



April 2023 Update for Precipitation & Temperatures

NOAA National Weather Service
Weather Forecast Office
Portland, Oregon

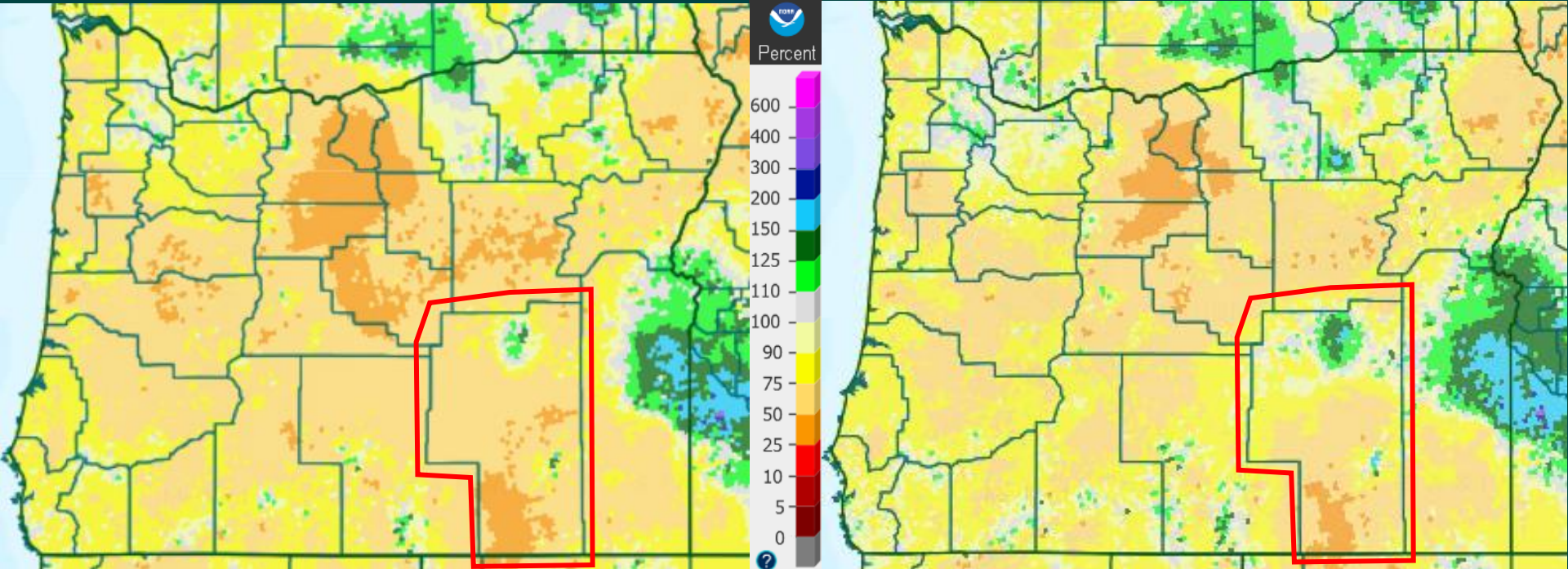


Water Year Precipitation

National Weather Service AHPS

% Normal, March 14, 2023

% Normal, April 10, 2023

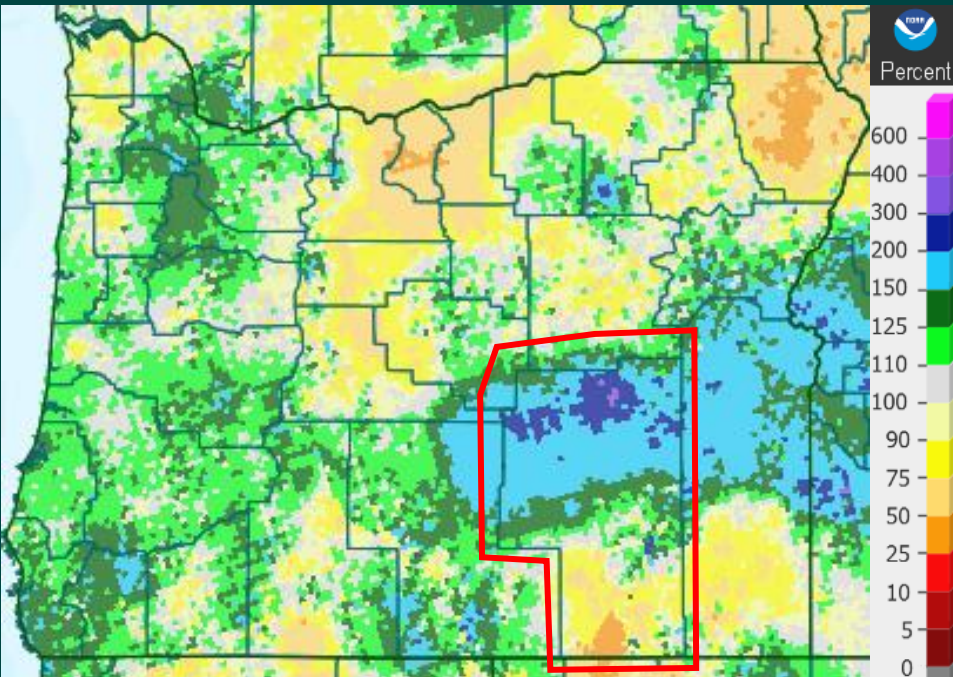


water.weather.gov/precip/index.php

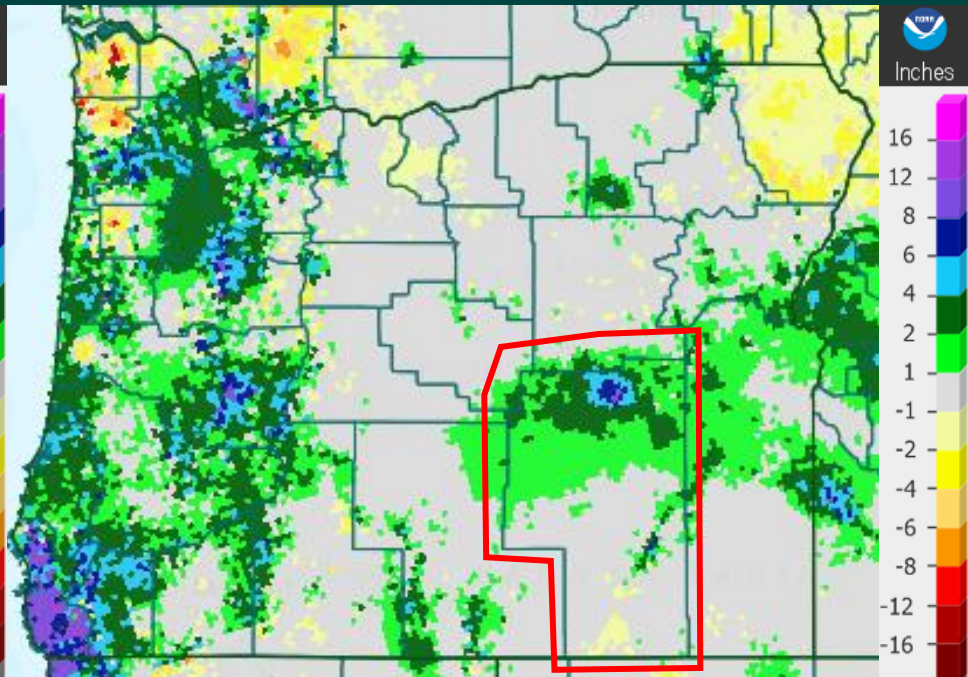


Precipitation – Past 60 Days

% Normal



Departure from Normal



Precipitation Data as of April 11, 2023

water.weather.gov/precip/index.php



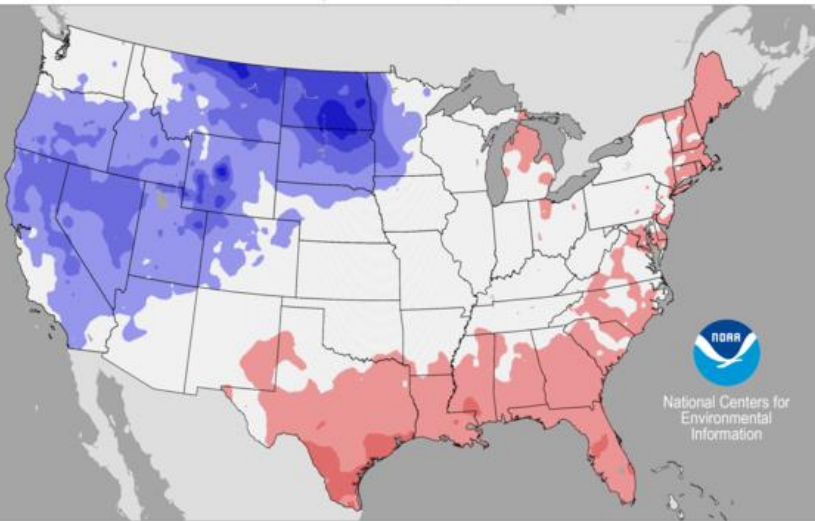
Temperatures

March Departure from Normal Jan – Mar Departure from Norm

Mean Temperature Departures from Average

March 2023

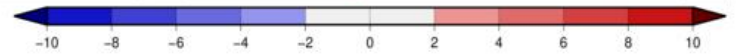
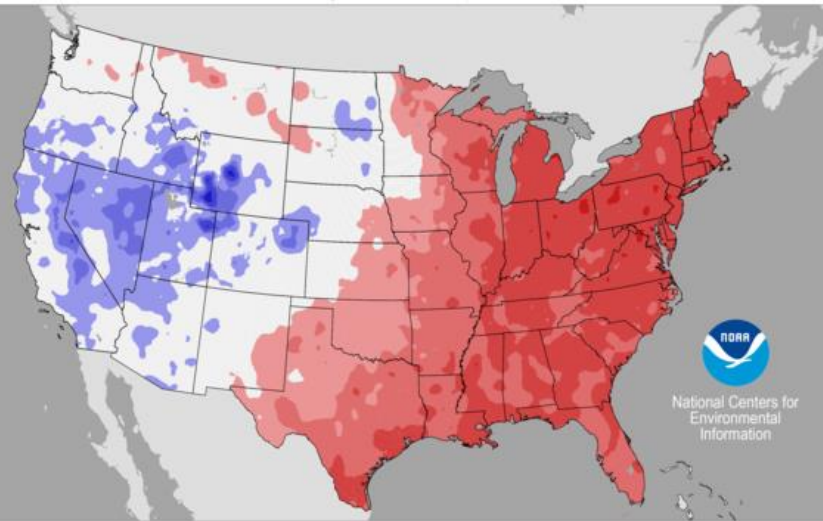
Average Period: 20th Century



Mean Temperature Departures from Average

January–March 2023

Average Period: 20th Century



Created: Thu Apr 06 2023

Degrees Fahrenheit

Data Source: nClimGrid

Created: Thu Apr 06 2023

Degrees Fahrenheit

Data Source: nClimGrid

<https://wrcc.dri.edu/wwdt/index.php?region=pnw>



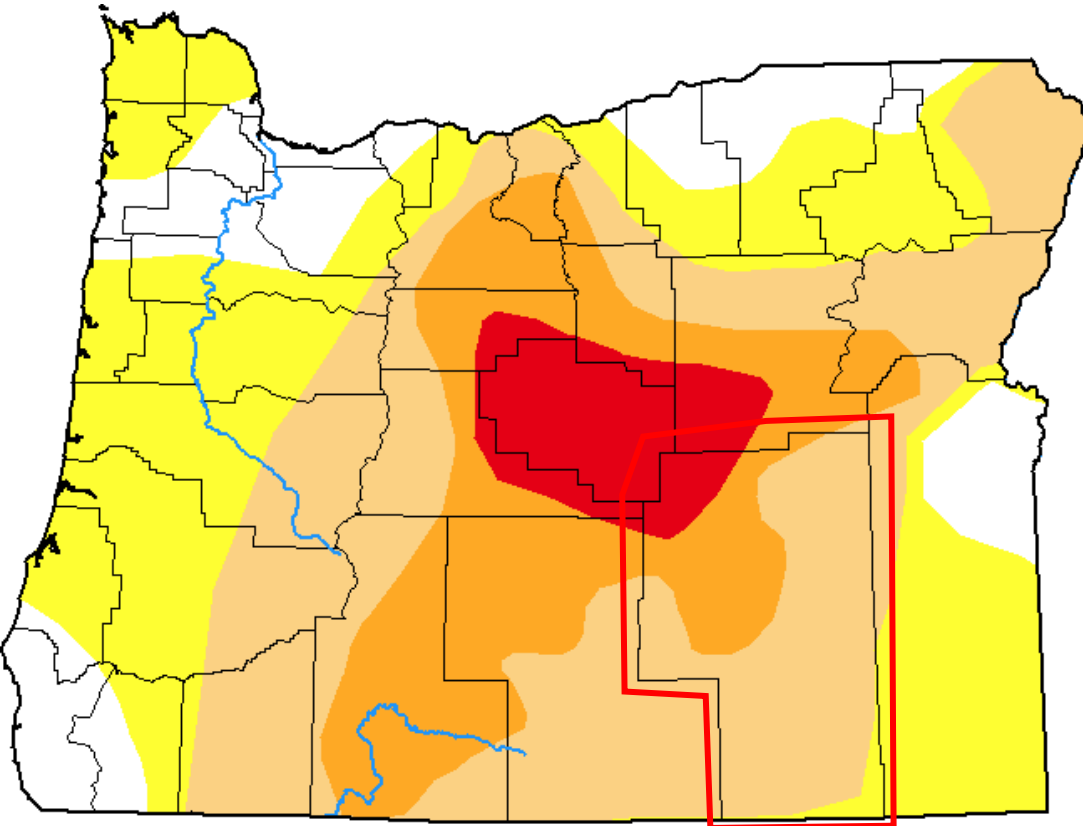
Drought Monitor

U.S. Drought Monitor Oregon

April 4, 2023

(Released Thursday, Apr. 6, 2023)

Valid 8 a.m. EDT



Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data



droughtmonitor.unl.edu

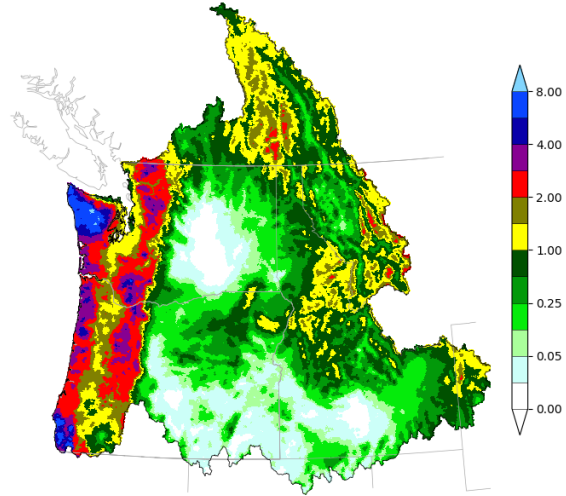


Mid April Outlook

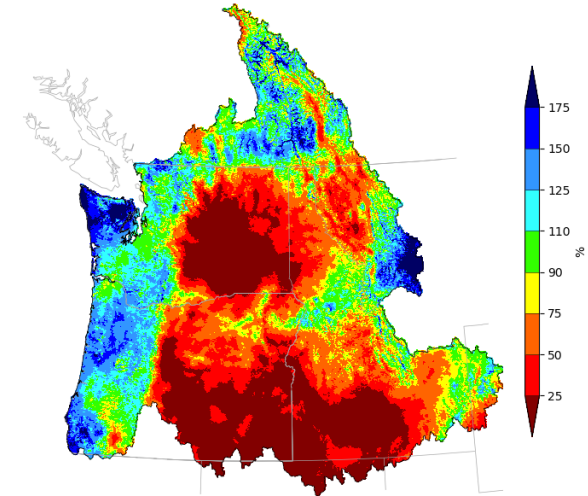
NWRFC 10-DAY PRECIPITATION FORECAST as of 4/11/2023

www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php

Northwest River Forecast Center
10 Day QPF, Ending 18Z, 04/21/23



Northwest River Forecast Center
10 Day QPF (Percent of Climatology), Ending 18Z, 04/21/23

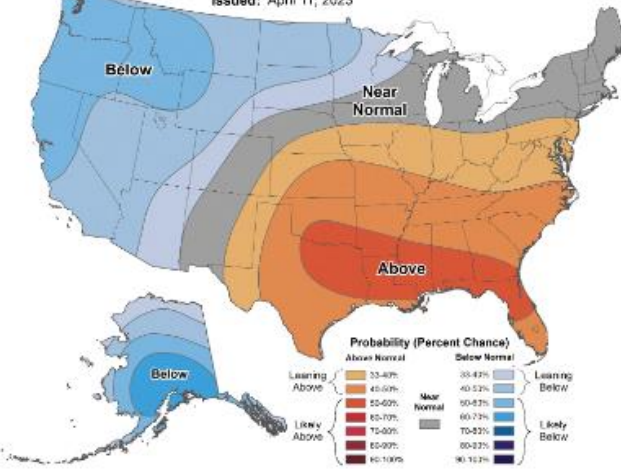


CPC 8 - 14 DAY OUTLOOK

www.cpc.ncep.noaa.gov

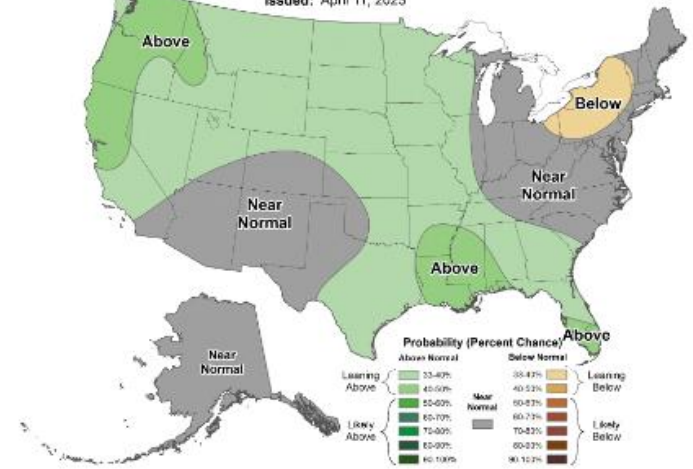
8-14 Day Temperature Outlook

Valid: April 19 - 25, 2023
Issued: April 11, 2023



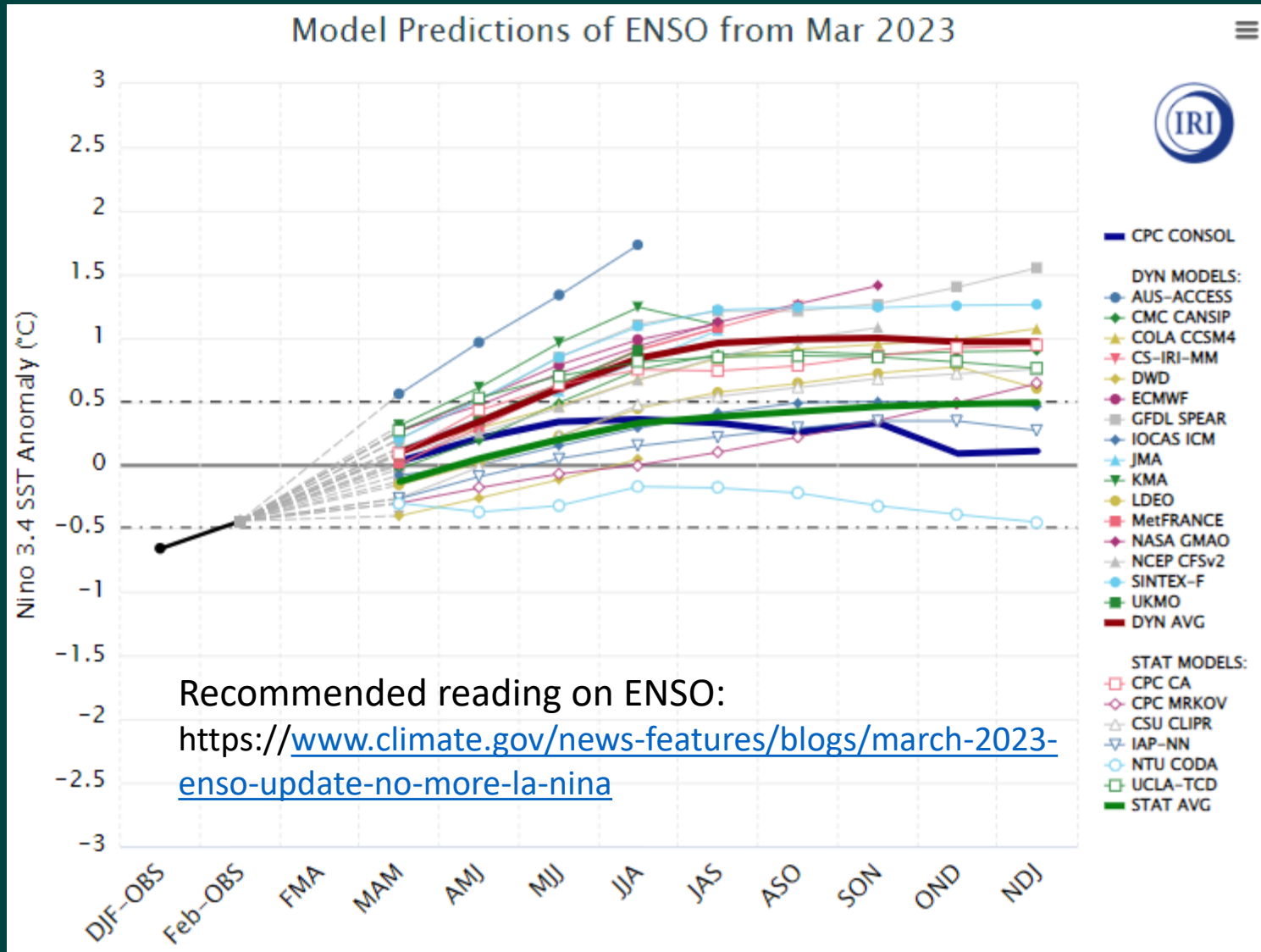
8-14 Day Precipitation Outlook

Valid: April 19 - 25, 2023
Issued: April 11, 2023





ENSO Status & Prediction

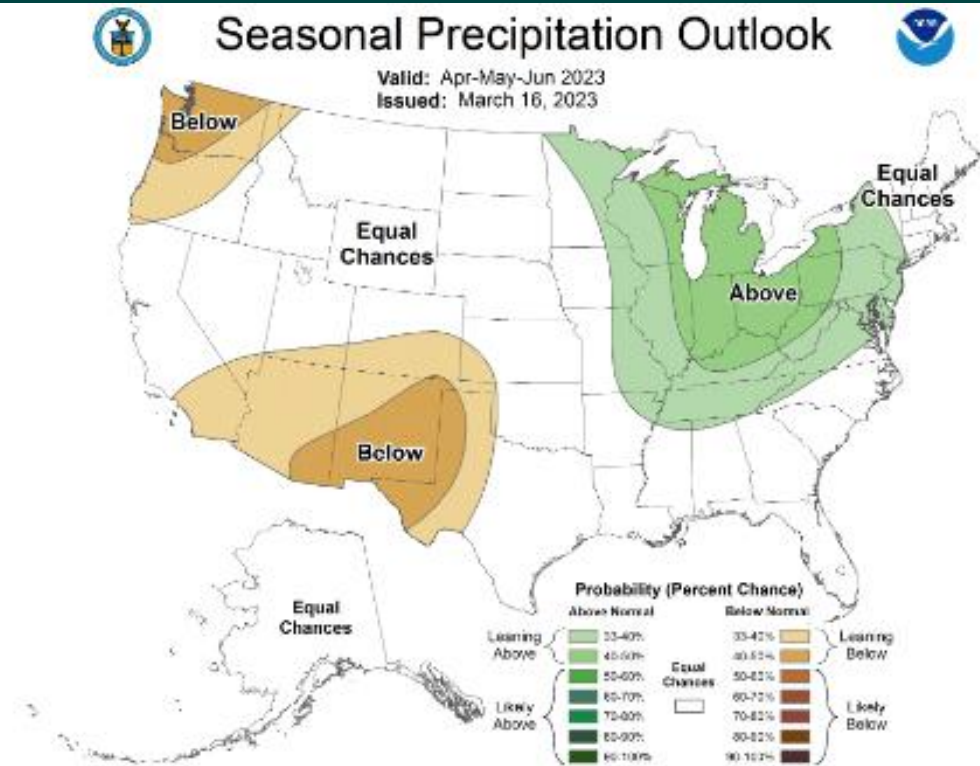
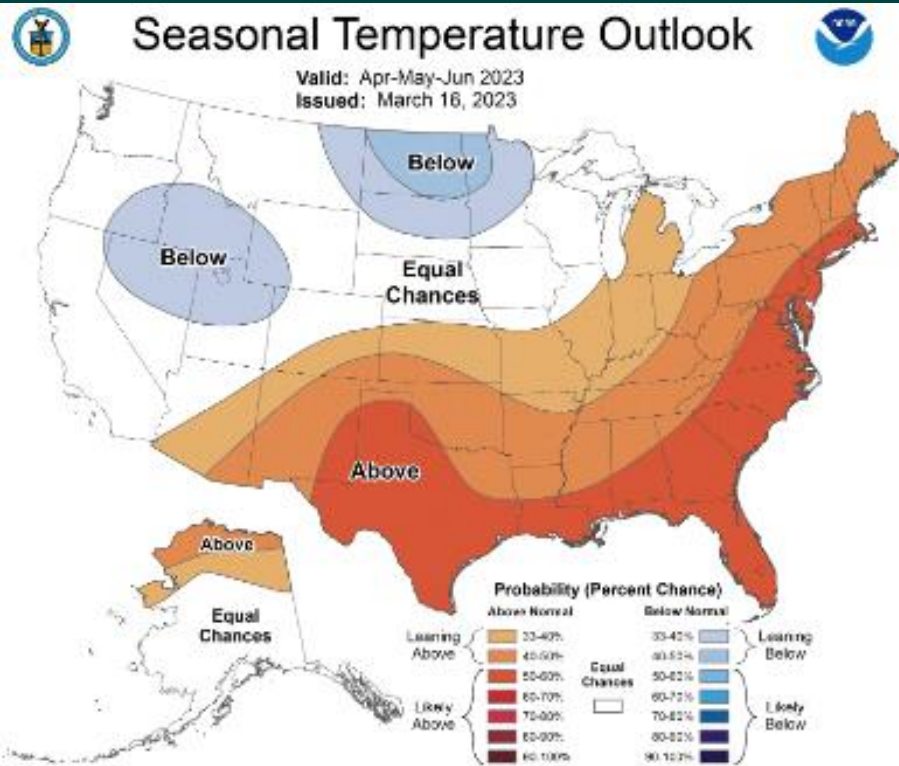


https://iri.columbia.edu/our-expertise/climate/forecasts/ens0/current/?ens0_tab=ens0-sst_table



Climate Prediction Center Outlook

April – June 2023

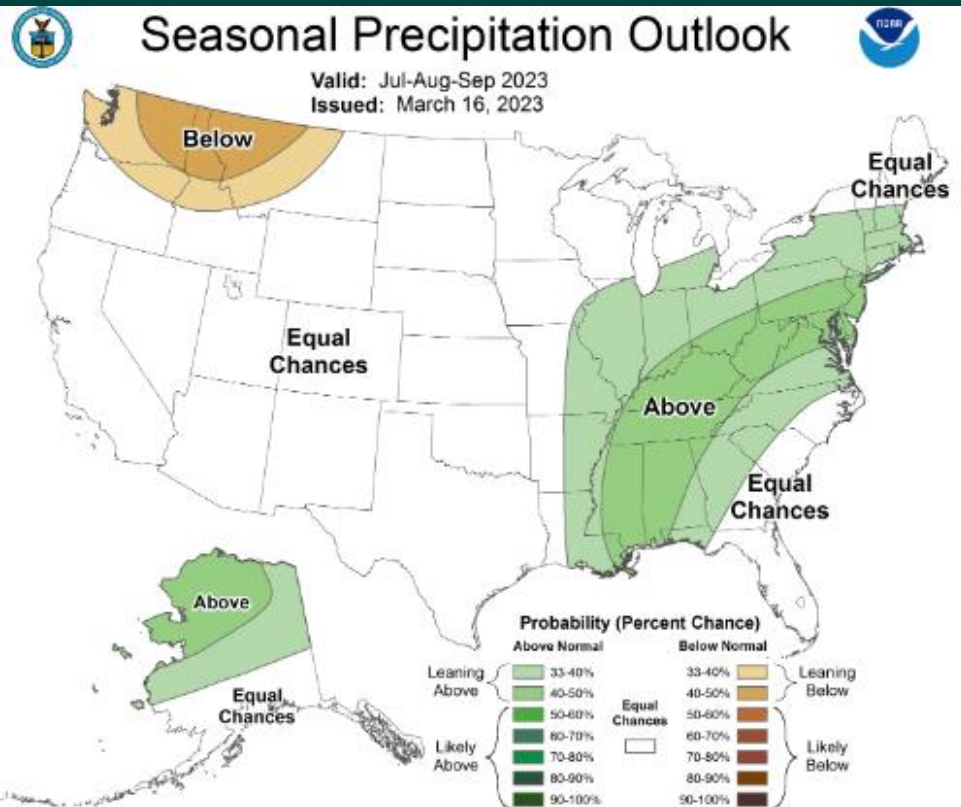
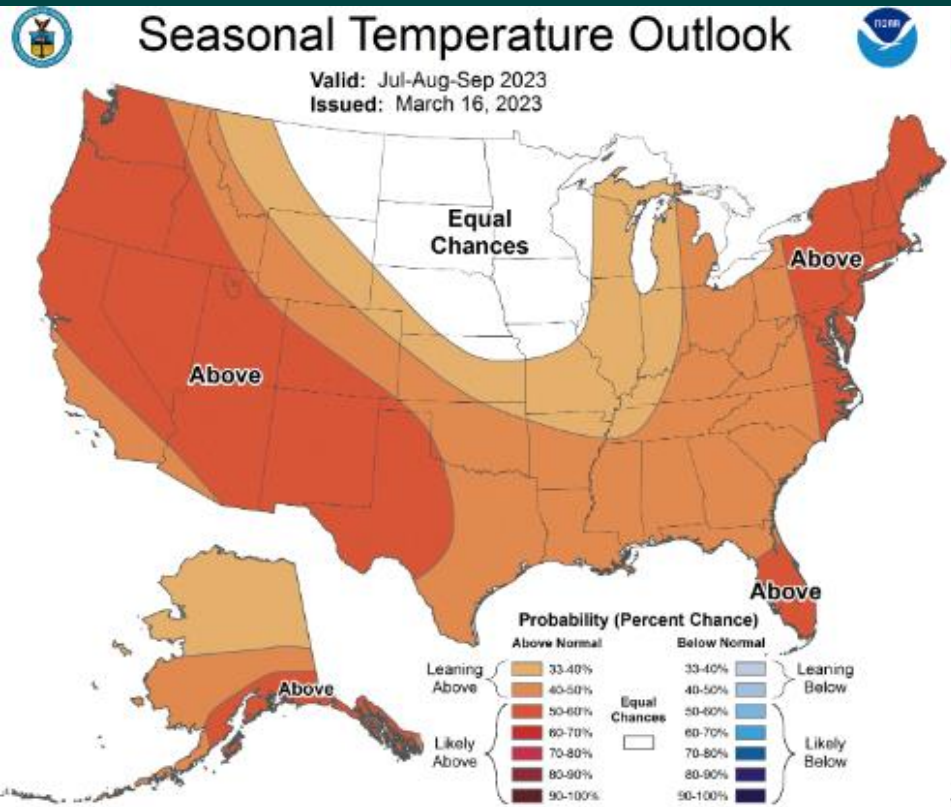


www.cpc.ncep.noaa.gov

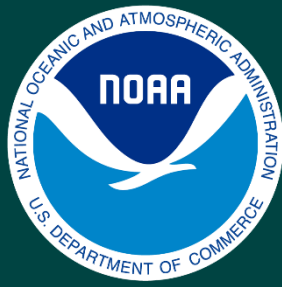


Climate Prediction Center Outlook

July - September 2023



www.cpc.ncep.noaa.gov

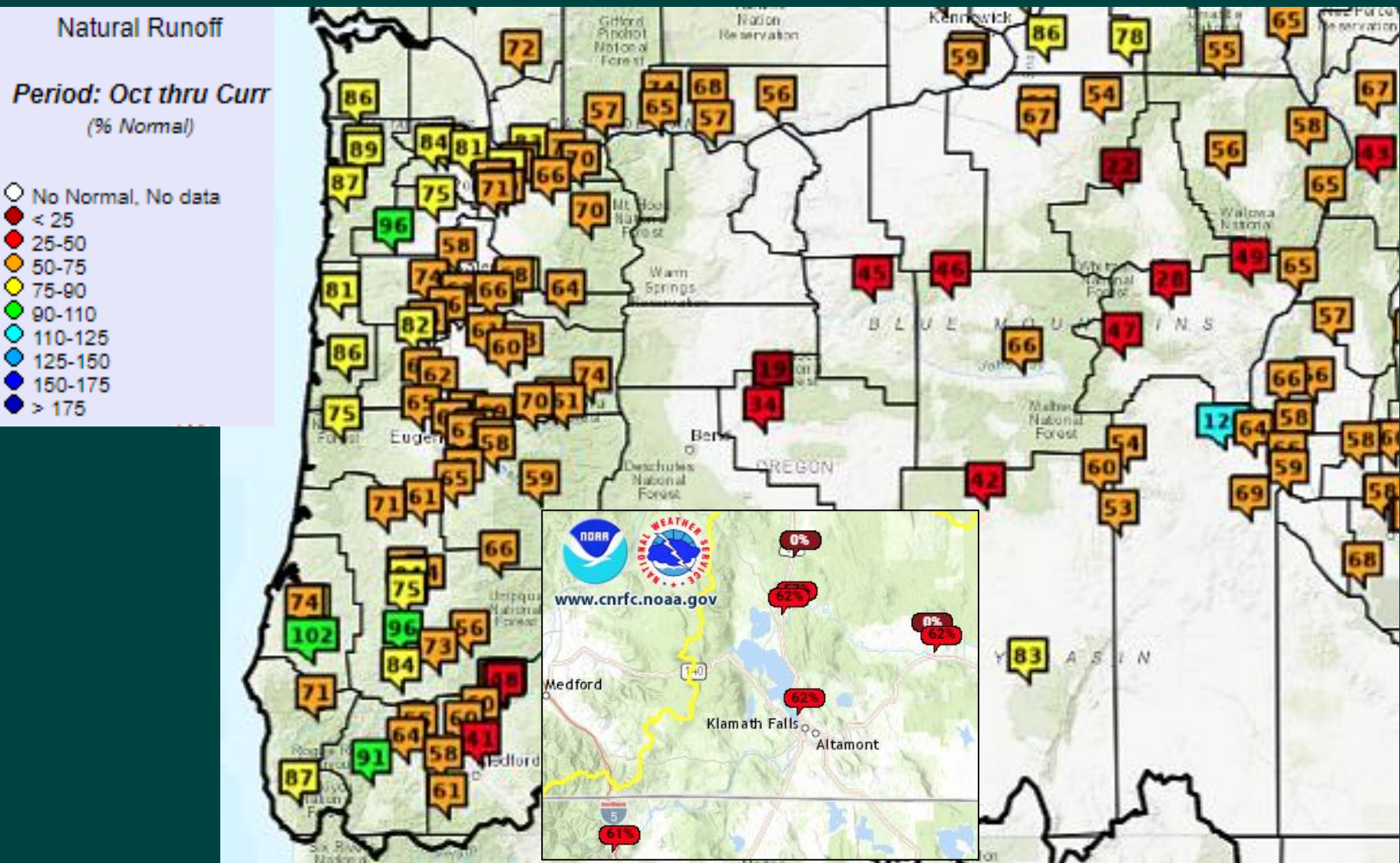


March 2023 Update for Water Supply Forecasts

NOAA National Weather Service



Observed Runoff October – Present % of Average



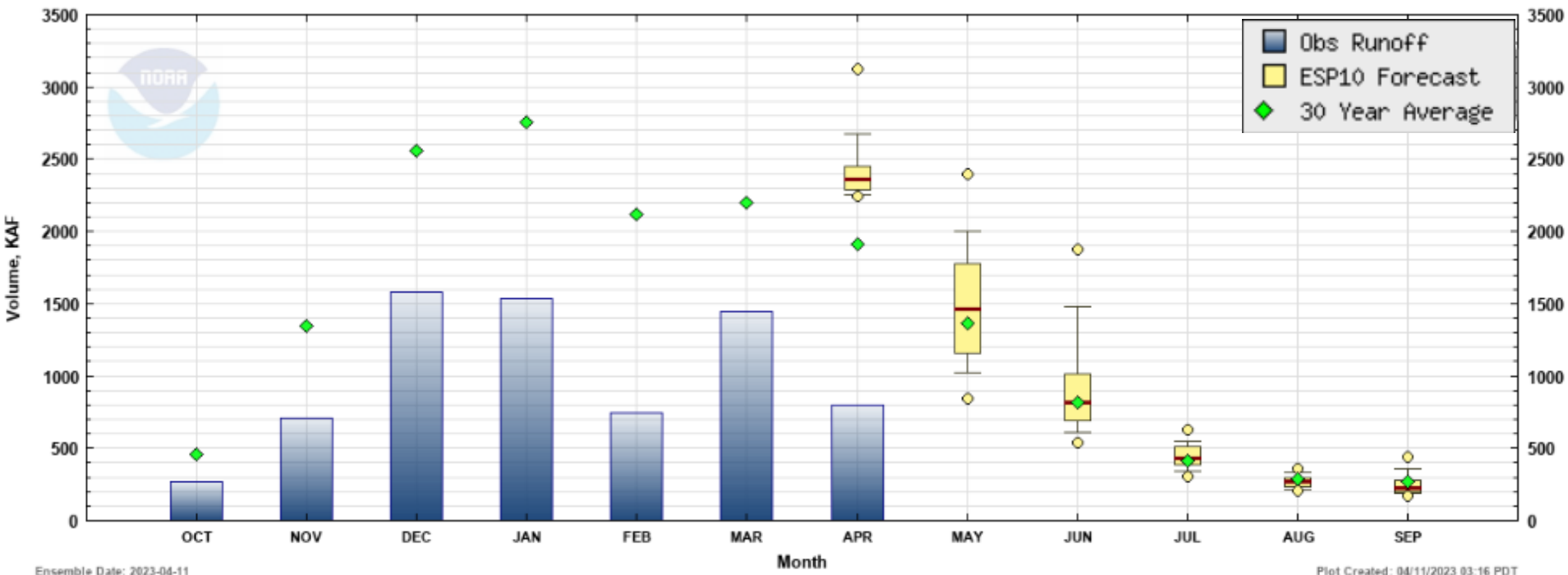


Water Supply Forecasts

Willamette R at Salem

Period	1 month ago %	April 11 th %
Apr – Sep	90	112
Water Year	67	72

Natural Volume Monthly Forecasts (ESP10) for Water Year 2023
(SLMO3) WILLAMETTE - AT SALEM



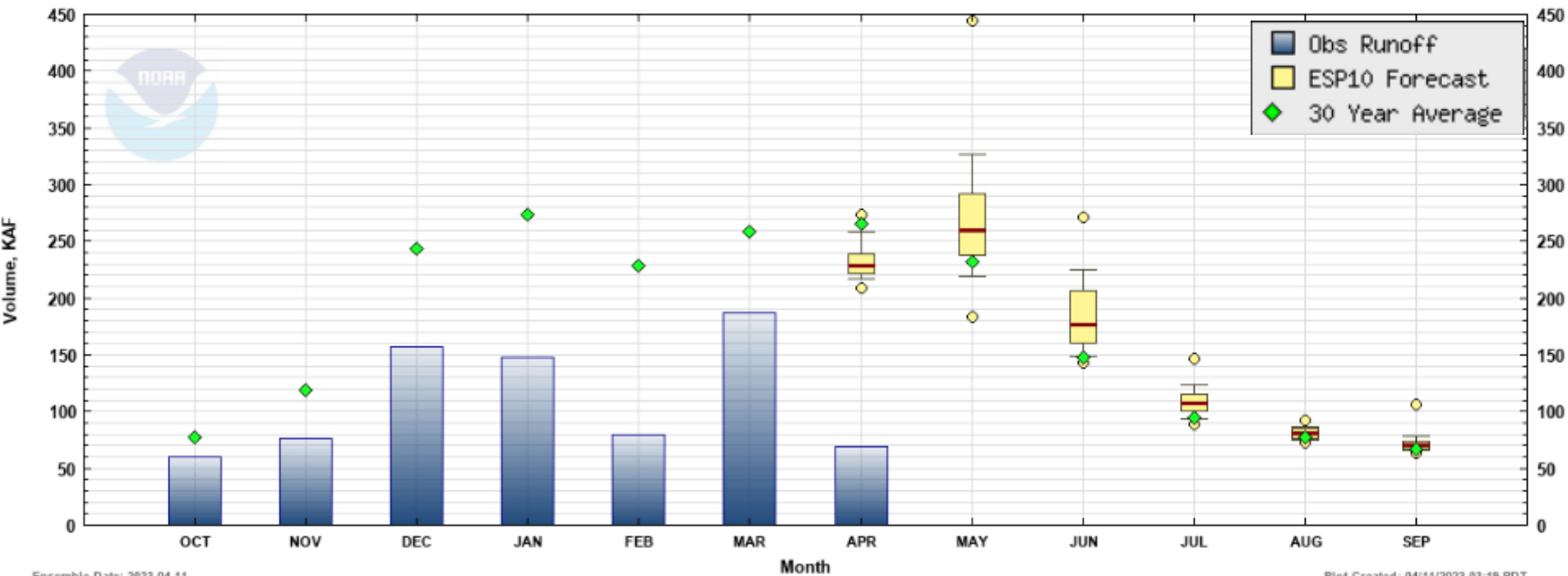
https://www.nwrfc.noaa.gov/natural/plot/nat_forecasts.php?id=SLMO3



Water Supply Forecasts Rogue R at Raygold

Period	1 month ago %	April 11 th %
Apr – Sep	88	105
Water Year	71	79

Natural Volume Monthly Forecasts (ESP10) for Water Year 2023
(RYGO3) ROGUE - AT RAYGOLD



Ensemble Date: 2023-04-11

Plot Created: 04/11/2023 03:19 PDT

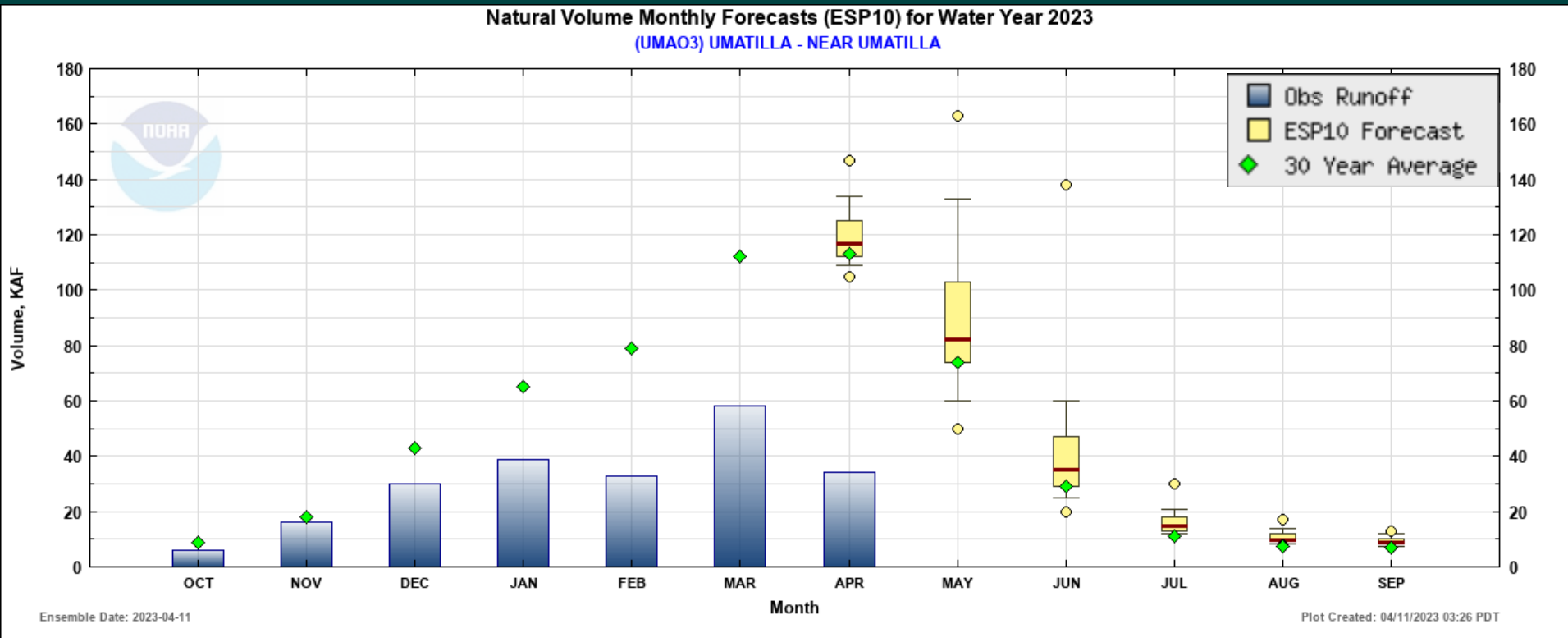
https://www.nwrfc.noaa.gov/natural/plot/nat_forecasts.php?id=RYGO3



Water Supply Forecasts

Umatilla R near Umatilla

Period	1 month ago %	April 11 th %
Apr – Sep	84	114
Water Year	66	81



https://www.nwrfc.noaa.gov/natural/plot/nat_forecasts.php?id=UMA03

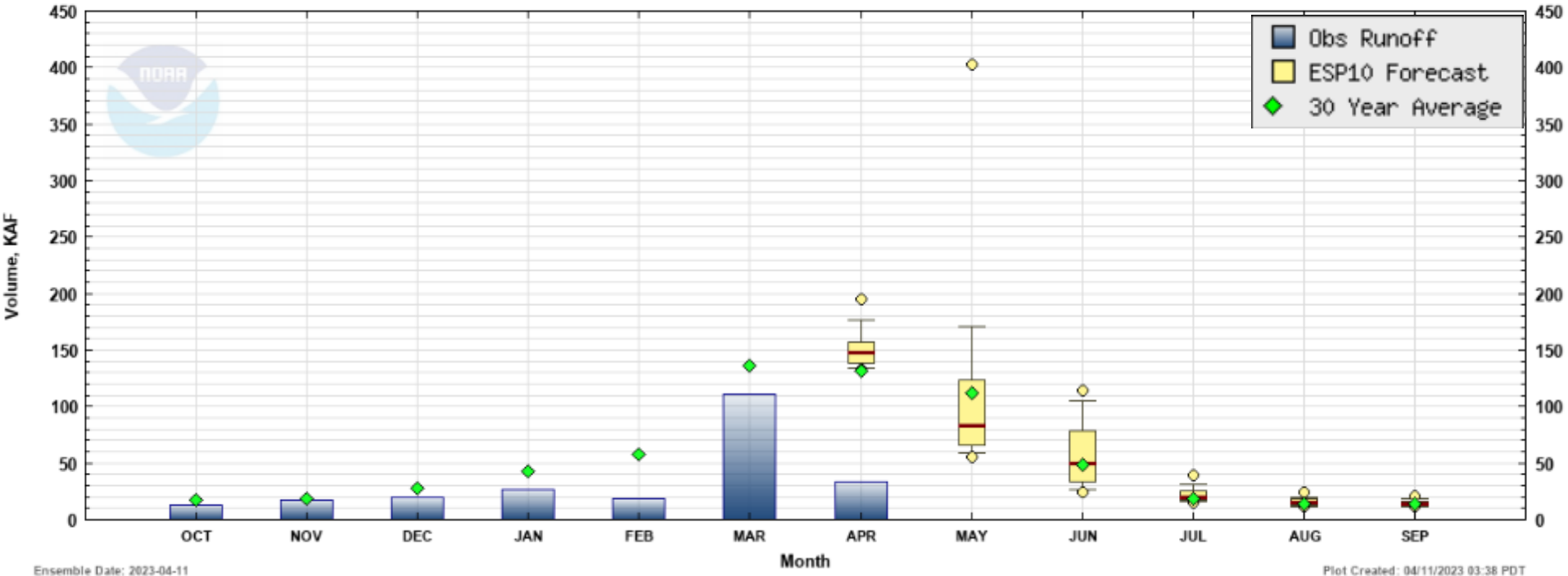


Water Supply Forecasts

Owyhee R at Owyhee Dam

Period	1 month ago %	April 11 th %
Apr – Sep	108	102
Water Year	93	86

Natural Volume Monthly Forecasts (ESP10) for Water Year 2023
(OWYO3) OWYHEE - OWYHEE DAM



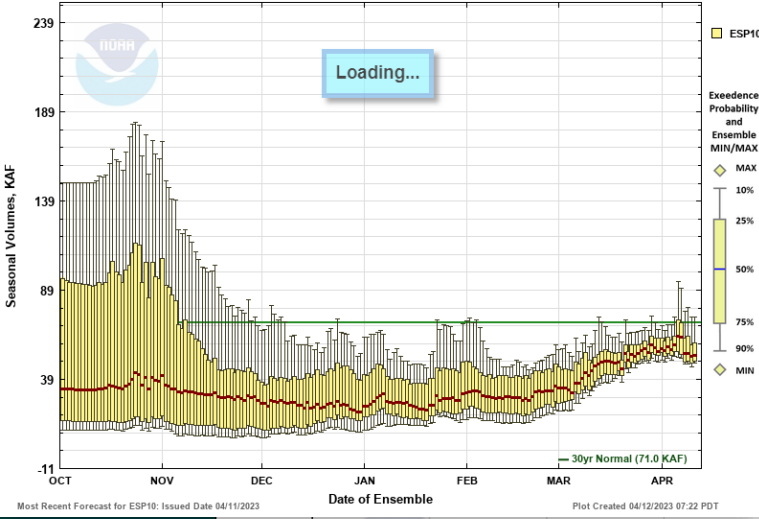
https://www.nwrfc.noaa.gov/natural/plot/nat_forecasts.php?id=OWYO3



Water Supply Forecasts

Silvies R near Burns

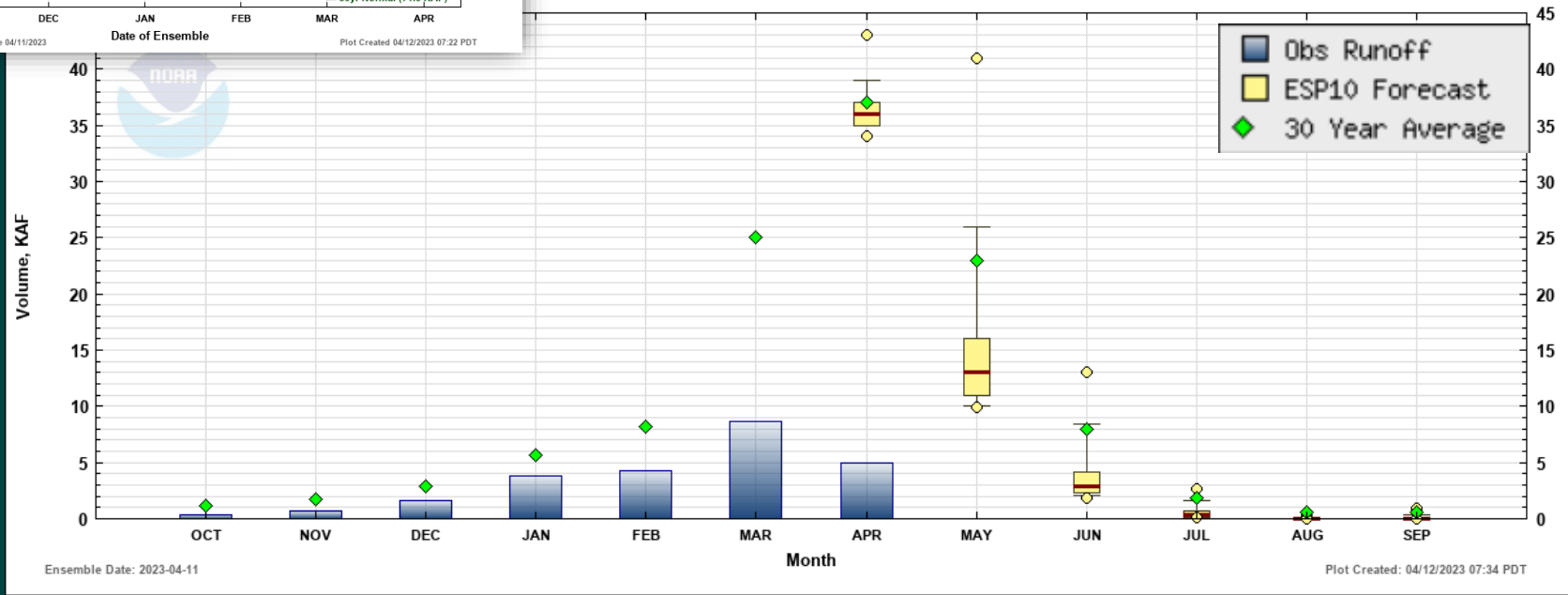
Natural Volume Forecasts
SILVIES - NEAR BURNS
Period APR to SEP -- Water Year 2023



Period	April 11 th % Norm
Apr - Sep	74%
Oct - Sep	62%

https://www.nwrfc.noaa.gov/natural/plot/nat_forecasts.php?id=BUSO3

Natural Volume Monthly Forecasts (ESP10) for Water Year 2023
(BUSO3) SILVIES - NEAR BURNS





Water Supply Briefings

2023 Schedule for <i>Live</i> Water Supply Briefings					
Jan	Feb	Mar	Apr	May	Jun
5	2	2	6	4	TBD
<i>All presentations held at 10:00am PDT/PST, unless noted otherwise</i>					
Click here for Registration Information					

Info: https://www.nwrfc.noaa.gov/water_supply/ws_schd.cgi?version=20190204v1
Webinar Registration: <https://register.gotowebinar.com/rt/9001532798339394573>

Water Supply Availability Committee
Oregon Water Resources Department

Ryan Andrews
April 12th, 2023

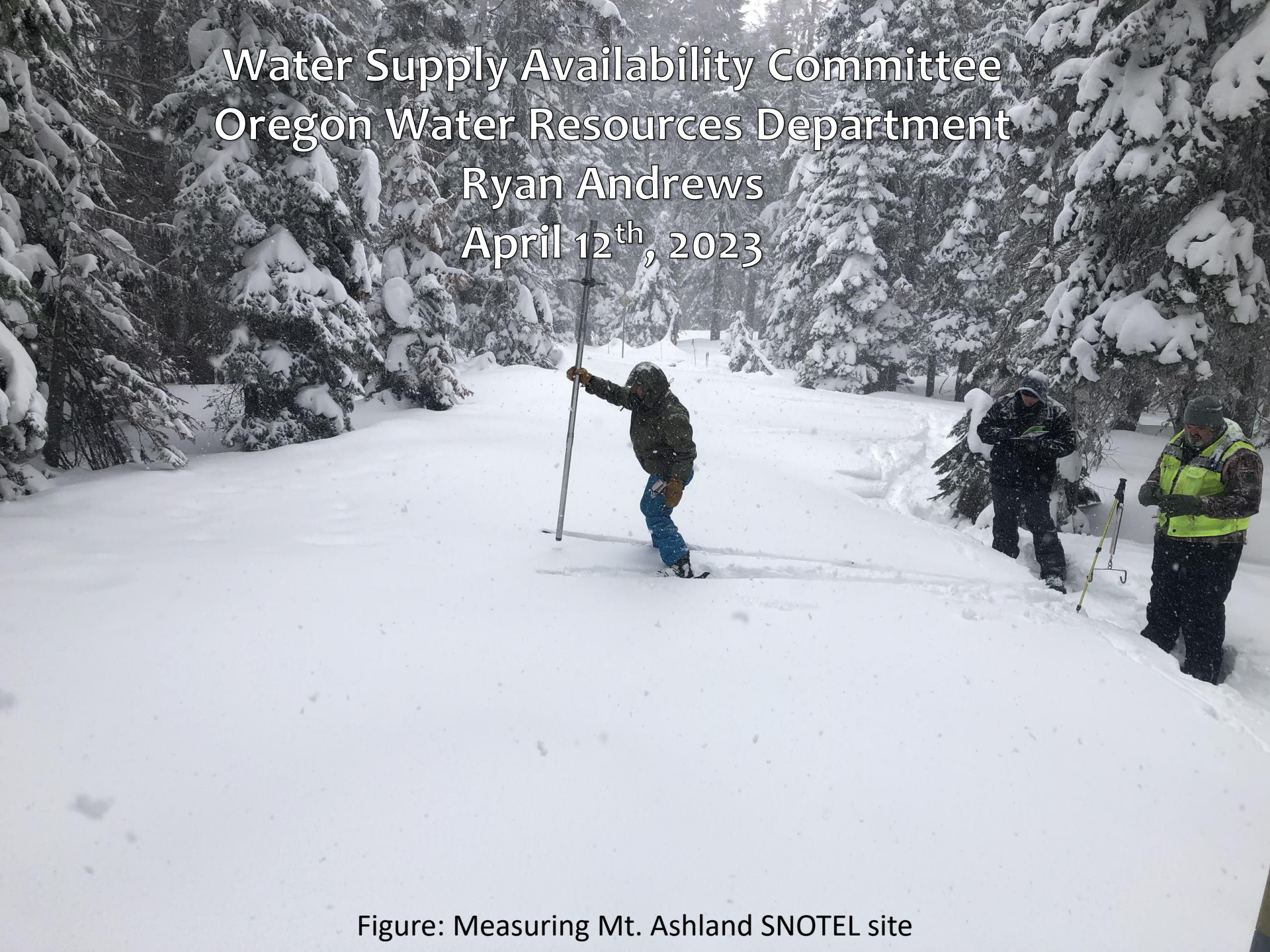
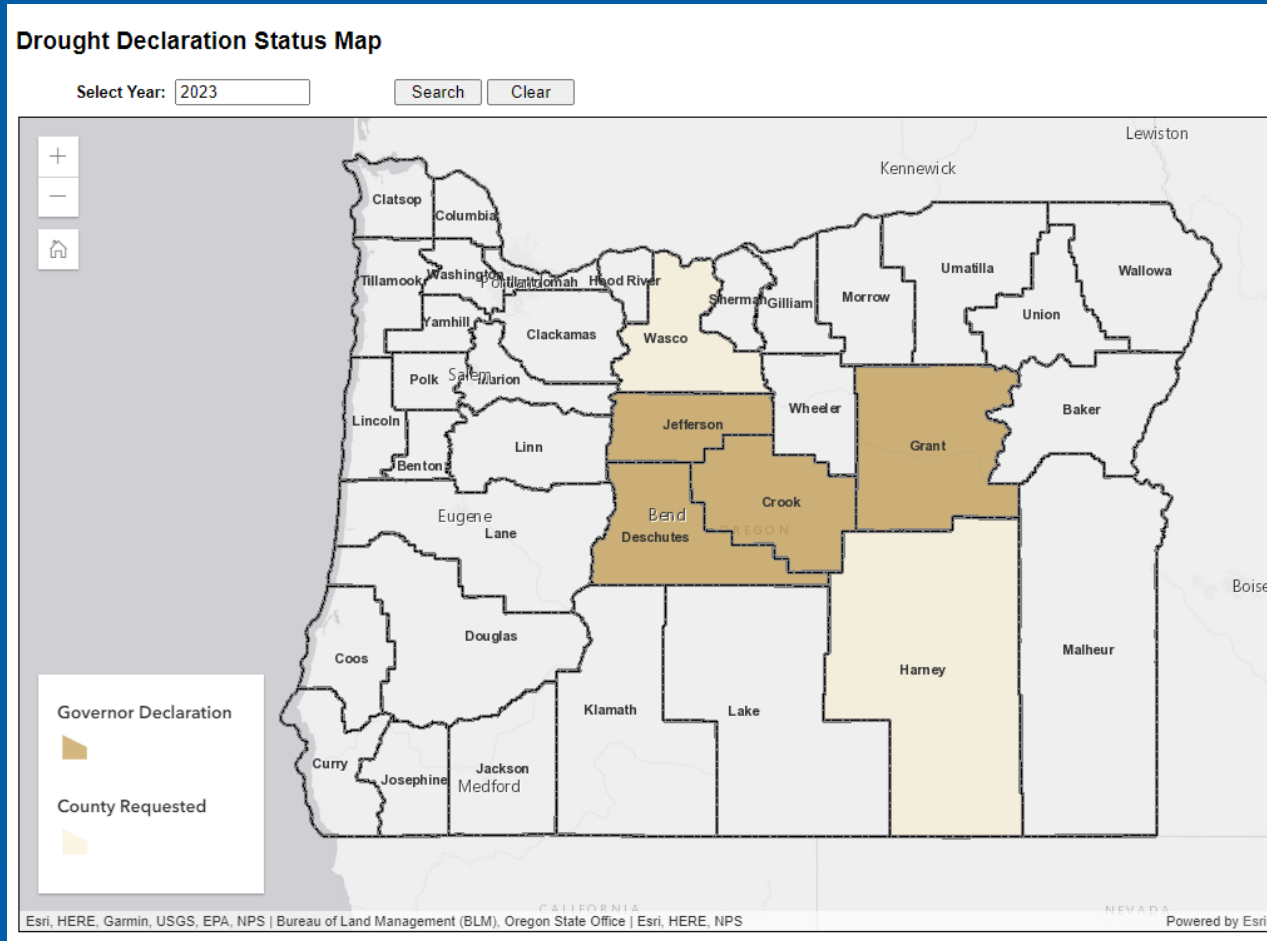


Figure: Measuring Mt. Ashland SNOTEL site

Drought Declarations



- Four counties with Executive Orders for drought declarations under ORS 536
- Harney County requesting
- Wasco County request forwarded to Governor's Office



March % of Average Streamflow - WY 2023

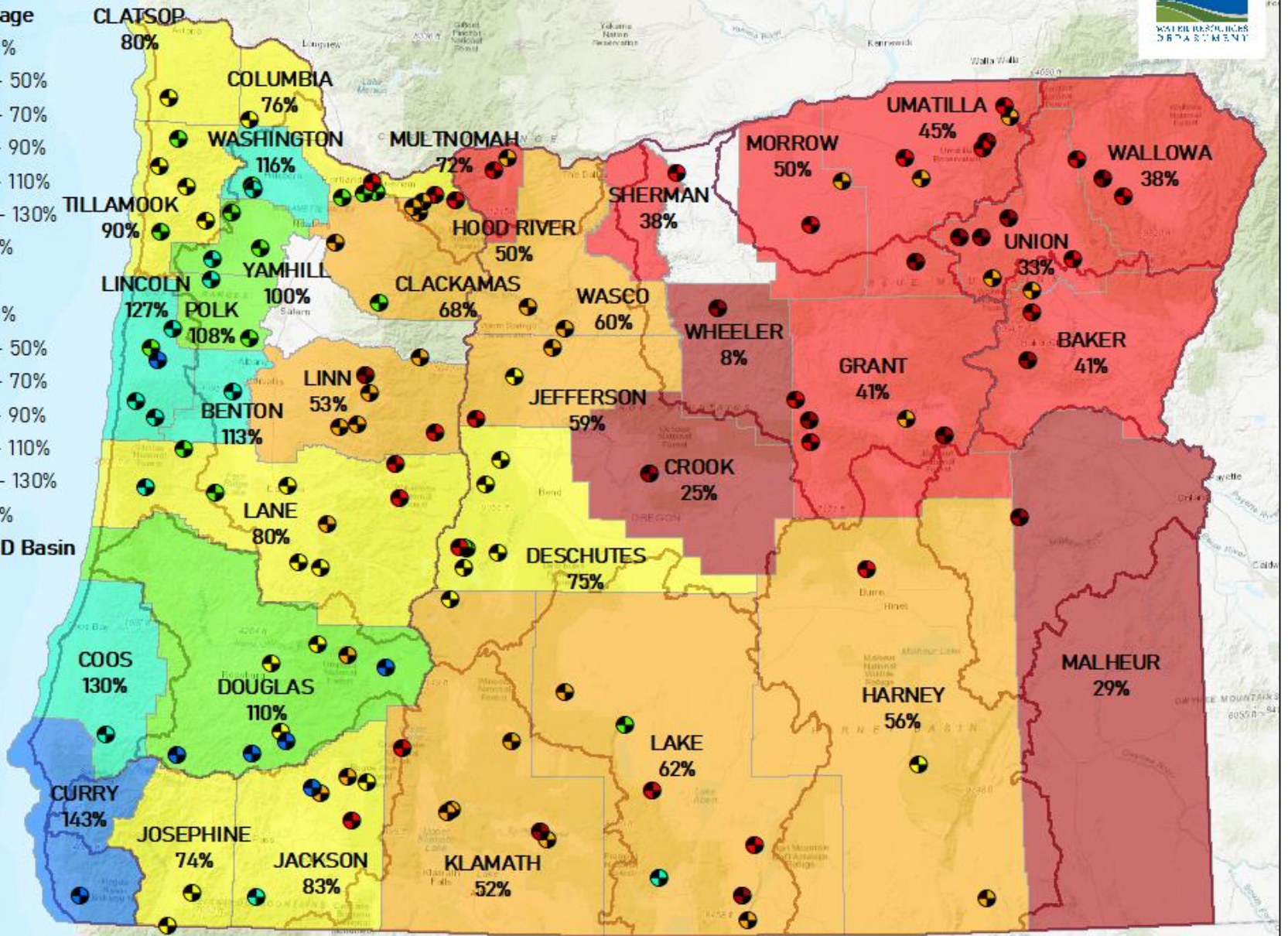


Stream Gage

- <= 30%
- 31% - 50%
- 51% - 70%
- 71% - 90%
- 91% - 110%
- 111% - 130%
- > 130%

Counties

- <= 30%
- 31% - 50%
- 51% - 70%
- 71% - 90%
- 91% - 110%
- 111% - 130%
- > 130%
- OWRD Basin



Date: 4/3/2023

Water Year To Date % of Average Streamflow - April 10, 2023



Stream Gage

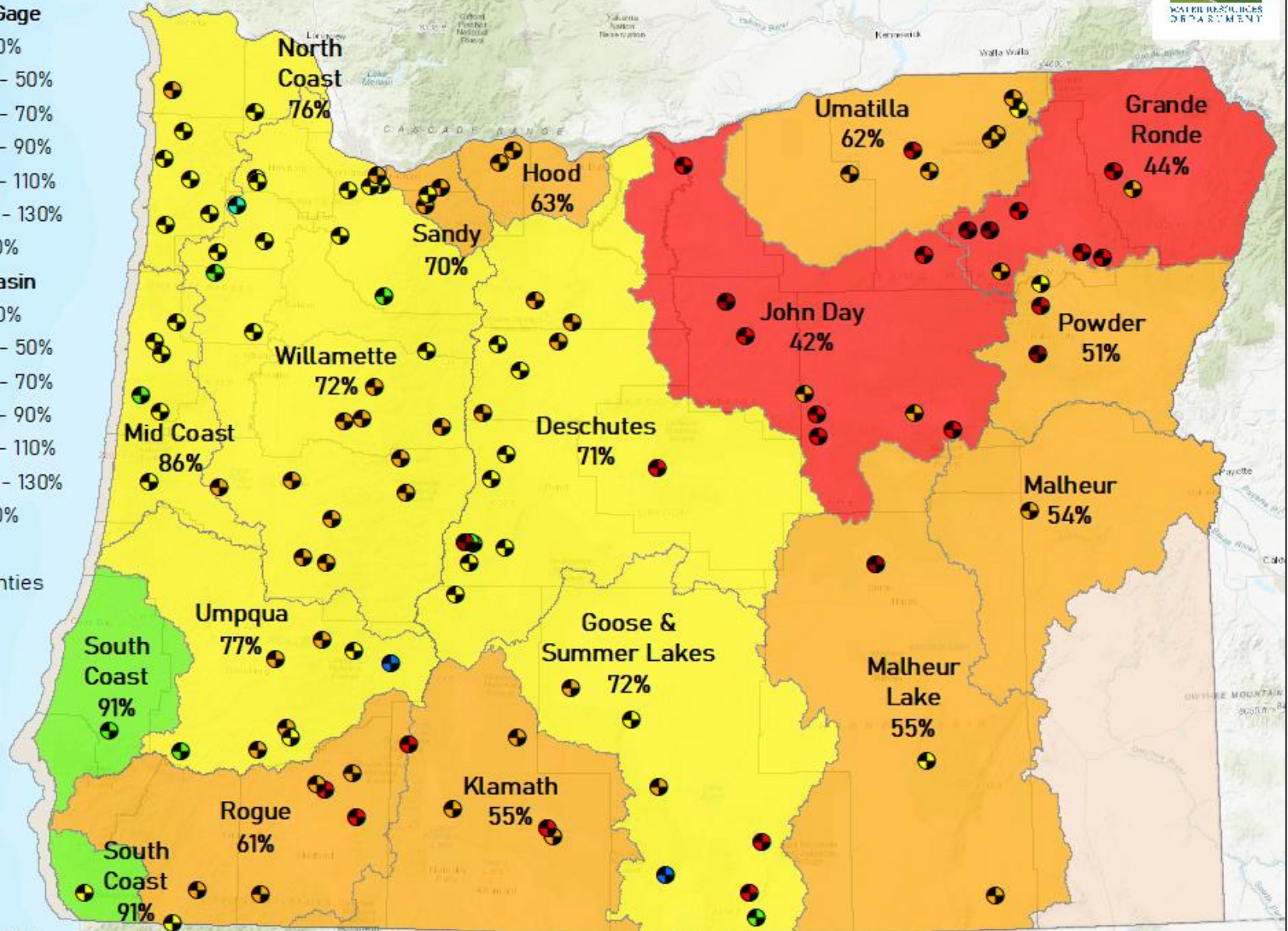
- ≤ 30%
- 31% - 50%
- 51% - 70%
- 71% - 90%
- 91% - 110%
- 111% - 130%
- > 130%

OWRD Basin

- ≤ 30%
- 31% - 50%
- 51% - 70%
- 71% - 90%
- 91% - 110%
- 111% - 130%
- > 130%

Counties

- Counties



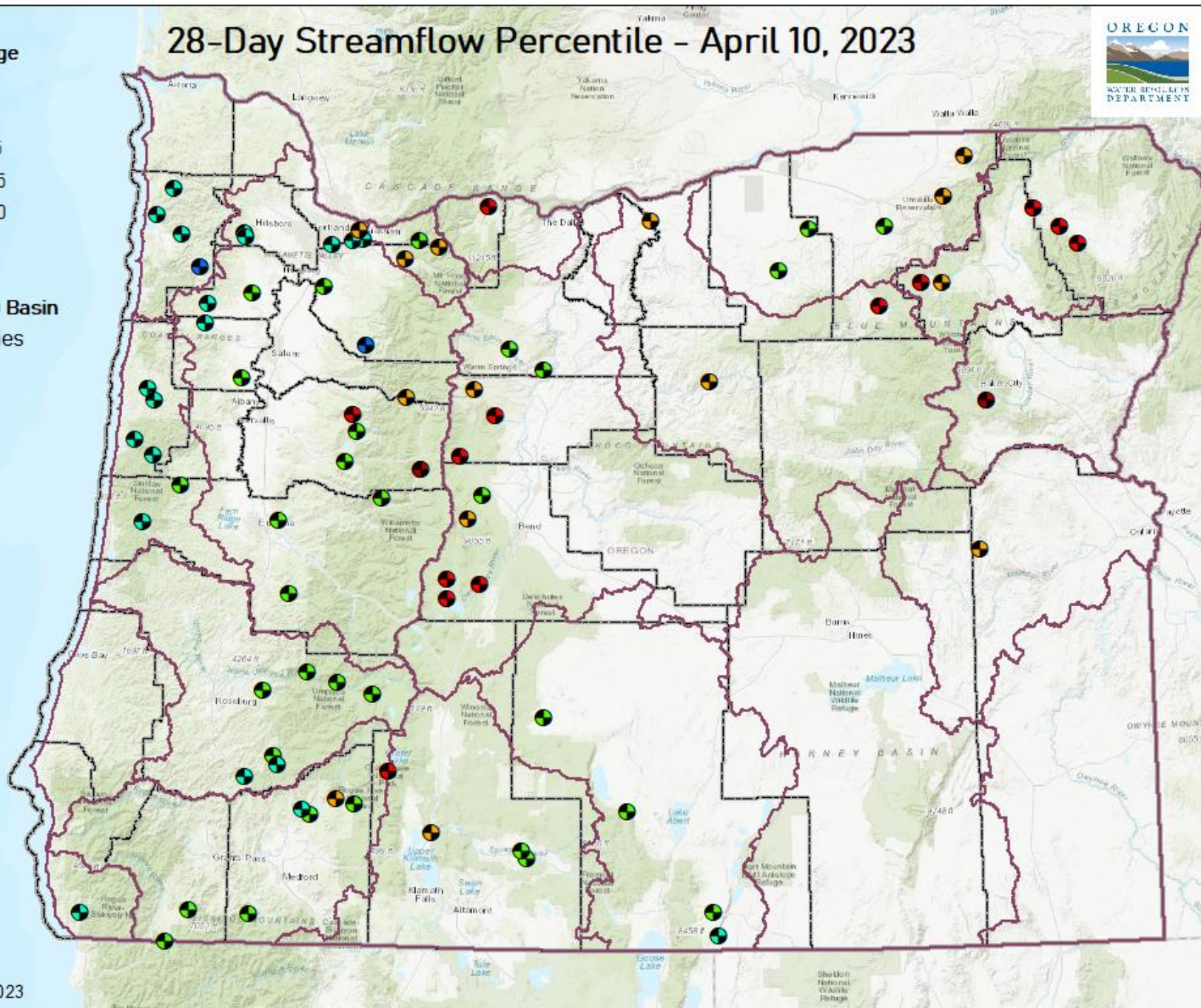
Date: 4/11/2023

28-Day Streamflow Percentile - April 10, 2023



Stream Gage

- LOW
- < 10
- 10 - 25
- 25 - 75
- 75 - 90
- > 90
- HIGH
- OWRD Basin
- Counties



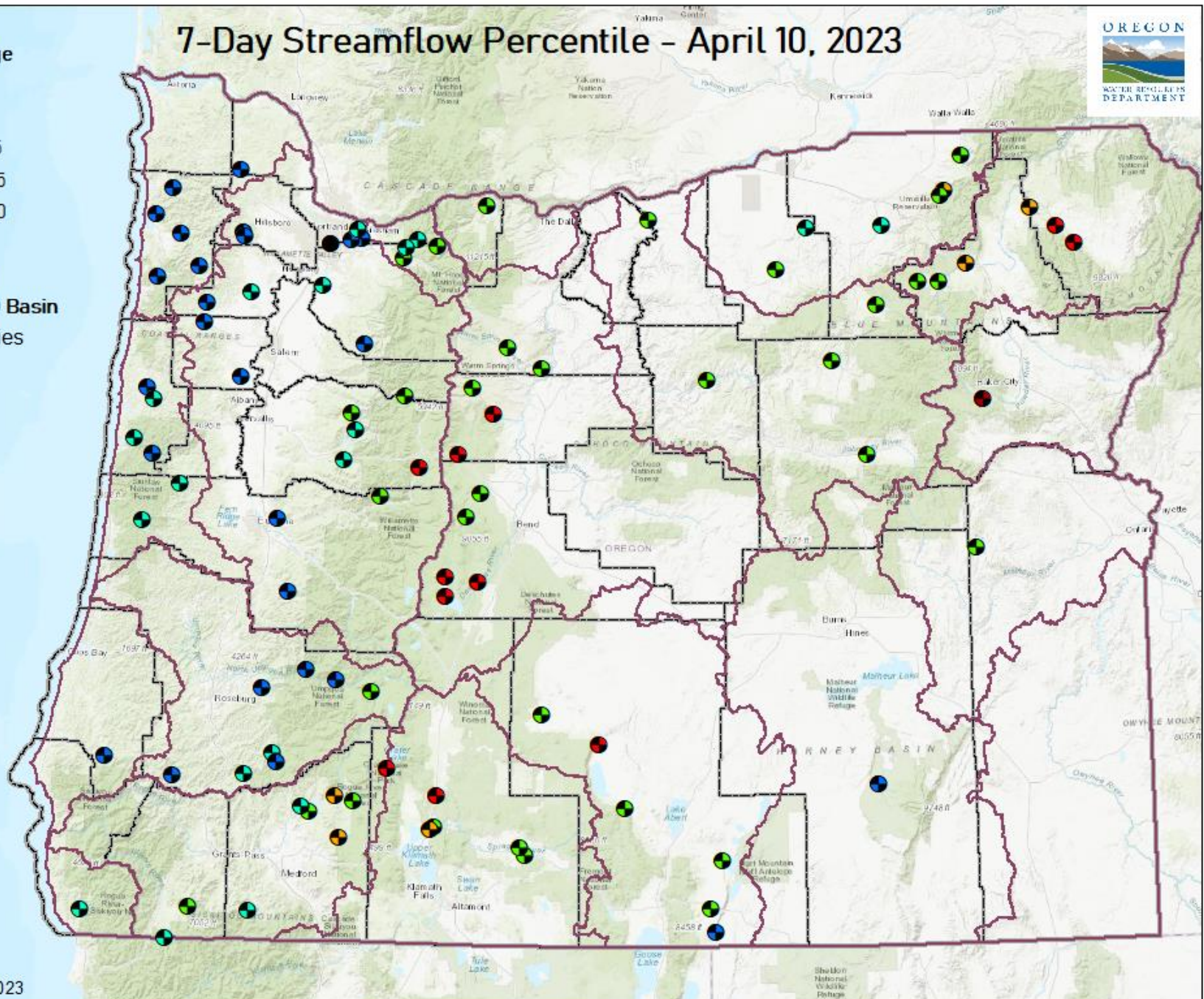
Date: 4/12/2023

7-Day Streamflow Percentile - April 10, 2023



Stream Gage

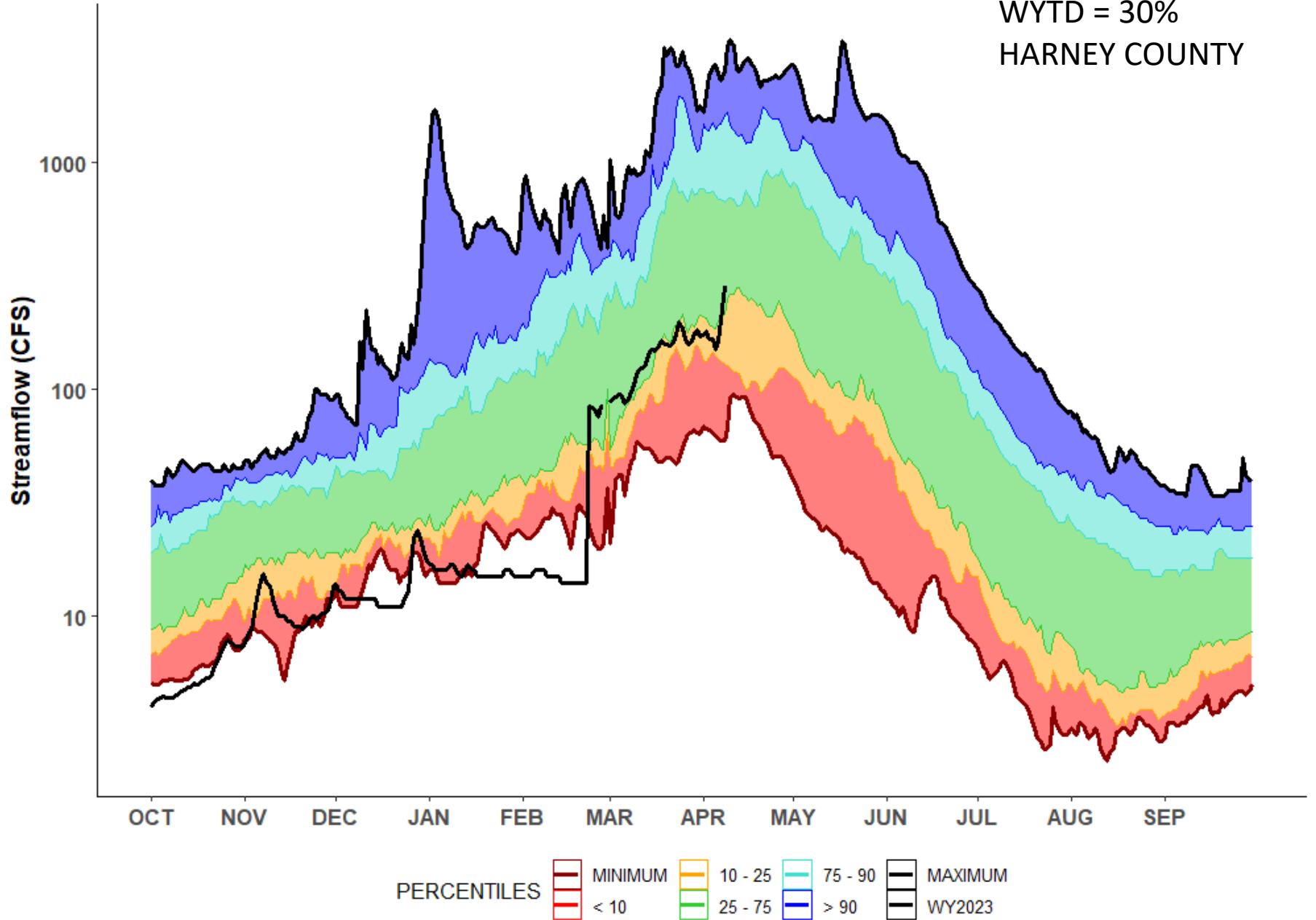
- LOW
- < 10
- 10 - 25
- 25 - 75
- 75 - 90
- > 90
- HIGH
- 🗺️ OWRD Basin
- 🗺️ Counties



Date: 4/12/2023

10393500 - SILVIES R NR BURNS, OR
MALHEUR LAKES BASIN
POR: 1991-2020

WYTD = 30%
HARNEY COUNTY



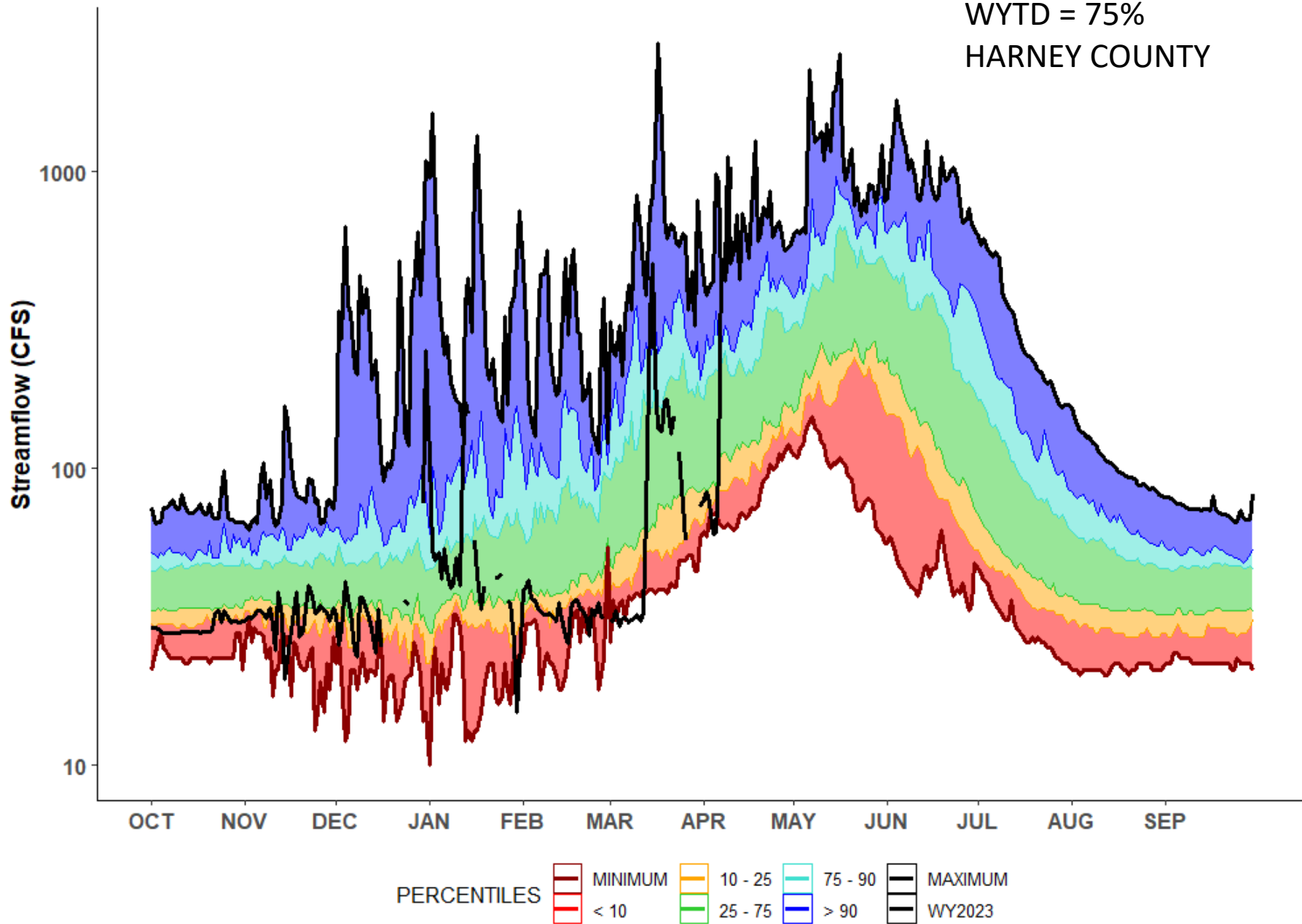
10396000 - DONNER UND BLITZEN R NR FRENCHGLEN, OR

MALHEUR LAKES BASIN

POR: 1991-2020

WYTD = 75%

HARNEY COUNTY



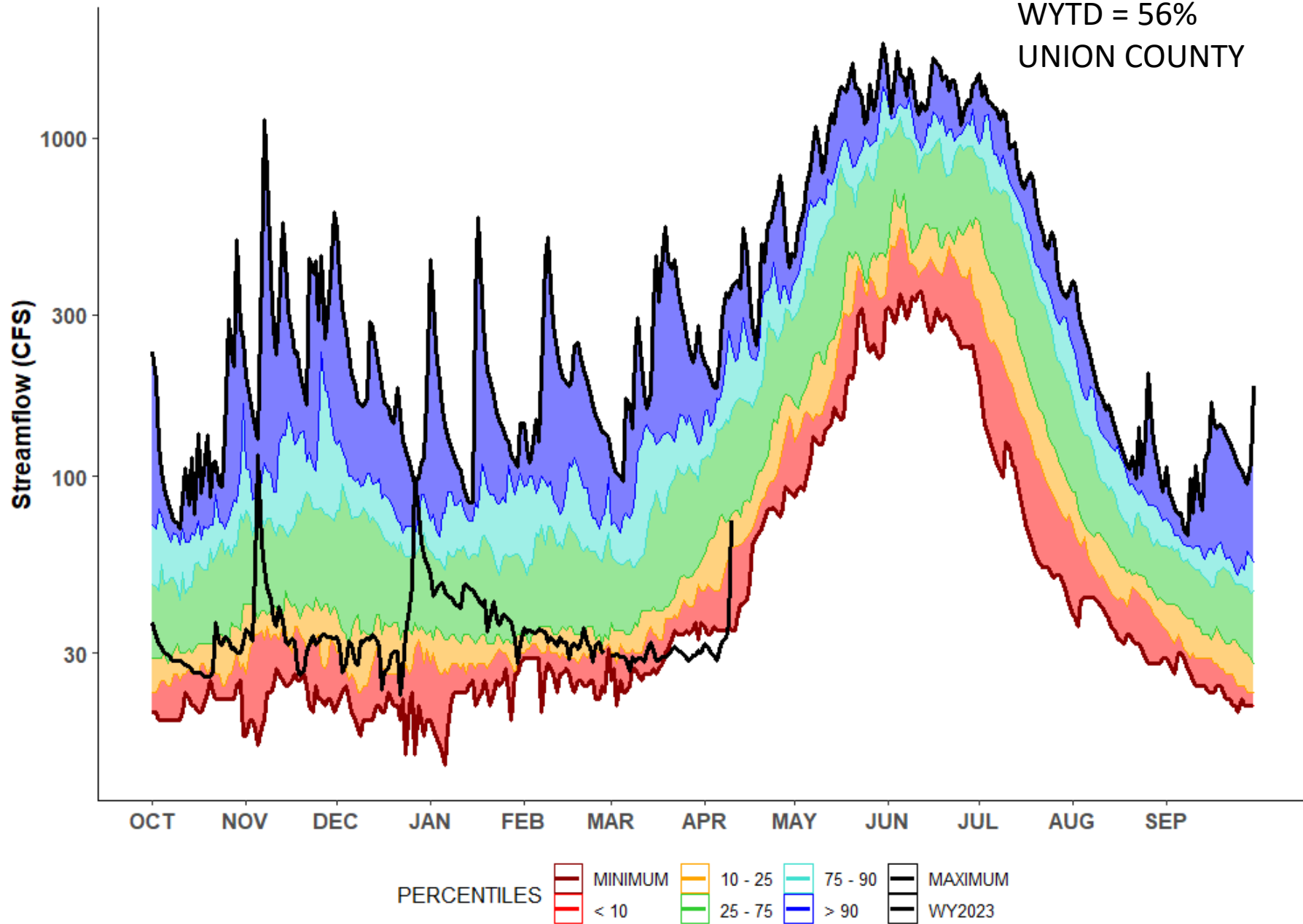
13330000 - LOSTINE R NR LOSTINE, OR

GRANDE RONDE BASIN

POR: 1991-2020

WYTD = 56%

UNION COUNTY



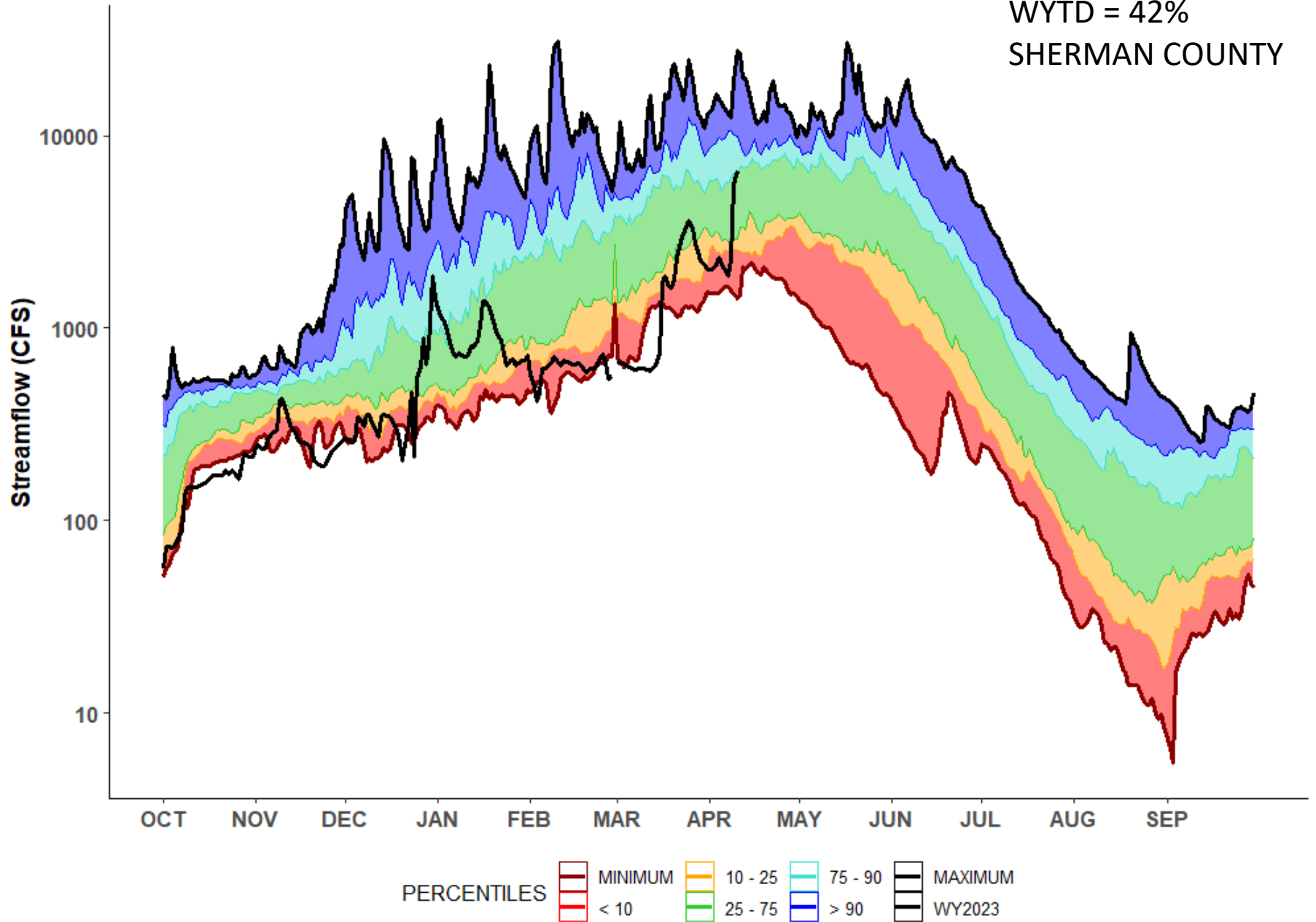
14048000 - JOHN DAY R AT MCDONALD FERRY, OR

JOHN DAY BASIN

POR: 1991-2020

WYTD = 42%

SHERMAN COUNTY



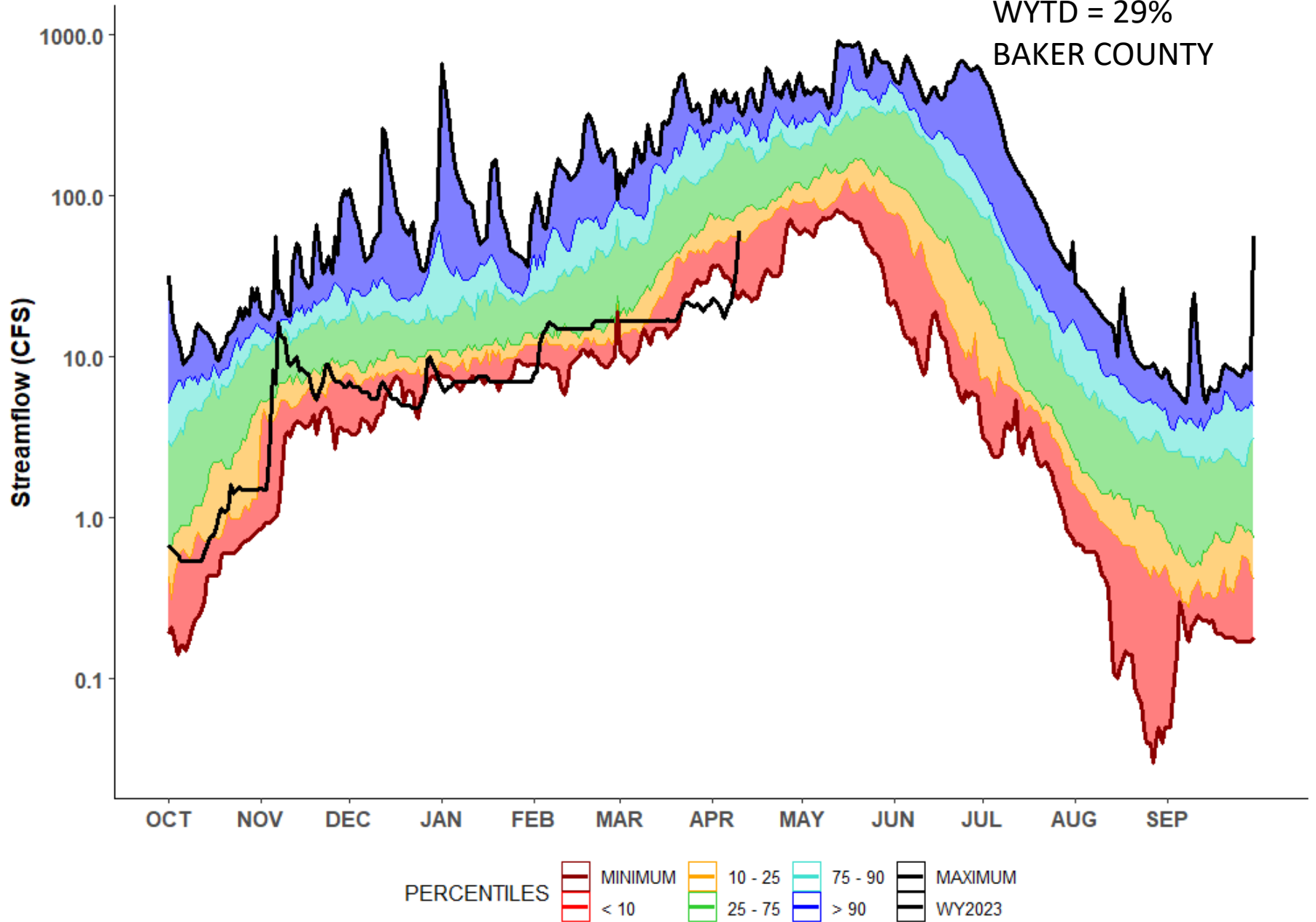
13275105 - POWDER R AT HUDSPETH LANE NR SUMPTER, OR

POWDER BASIN

POR: 1991-2020

WYTD = 29%

BAKER COUNTY



Summary



- Wasco County drought request forwarded to Governor's Office; Harney County requesting
- Flows showing some response to recent precipitation events
 - Sustained flows dependent on steady snowmelt and replenished soil moisture
 - Soil moisture lagging behind in northcentral and northeast Oregon

OREGON



WATER RESOURCES
DEPARTMENT

QUESTIONS?