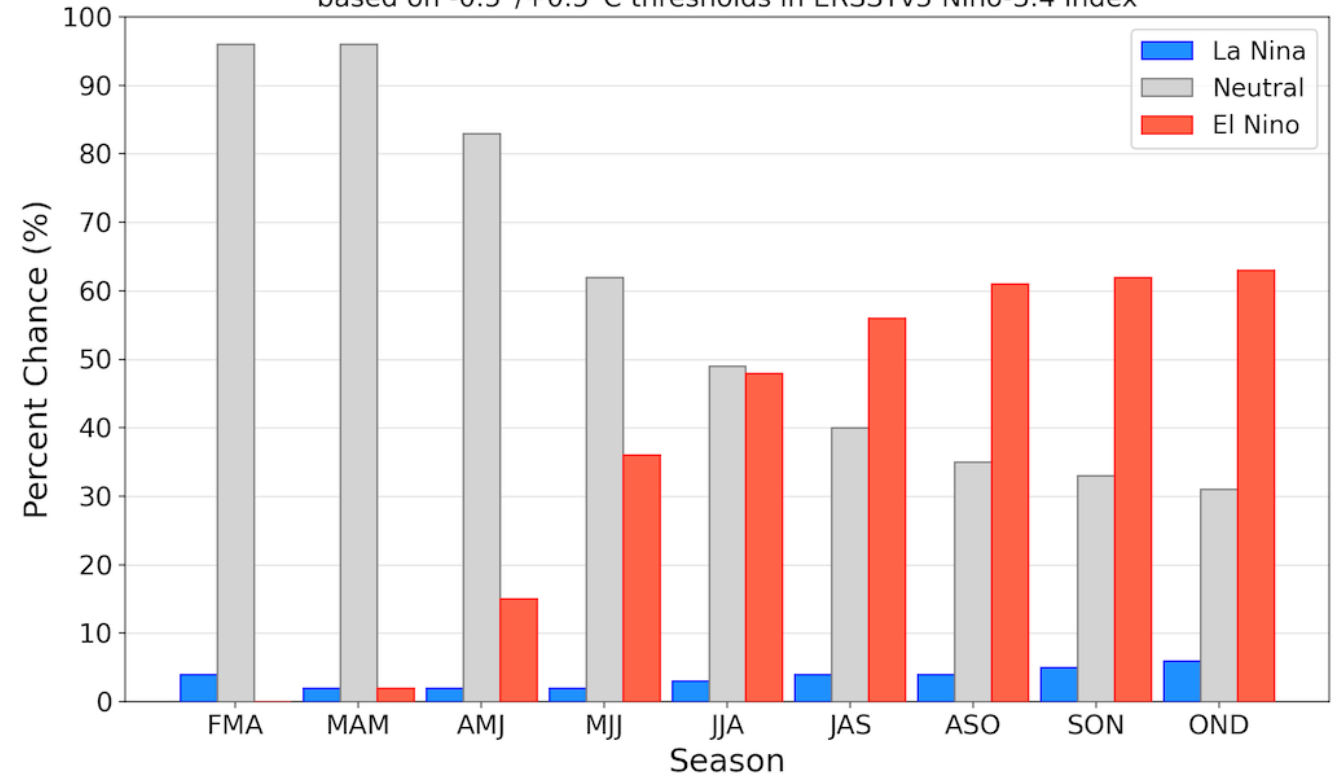
ENSO Forecast

NOAA CPC



Official NOAA CPC ENSO Probabilities (issued Mar. 2023)

based on $-0.5^{\circ}/+0.5^{\circ}\text{C}$ thresholds in ERSSTv5 Niño-3.4 index





Thank you!

Matt Warbritton
Lead Hydrologist
USDA NRCS Oregon Snow Survey
matt.warbritton@usda.gov
503-307-2829

[Oregon Snow Survey Website](#)

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