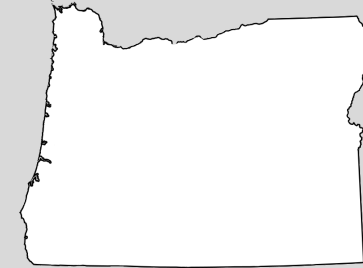


MEASURES = { 0 }



Oregon Snow Survey

Snow Survey and Water Supply Forecasting Program



Oregon Water Supply Availability Committee

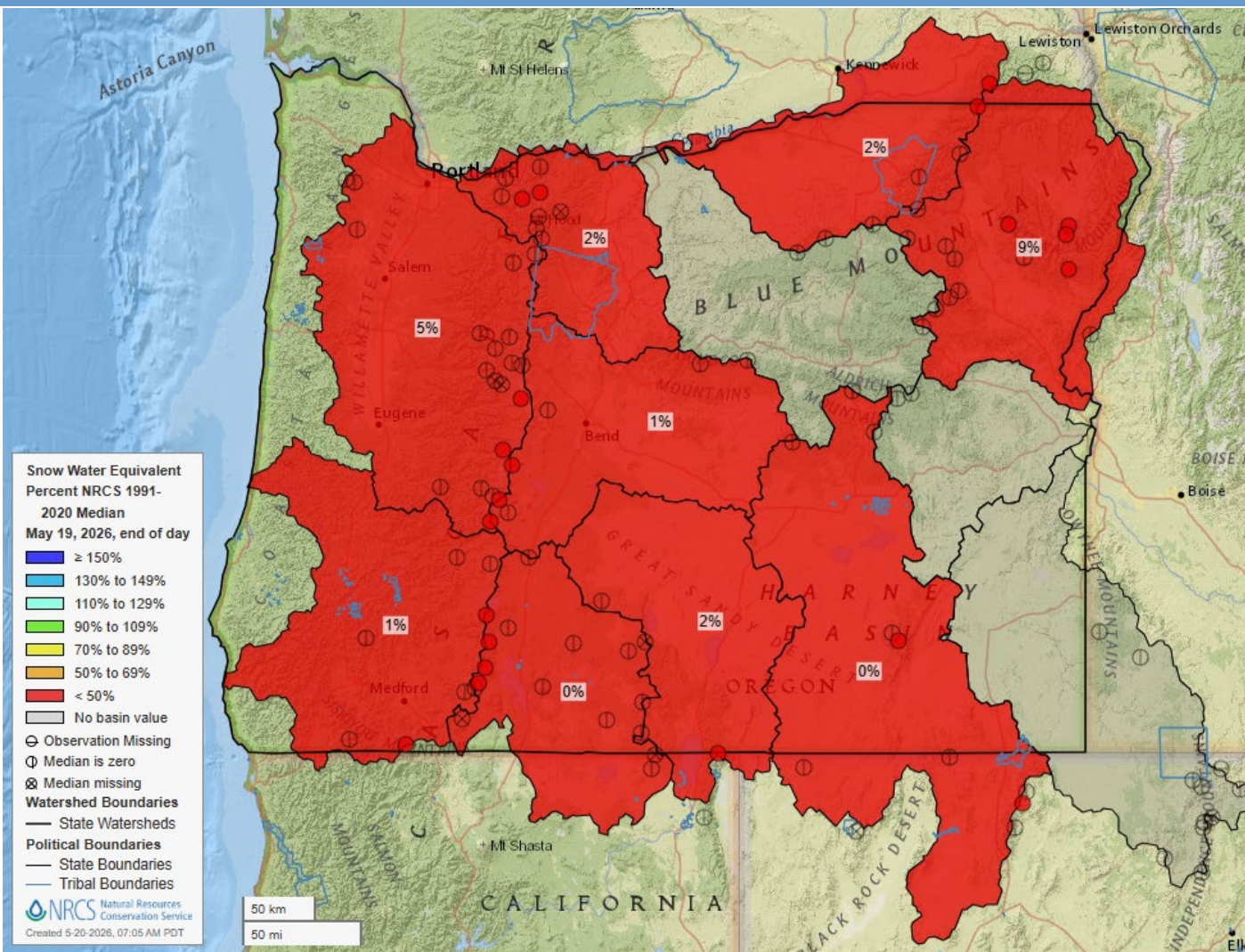
May 20, 2026

Matt Warbritton
Supervisory Hydrologist
USDA NRCS SSWSF
Portland Data Collection Office
matt.warbritton@usda.gov
503-307-2829



Snowpack

Snow Water Equivalent (SWE)



Seasonal Stats

Statewide

% of Median 4%

% of Median Peak 1%

*Tracking to tie 2015 for earliest meltout

Harney Basin

% of Median 0%

% of Median Peak 0%

*Tied 2015 with 2nd earliest meltout (1992 1st)

Malheur Basin

% of Median -

% of Median Peak -

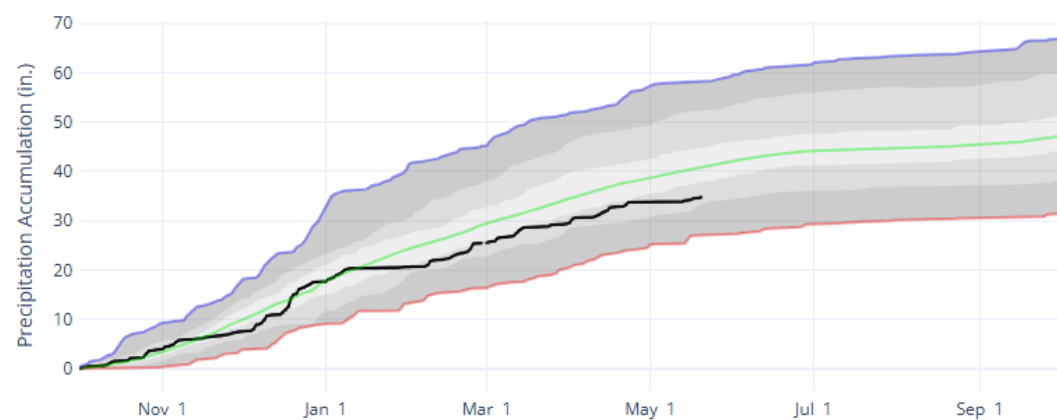
*Lowest peak and meltout on record



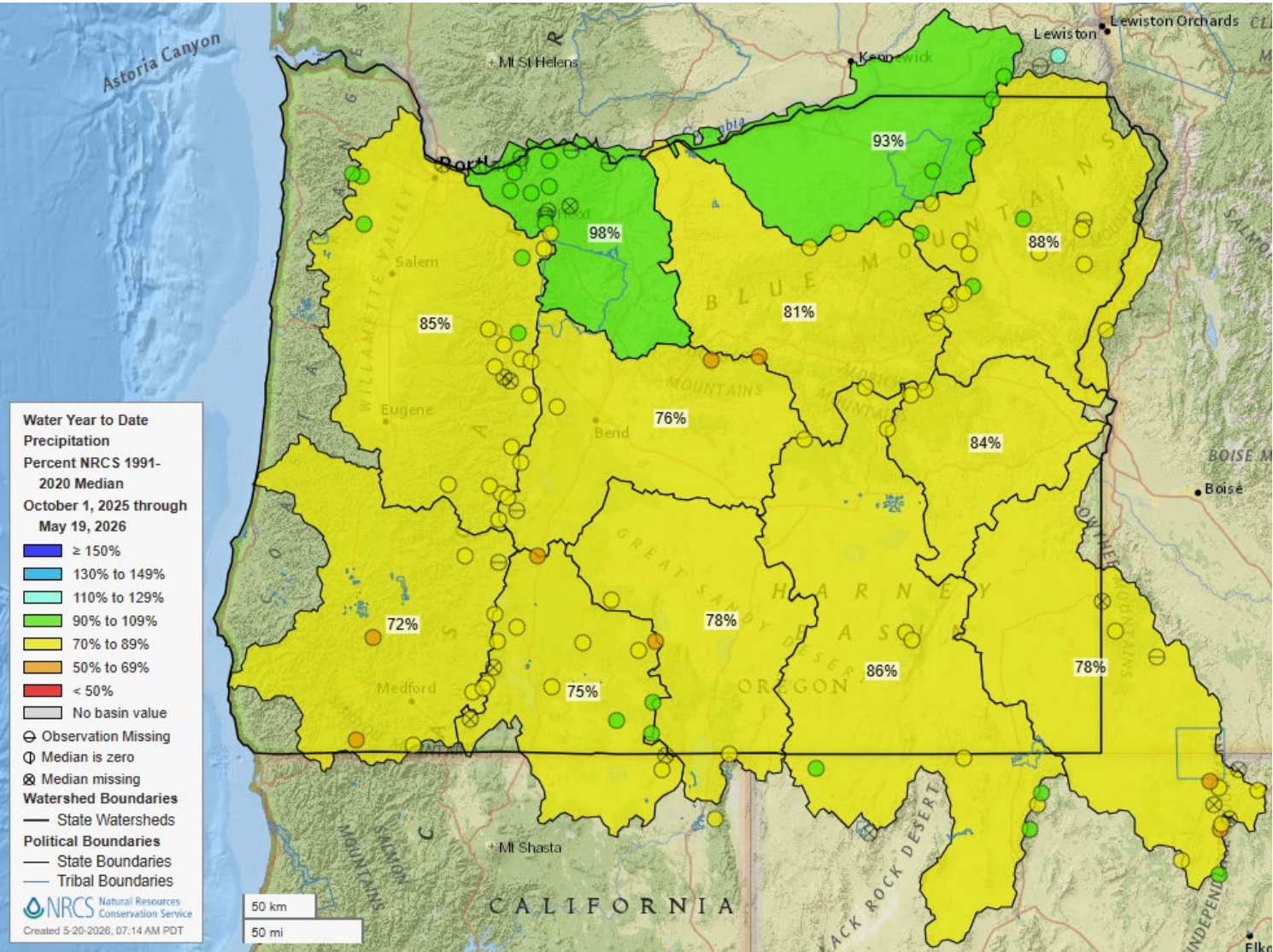
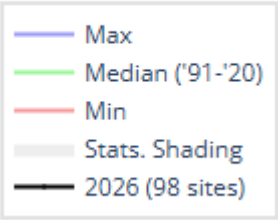
Precipitation

Statewide Water Year-to-Date Precipitation

PRECIPITATION ACCUMULATION IN STATE OF OREGON

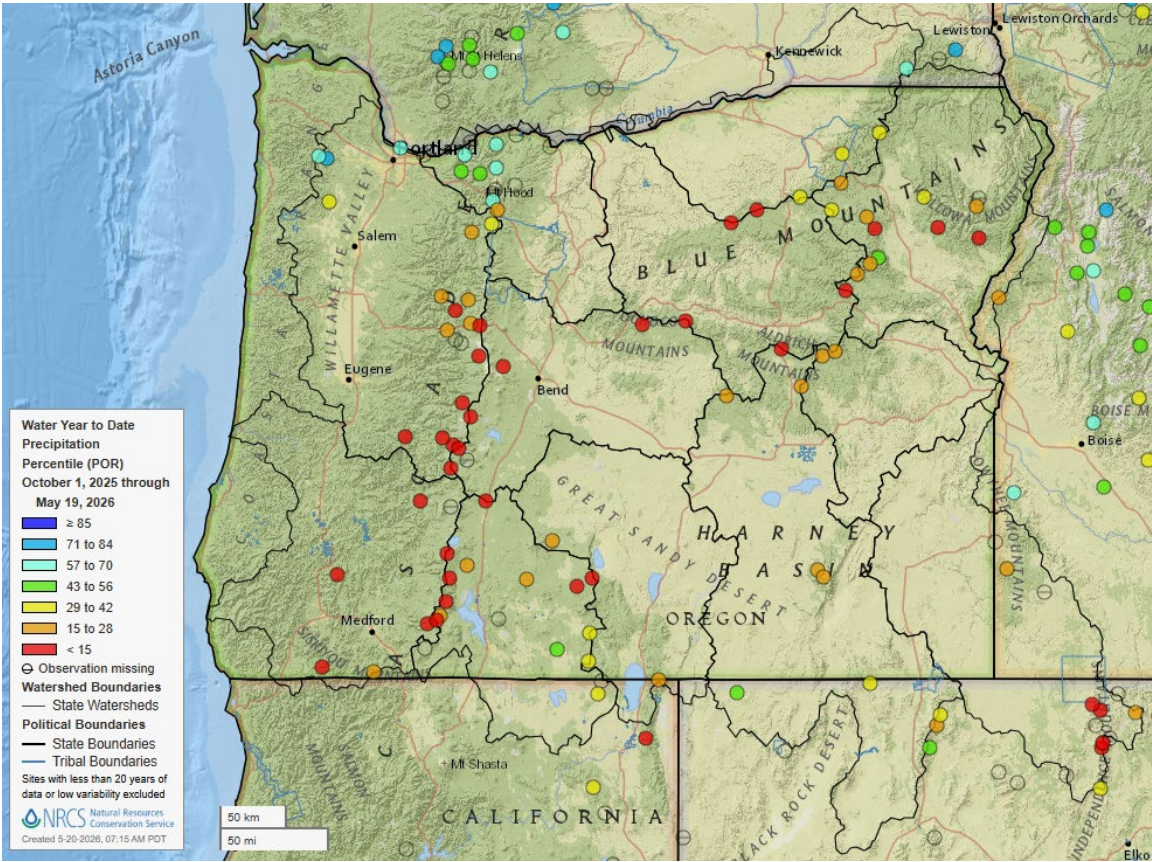
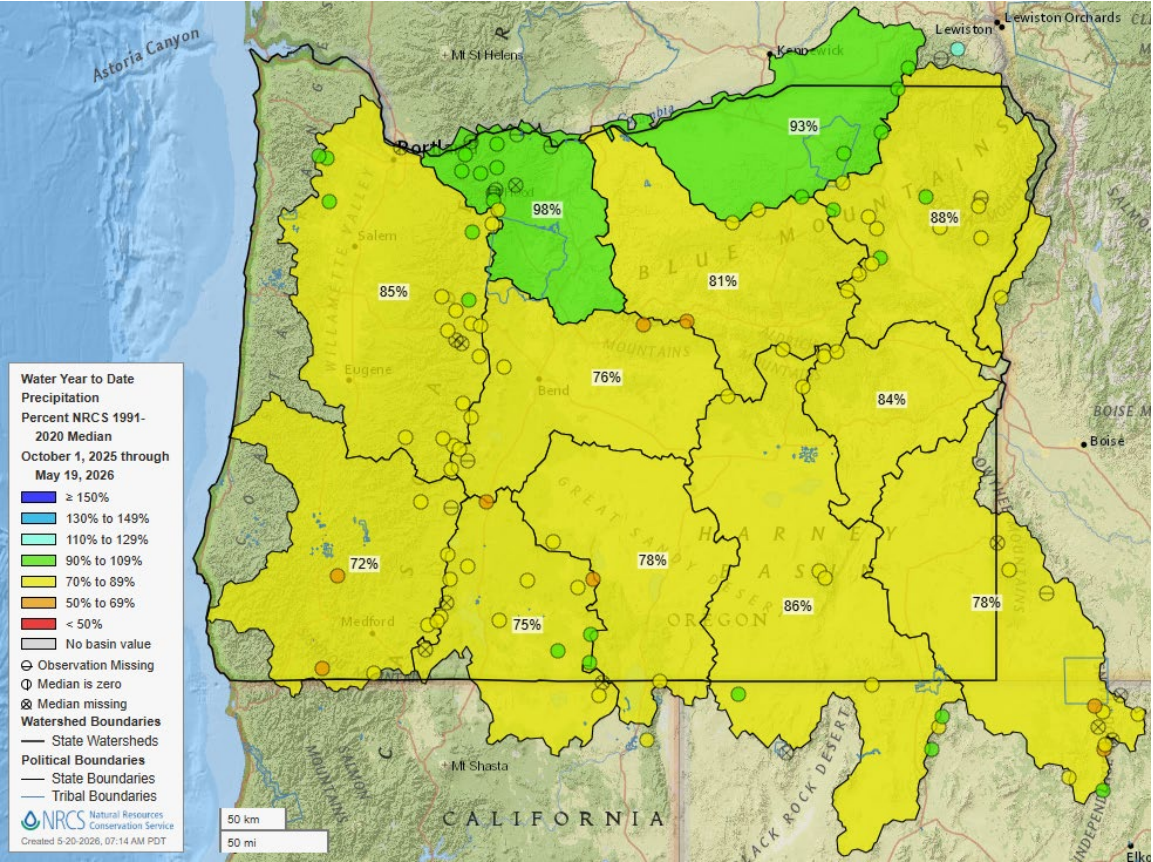


% of Median: 85%
Percentile: 18



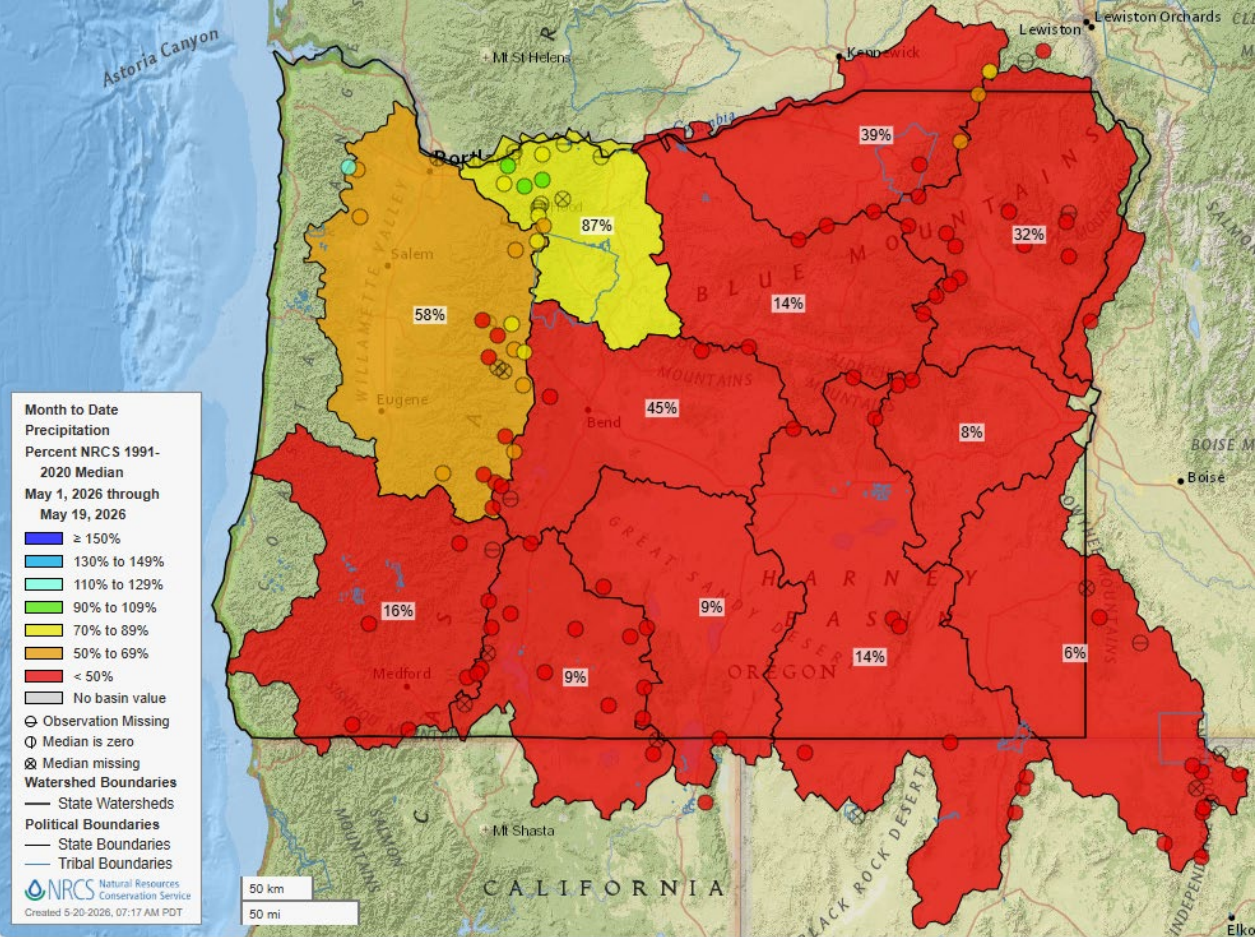
Statewide Water Year-to-Date Precipitation

% of Normal vs. Percentile (POR)

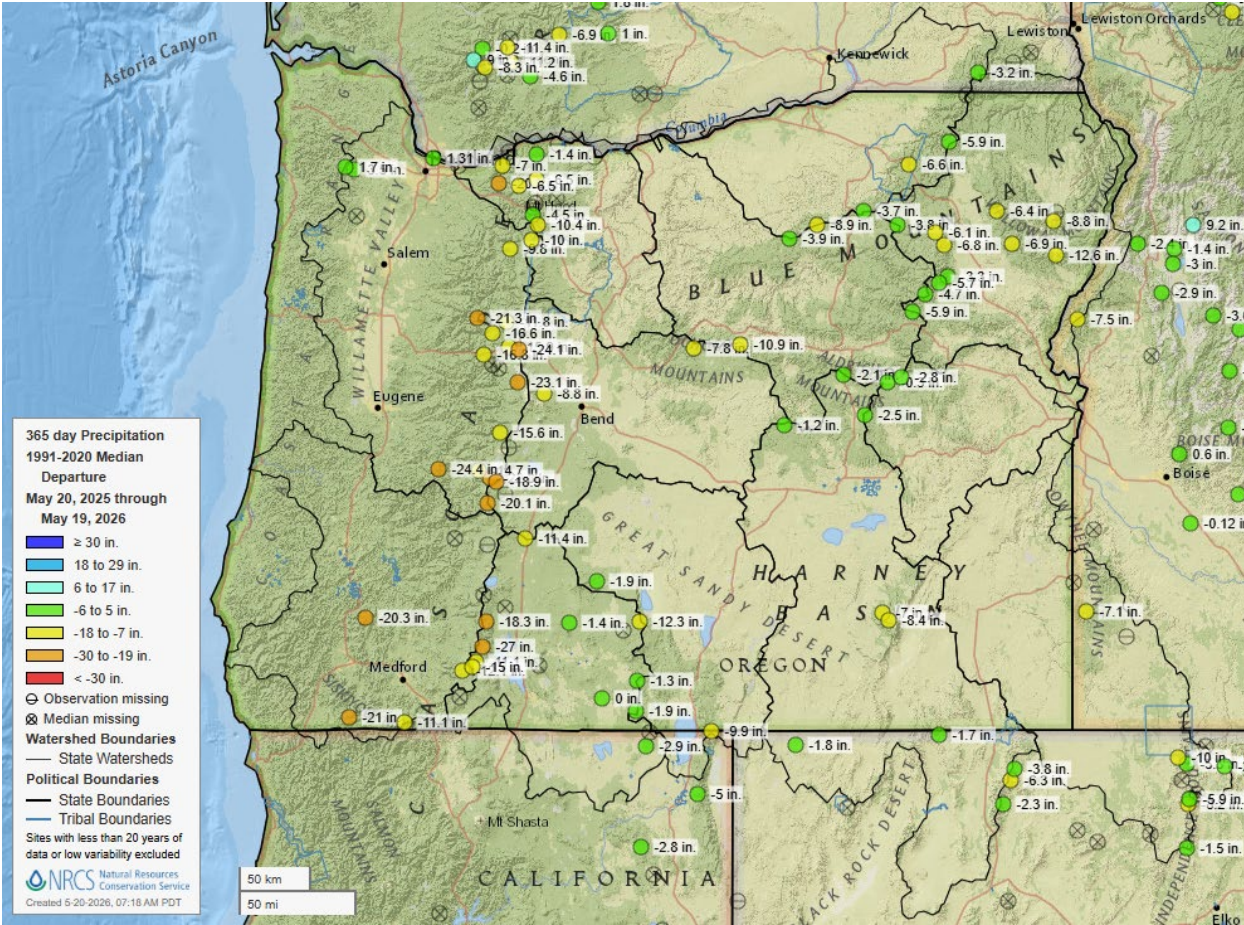


Monthly Precipitation

May (month-to-date)



Normal departure for 365-day period:
compounding moisture deficits

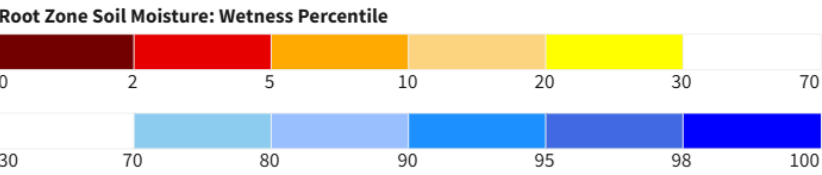
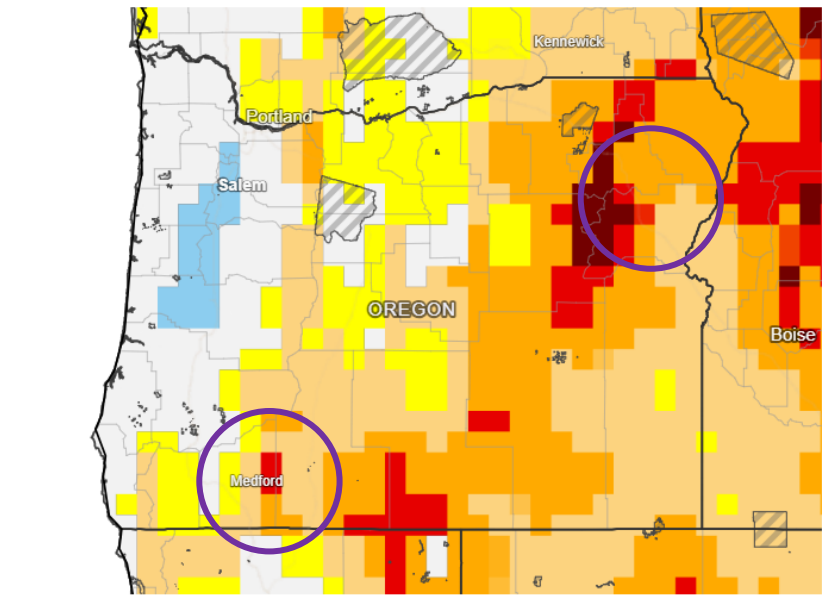




Soil Moisture

Root-Zone Soil Moisture

Root Zone Soil Moisture

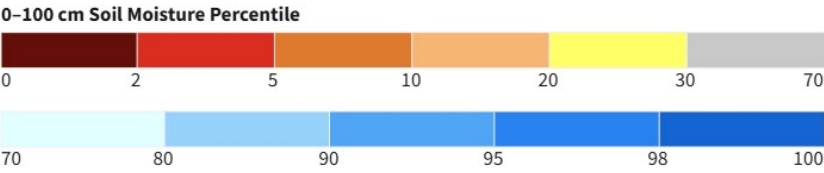
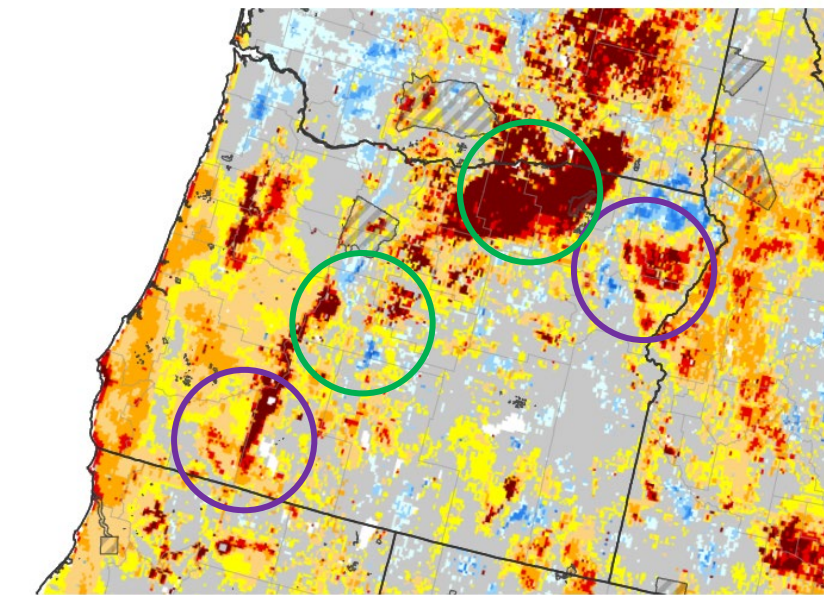


Tribal Nations
Tribal Nation Boundaries

Source(s): NASA, National Drought Mitigation Center
Data Valid: 05/16/26

GRACE
Drought.gov

0-100 cm Soil Moisture Percentile

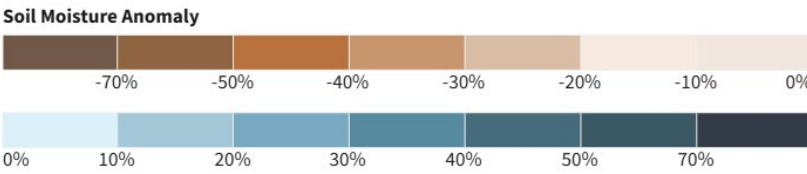
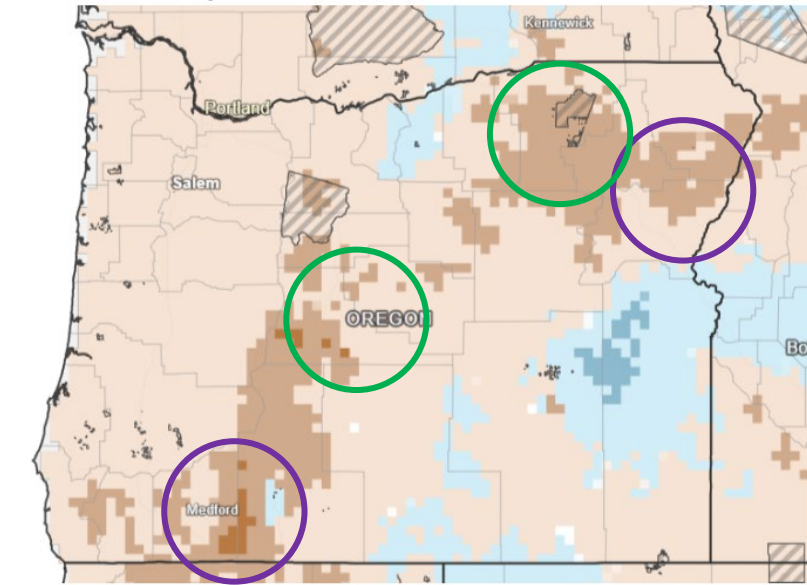


Tribal Nations
Tribal Nation Boundaries

Source(s): NASA
Data Valid: 05/19/26

SPoRT-LiS
Drought.gov

Crop-CASMA Subsoil (1 Meter) Soil Moisture Anomaly



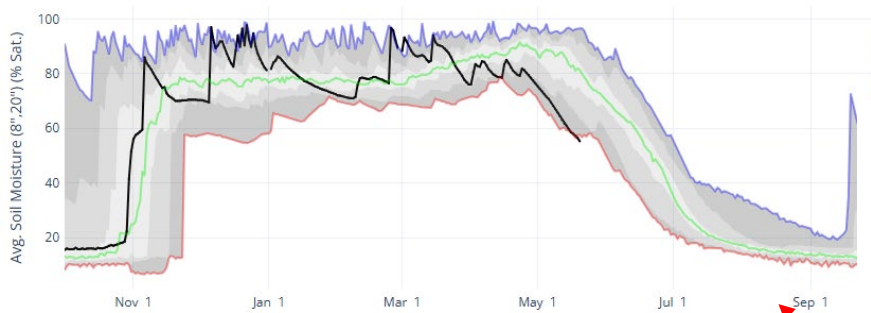
Tribal Nations
Tribal Nation Boundaries

Source(s): NASA, USDA, George Mason University
Data Valid: 05/15/26

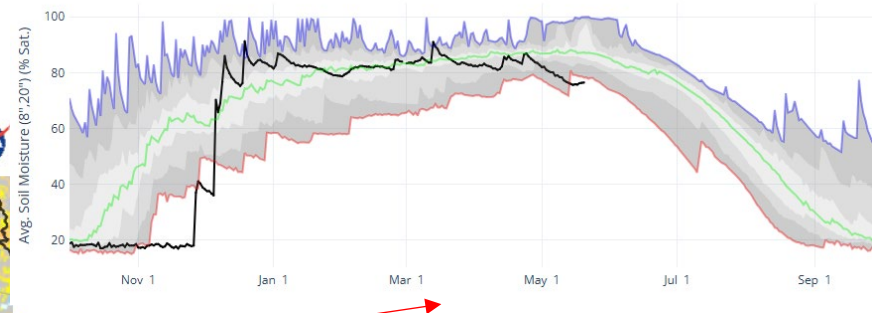
Drought.gov

Root-Zone Soil Moisture

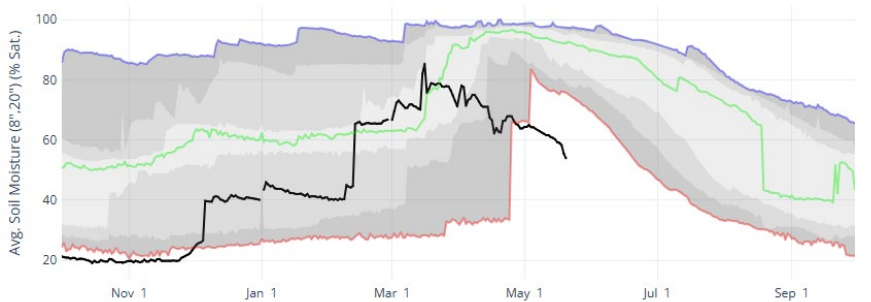
BILLIE CREEK DIVIDE, OR (344) AVG. SOIL MOISTURE (8",20")



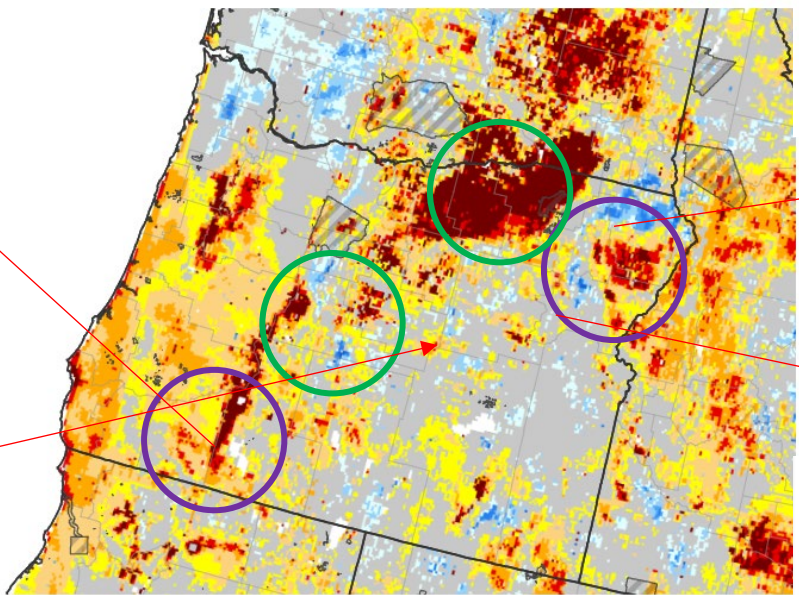
HIGH RIDGE, OR (523) AVG. SOIL MOISTURE (8",20")



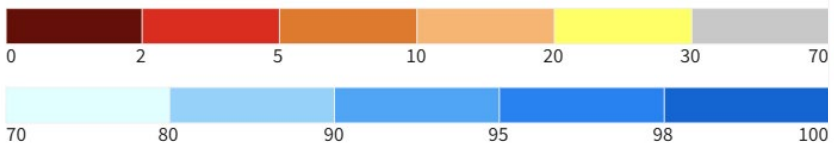
SNOW MOUNTAIN, OR (767) AVG. SOIL MOISTURE (8",20")



0-100 cm Soil Moisture Percentile



0-100 cm Soil Moisture Percentile



Tribal Nations
Tribal Nation Boundaries

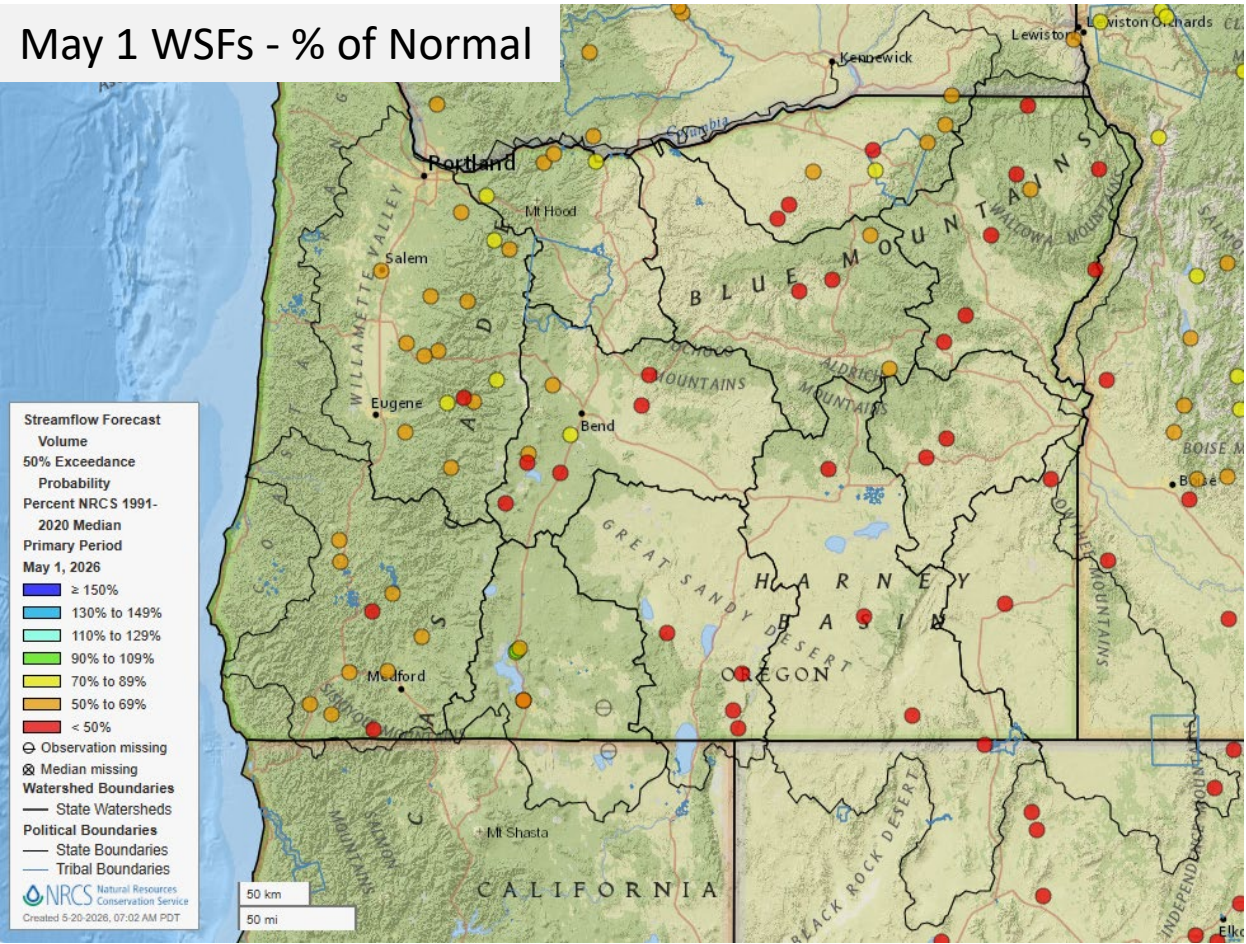
Source(s): NASA
Data Valid: 05/19/26



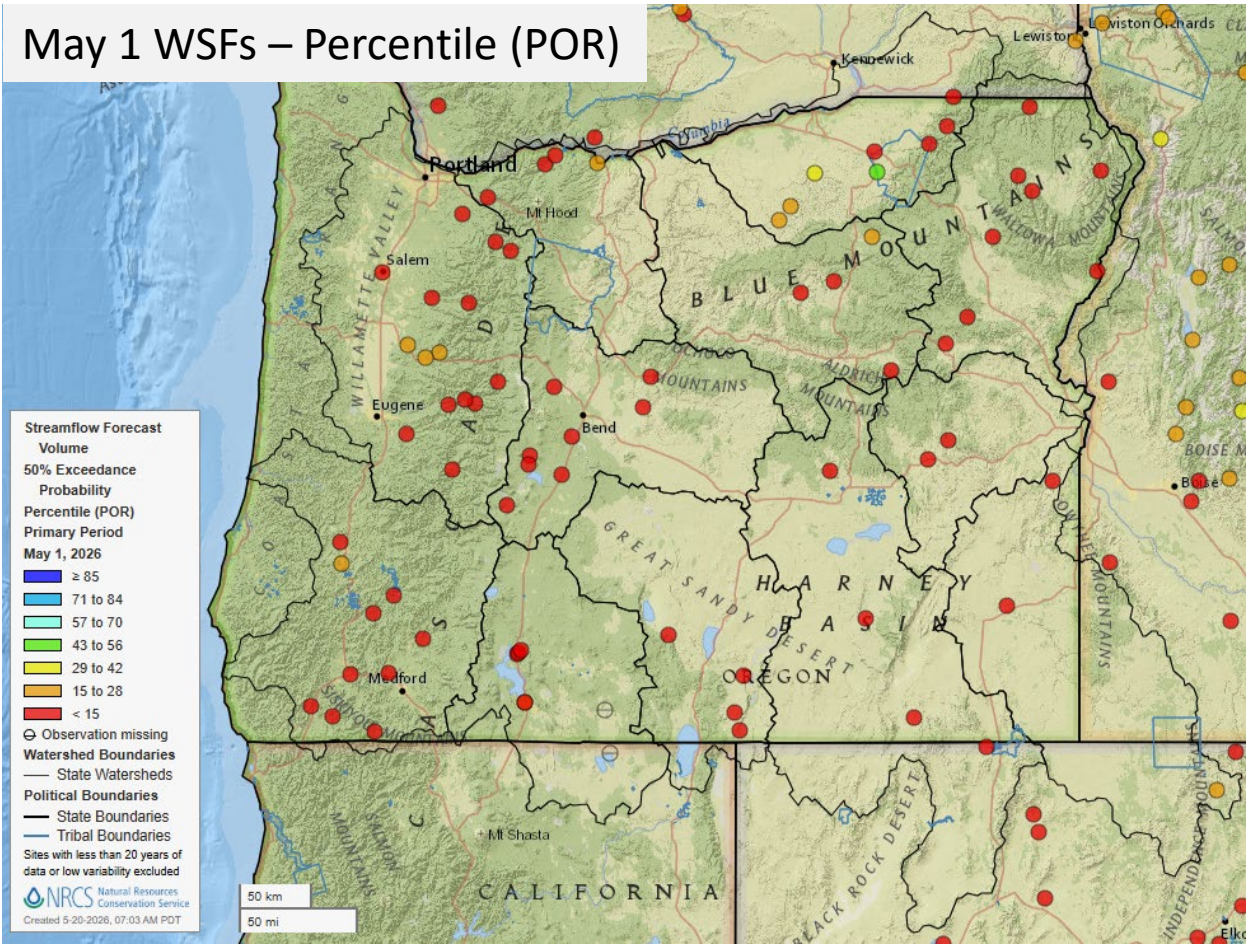
Water Supply Outlook

Spring & Summer Water Supply Outlook

May 1 WSFs - % of Normal



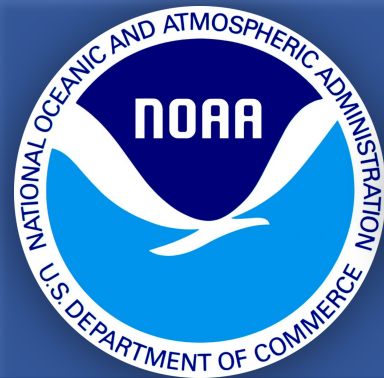
May 1 WSFs – Percentile (POR)



Thank you!

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Portland Data Collection Office
matt.warbritton@usda.gov
503-307-2829

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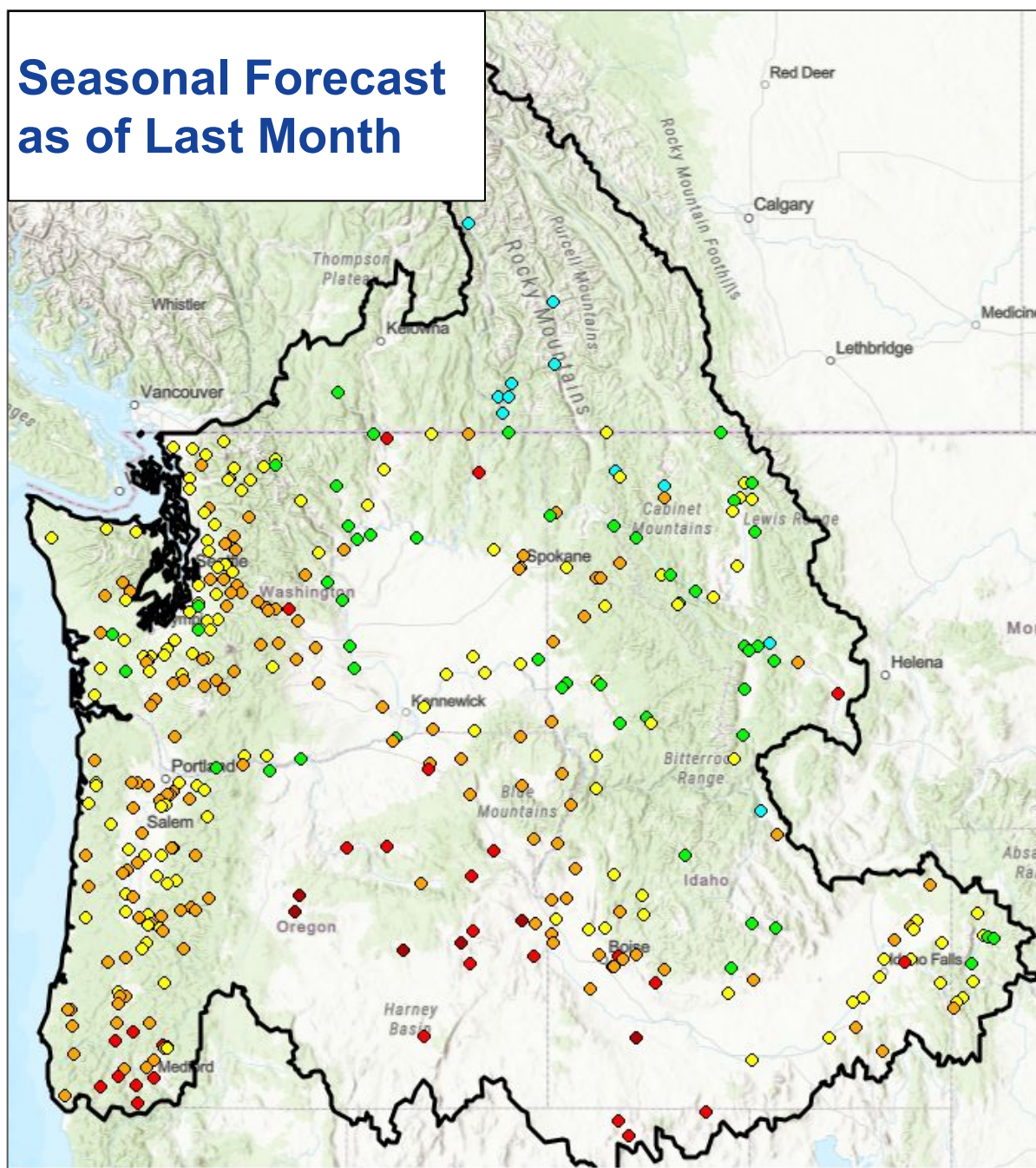
NWS

May 2026 Update for River Forecasts

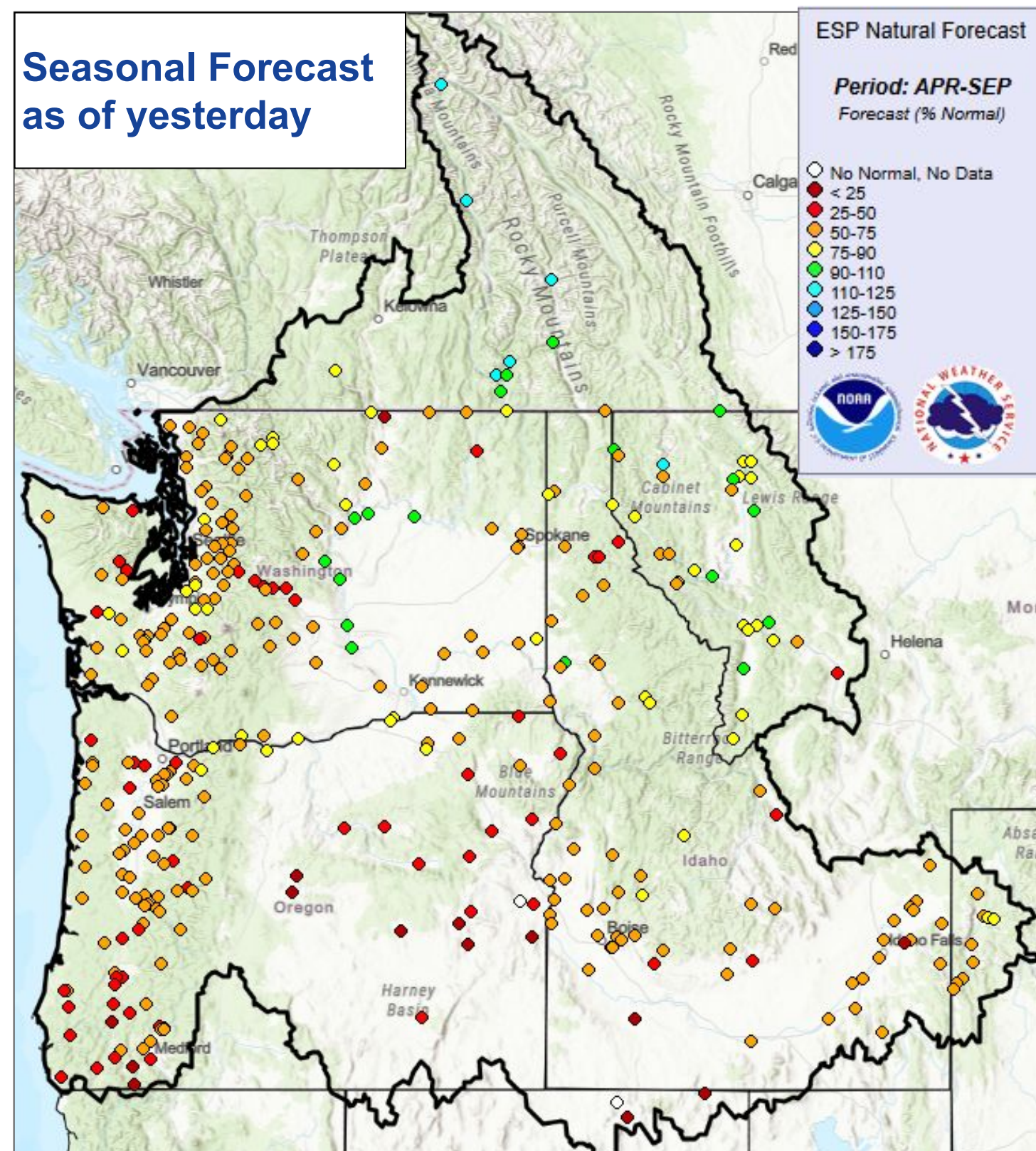
Email: NWRFC.watersupply@noaa.gov

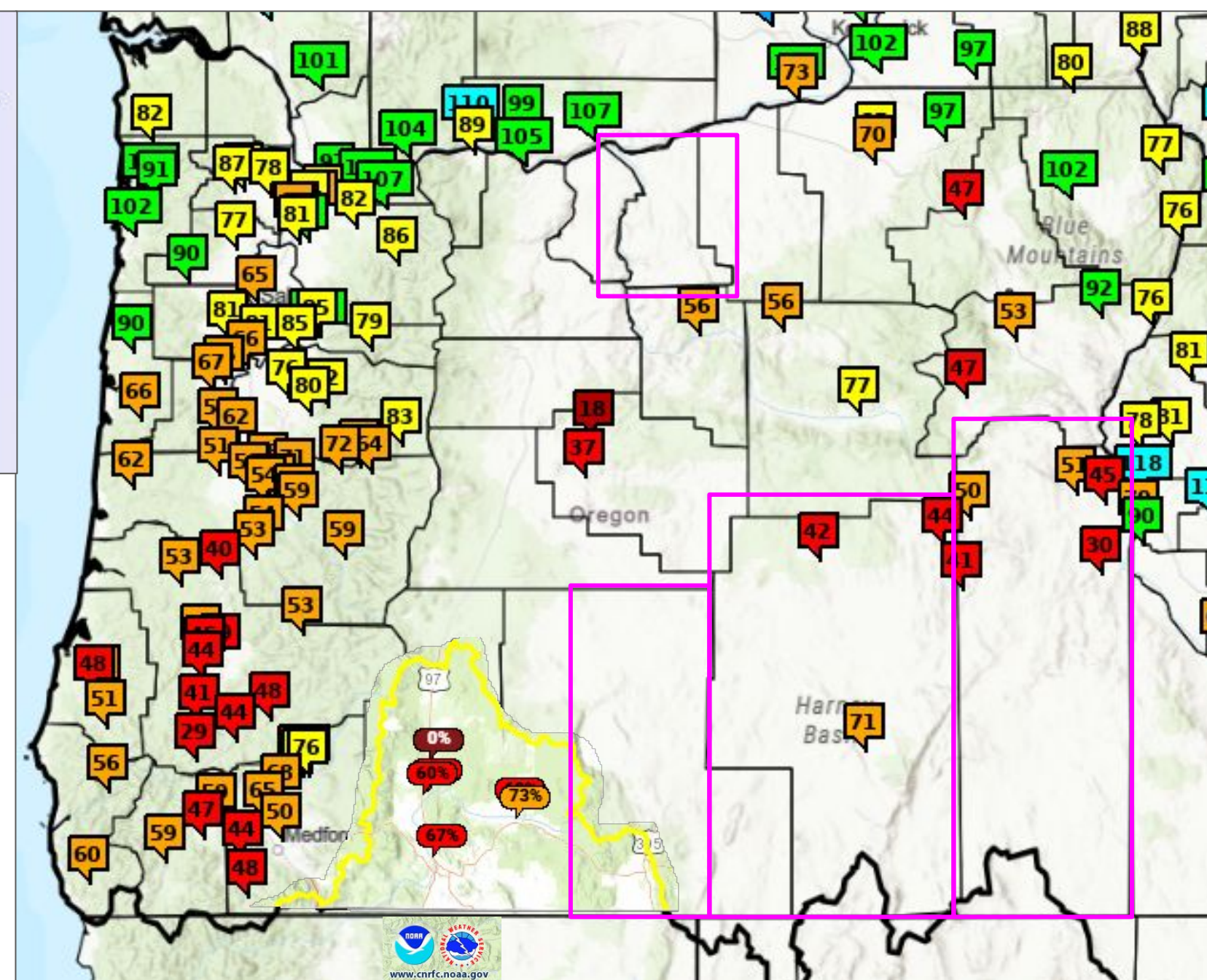
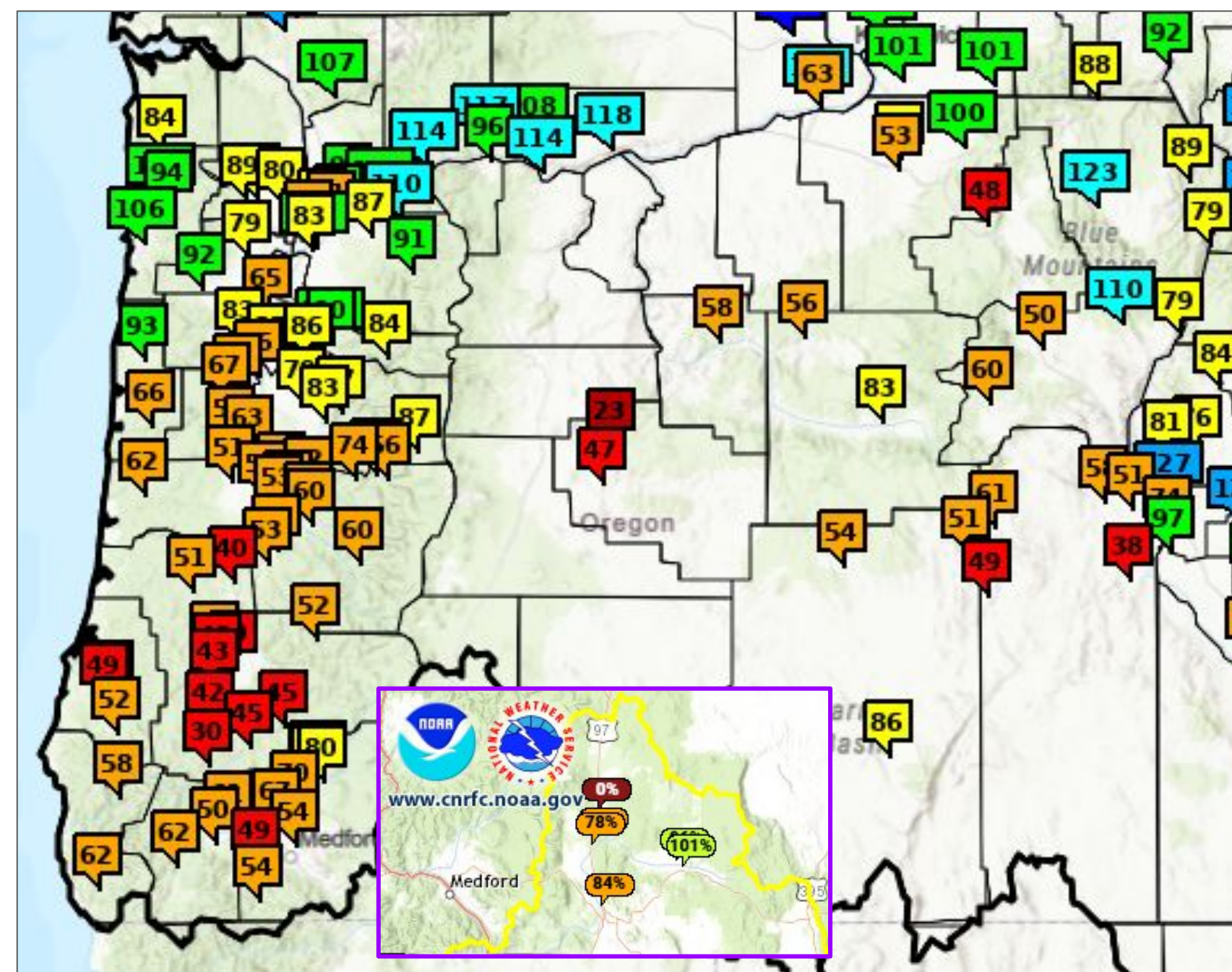
Web : nwrfc.noaa.gov

Seasonal Forecast
as of Last Month



Seasonal Forecast
as of yesterday

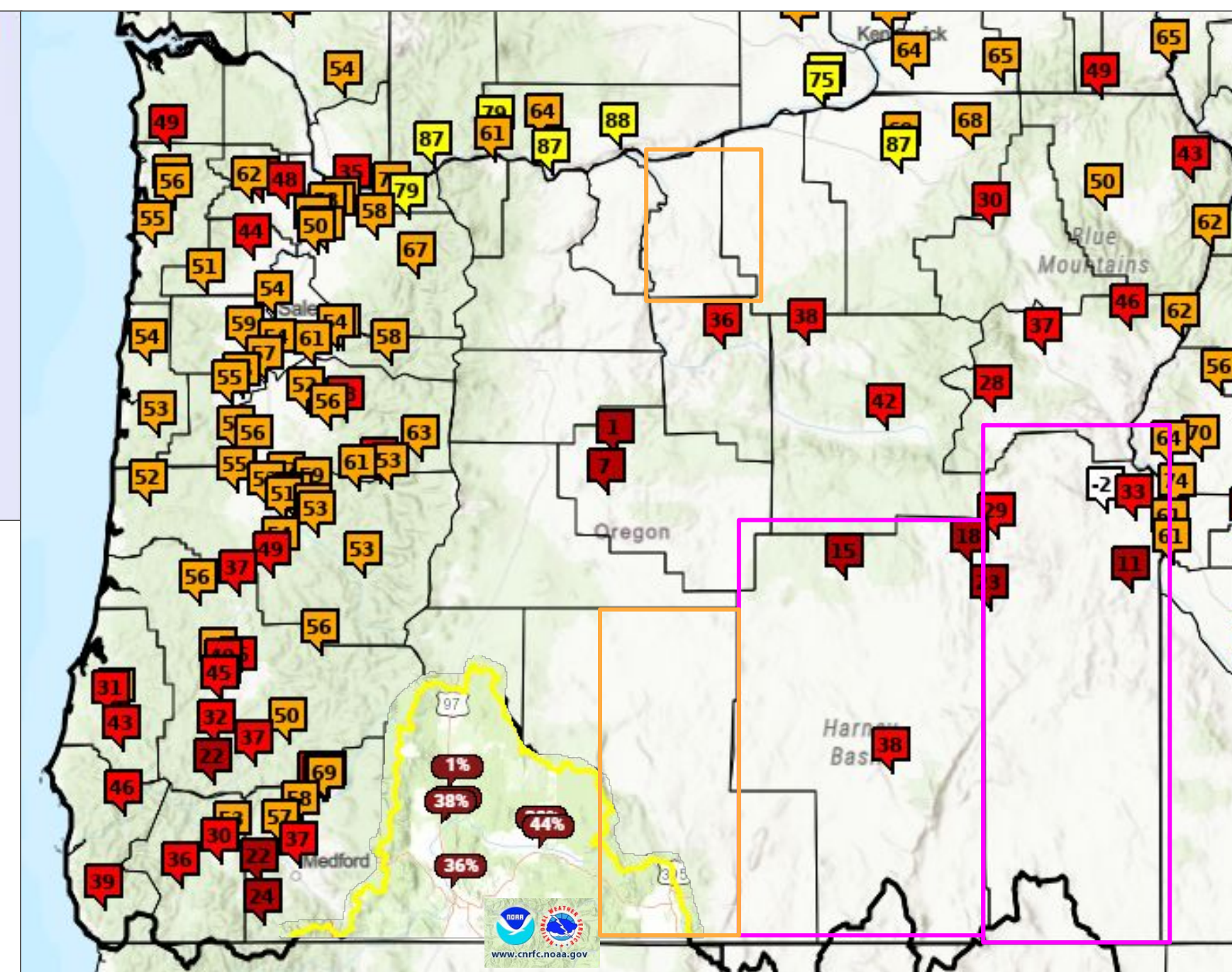
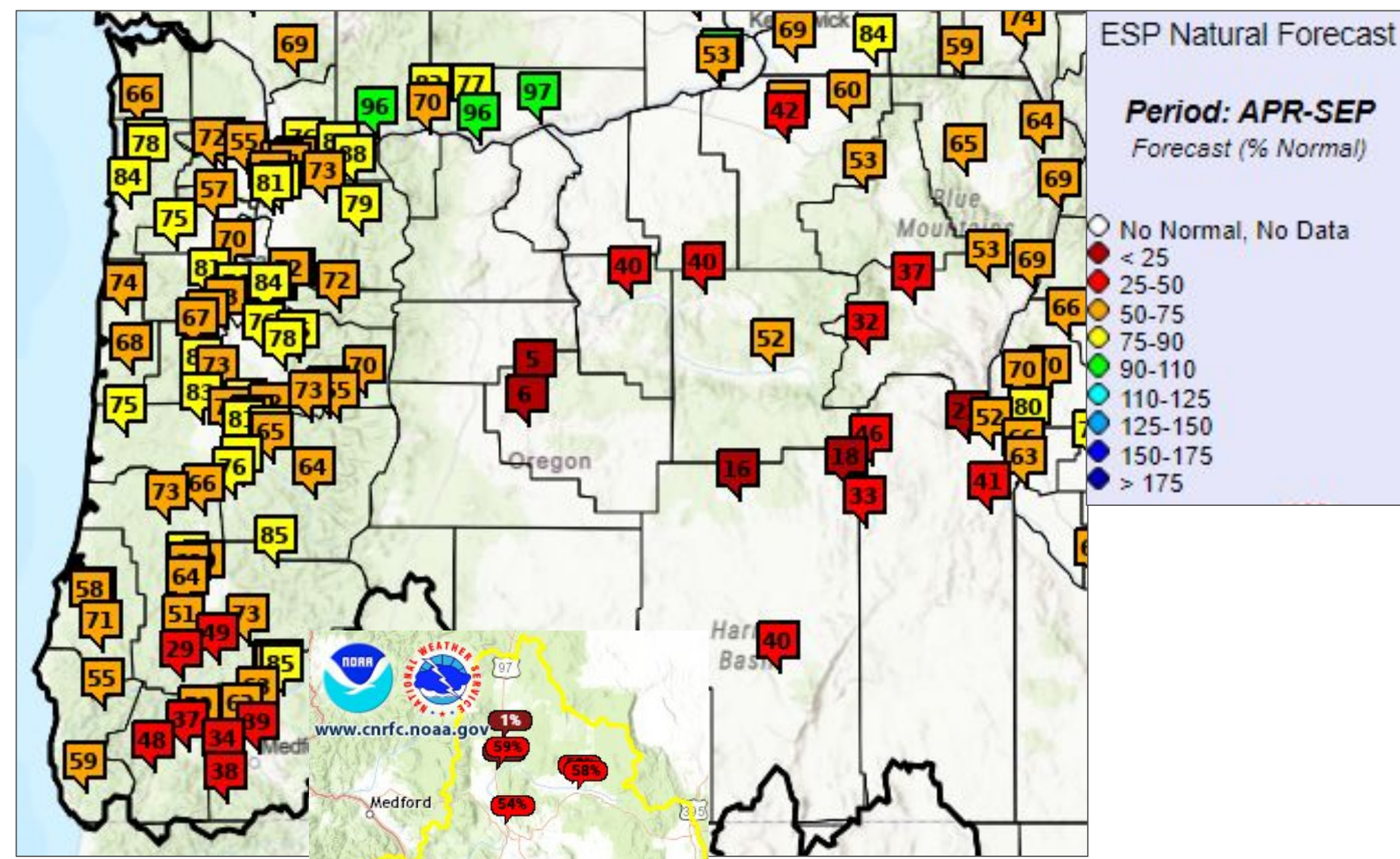




Last Month's Observed Runoff

Recent Observed Runoff

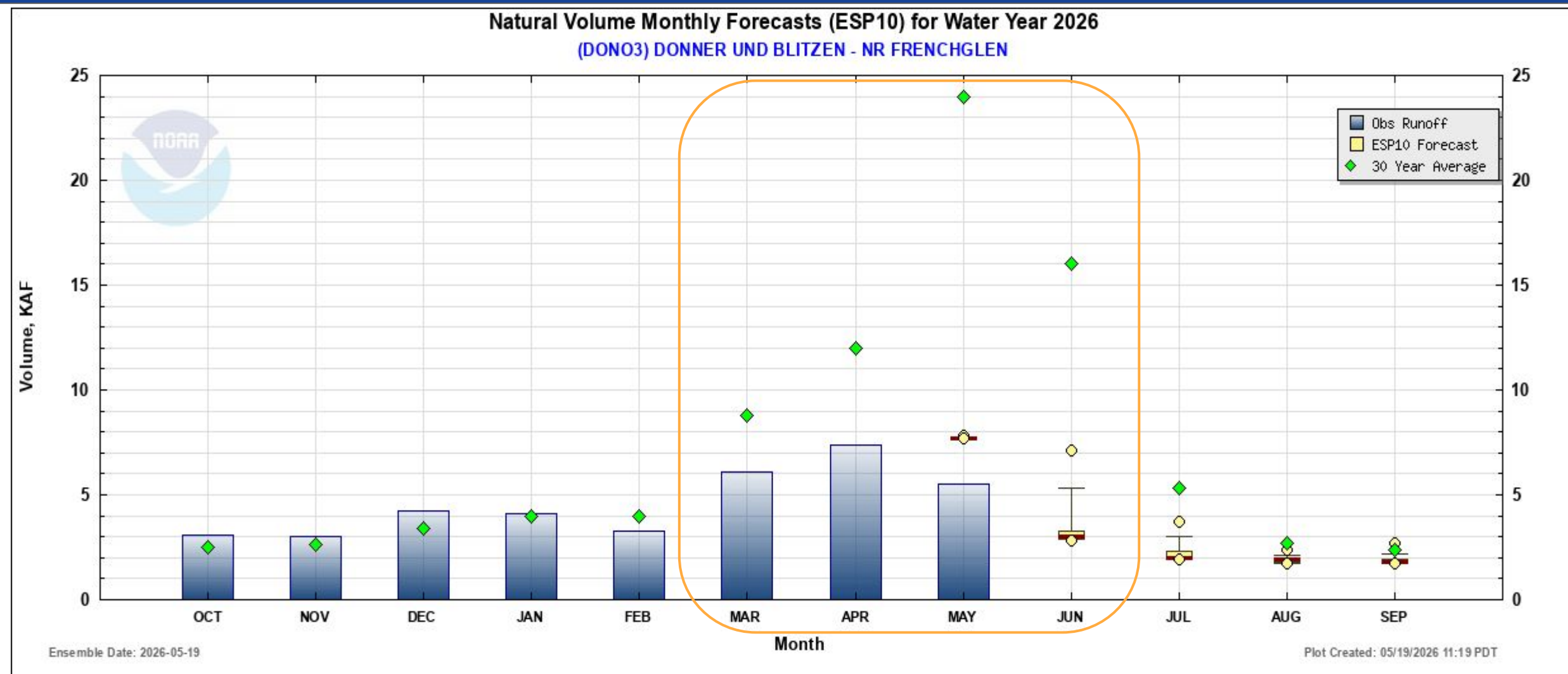
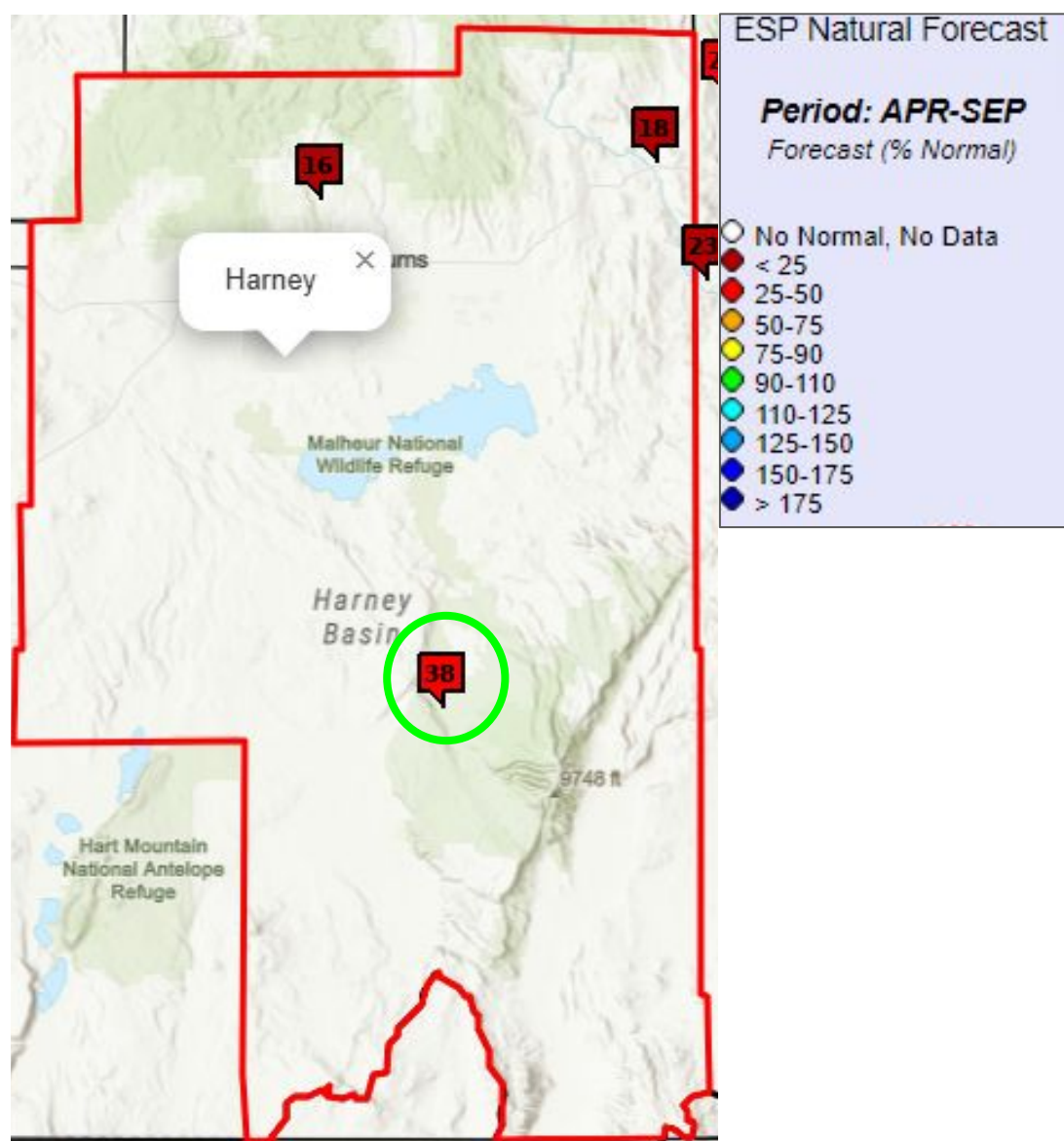
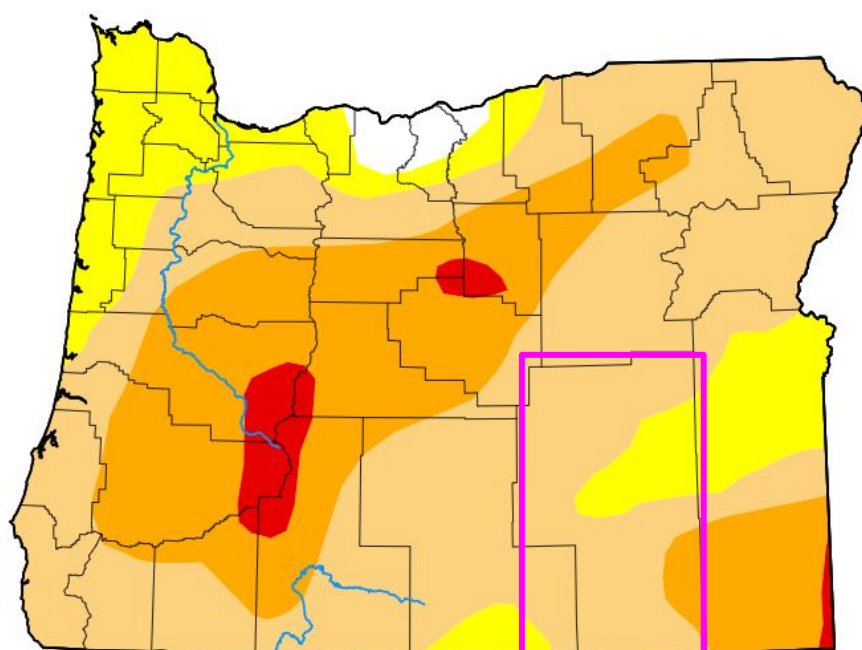
Seasonal Apr - Sep Forecasts



Last Month's Seasonal Forecast

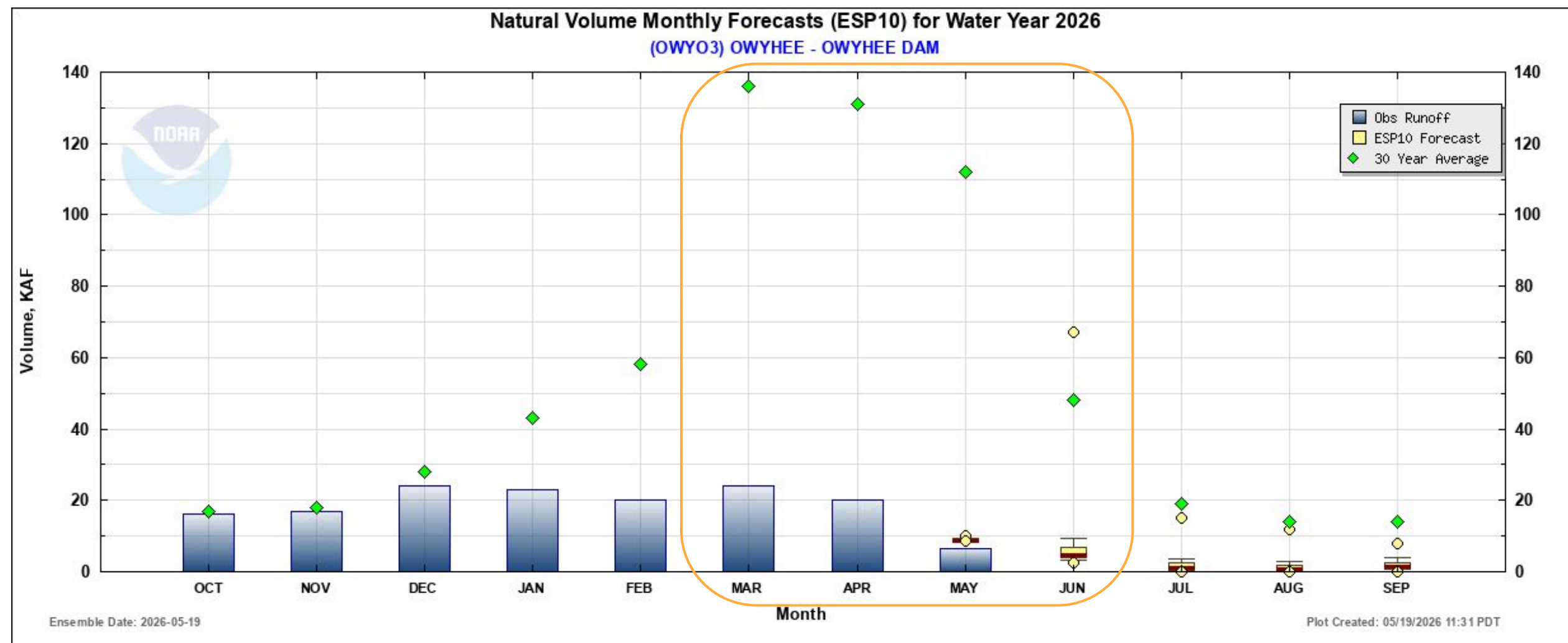
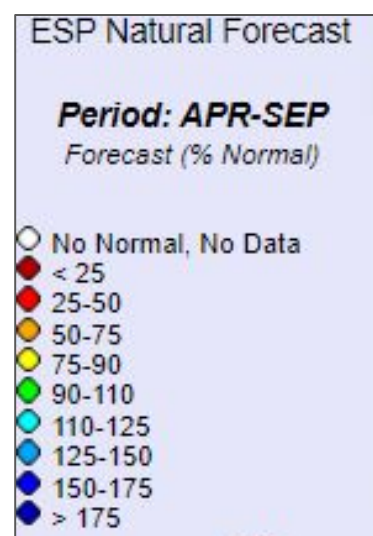
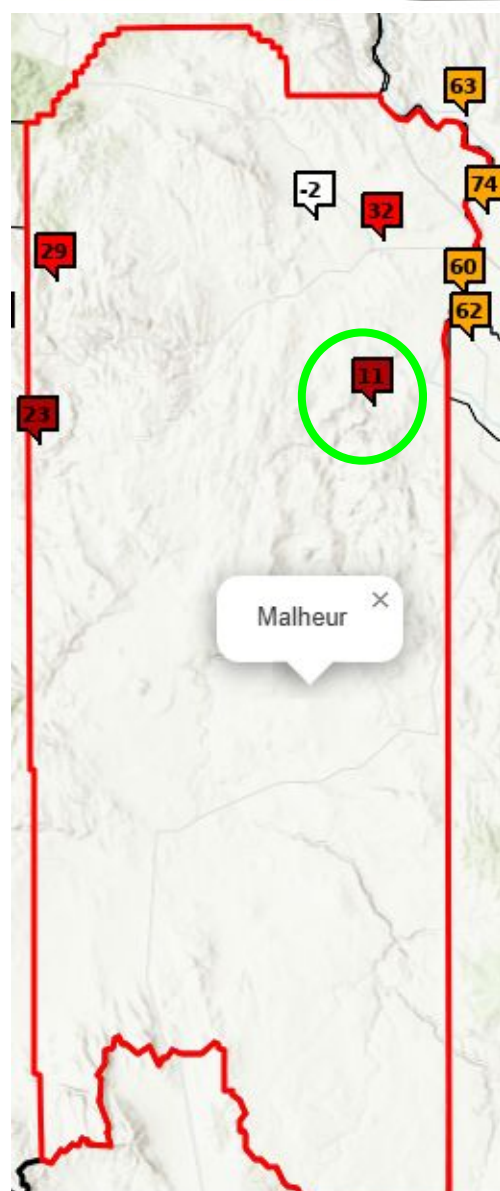
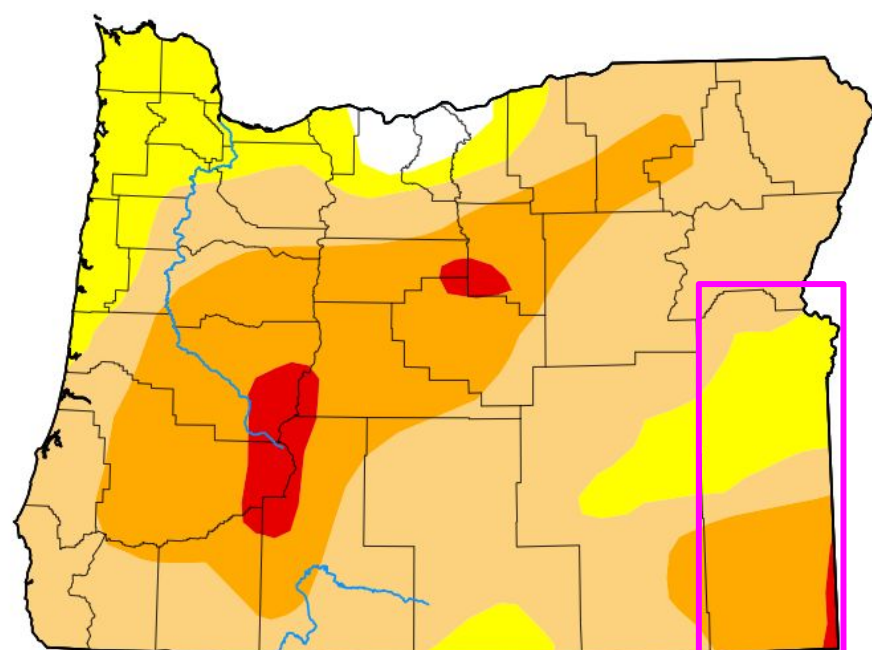
Recent Seasonal Forecast

Harney County Forecasts



Location ID	Period	Last Month	Recent
Donner und Blitzen near Frenchglen (DONO3)	Apr - Sep	39%	38%
	Water Year	55%	54%

Malheur County Forecasts

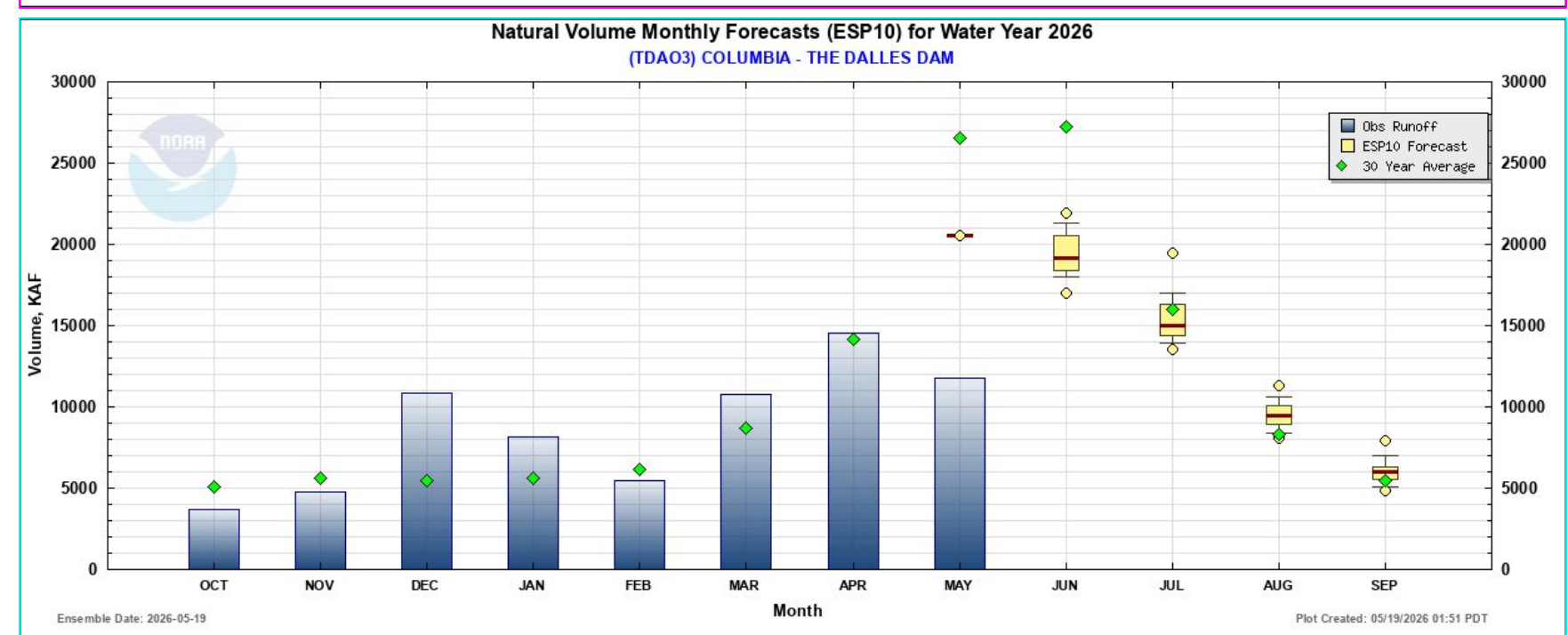
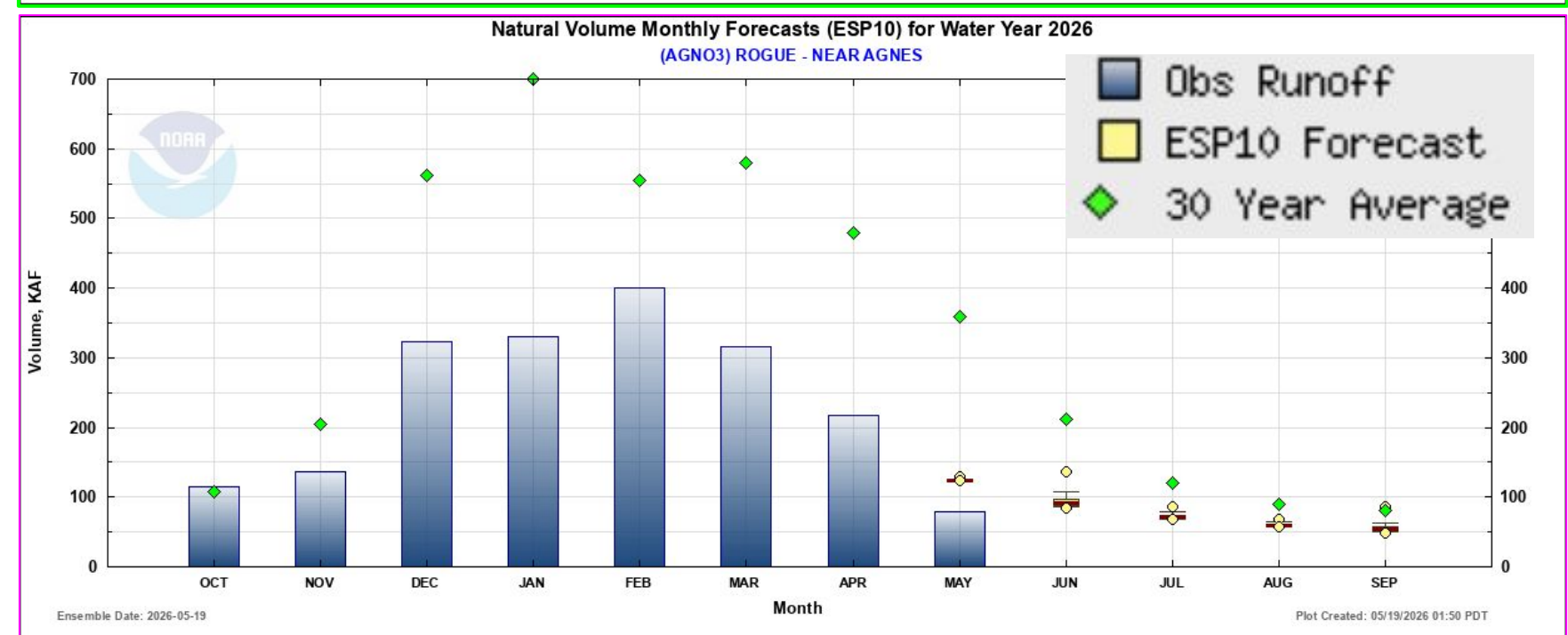
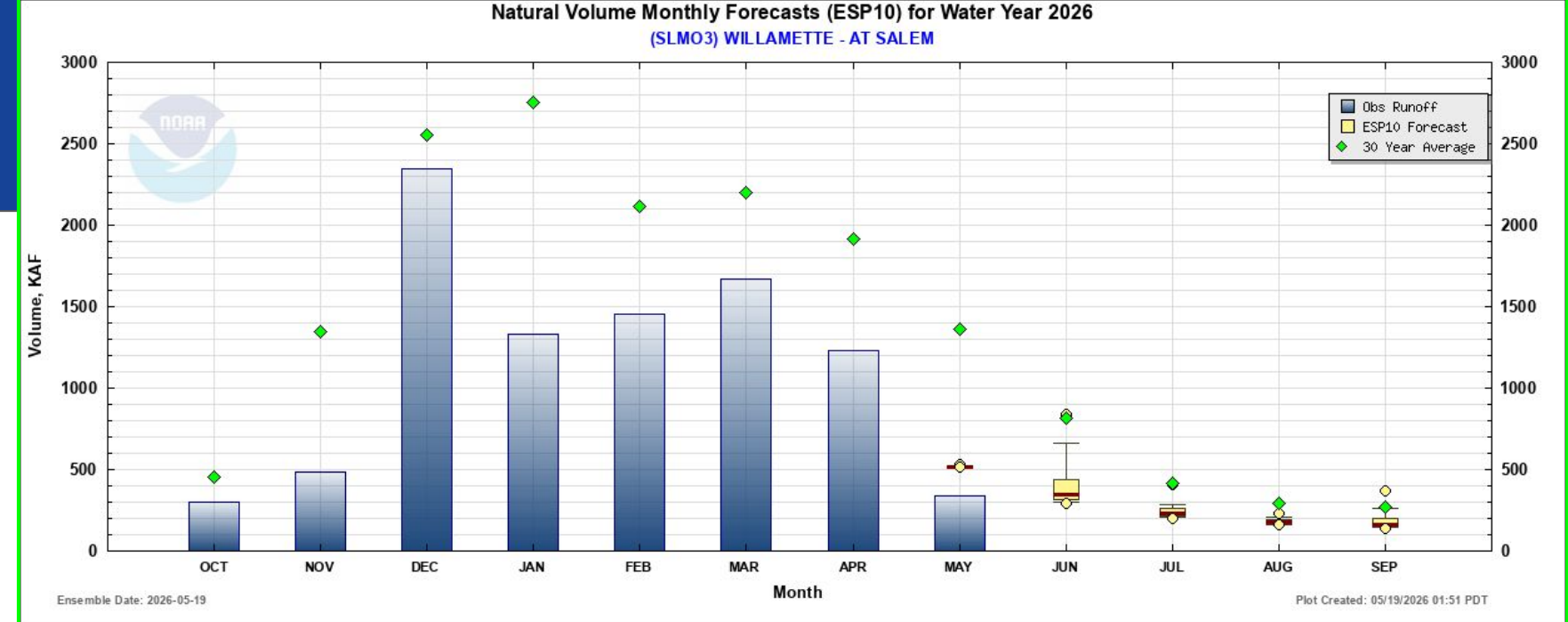
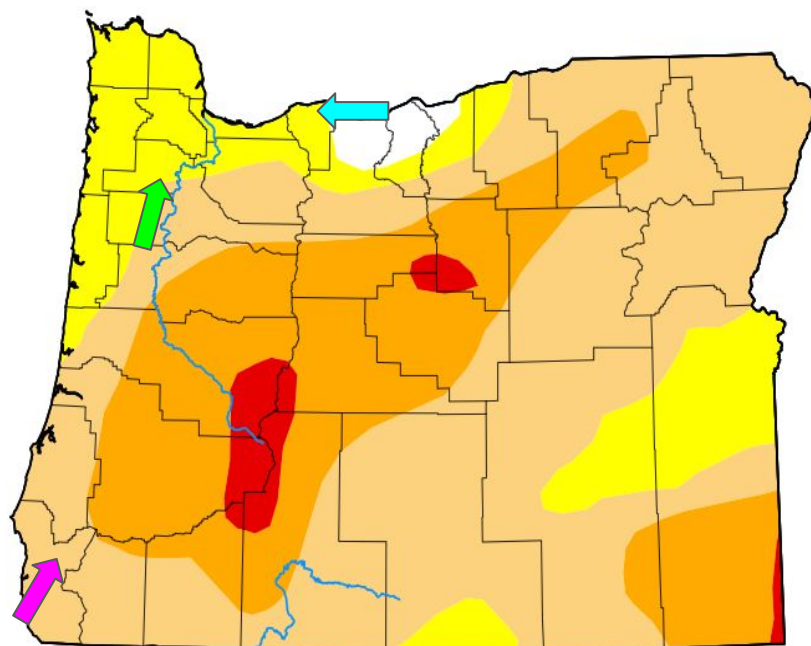


Location ID	Period	Last Month	Recent
Owyhee - Owyhee Dam	Apr - Sep	22%	11%
	Water Year	31%	25%



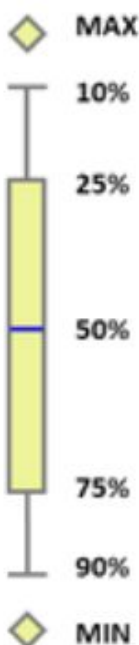
Other Forecasts

Location ID	Period	Last Month	Recent
Willamette at Salem (SLMO3)	Apr - Sep	70	53
	Water Year	67	62
Rogue near Agness (AGNO3)	Apr - Sep	51	46
	Water Year	57	55
Columbia R at the Dalles (TDAO3)	Apr - Sep	96	87
	Water Year	103	96



ESP10

Exceedance Probability and Ensemble MIN/MAX



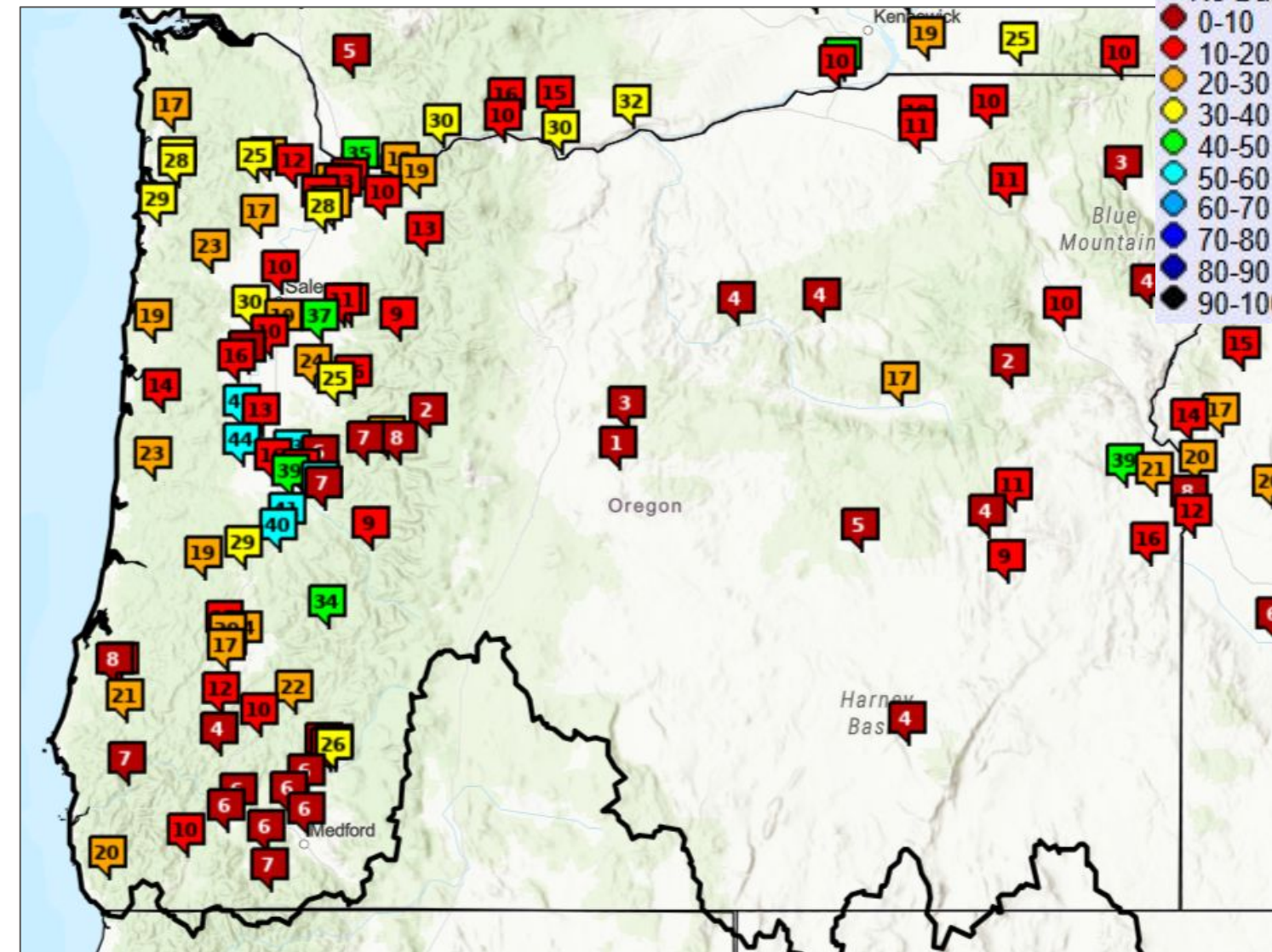
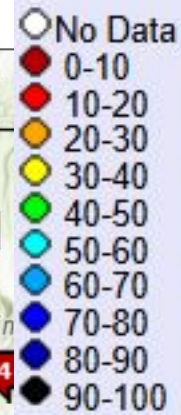
Seasonal Forecast Rankings

ESP Natural Forecast

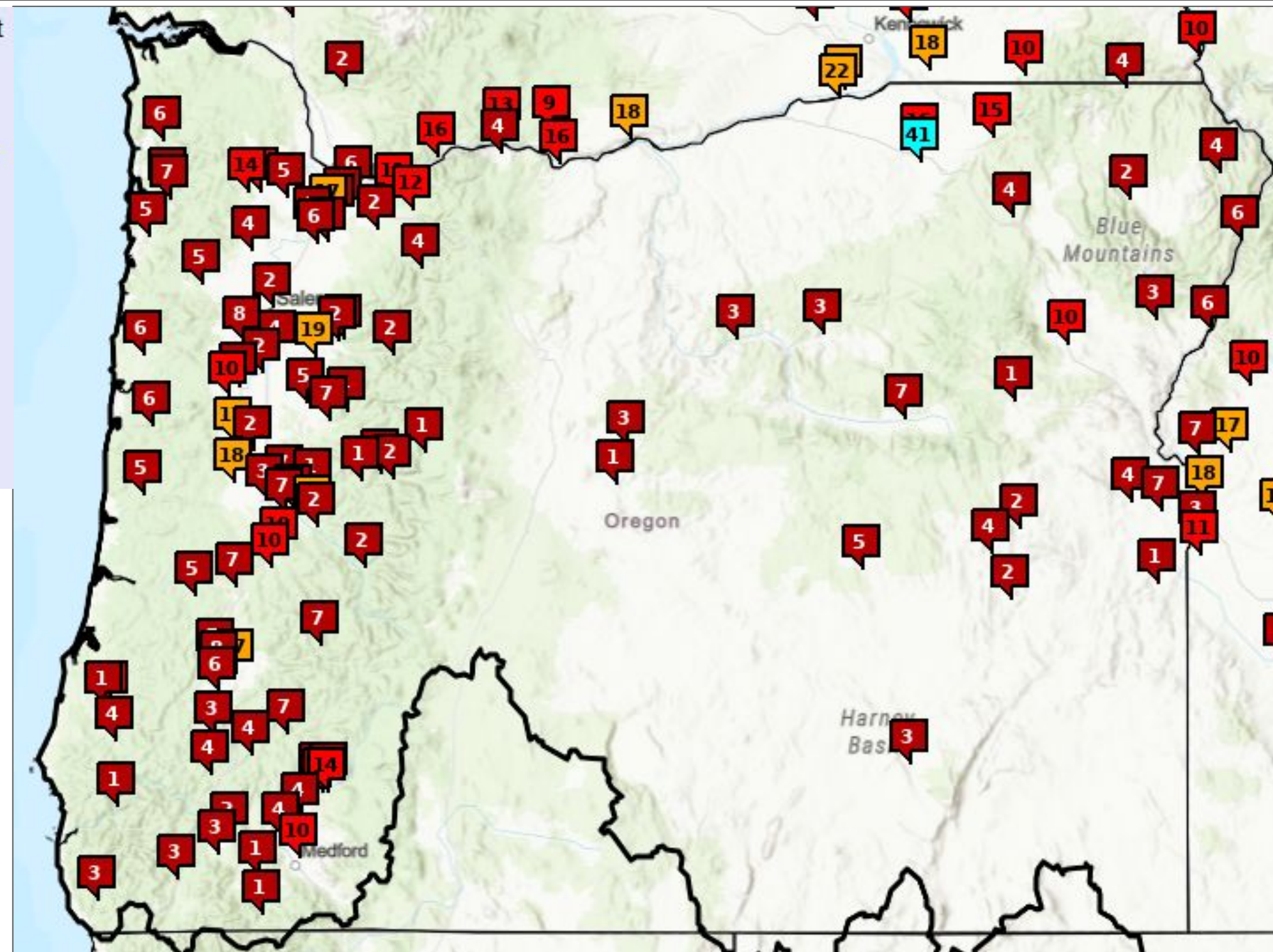
Period: APR-SEP

Rank (Descending)

Marker Color Shows
Percentile (%)



Last Month's Rankings



Current Rankings



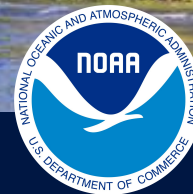
nwrhc.watersupply@noaa.gov



(503) 326-7291



nwrhc.noaa.gov



Oregon Climate Summary and Outlook

May 20, 2026

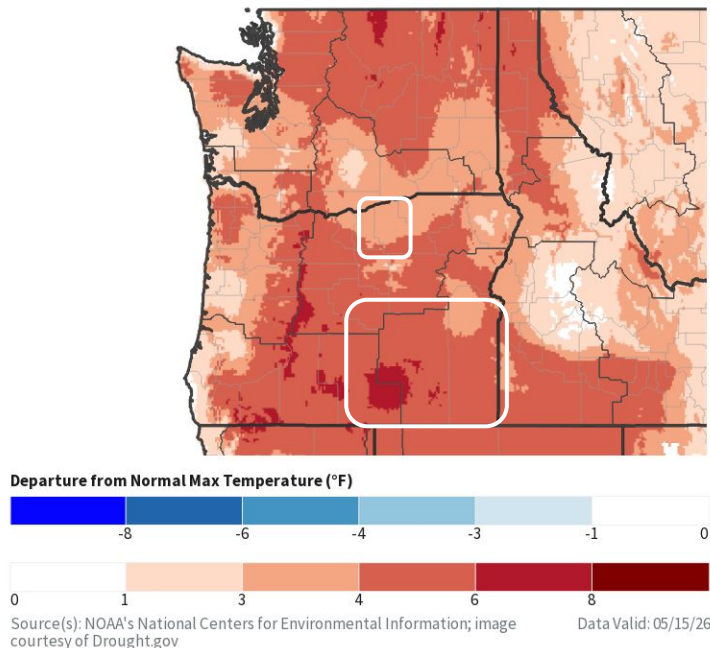
Leah Pope, Senior Service Hydrologist

leah.pope@noaa.gov

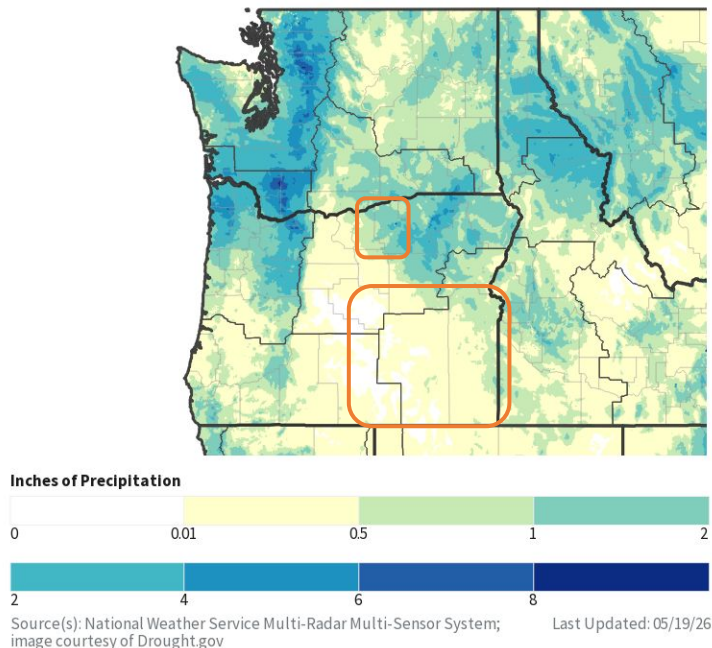
U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service Portland, OR

Last 30 days Temps/Precipitation from Normal

30-Day Temperature Anomaly



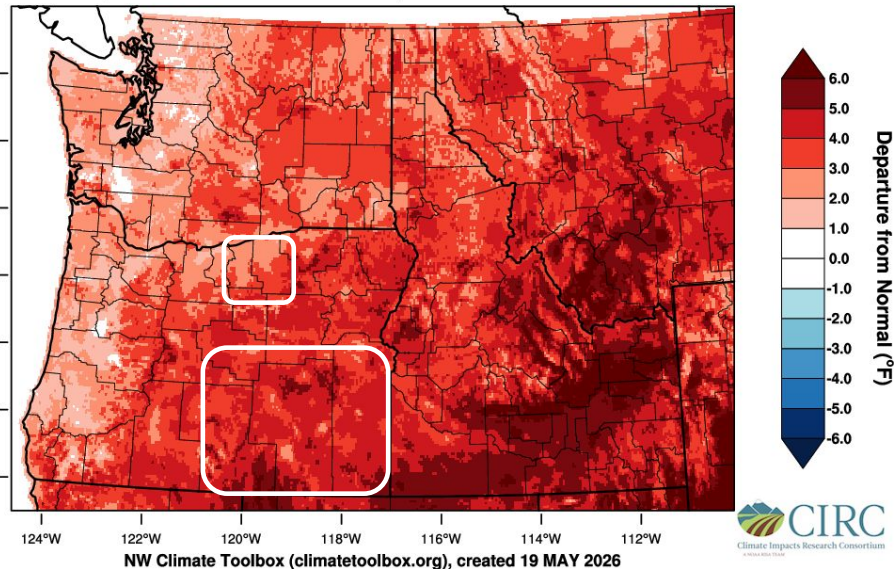
30-Day Precipitation Accumulations (Inches)



Water Year Temps/Precip from Normal

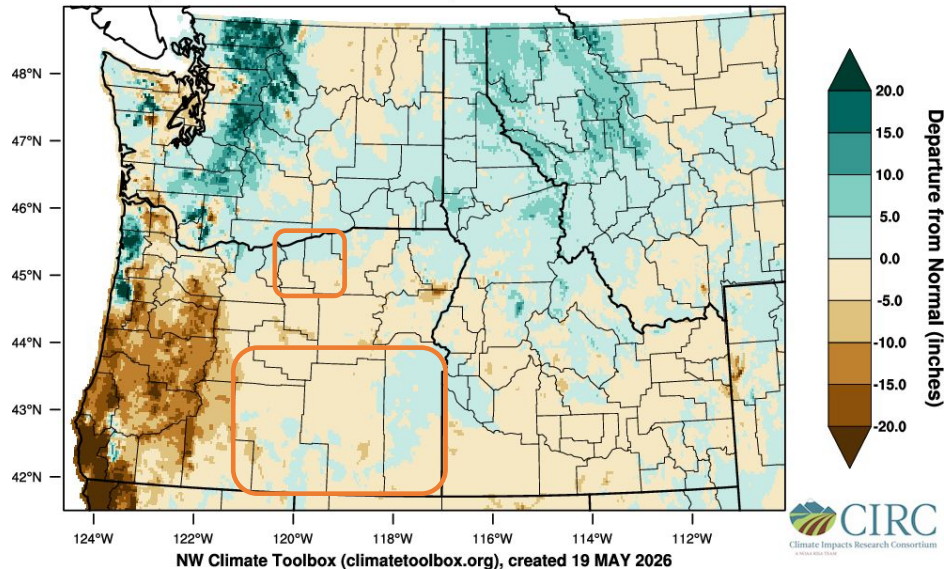
Average Temperature, Current Water Year, 10/01/25 to 05/17/26

Departure from 1991-2020 Normal, Northwestern United States



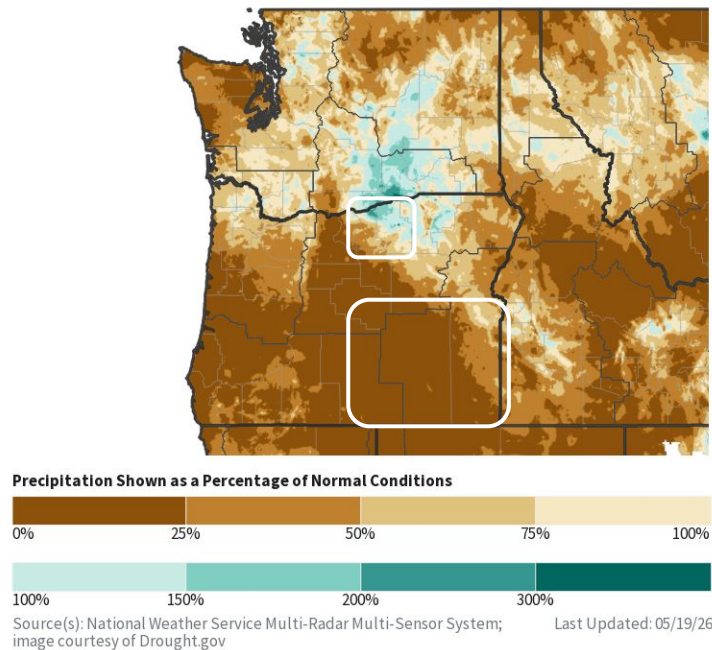
Precipitation, Current Water Year, 10/01/25 to 05/17/26

Departure from 1991-2020 Normal, Northwestern United States

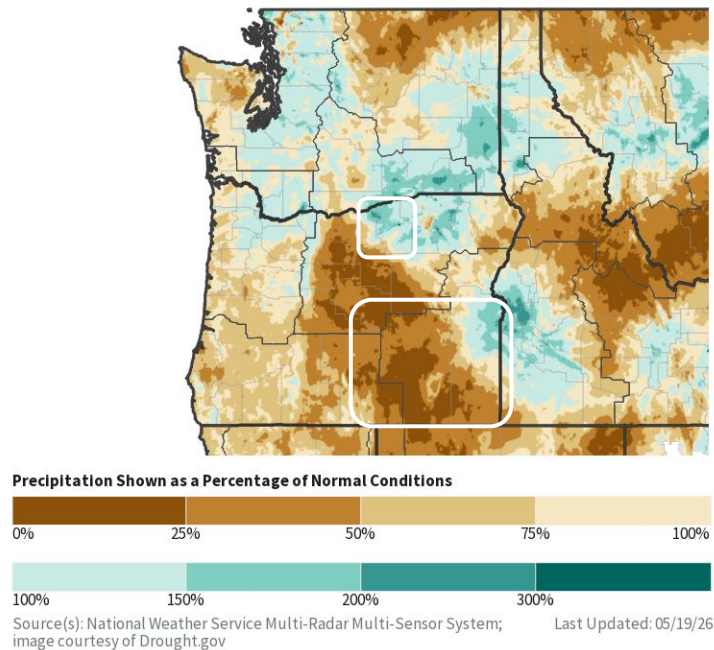


Precipitation Percent of Normal

30-Day Percent of Normal Precipitation

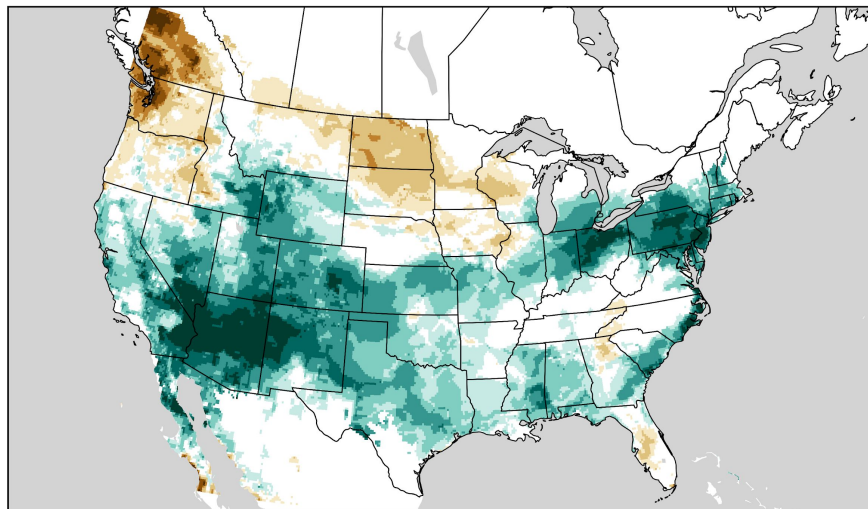


90-Day Percent of Normal Precipitation



Evaporative Demand Drought Index

1-month EDDI: changes during the 30 days ending on May 15, 2026



Drying tendency

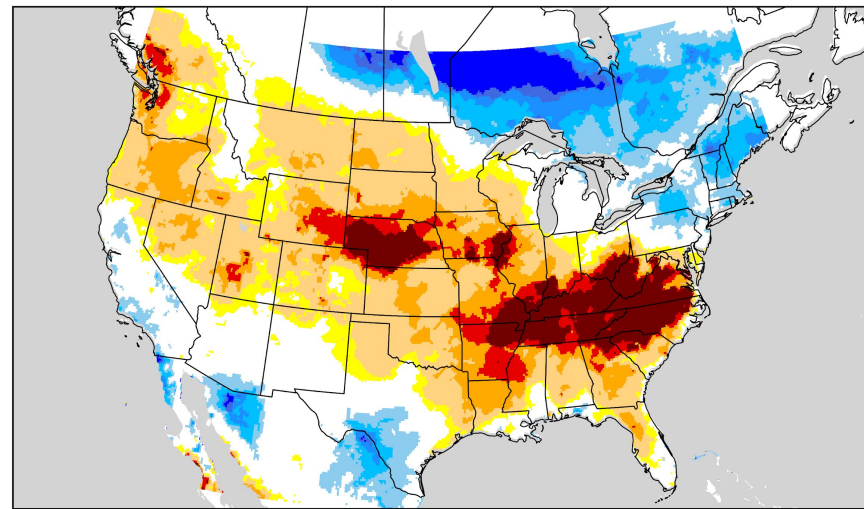
Wetting tendency



Only regions that start or end above the 70th percentile (i.e., ED0-ED4) are shown.

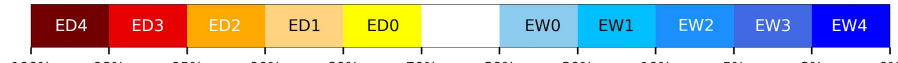
Generated at NOAA/NWS/NCEP/Climate Prediction Center

1-month EDDI categories for May 15, 2026



Drought categories

Wetness categories

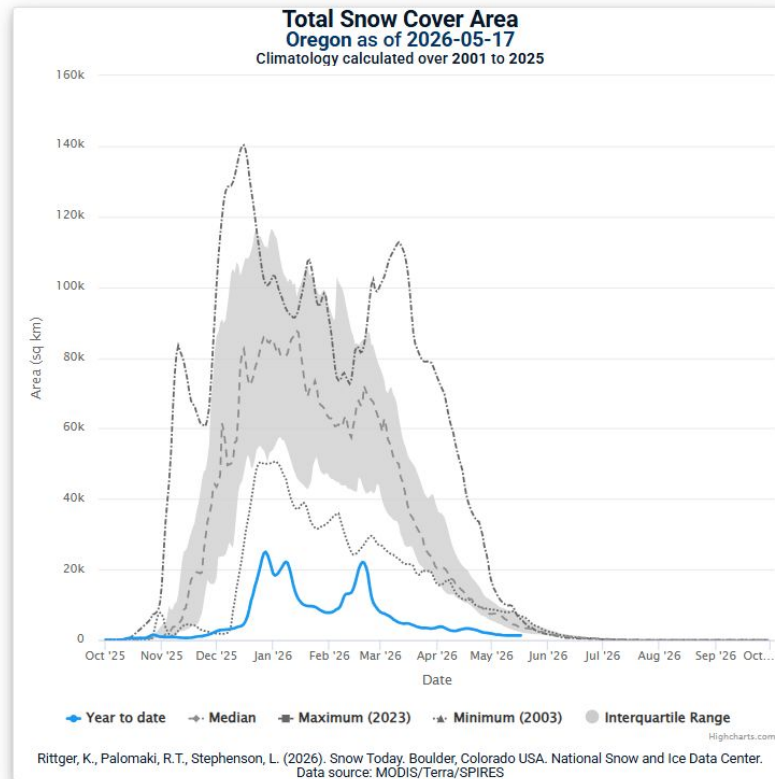
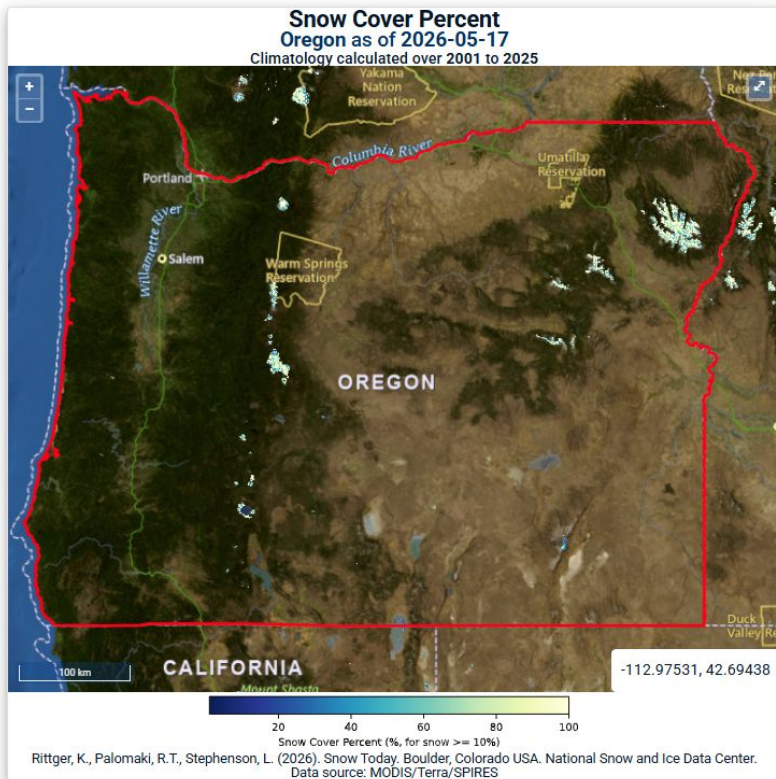


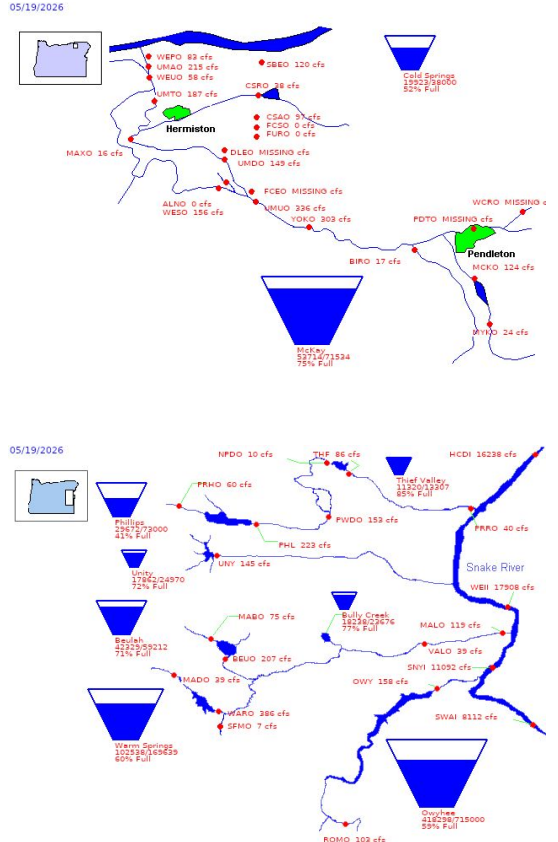
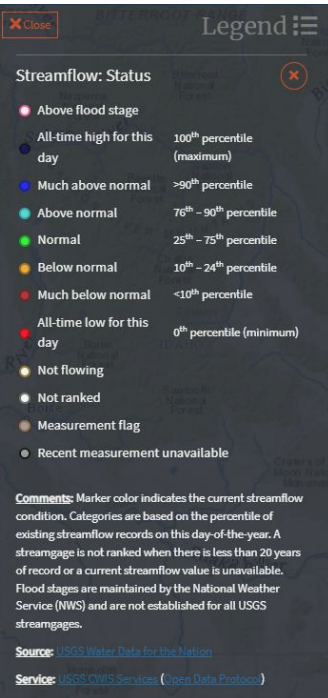
(EDDI-percentile category breaks: 100% = driest; 0% = wettest)

Generated at NOAA/NWS/NCEP/Climate Prediction Center

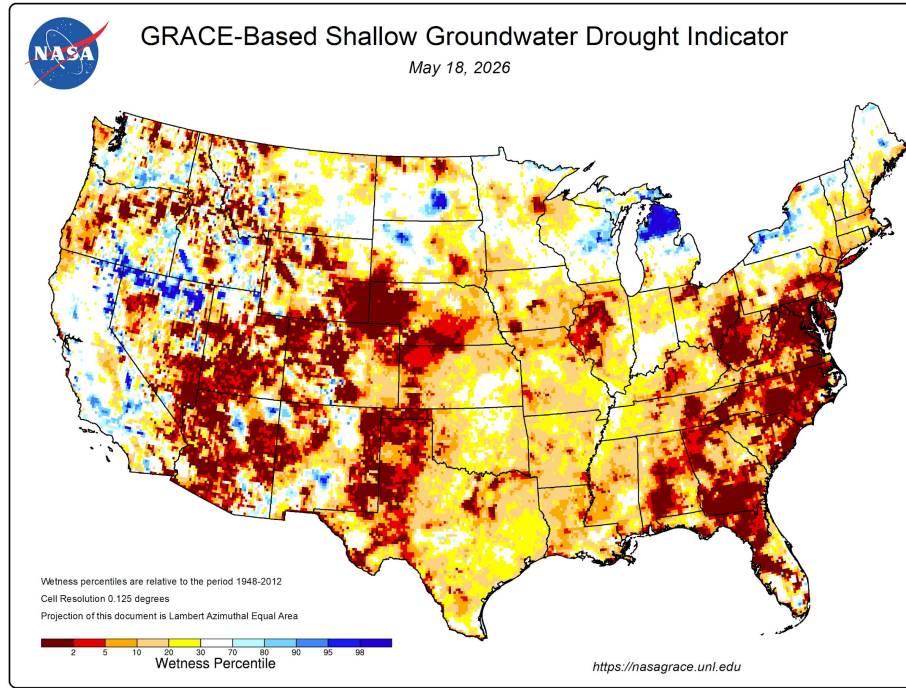
Evaporative Demand Drought Index (EDDI) experimental drought monitoring and early warning guidance tool which measures drought severity based on anomalies in atmospheric evaporative demand (E0) near the land surface: temperature, humidity, windspeed, and solar radiation

Snow Pack



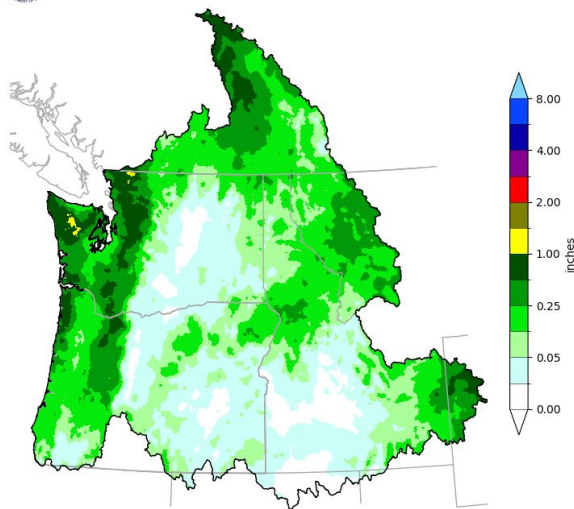


Groundwater



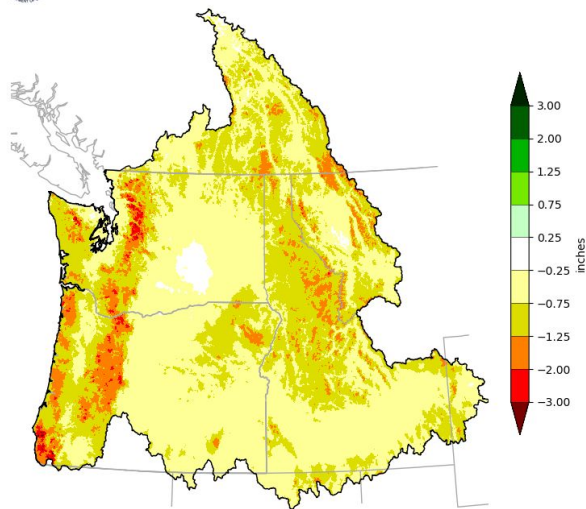
Near Term Forecast - 10 days

 Northwest River Forecast Center
10 Day QPF, Ending 12Z, 05/29/26



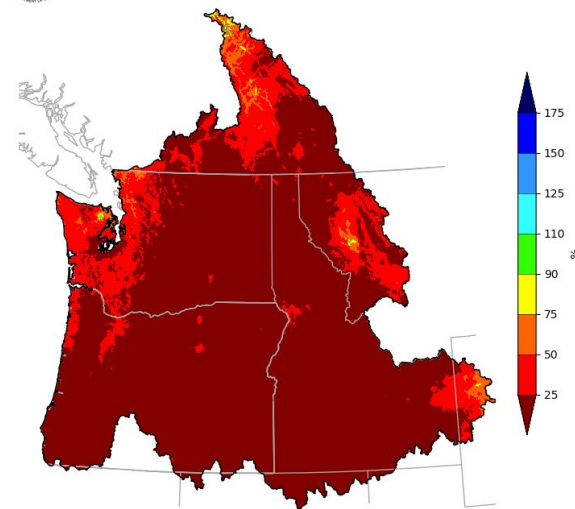
Creation Time: Tue May 19 21:08:41 UTC 2026

 Northwest River Forecast Center
10 Day QPF (Deviation from Climatology), Ending 12Z, 05/29/26



Creation Time: Tue May 19 21:09:04 UTC 2026

 Northwest River Forecast Center
10 Day QPF (Percent of Climatology), Ending 12Z, 05/29/26



Creation Time: Tue May 19 21:08:57 UTC 2026

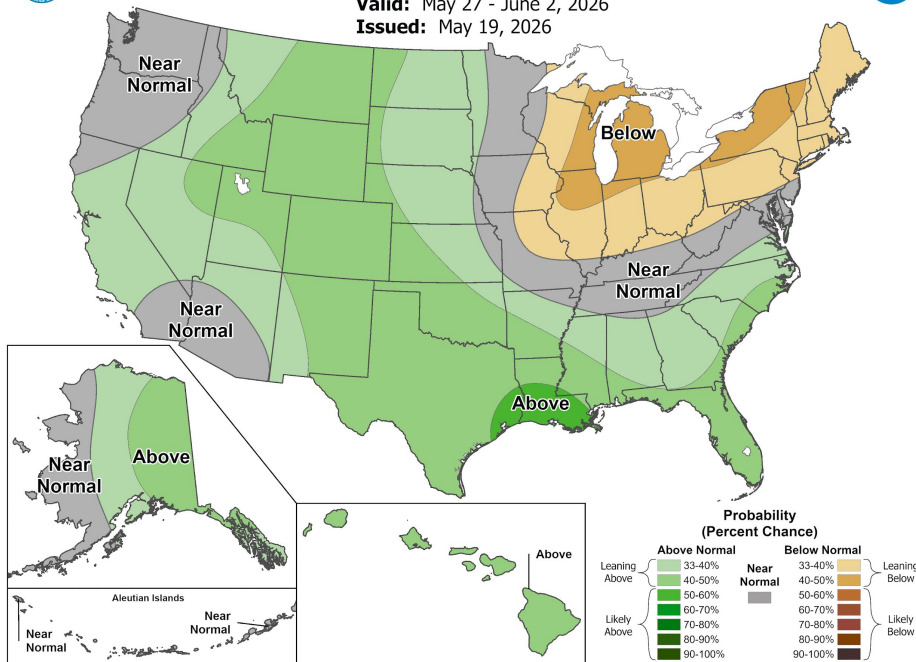
8-14 day outlook



8-14 Day Precipitation Outlook

Valid: May 27 - June 2, 2026

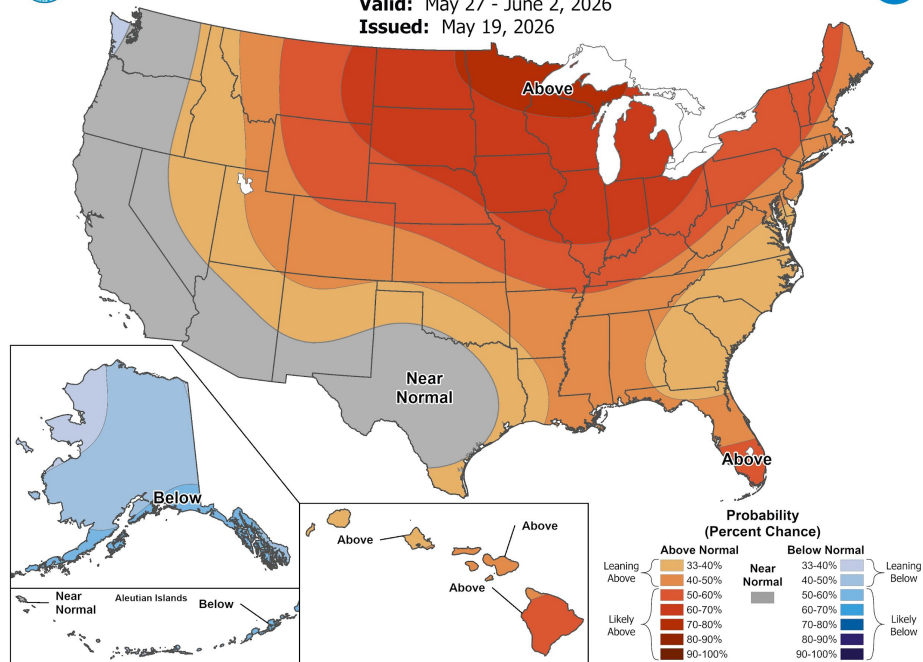
Issued: May 19, 2026



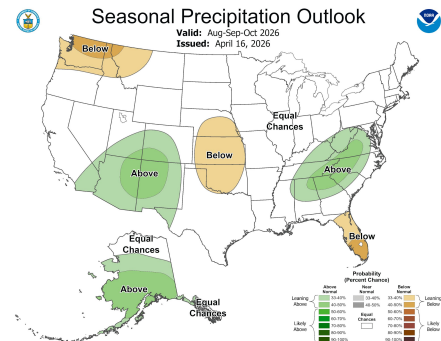
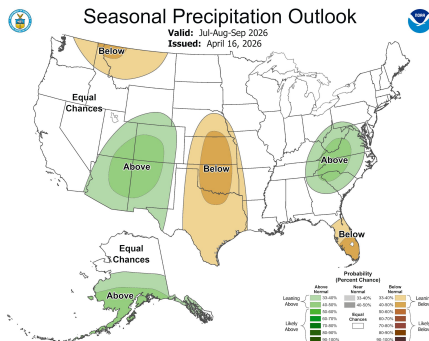
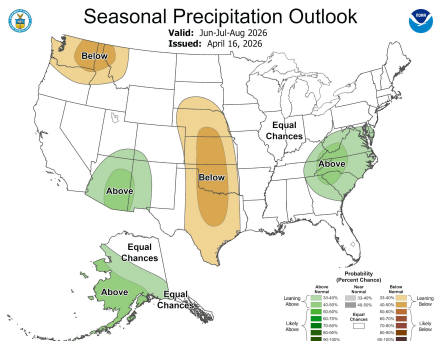
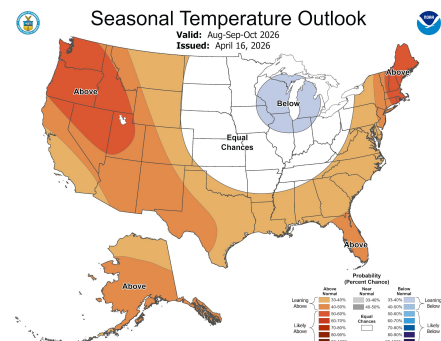
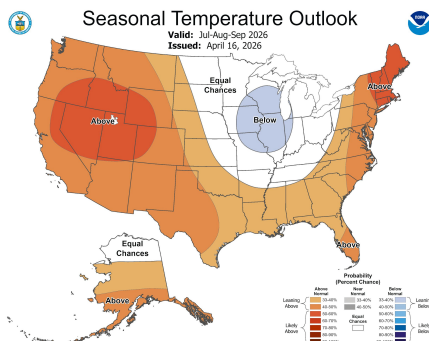
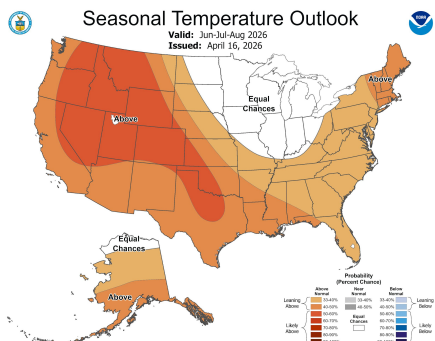
8-14 Day Temperature Outlook

Valid: May 27 - June 2, 2026

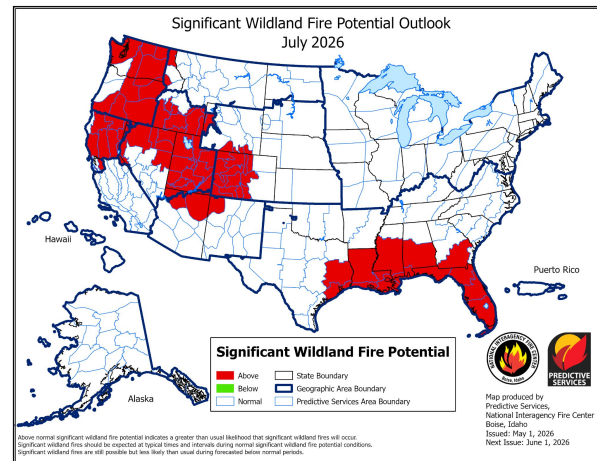
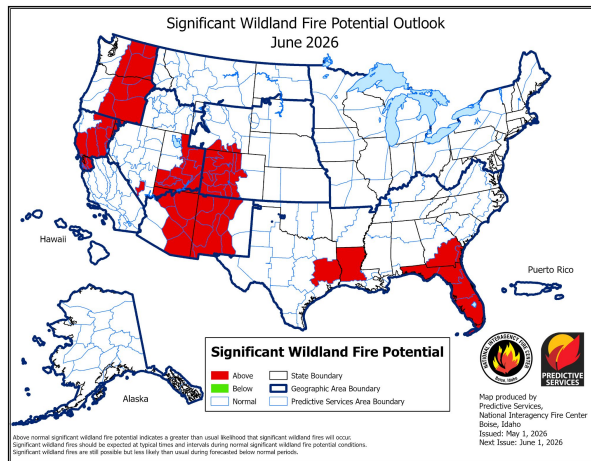
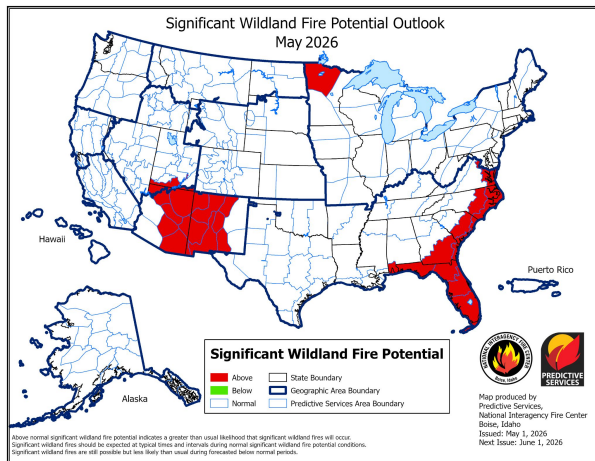
Issued: May 19, 2026



CPC Seasonal Outlook: May- June- July to July-Aug-Sept 2026



Wildfire Potential Outlook



EL NIÑO/SOUTHERN OSCILLATION (ENSO)

DIAGNOSTIC DISCUSSION

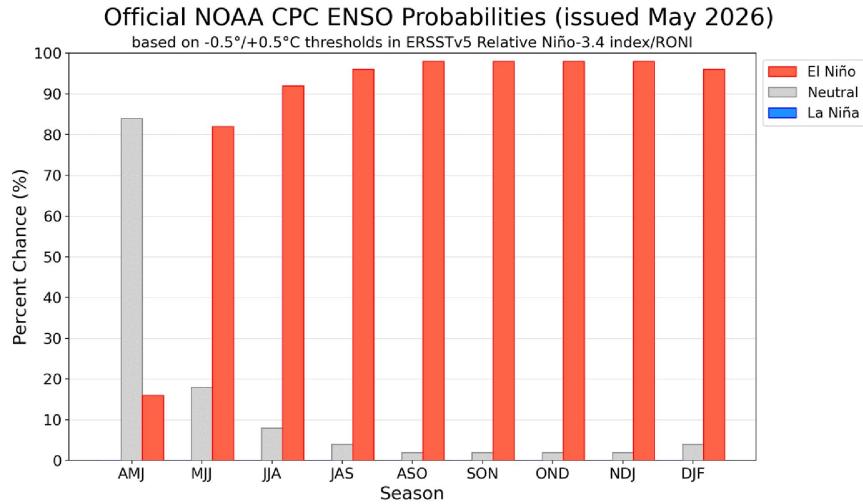


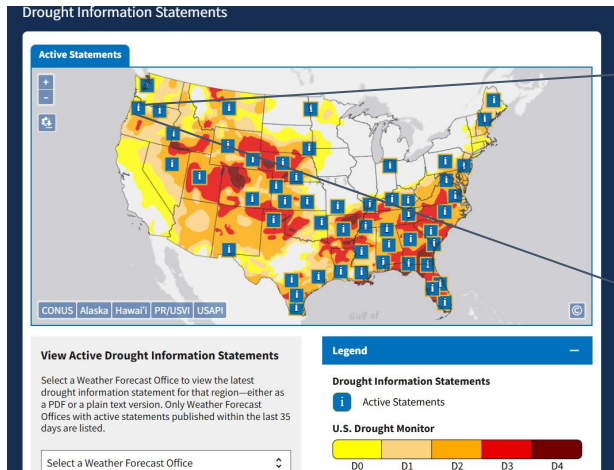
Figure 7. Official ENSO probabilities for the Niño 3.4 relative sea surface temperature index (5°N - 5°S , 170°W - 120°W) minus tropical mean (20°N - 20°S). The relative index is re-scaled to match the variance of the traditional index. Figure updated 14 May 2026. Higher resolution image/table: https://cpc.ncep.noaa.gov/products/analysis_monitoring/enso/roni/probabilities.php

ENSO-neutral conditions are present, and favored through April-June 2026 (80% chance). In May-July 2026, El Niño is likely to emerge (80% chance) and persist through at least the end of 2026.

Overall Notes

- Warmer than normal temperatures continue
- Precipitation the last 30 days have improved some conditions but still below normal for most of the state
- Snowpack almost finished
- Reservoirs holding on to water for summer while streamflows generally less than normal
- Rain forecasted but less than climatologically normal
- Warmer temperatures are forecasted to continue throughout the summer

NWS Drought Communication



Drought Information Statement for NW Oregon and SW Washington

Valid May 15, 2026

Issued By: National Weather Service Portland, OR
Contact Information: nws.portland@noaa.gov

- This product will be updated Monthly or sooner if drought conditions change significantly.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://www.weather.gov/pqr/DroughtInformationStatement> for previous statements.
- Please visit <https://www.drought.gov/drought-status-updates> for regional drought status updates.

- Predominantly above normal temperatures in April
- Snowpack is currently much below average (record low levels)
- Abnormally dry to moderate drought conditions affect most of the area
- Eastern Lane County is now classified in D3 extreme drought

Department of Commerce | National Oceanic and Atmospheric Administration

www.drought.gov/drought-information-statements

Condition Monitoring Observer Reports (CMOR) system to report drought-related conditions and impacts

<https://droughtimpacts.unl.edu/Tools/ConditionMonitoringObservations.aspx>



Oregon WSAC/DRC Climate Update and Drought Status May 2026

Larry O'Neill
CEOAS/Oregon State University
Oregon Climate Service
larry.oneill@oregonstate.edu



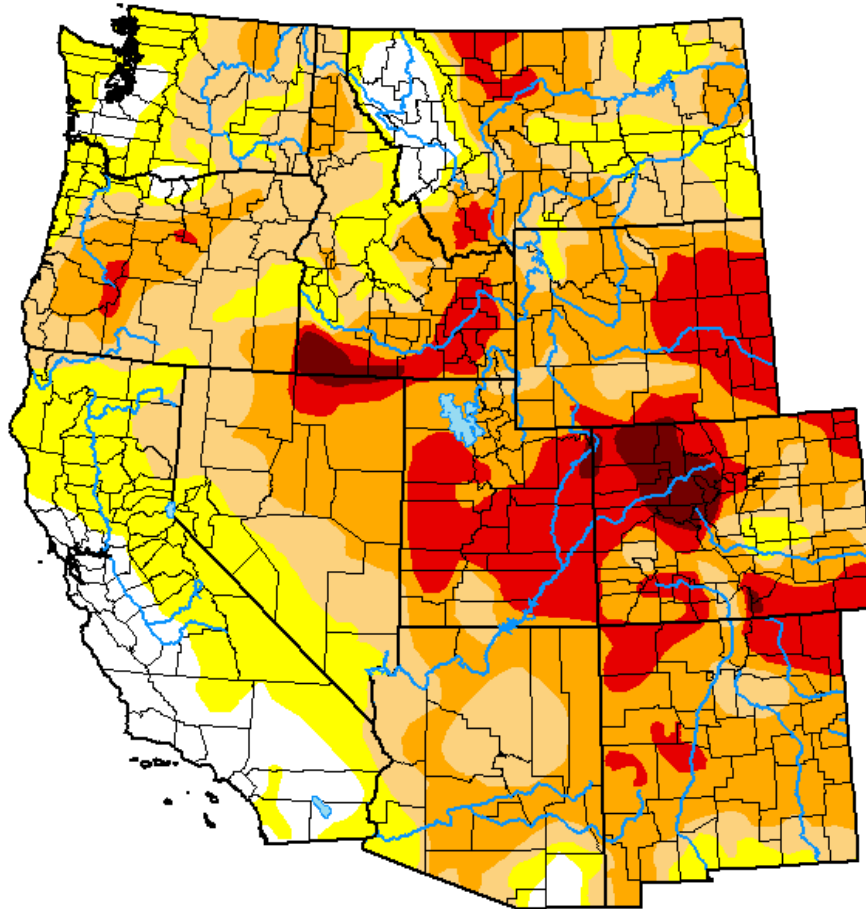
Oregon State University
College of Earth, Ocean,
and Atmospheric Sciences



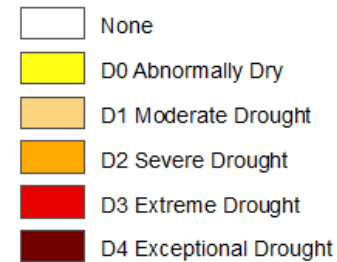
Wednesday, May 20, 2026

U.S. Drought Monitor West

May 12, 2026
(Released Thursday, May. 14, 2026)
Valid 8 a.m. EDT



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <http://droughtmonitor.unl.edu/About.aspx>

Author:

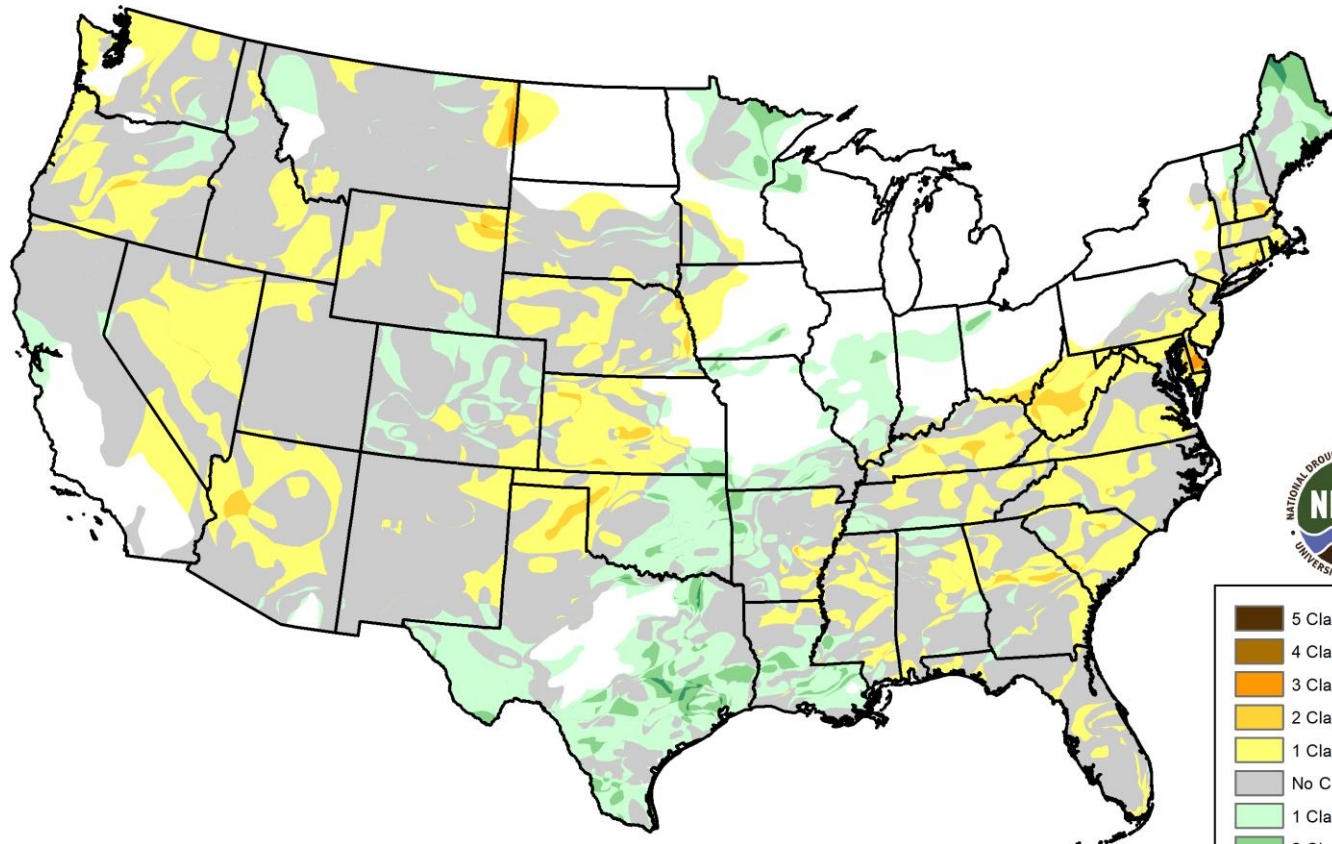
Rocky Bilotta
NCEI/NOAA



droughtmonitor.unl.edu

About 72% of the U.S. west is experiencing some form of drought

U.S. Drought Monitor Class Change - CONUS 4 Week



May 12, 2026
compared to
April 14, 2026

droughtmonitor.unl.edu

- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

U.S. Drought Monitor Oregon

May 12, 2026

(Released Thursday, May. 14, 2026)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	1.51	98.49	82.42	31.33	2.93	0.00
Last Week <i>05-05-2026</i>	3.63	96.37	70.57	20.22	0.20	0.00
3 Months Ago <i>02-10-2026</i>	32.62	67.38	19.87	4.77	0.00	0.00
Start of Calendar Year <i>01-06-2026</i>	65.06	34.94	15.76	4.65	0.00	0.00
Start of Water Year <i>09-30-2025</i>	32.92	67.08	47.65	24.35	1.39	0.00
One Year Ago <i>05-13-2025</i>	73.04	26.96	0.00	0.00	0.00	0.00

Intensity:

 None	 D2 Severe Drought
 D0 Abnormally Dry	 D3 Extreme Drought
 D1 Moderate Drought	 D4 Exceptional Drought

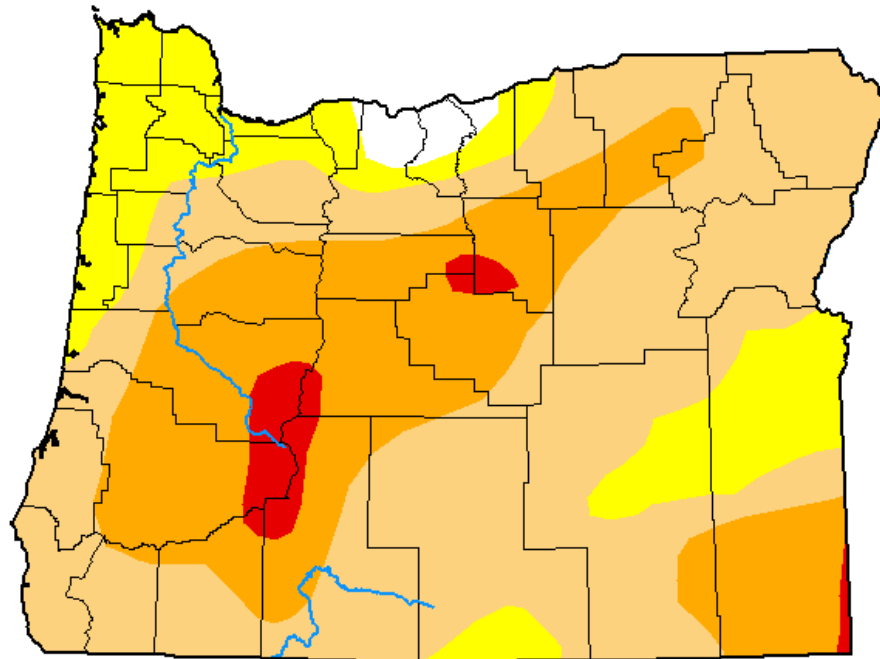
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Rocky Bilotta
NCEI/NOAA



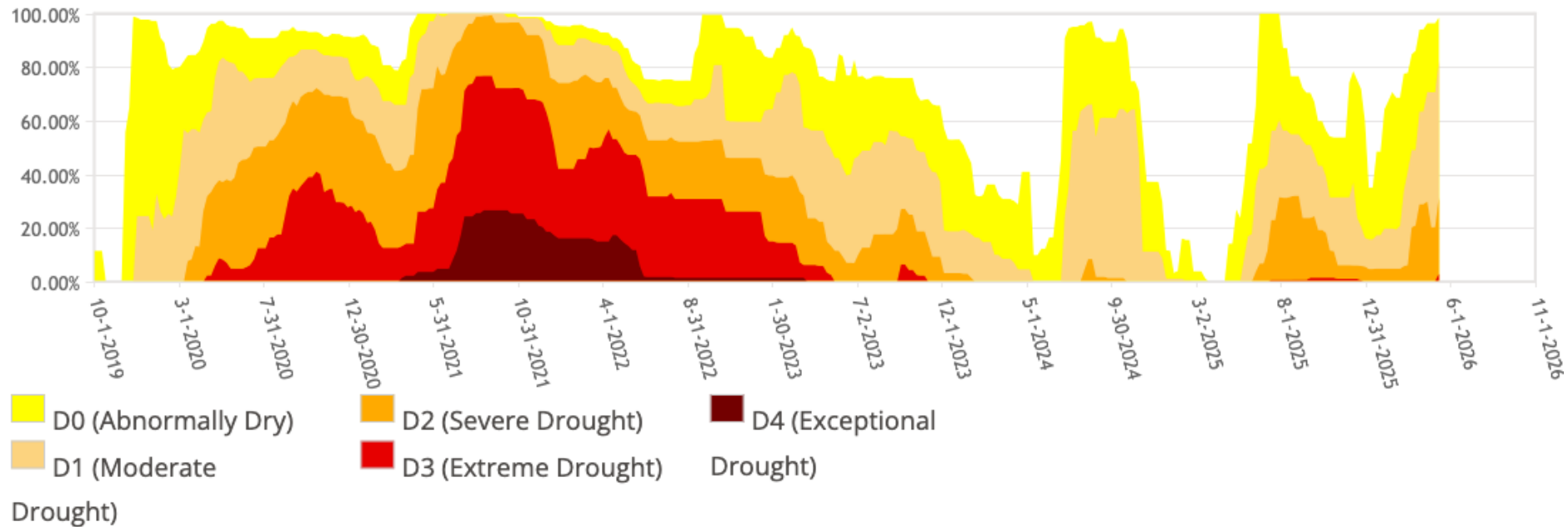
droughtmonitor.unl.edu



Currently, about 71% of Oregon is experiencing some degree of drought

About 31% is in severe (D2) or extreme (D3) drought

Oregon Percent Area in U.S. Drought Monitor Categories

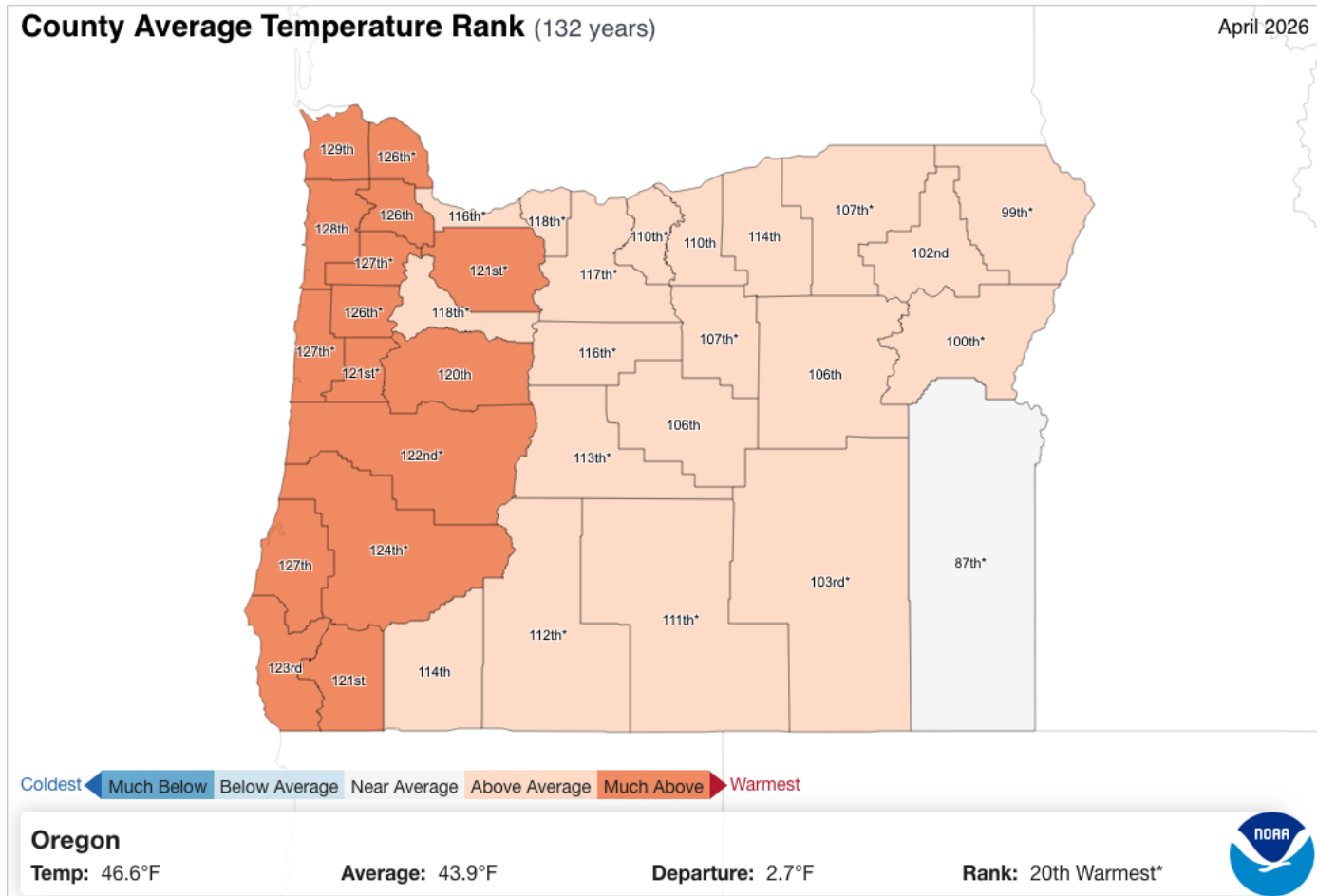


From the U.S. Drought Monitor website, <https://droughtmonitor.unl.edu/DmData/TimeSeries.aspx>, 5-19-2026



Average temperature ranking

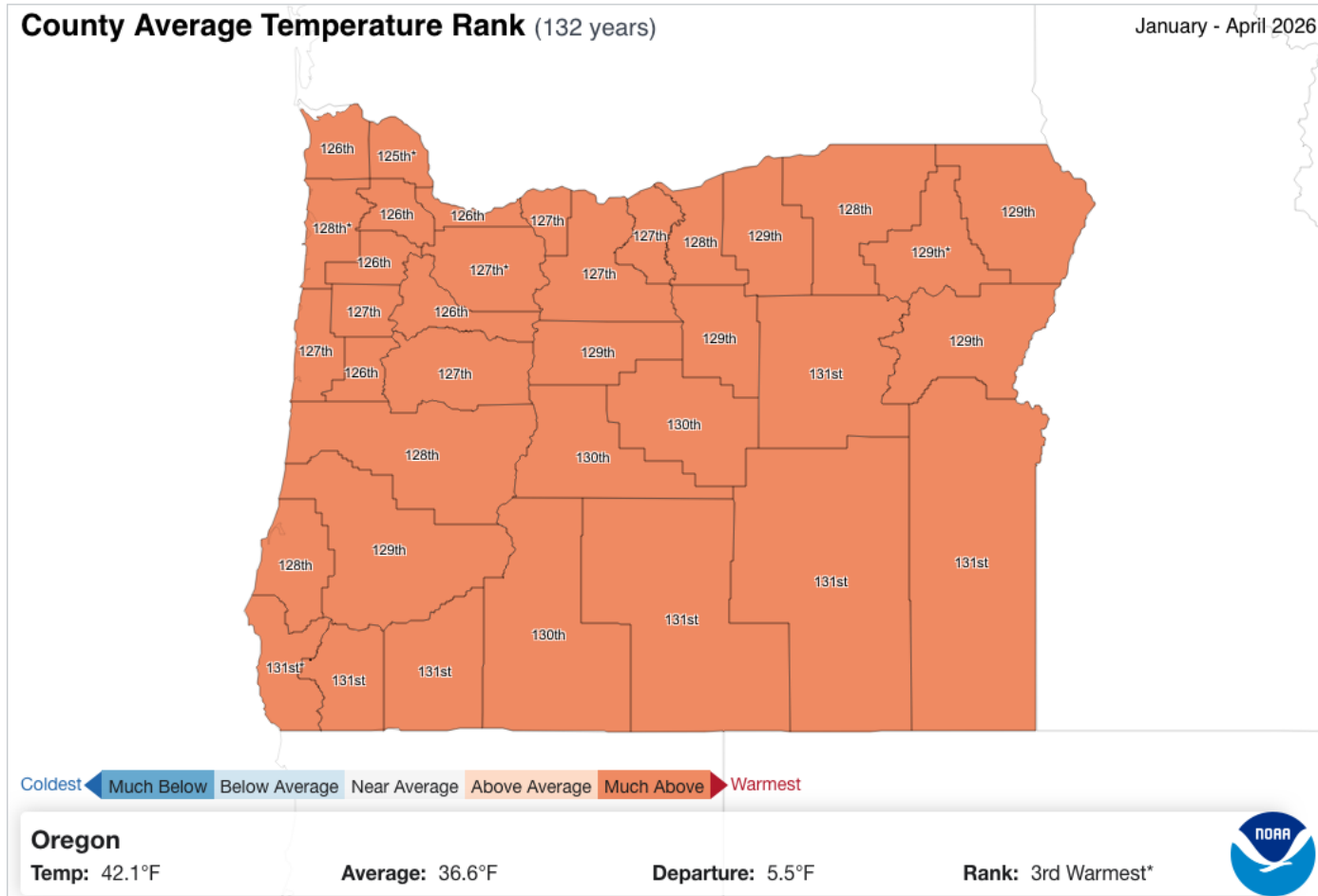
April 2026



Oregon experienced its 20th warmest April since 1895, which was 2.7°F above normal

Average temperature ranking

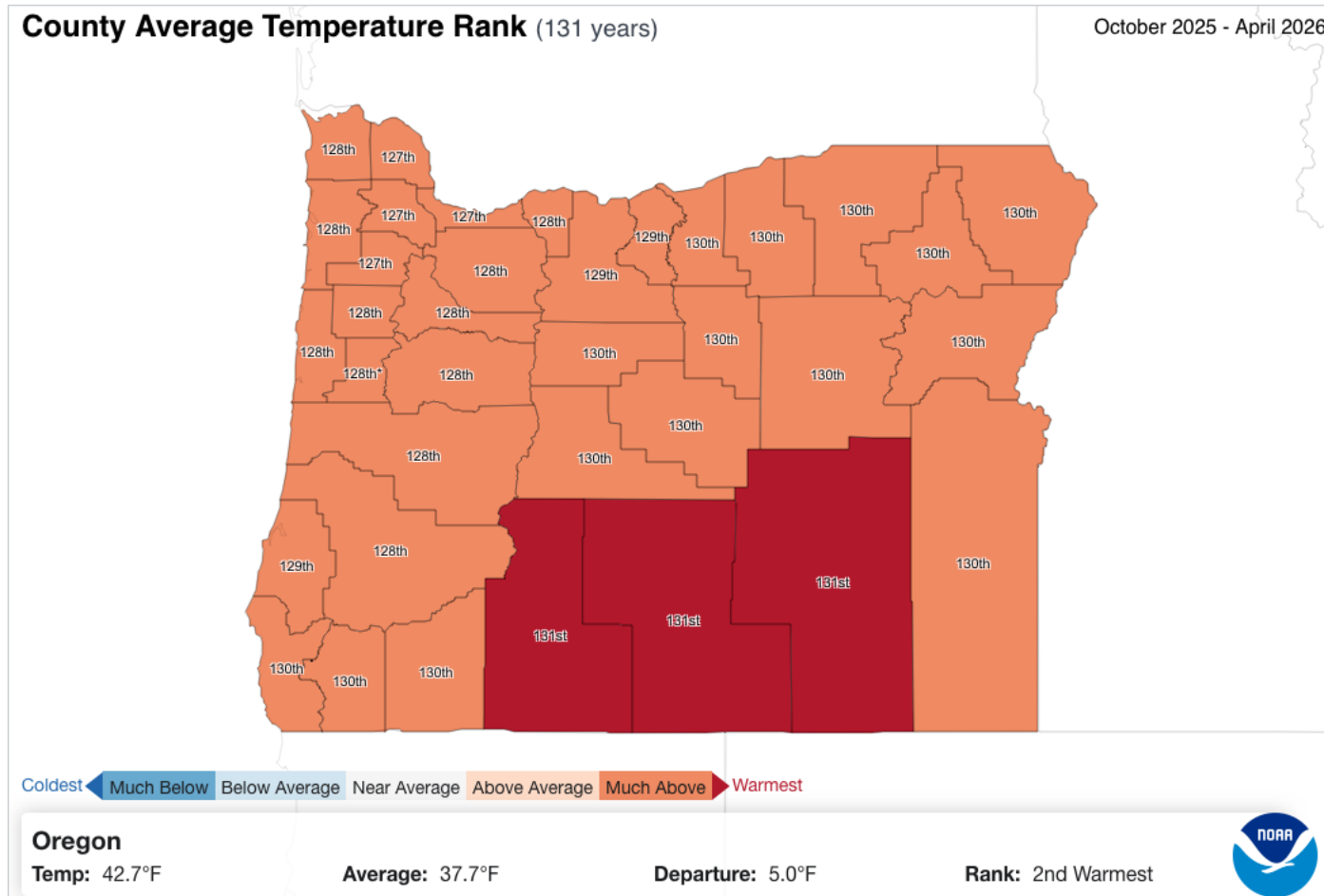
Calendar year 2026 to date



Oregon experienced its 3rd warmest start to a calendar year since 1895, which was 5.5°F above normal

Average temperature ranking

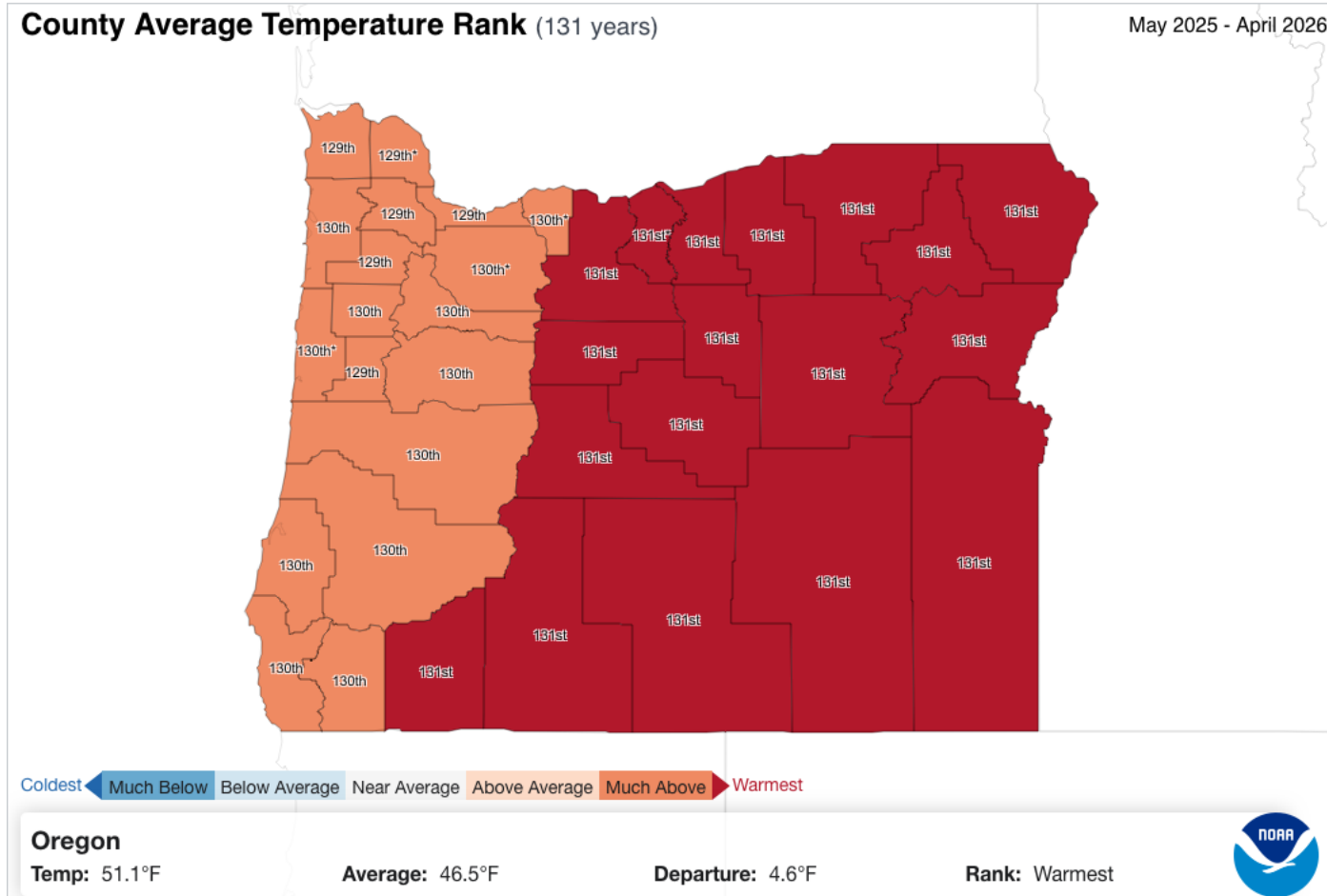
Water year 2026 to date



Oregon experienced its 2nd warmest start to a water year since 1895, which was 5.0°F above normal

Harney County experienced its warmest and Gilliam County its second warmest

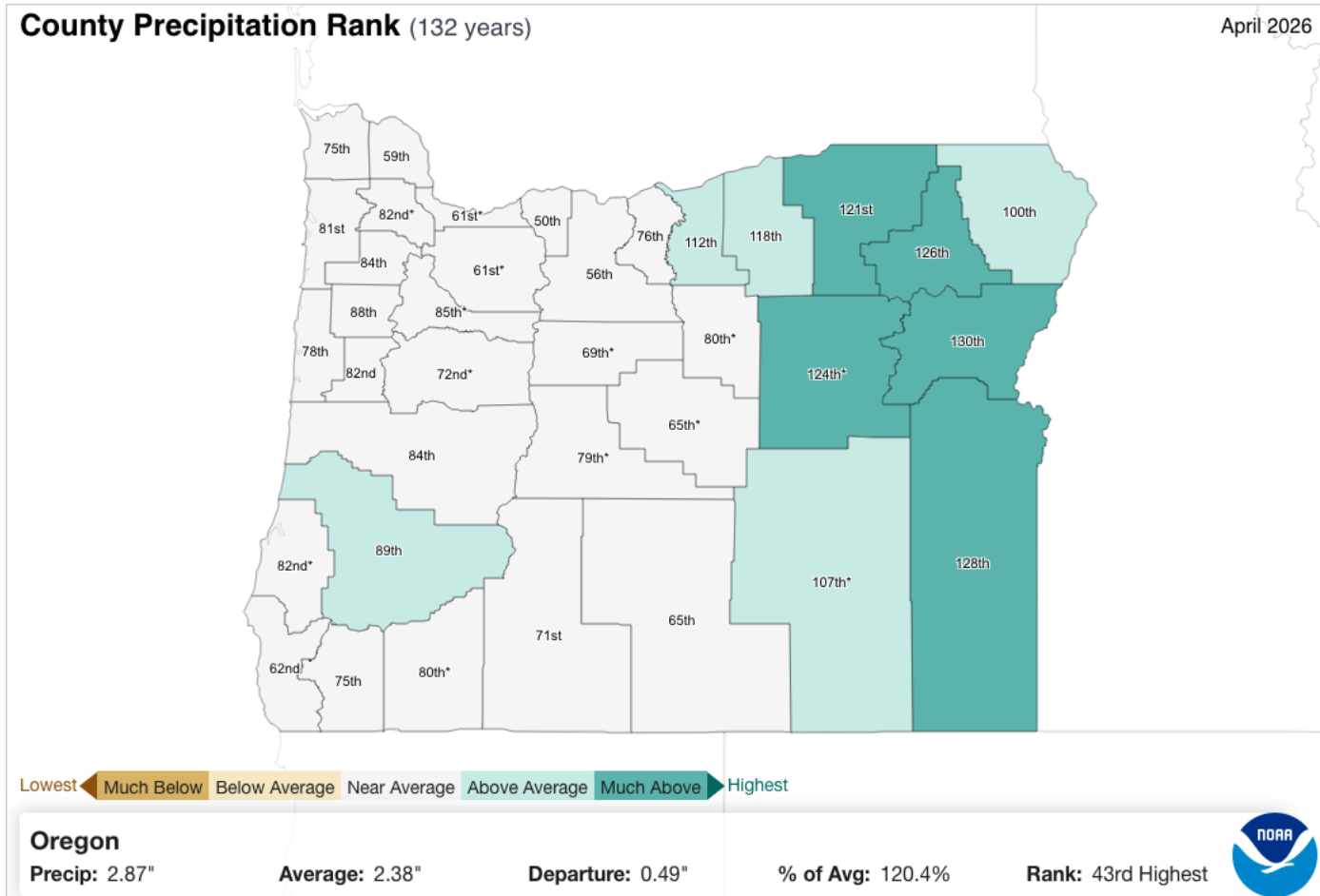
Average temperature ranking May 2025-April 2026



Oregon experienced its warmest 12-month period since 1895, which was 4.6°F above normal

Precipitation ranking

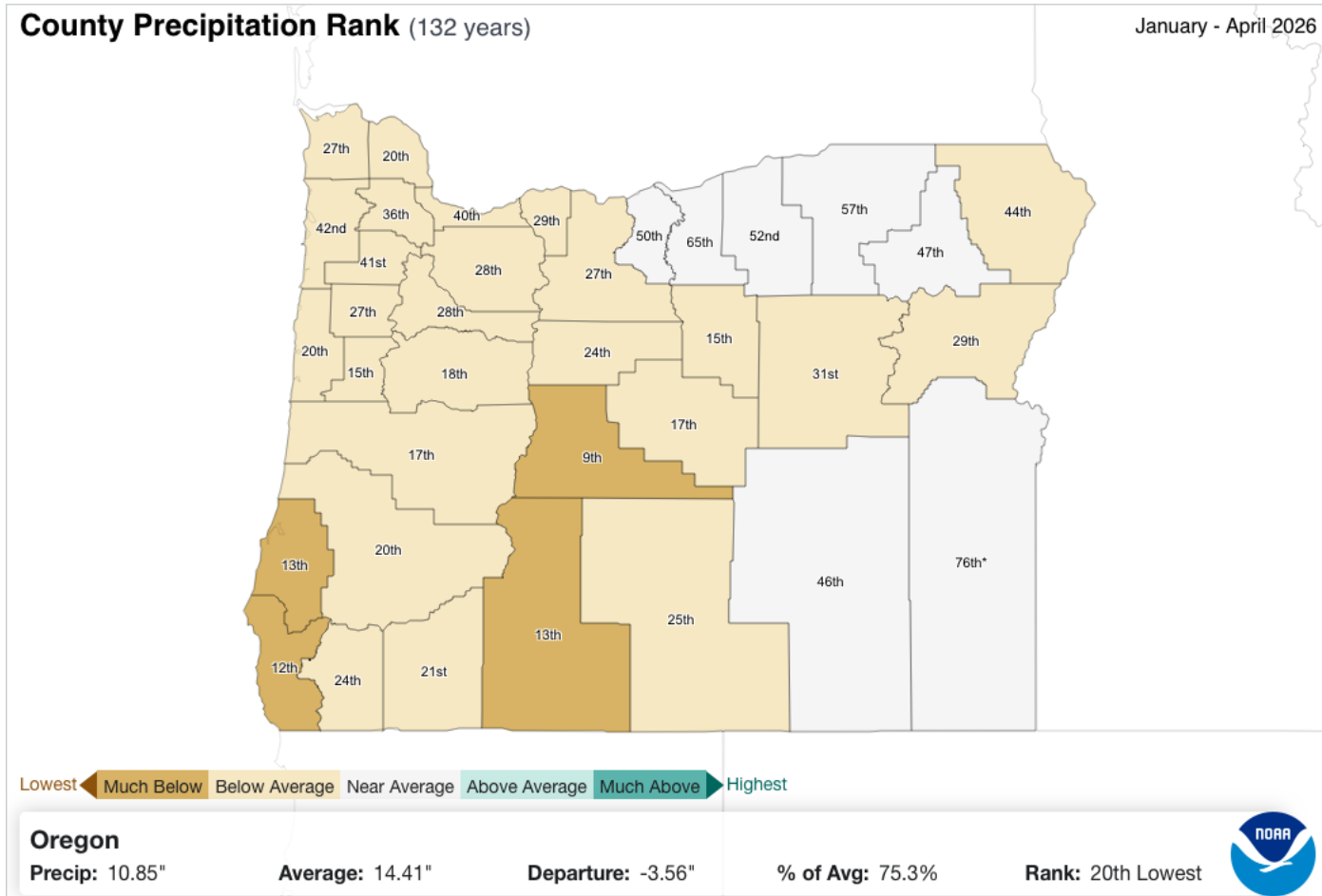
April 2026



Oregon experienced its 43rd wettest April since 1895, with precipitation at 120% of normal

Precipitation ranking

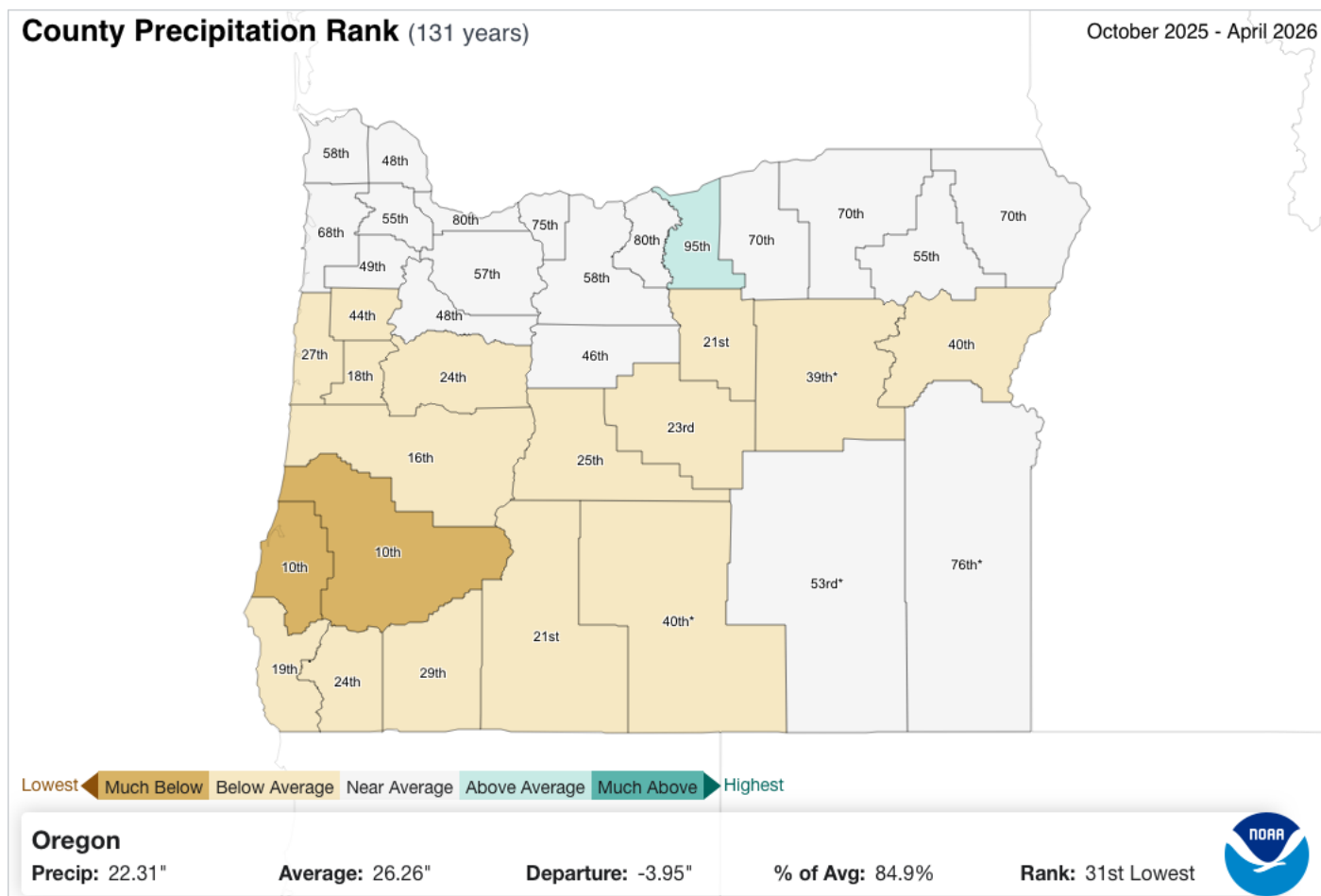
Calendar year 2026 to date



Oregon experienced its 20th driest start to a calendar year since 1895 with about 75% of normal precipitation

Precipitation ranking

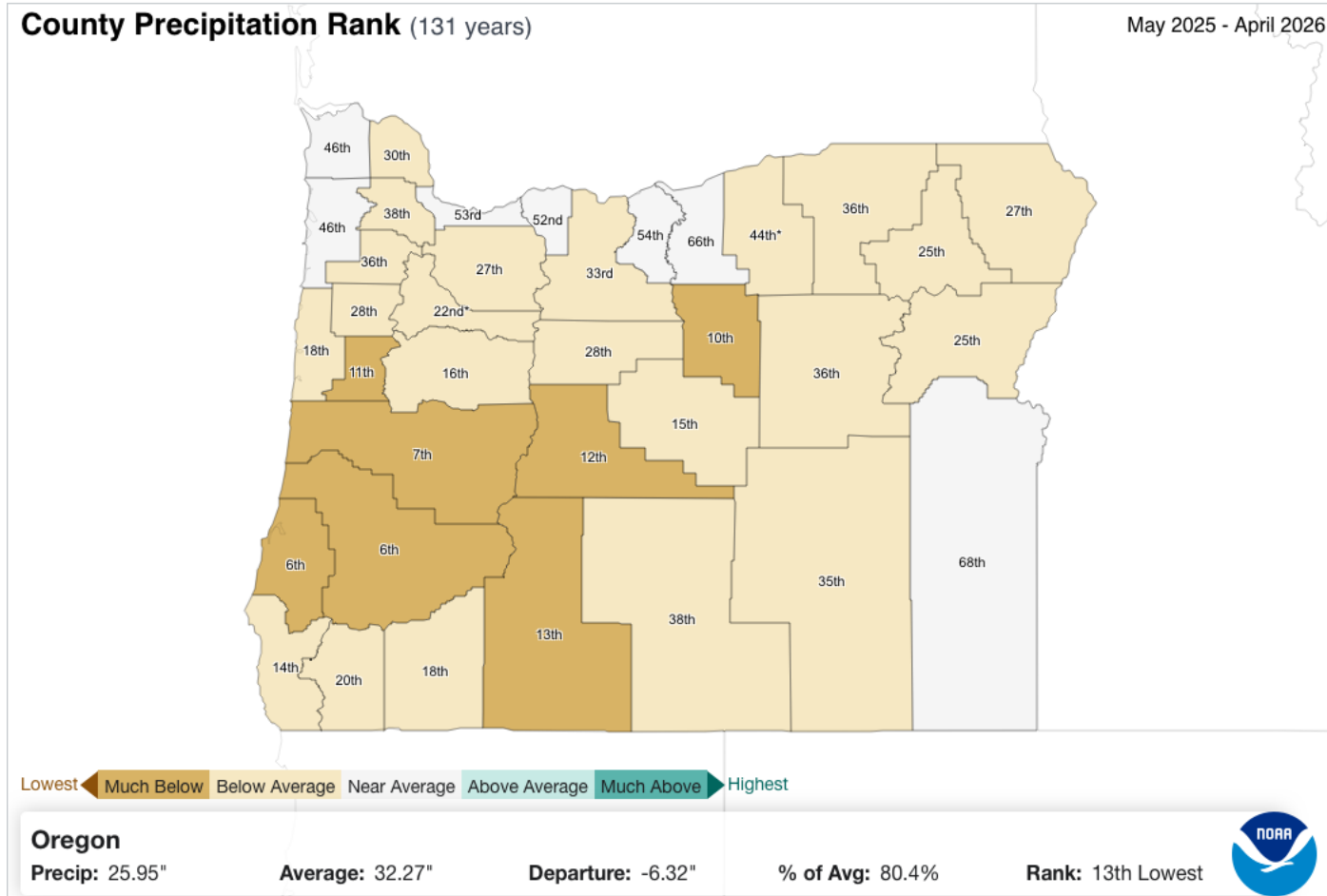
Water year 2026 to date



Oregon experienced its 31st driest start to a calendar year since 1895 with about 85% of normal precipitation

Precipitation ranking

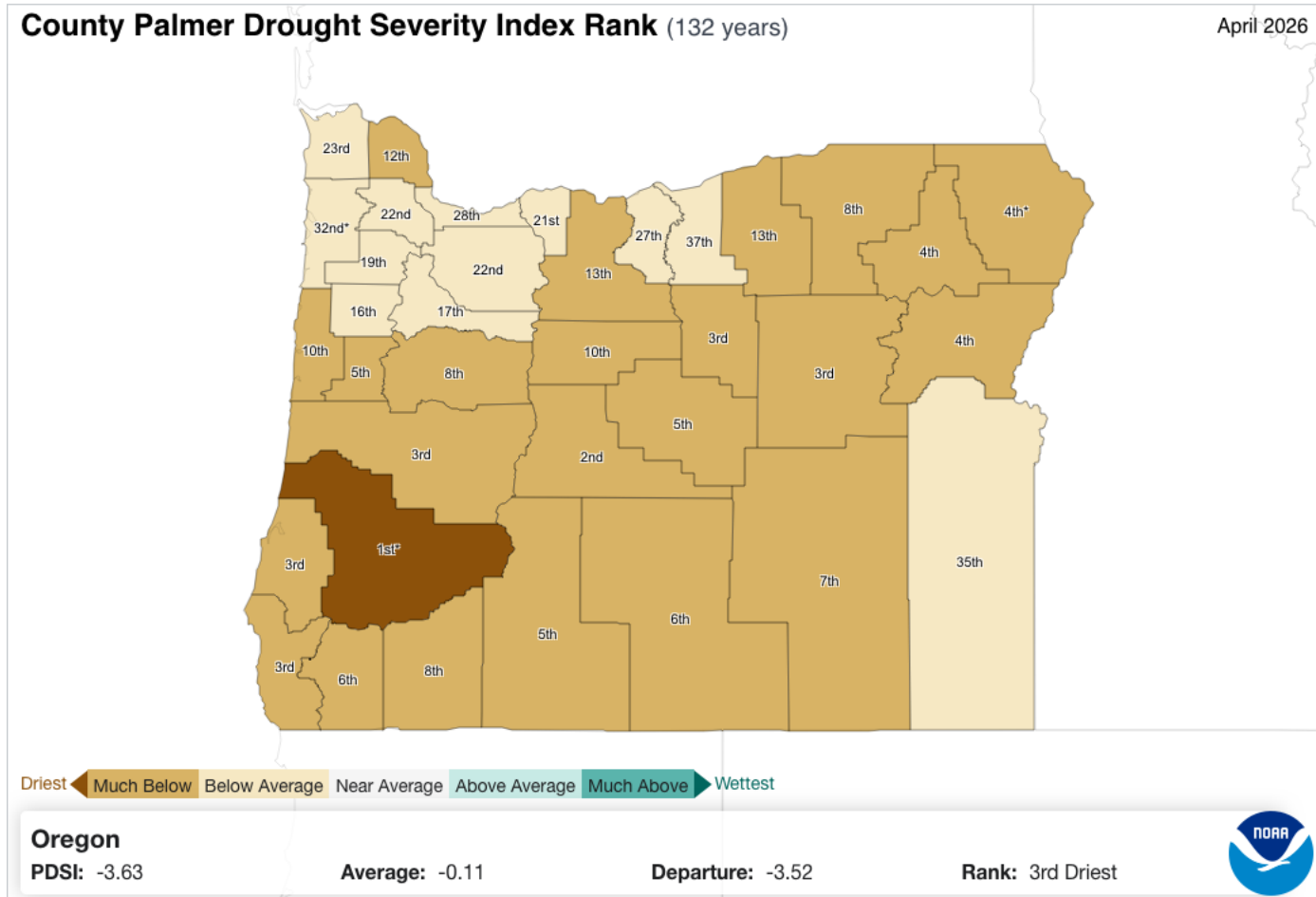
May 2025-April 2026



Oregon experienced its 13th driest 12-month period since 1895 with about 75% of normal

*Gilliam: 66th driest
Harney: 35th driest*

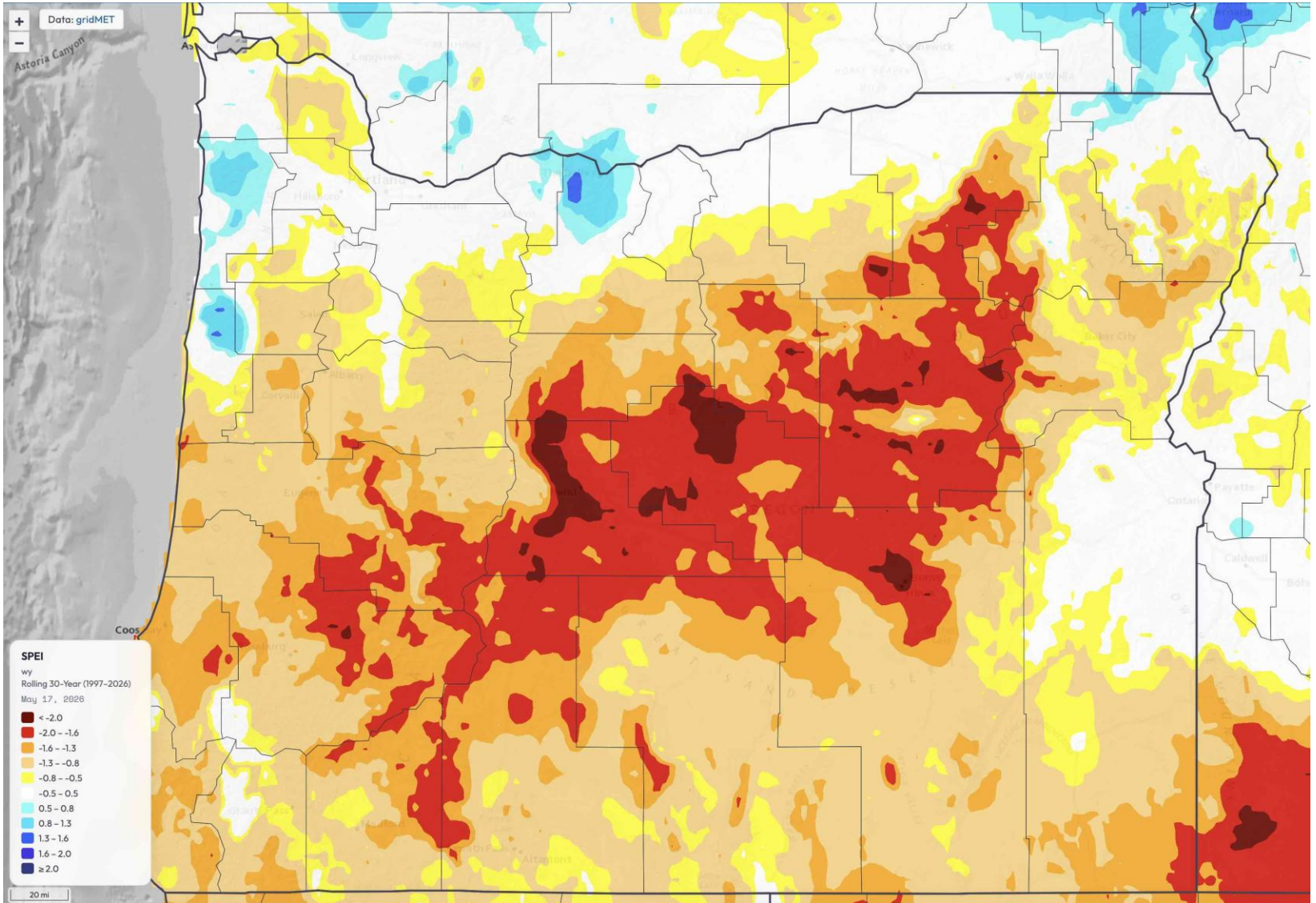
Palmer Drought Severity Index (PDSI)



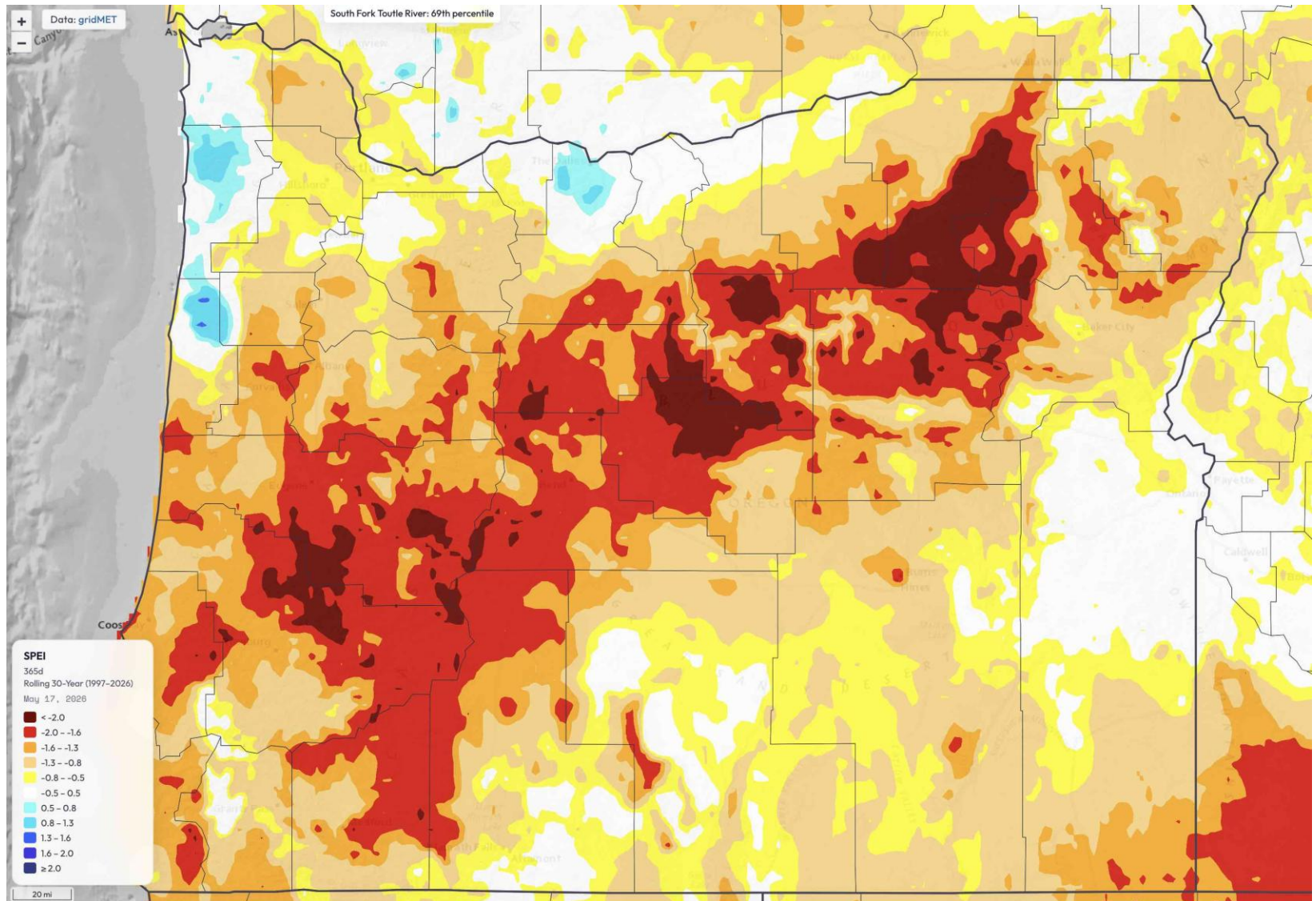
*Oregon
experienced its 3rd
driest PDSI since
1895 (!)*

*Gilliam: 37th driest
Harney: 7th driest*

SPEI WYTD

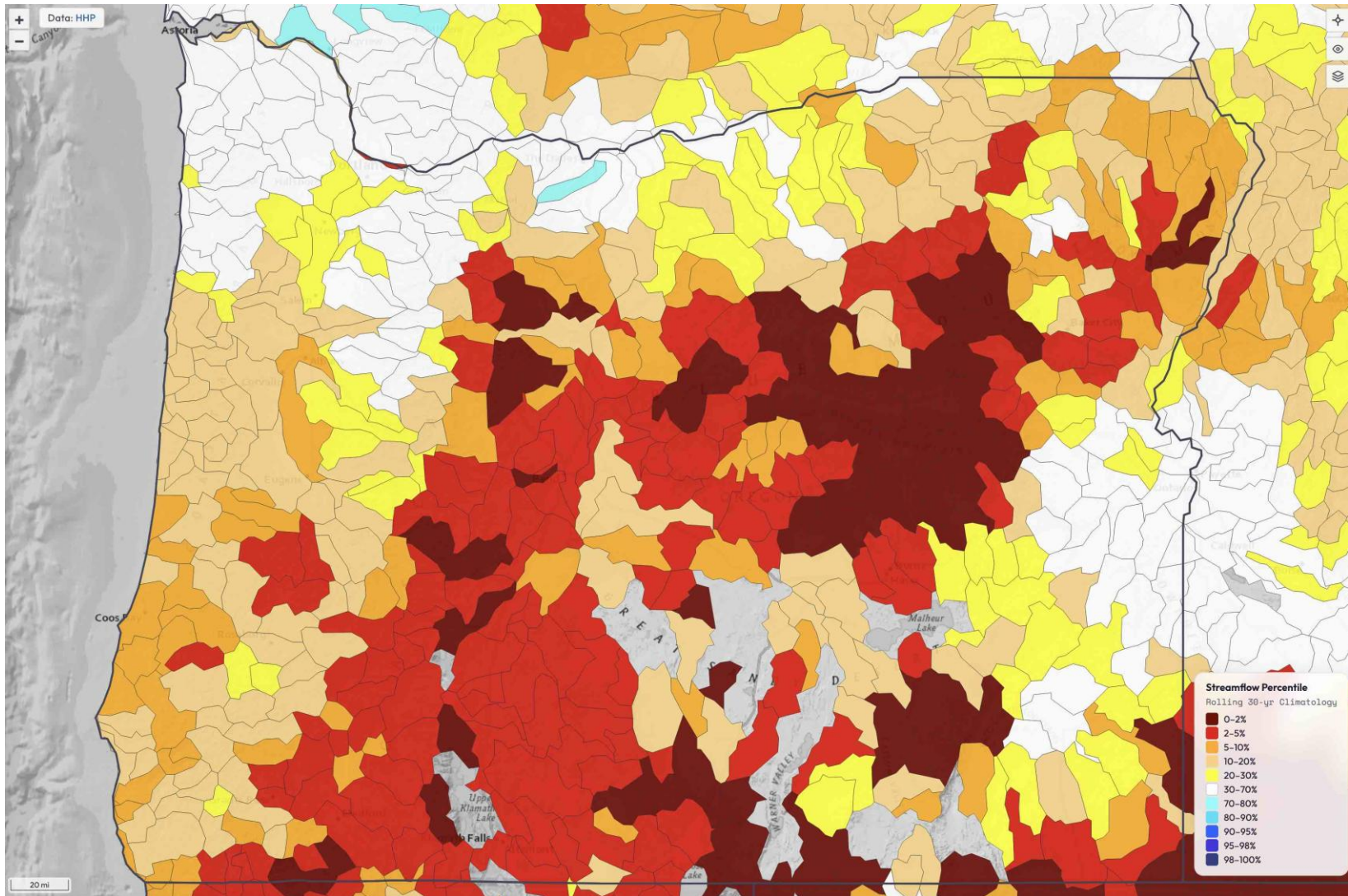


SPEI 12 month



Headwaters Hydrology Project (HHP) ML-Based Streamflow Estimates

HUC-10 modeled 1-day streamflow percentiles



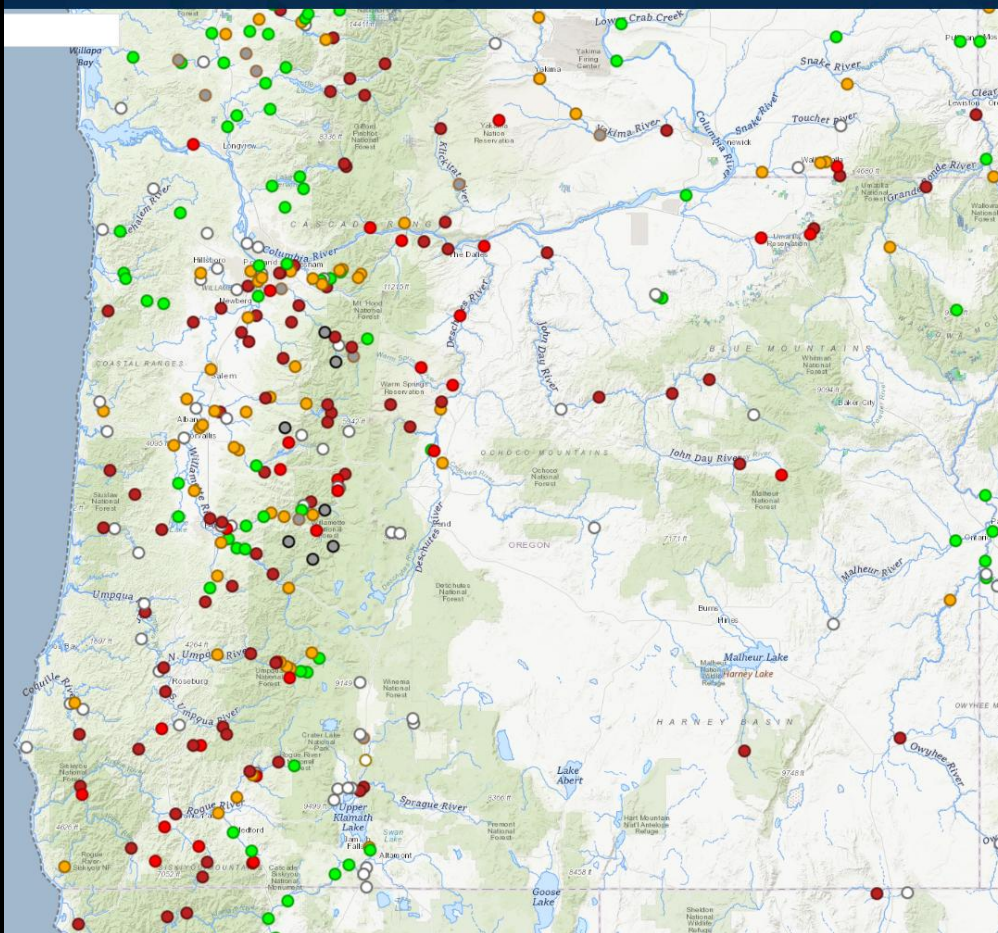


Oregon Water Supply Availability Meeting

May 2026

U.S. Department of the Interior
U.S. Geological Survey

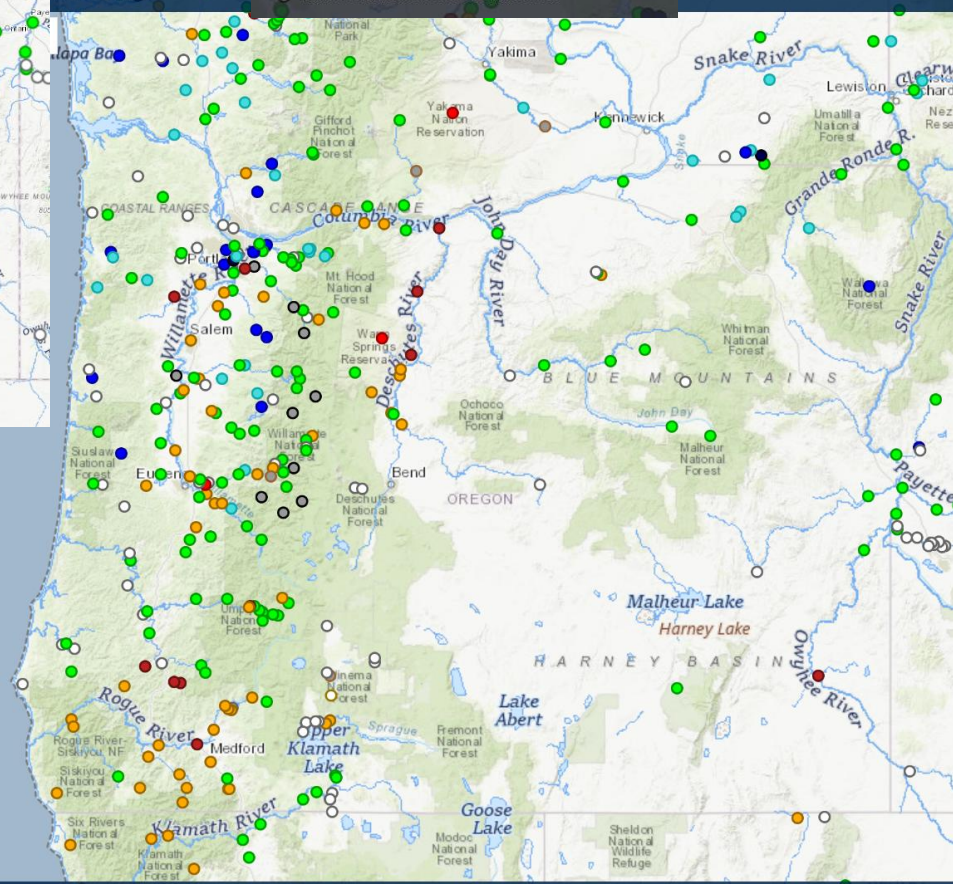
USGS Update on Surface Water Conditions
Carrie Boudreau, Rod Owre, & Marc Stewart
Oregon Water Science Center



Streamflow: Status

- Above flood stage
- All-time high for this day
- Much above normal
- Above normal
- Normal
- Below normal
- Much below normal
- All-time low for this day
- Not flowing
- Not ranked
- Measurement flag
- Recent measurement unavailable
- 100th percentile (maximum)
- >90th percentile
- 76th – 90th percentile
- 25th – 75th percentile
- 10th – 24th percentile
- <10th percentile
- 0th percentile (minimum)

Dashboard



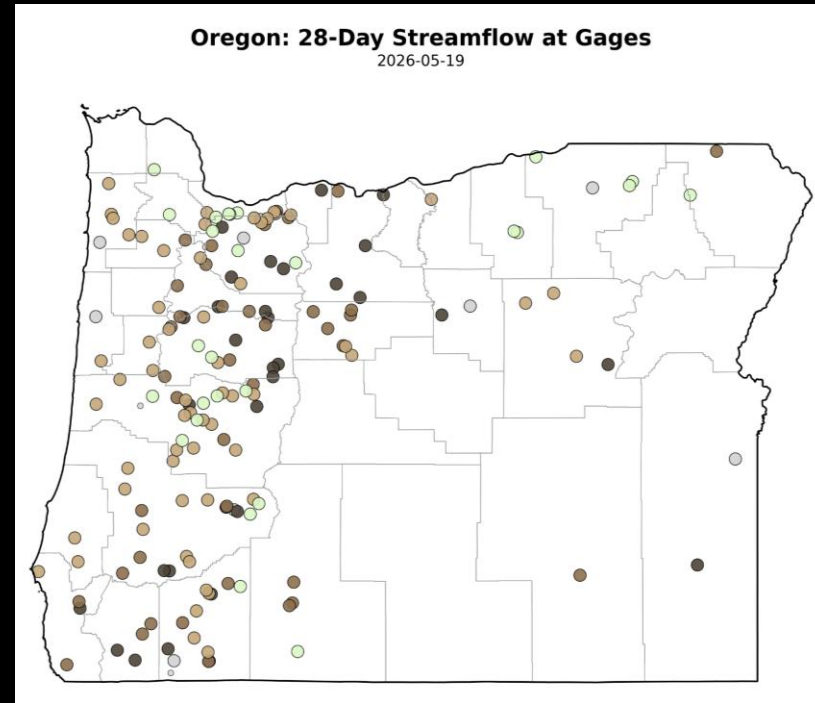
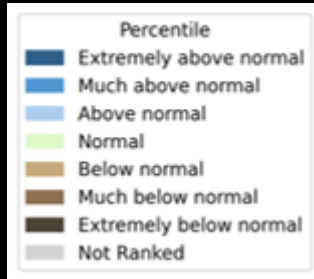
5/19/2026



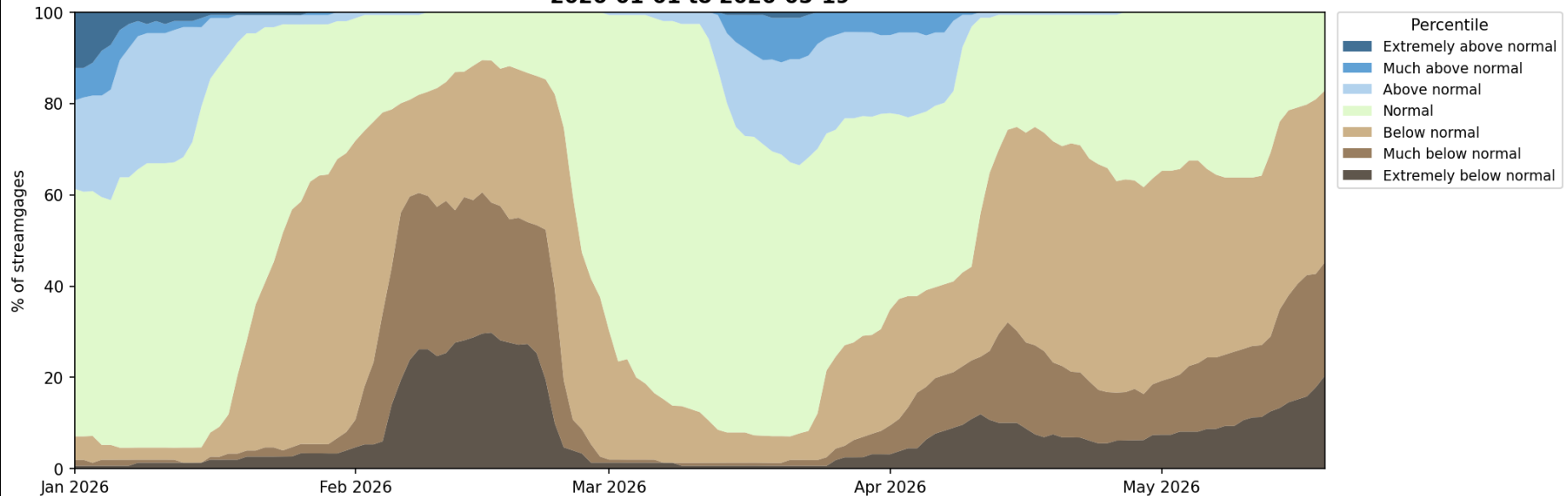
4/15/2026

Streamflow Conditions

28-day Average Streamflow
(as compared to Historical Record)

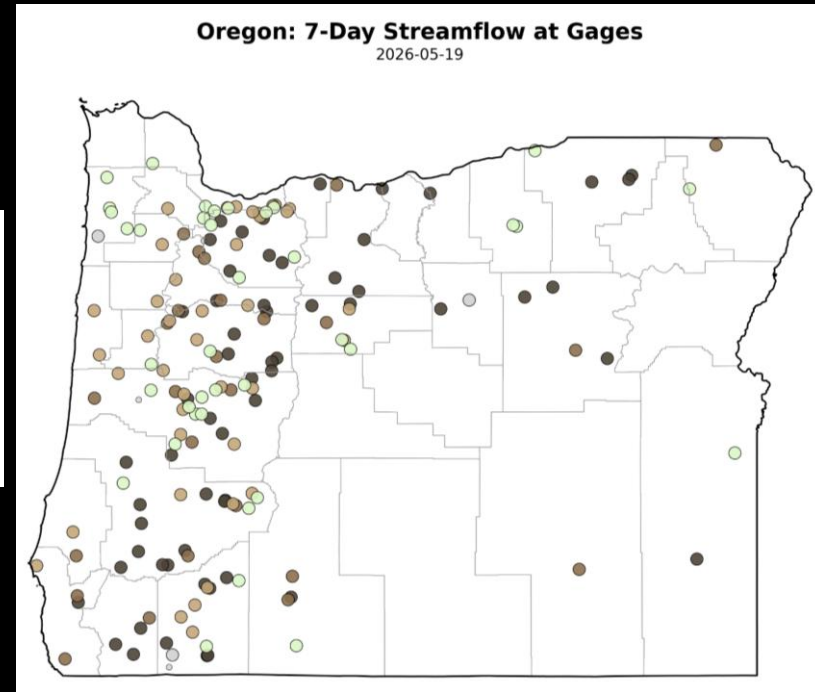
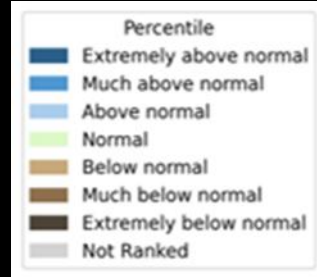


Oregon: 28-Day Streamflow Conditions
2026-01-01 to 2026-05-19

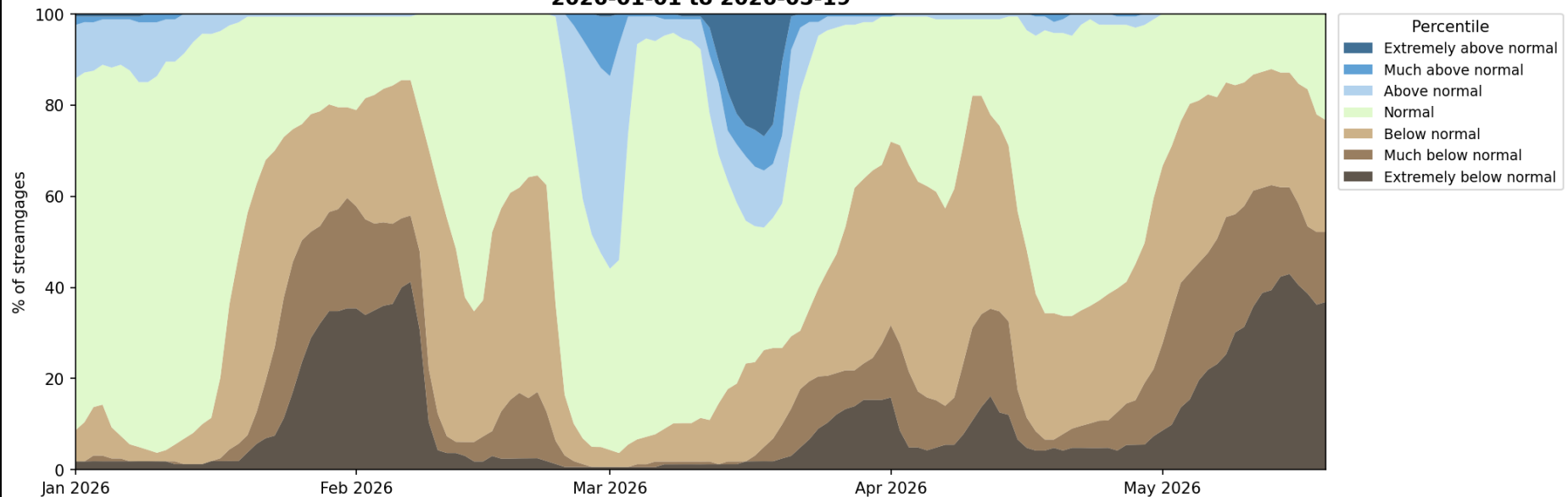


Streamflow Conditions

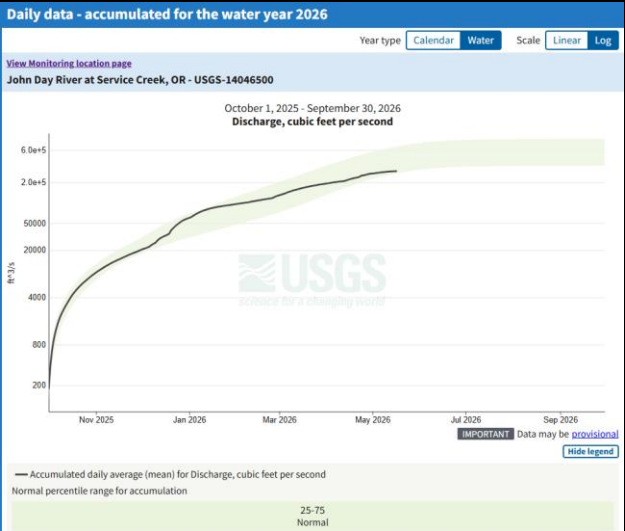
7-day Average Streamflow
(as compared to Historical Record)



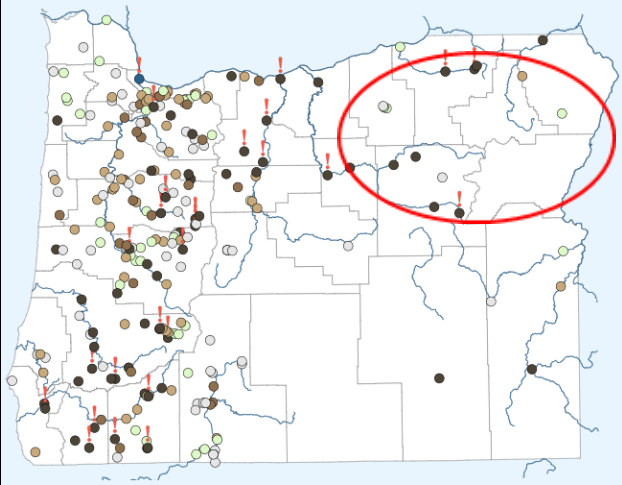
Oregon: 7-Day Streamflow Conditions
2026-01-01 to 2026-05-19



Northeastern OR

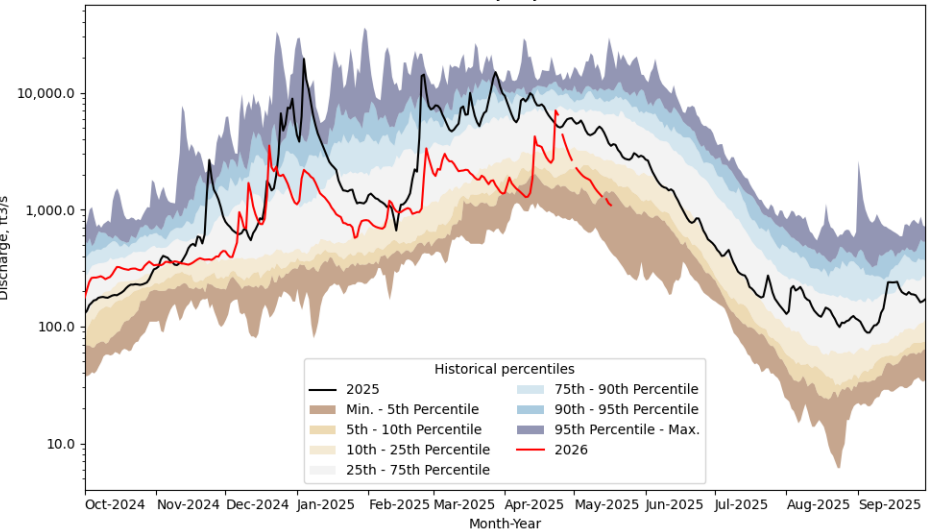


John Day River at Service Creek, OR

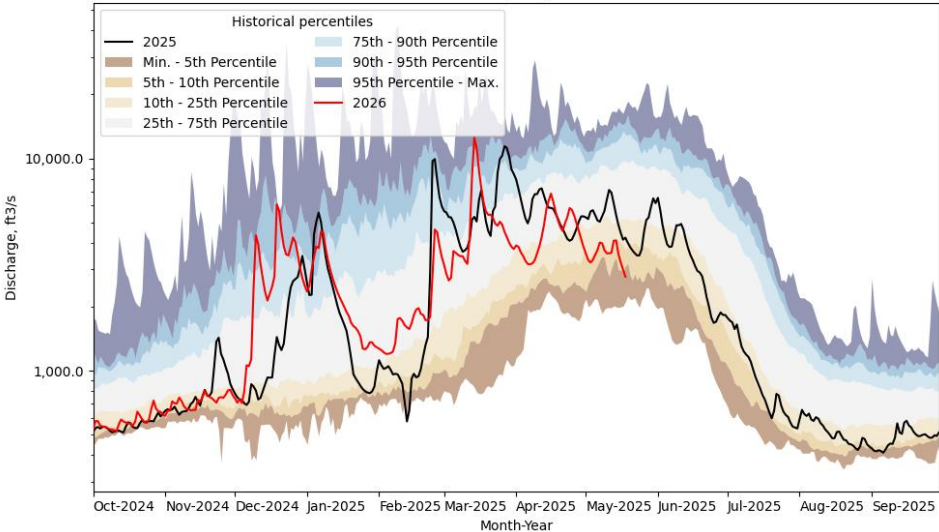


Grande Ronde River at Troy, OR

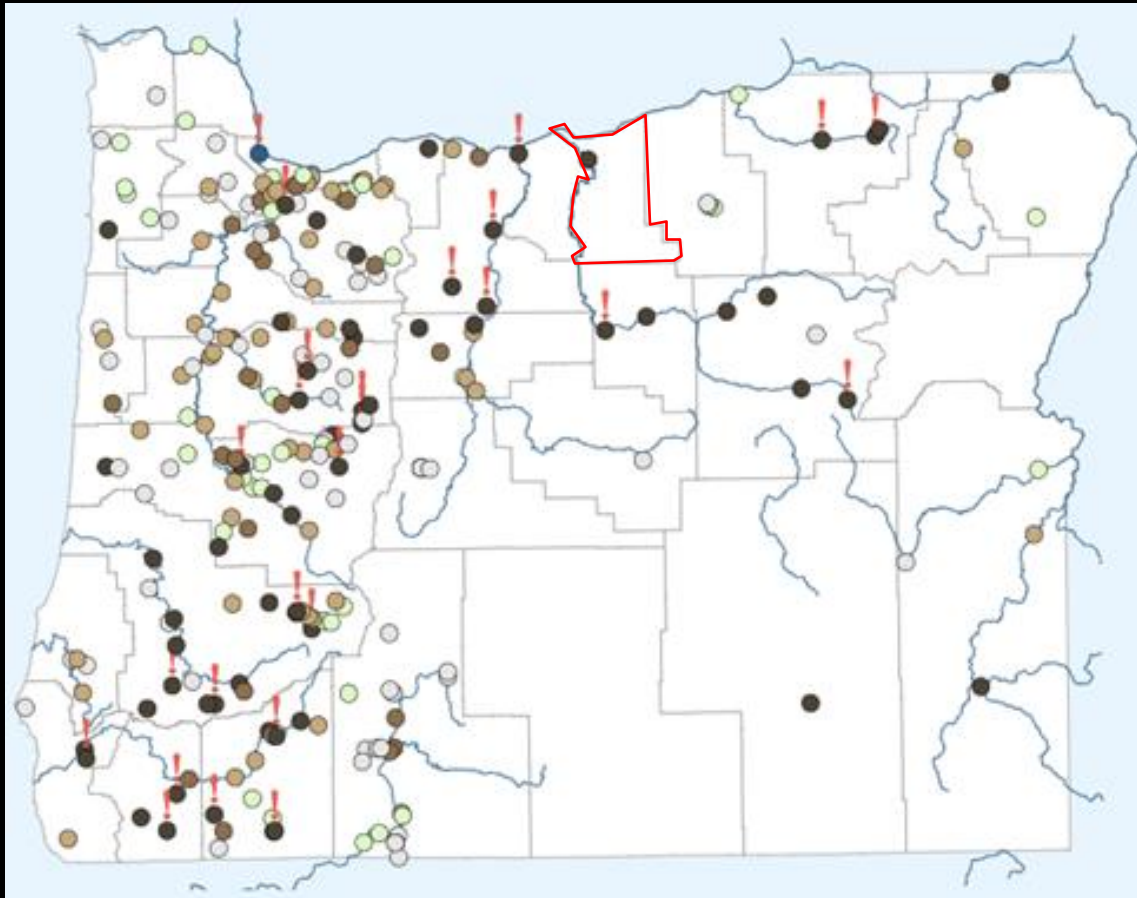
Percentiles of Streamflow by Day of Year - Site 14046500



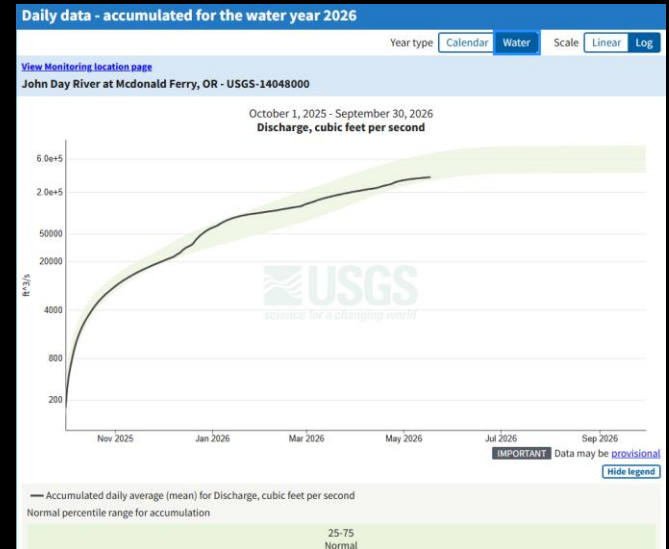
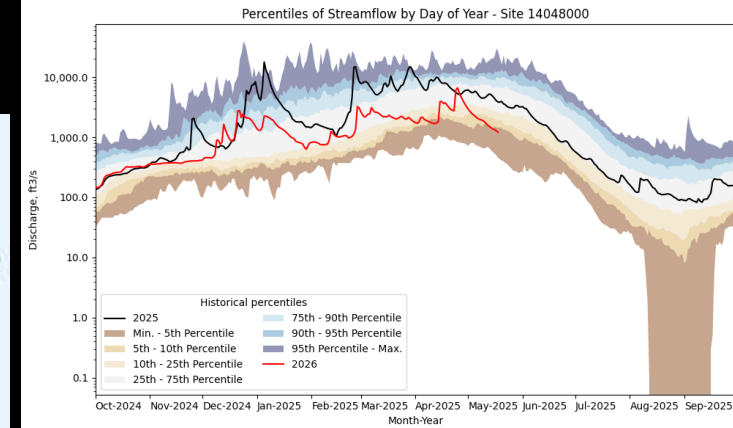
Percentiles of Streamflow by Day of Year - Site 13333000



Gilliam County



John Day River at McDonald Ferry, OR



0-5
Extremely below

5-10
Much below

10-25
Below normal

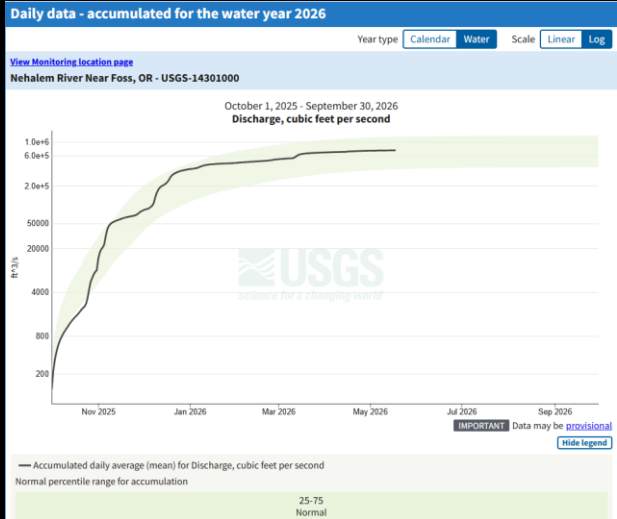
25-75
Normal

75-90
Above normal

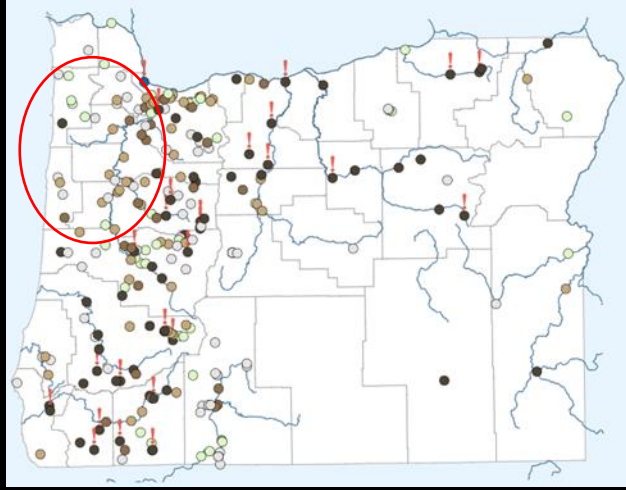
90-95
Much above

95-100
Extremely above

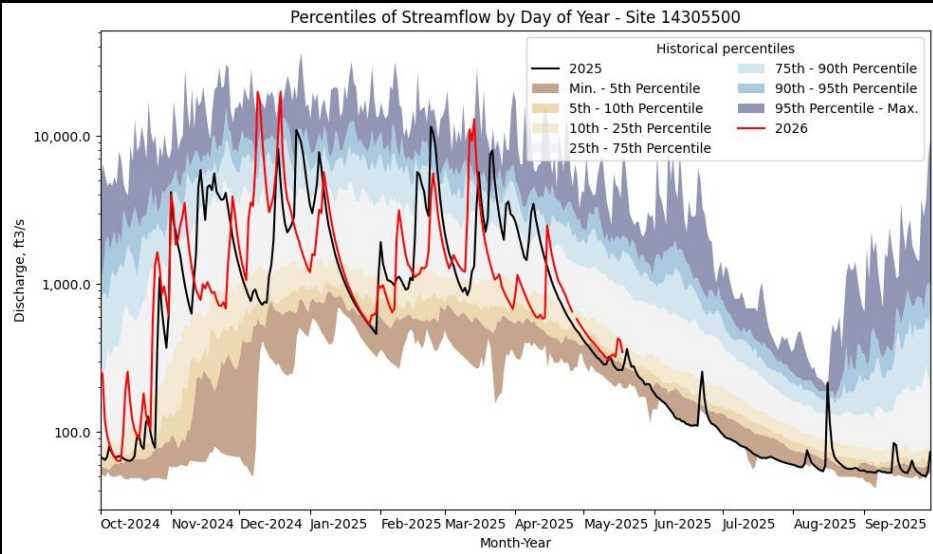
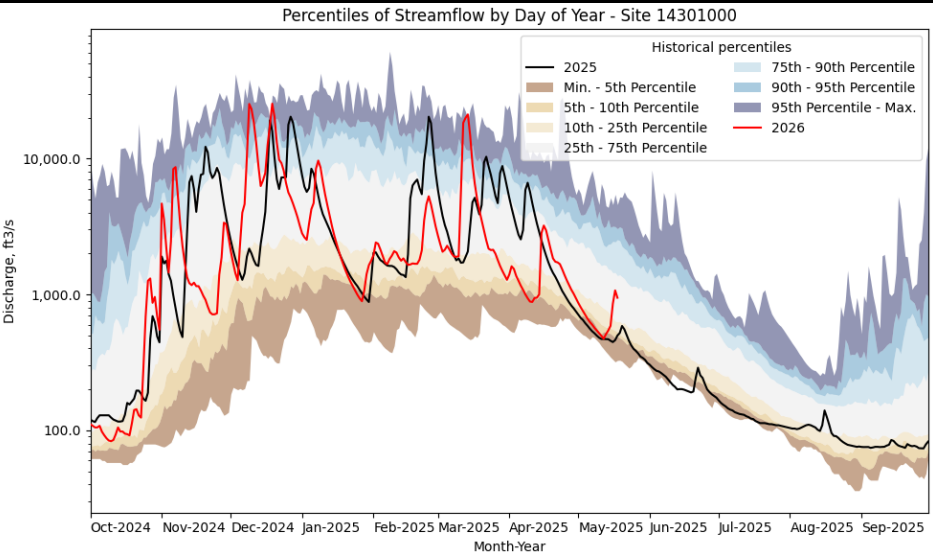
Northwestern OR



Nehalem River Near Foss, OR

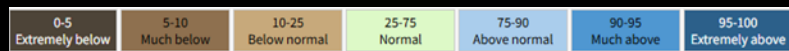
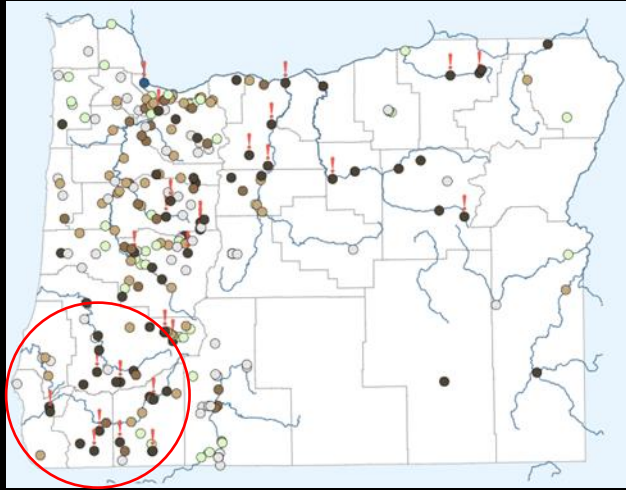
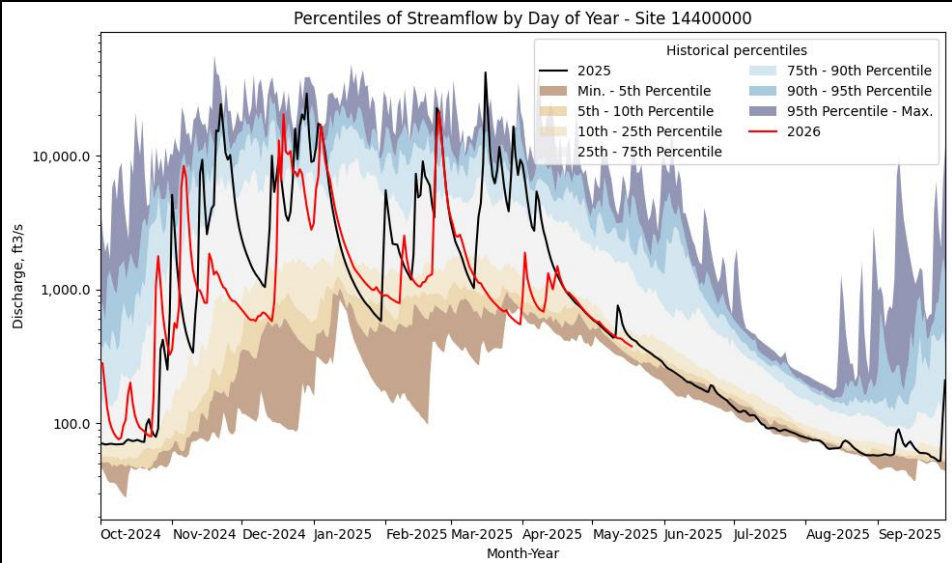


Siletz River at Siletz, OR

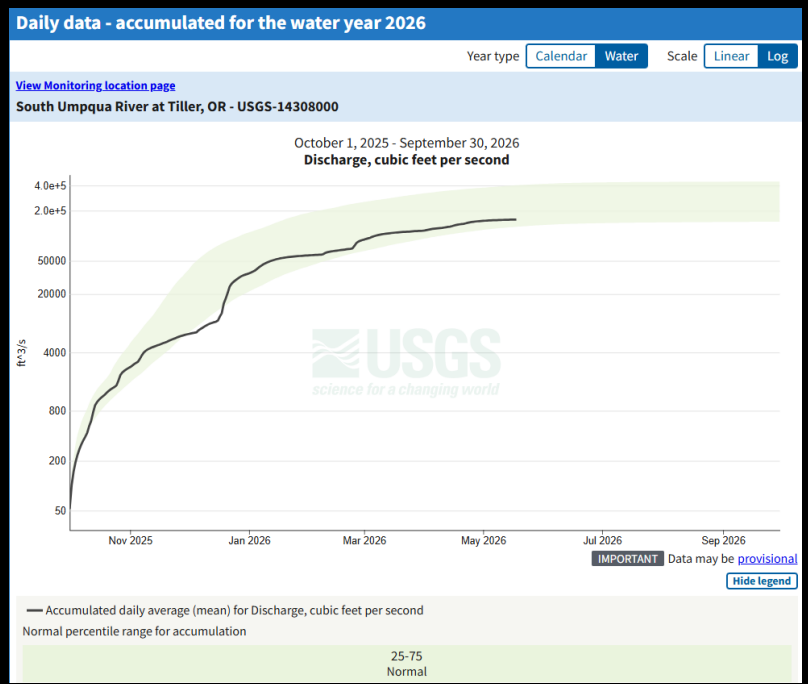
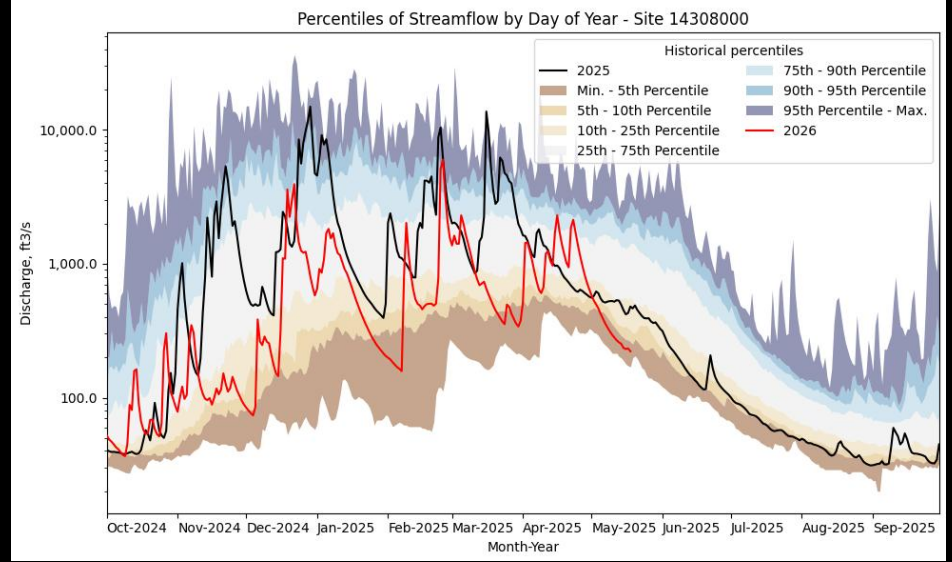


Southwestern OR

Chetco River Near Brookings, OR

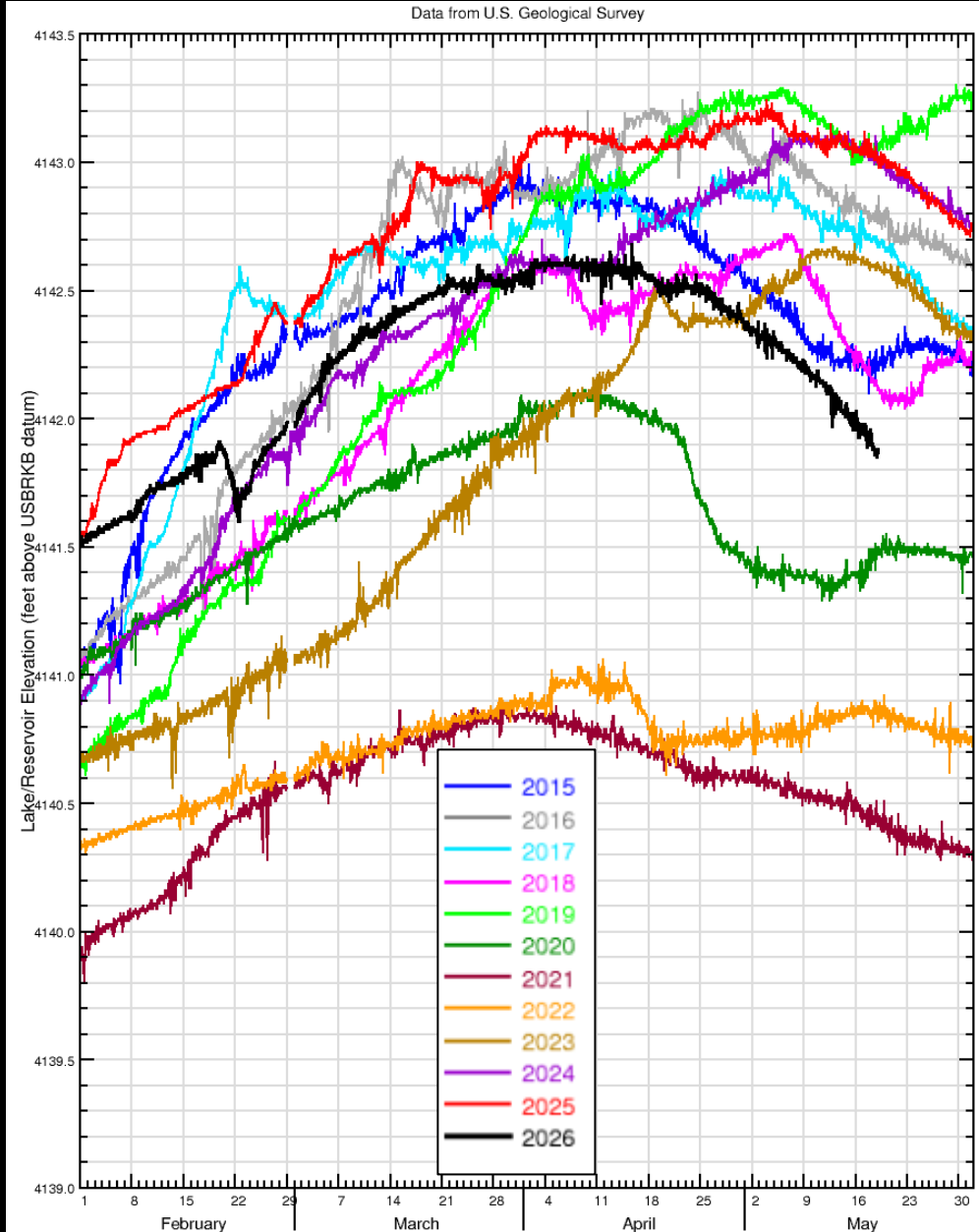


South Umpqua River at Tiller, OR



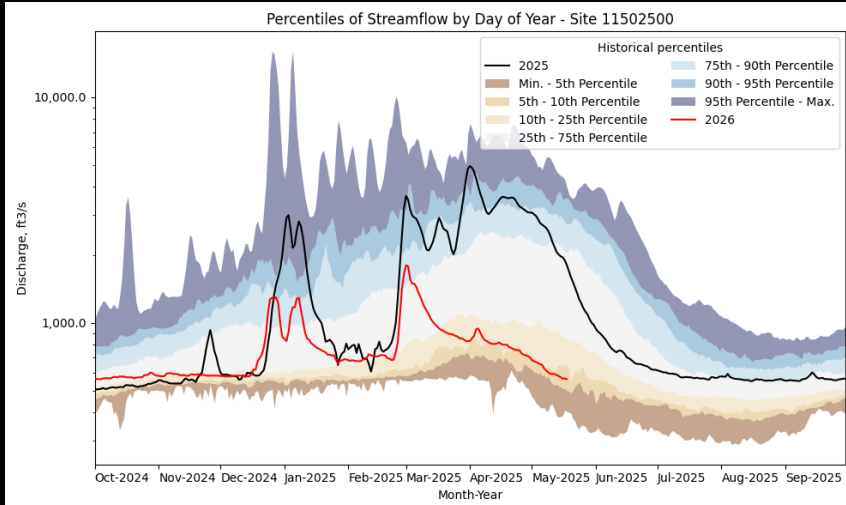
Upper Klamath Lake nr Klamath Falls, OR

[weighted/mean]

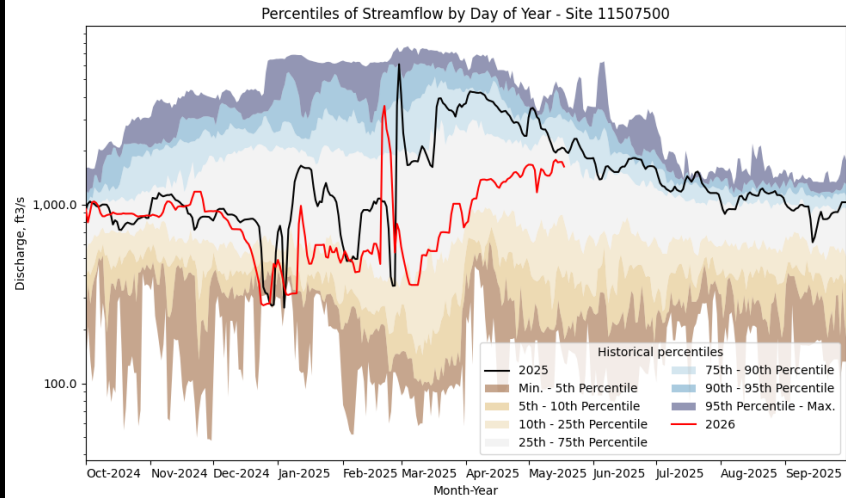


Klamath

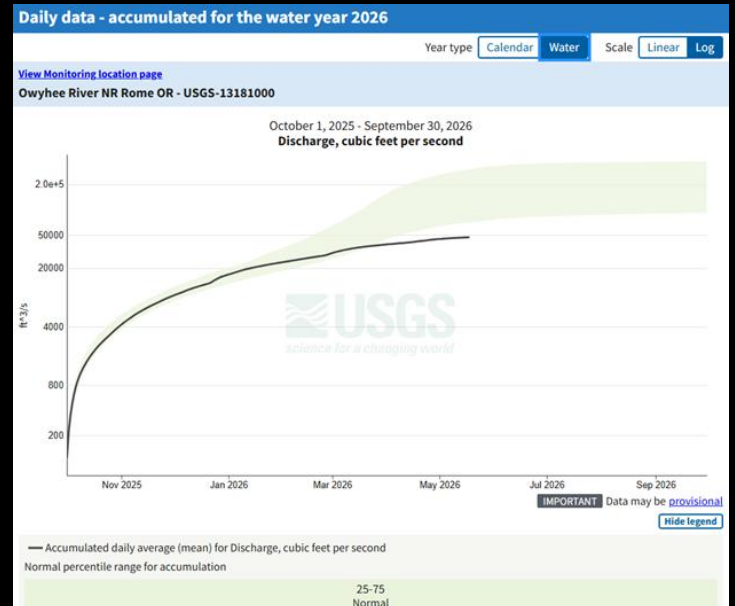
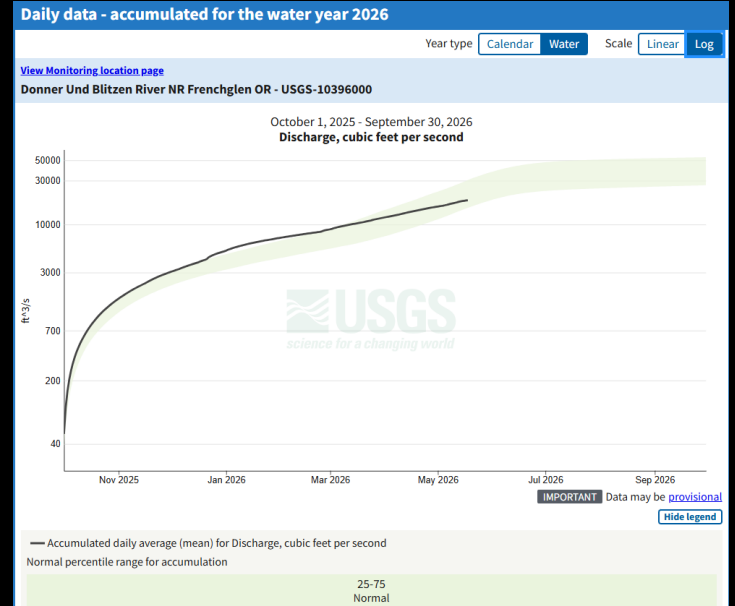
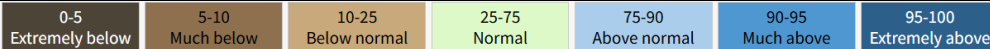
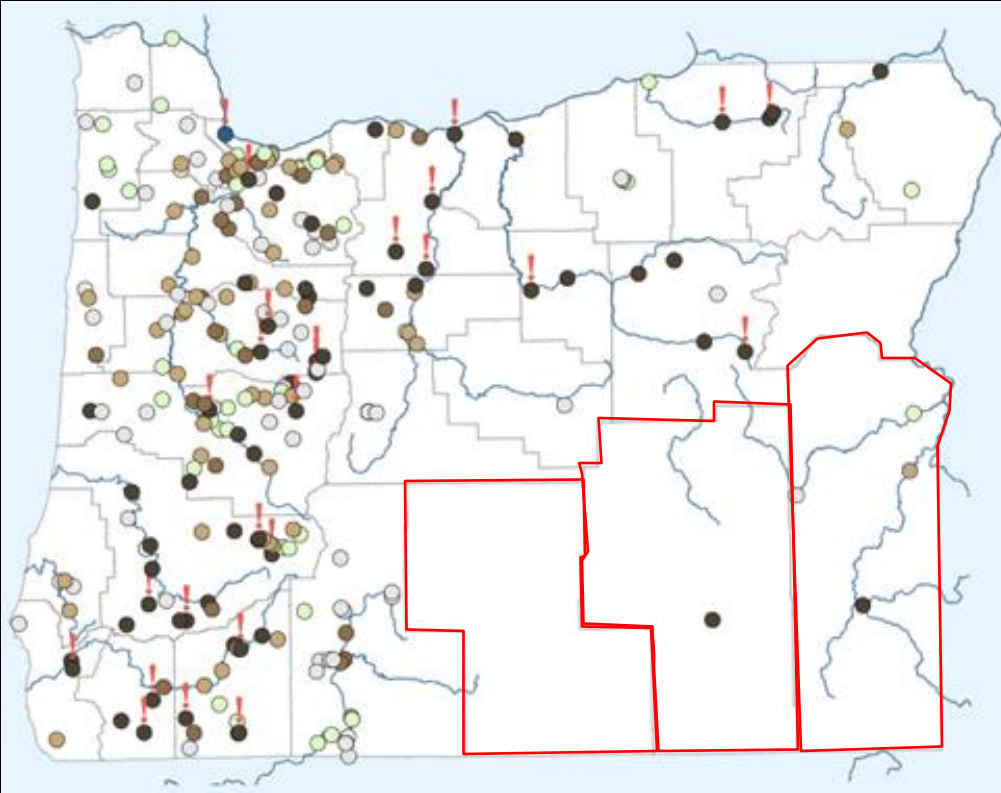
Williamson R Blw Sprague R Nr Chiloquin, OR



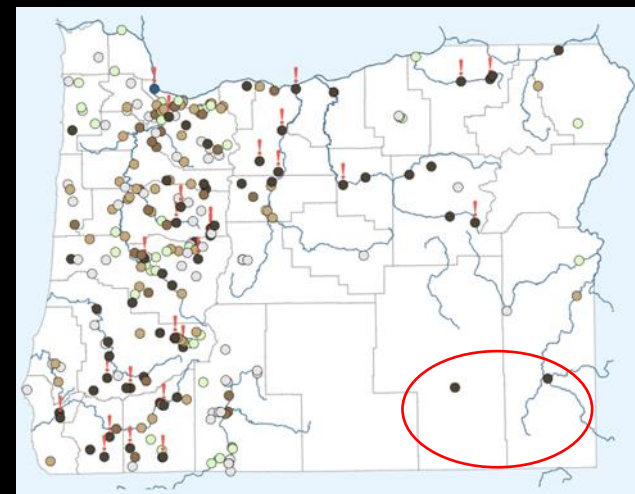
Link River at Klamath Falls, OR



Lake, Harney, and Malheur Counties

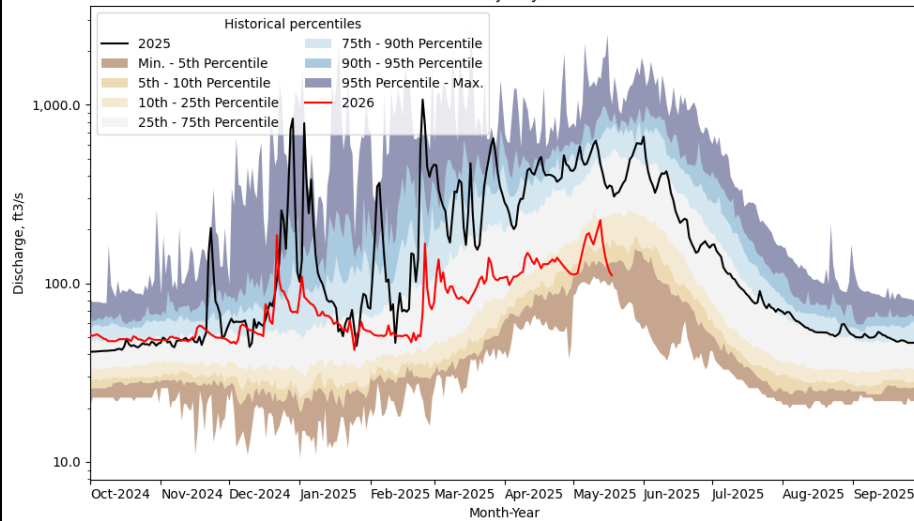


Southeastern OR



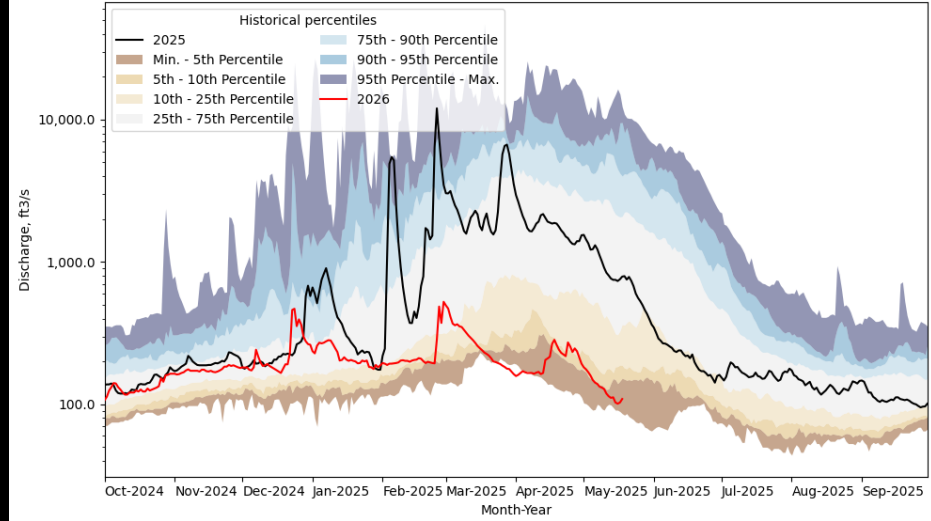
Donner und Blitzen Nr Frenchglen, OR

Percentiles of Streamflow by Day of Year - Site 10396000



Owyhee River Nr Rome, OR

Percentiles of Streamflow by Day of Year - Site 13181000



OREGON



WATER RESOURCES
DEPARTMENT

Water Supply Availability Committee Oregon Water Resources Department

Cameron Greenwood
May 20, 2026

April % of Average Streamflow - WY 2026

POR: 1991-2020

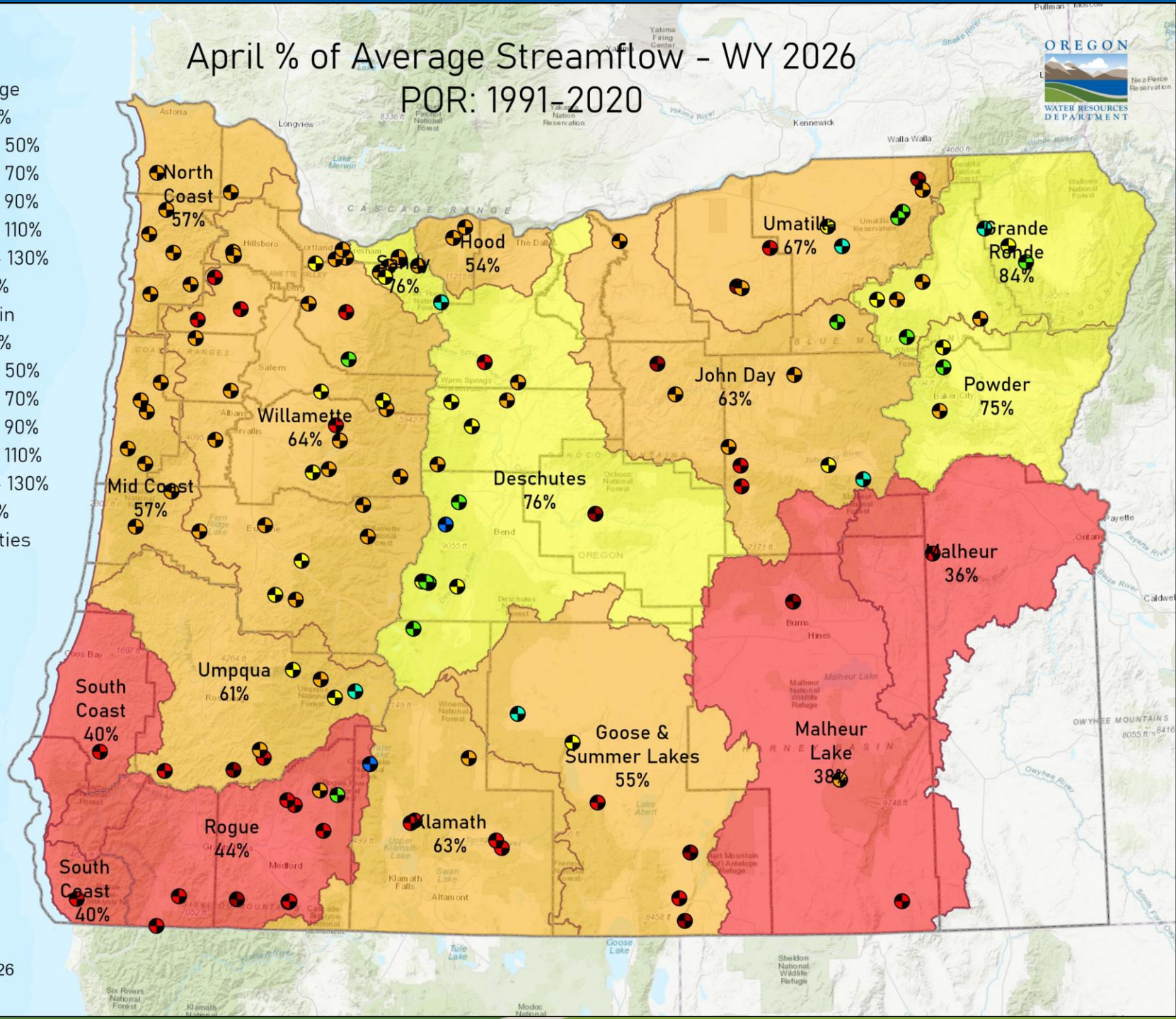


Stream Gage

- ≤ 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



Date: 5/4/2026

Water Year To Date % of Average Streamflow - May 19, 2026

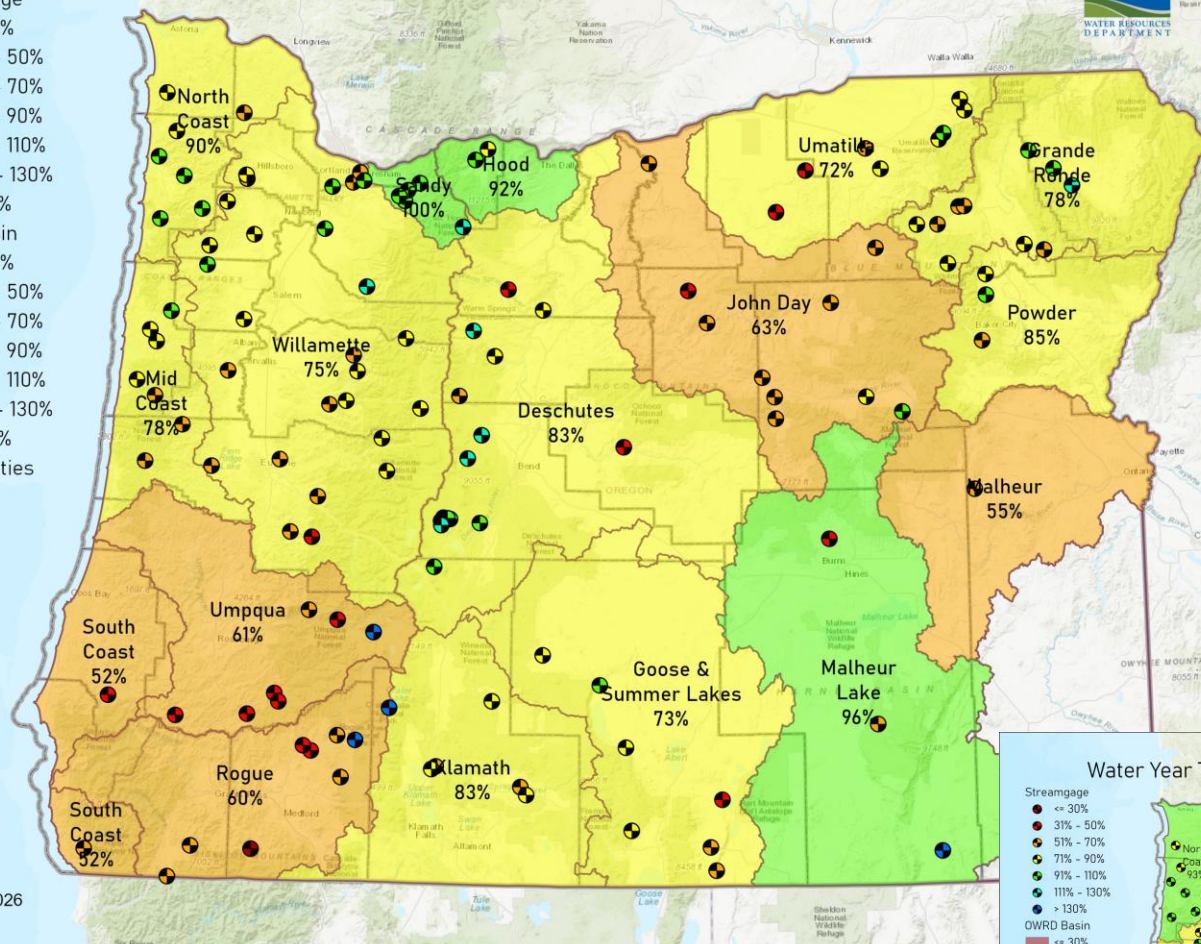


Stream Gage

- ≤ 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

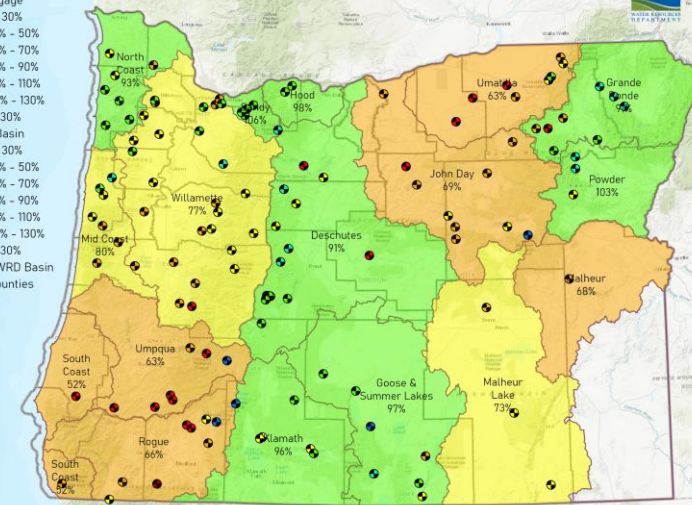


Date: 5/20/2026

Water Year To Date % of Average Streamflow - April 14, 2026



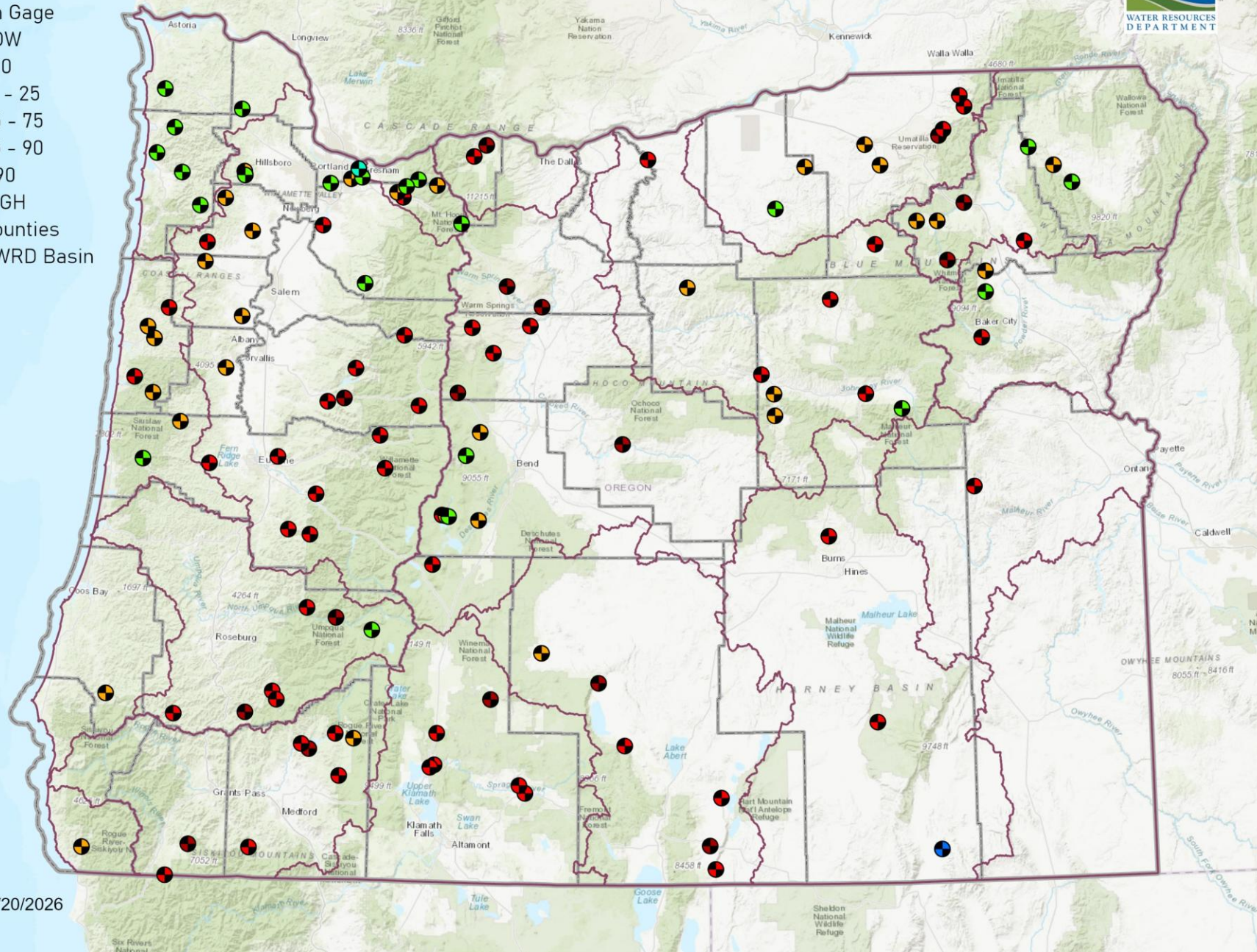
- ≤ 30%
 - 31% - 50%
 - 51% - 70%
 - 71% - 90%
 - 91% - 110%
 - 111% - 130%
 - > 130%
- OWRD Basin
- ≤ 30%
 - 31% - 50%
 - 51% - 70%
 - 71% - 90%
 - 91% - 110%
 - 111% - 130%
 - > 130%
 - OWRD Basin
 - Counties



Date: 4/15/2026

OREGON
WATER RESOURCE
DEPARTMENT

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



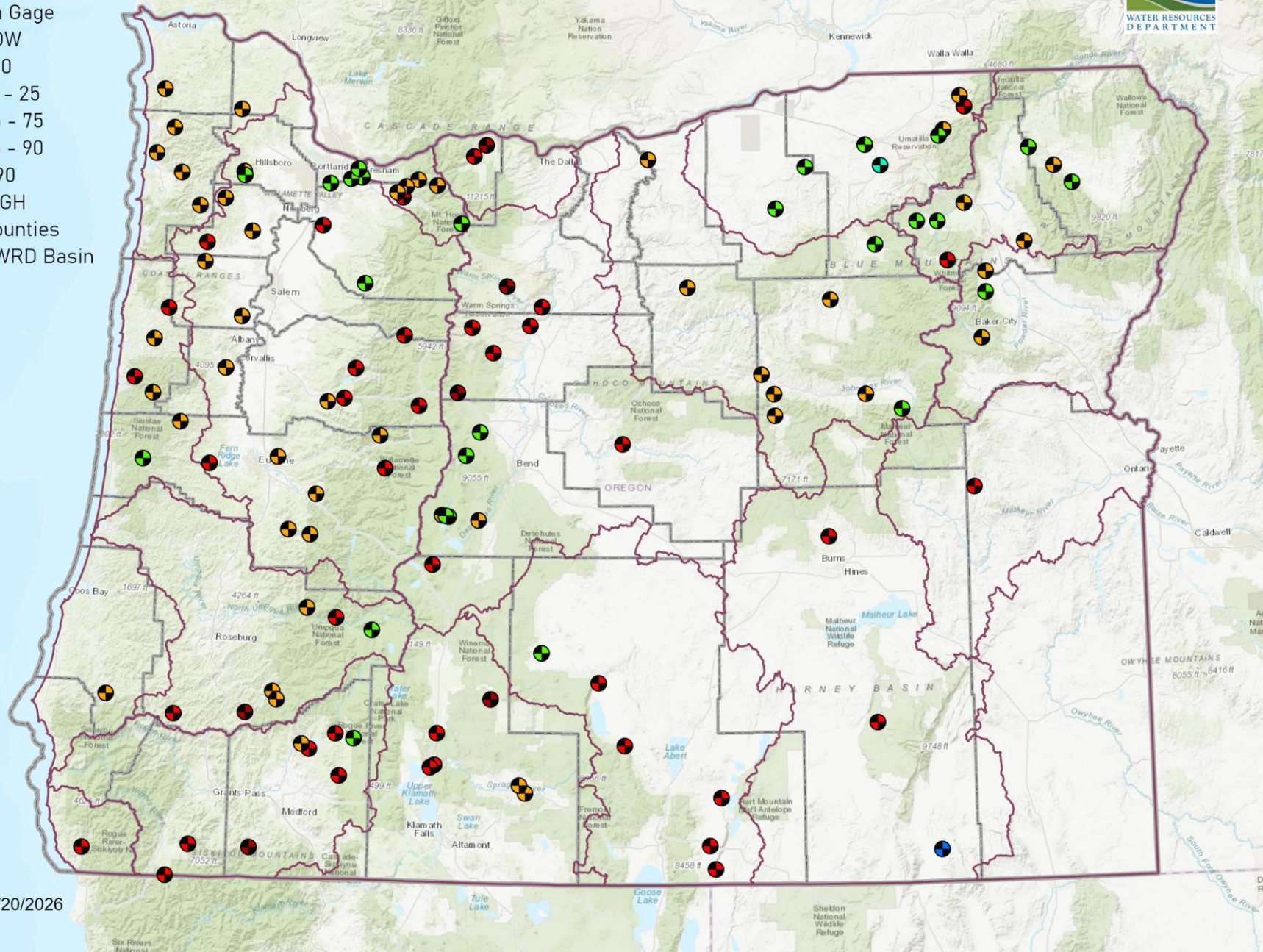
Date: 5/20/2026

28-Day Streamflow Percentile - May 18, 2026



Stream Gauge

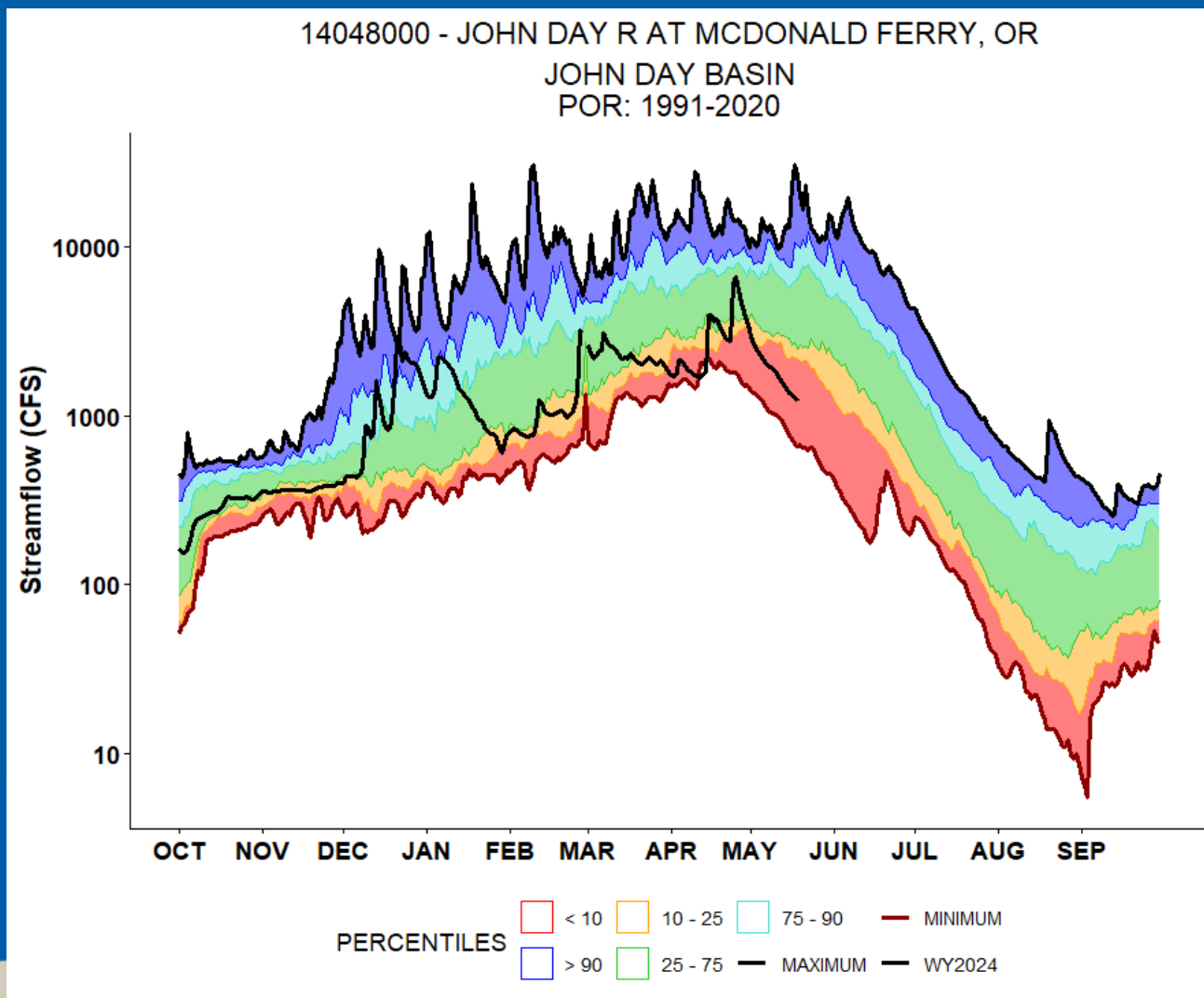
- LOW
- < 10
- 10 - 25
- 25 - 75
- 75 - 90
- > 90
- HIGH
- Counties
- OWRD Basin



Date: 5/20/2026

Gilliam County

WYTD % Avg : 57%

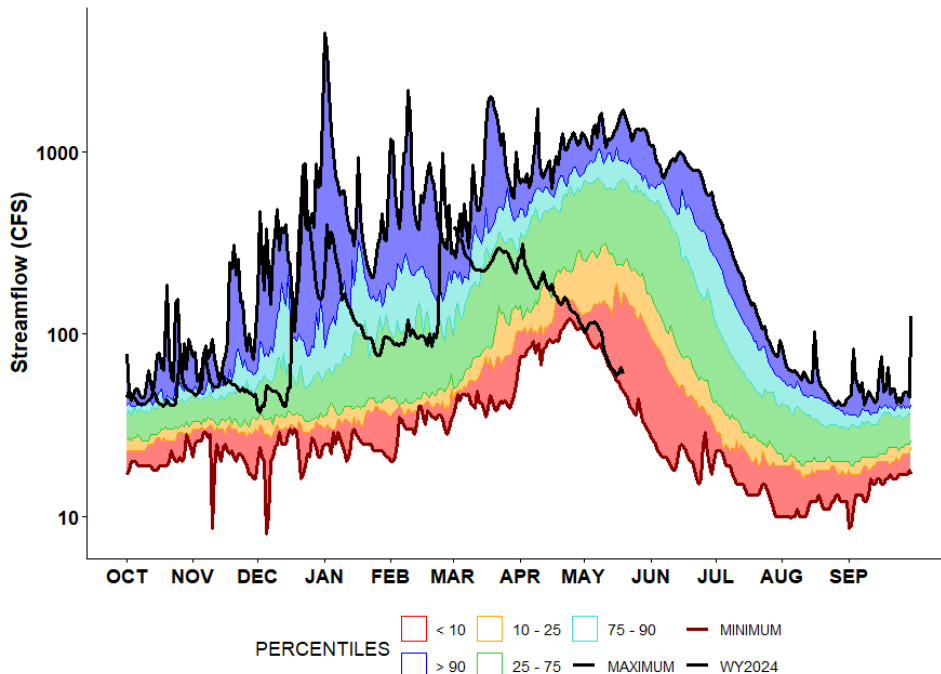


Lake County

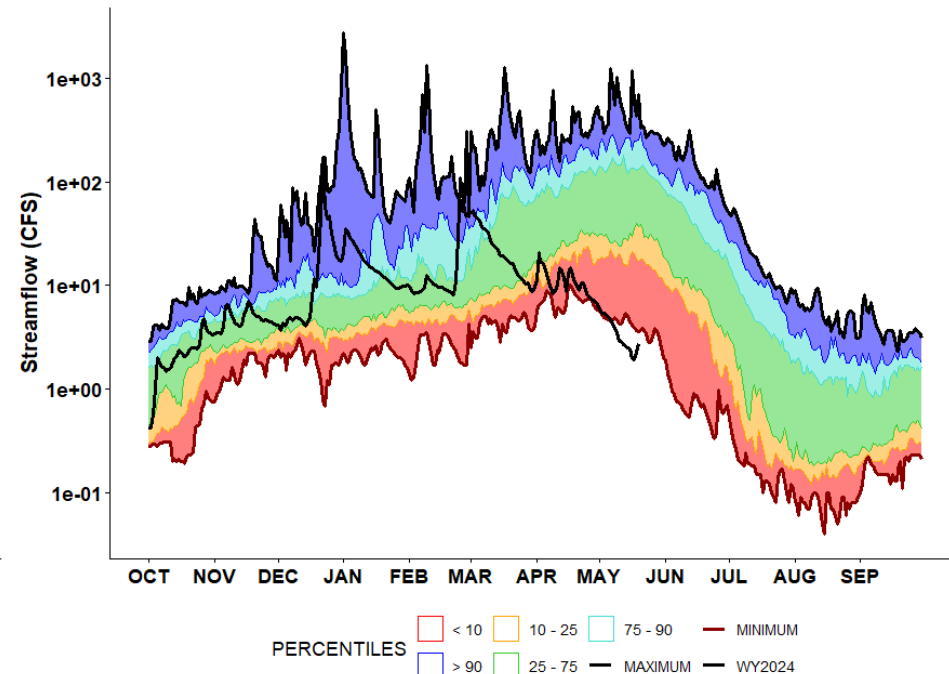
WYTD % Avg : 73%



10384000 - CHEWAUCAN R NR PAISLEY, OR
GOOSE AND SUMMER LAKES BASIN
POR: 1991-2020



10378500 - HONEY CR NR PLUSH, OR
GOOSE AND SUMMER LAKES BASIN
POR: 1991-2020

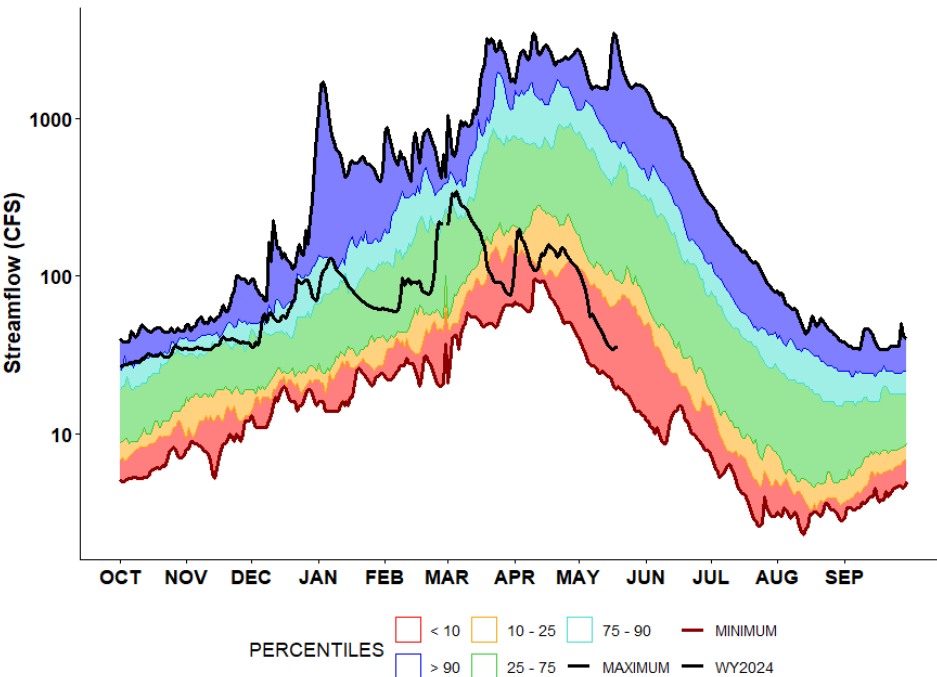


Harney County

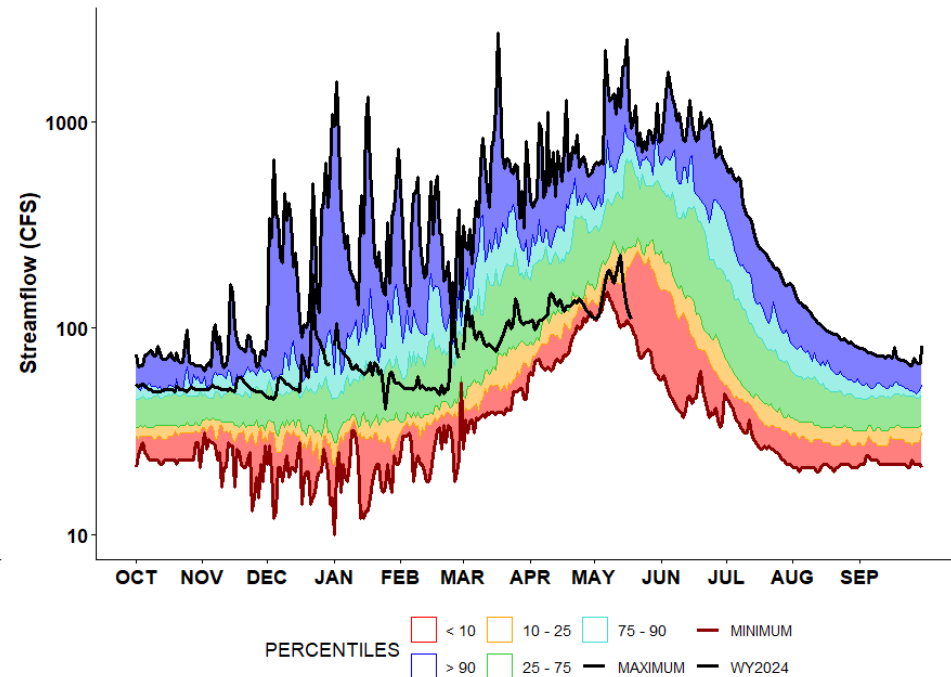
WYTD % Avg : 96%



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

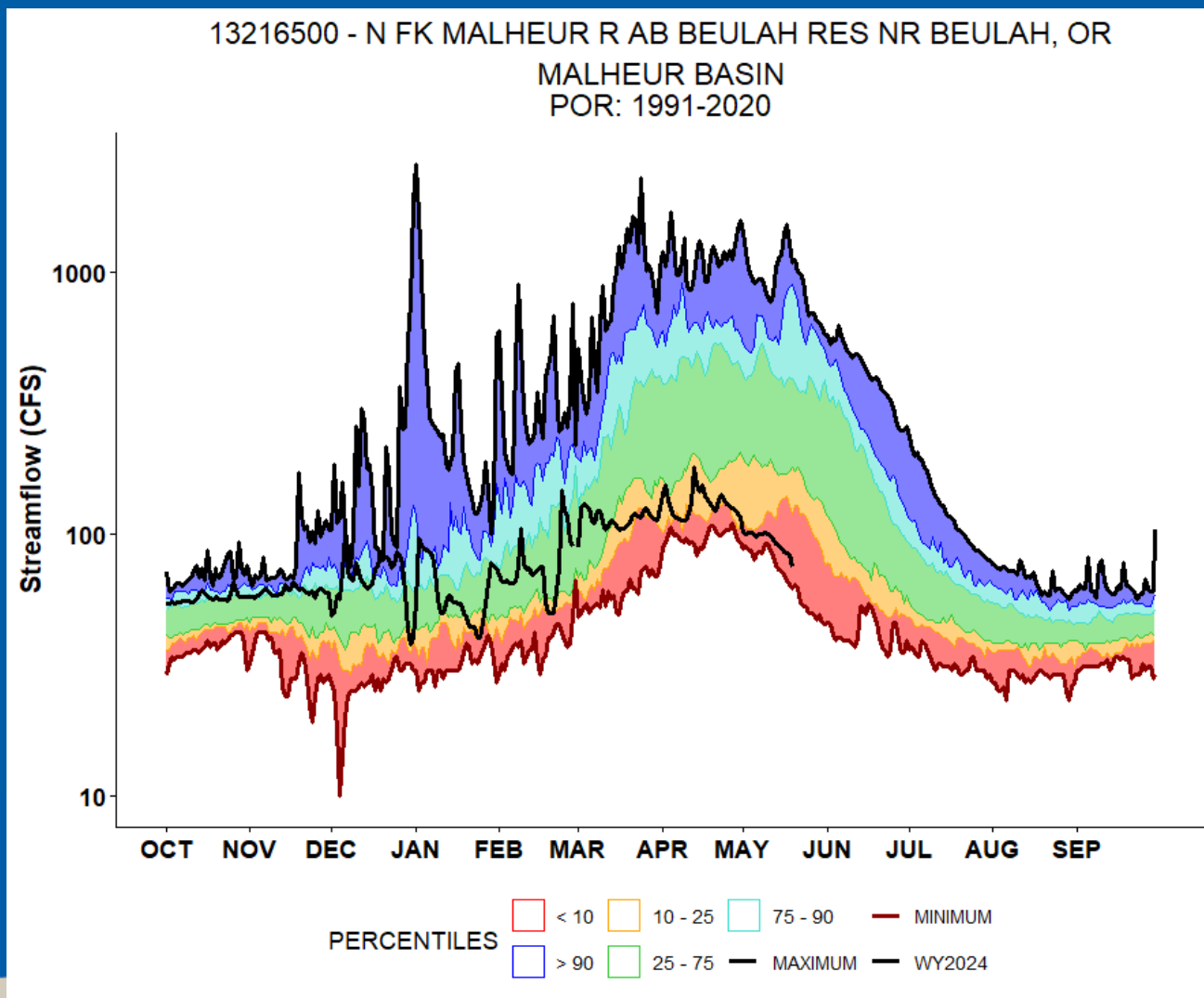


10396000 - DONNER UND BLITZEN R NR FRENCHGLEN, OR
MALHEUR LAKES BASIN
POR: 1991-2020



Malheur County

WYTD % Avg : 55%



OREGON



WATER RESOURCES
DEPARTMENT

Thank you!

Questions?



— BUREAU OF —
RECLAMATION



Reclamation Storage Update

Oregon Water Supply Availability Committee Meeting
May 20, 2026

Basin Operations Summary

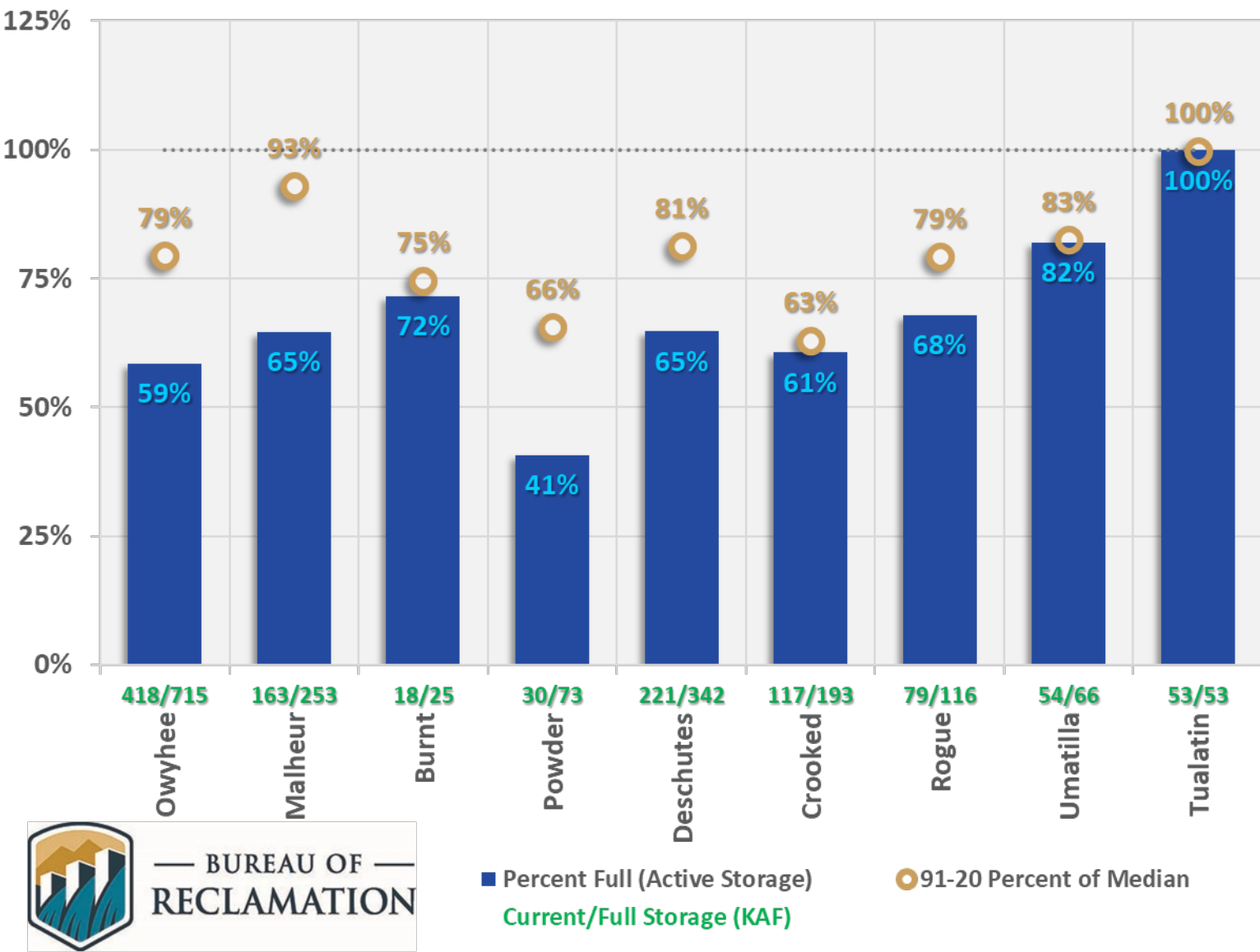
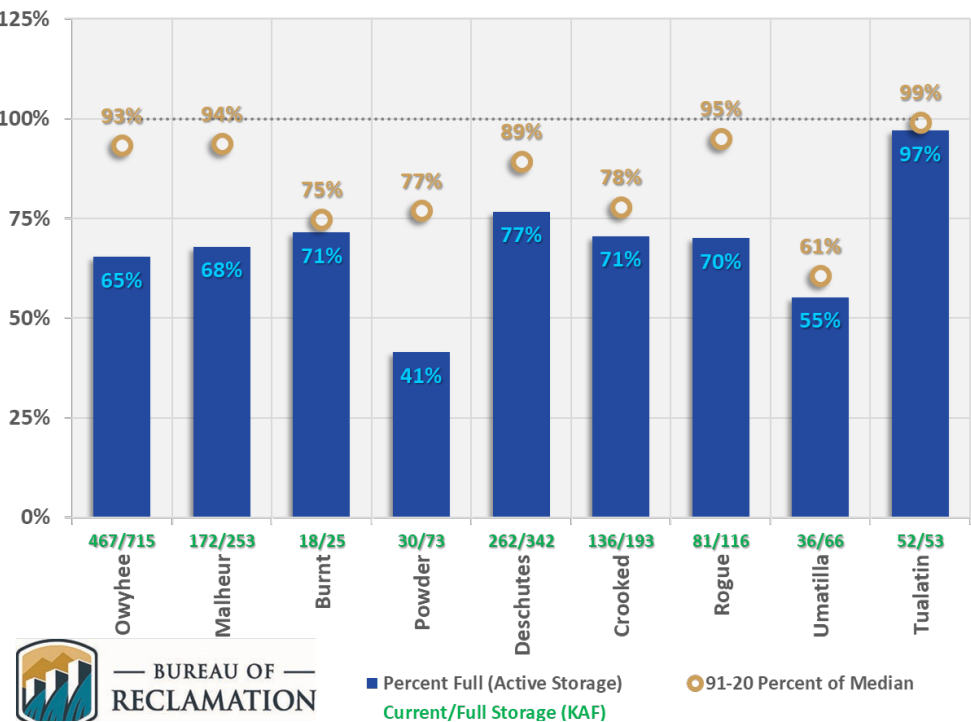
- **Operations Activities:**
 - Did not produce May water supply forecasts
 - All reservoirs have peaked and most have begun drafting to meet demand
- **Water Supply Notes**
 - Did not fill in all basins except Tualatin
 - Good carryover from WY 2025 will help provide a fairly normal irrigation season in most basins
 - Expecting very low carryover at the end of the season



Storage Conditions

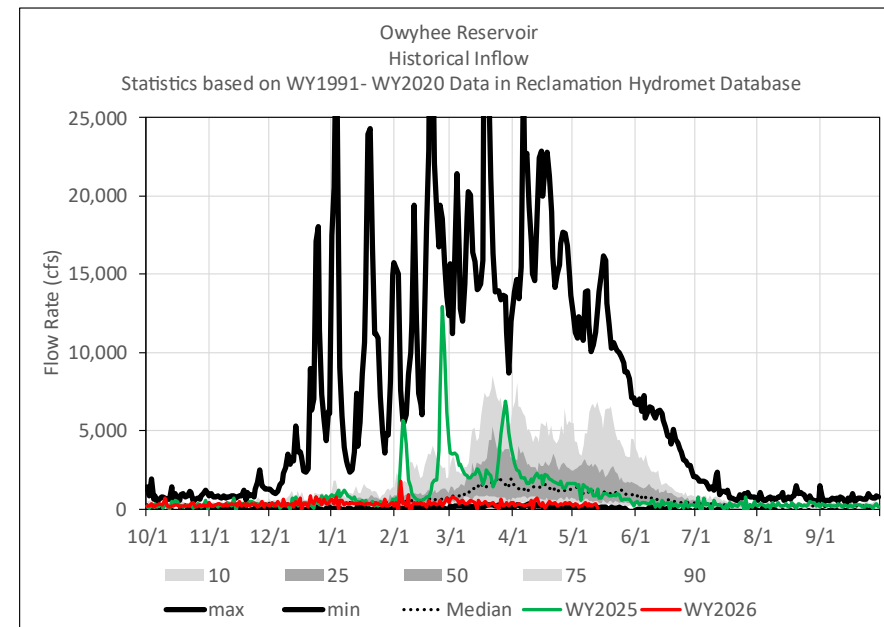
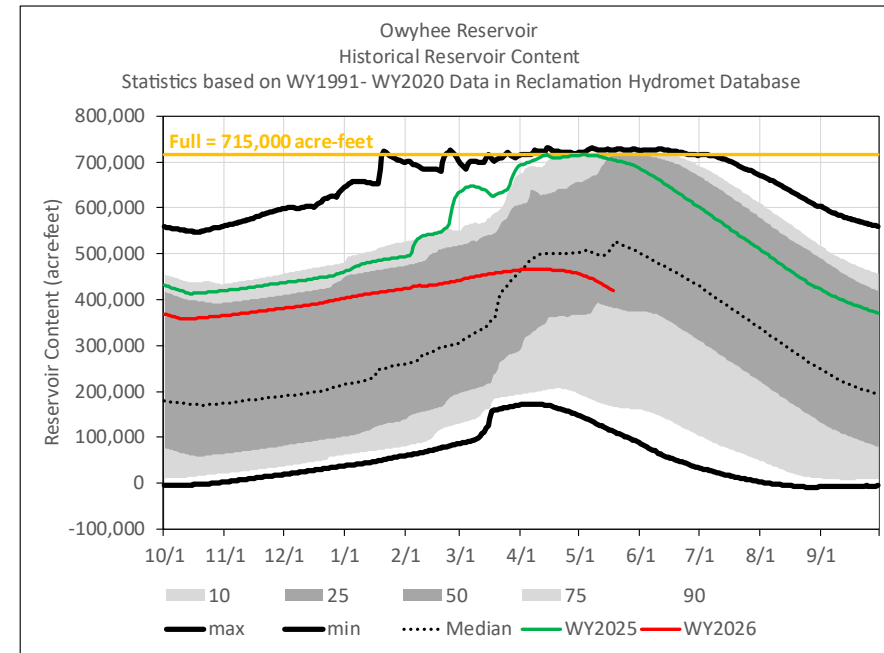
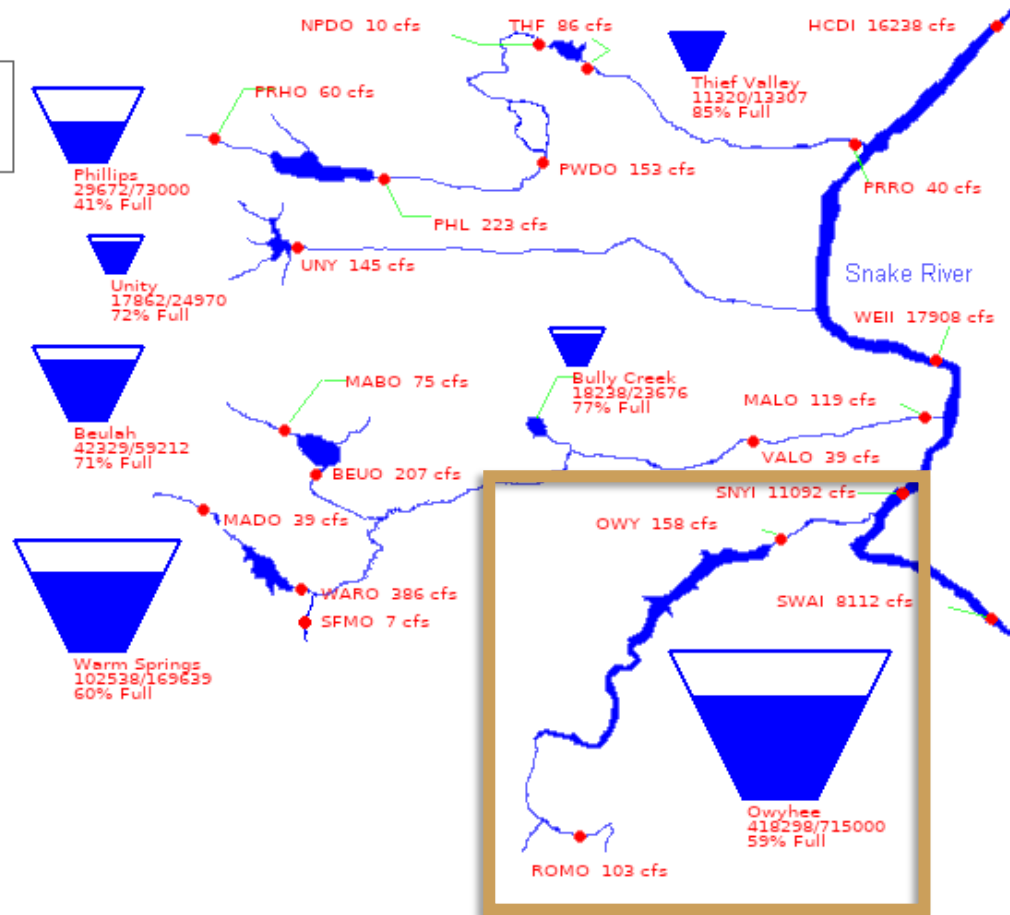
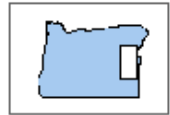
Oregon Reservoir Storage (May 19 2026)

Oregon Reservoir Storage (Apr 5 2026)



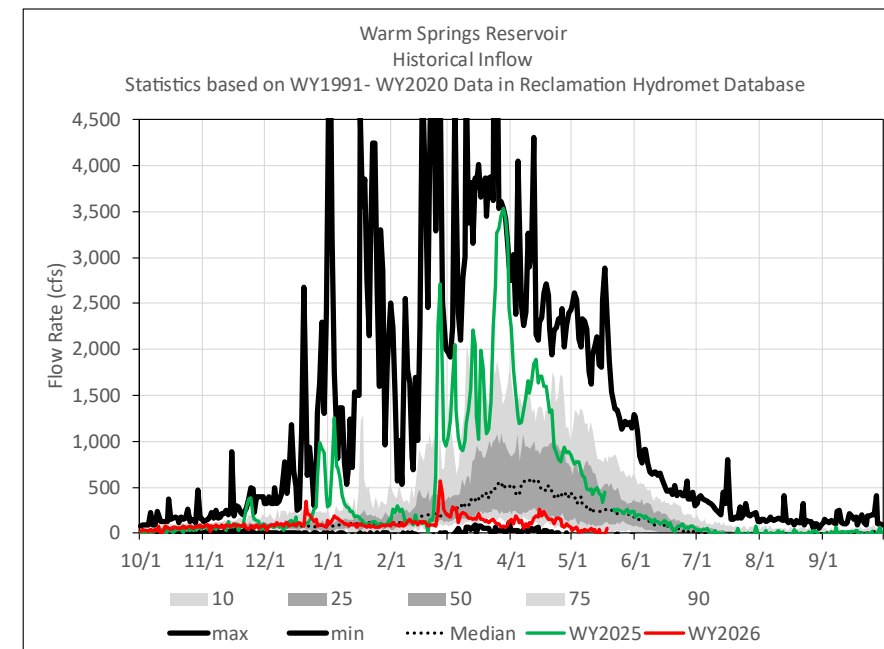
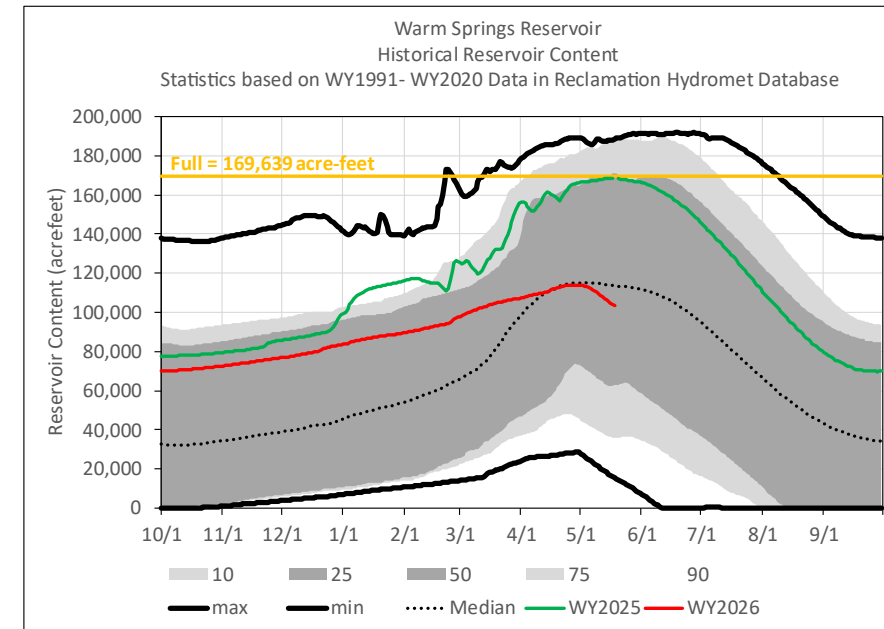
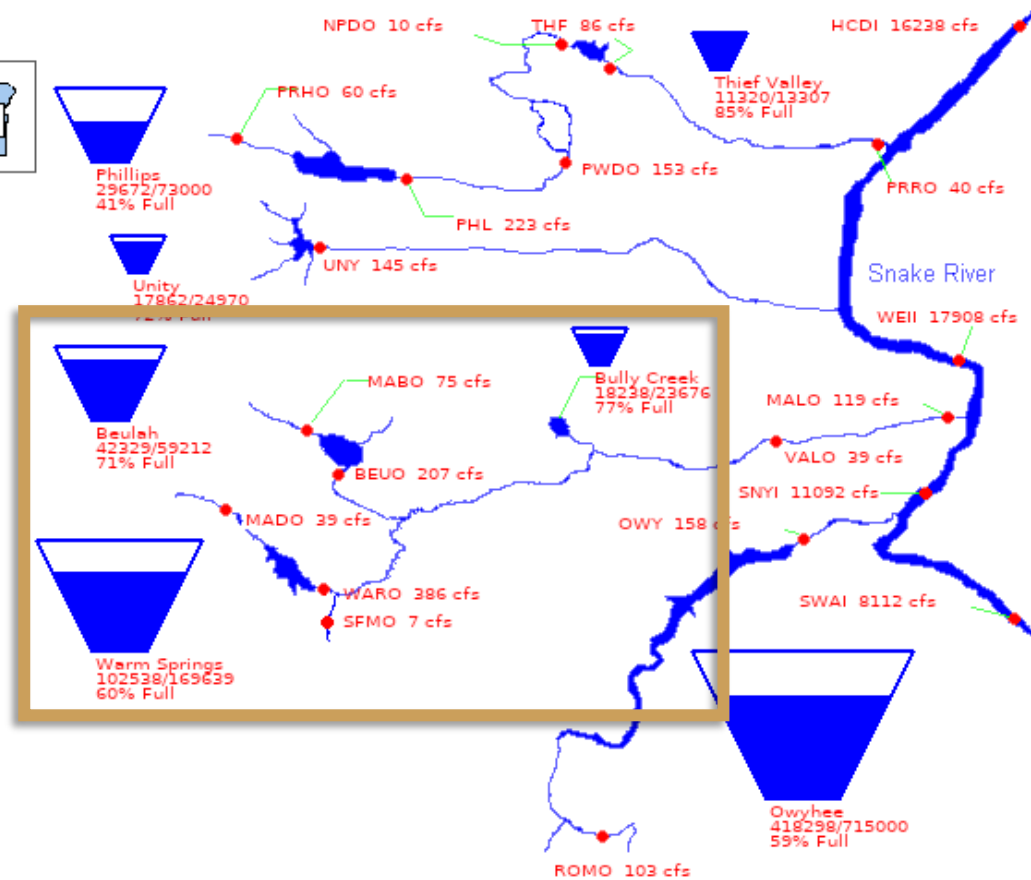
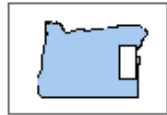
Owyhee River Basin

05/19/2026



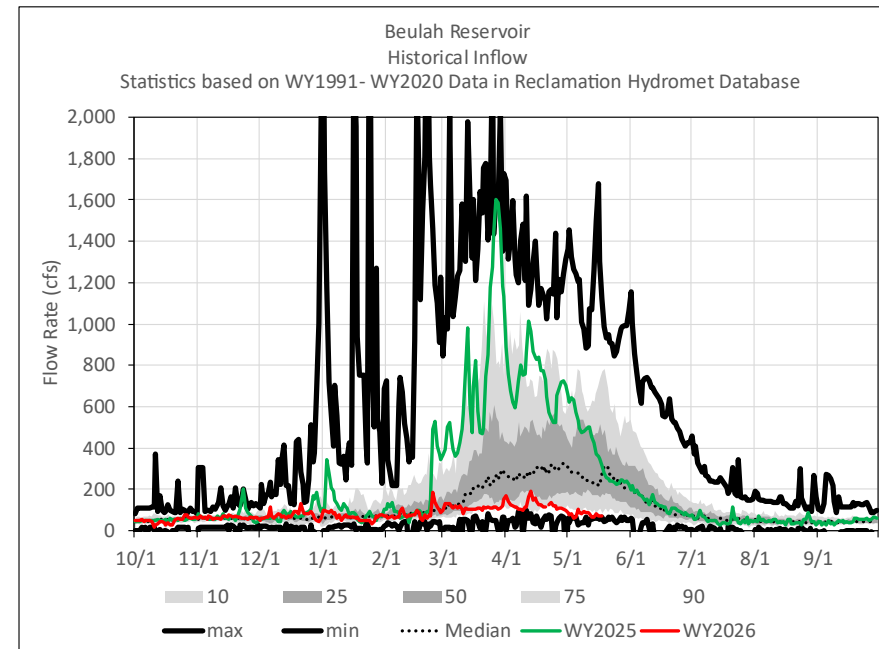
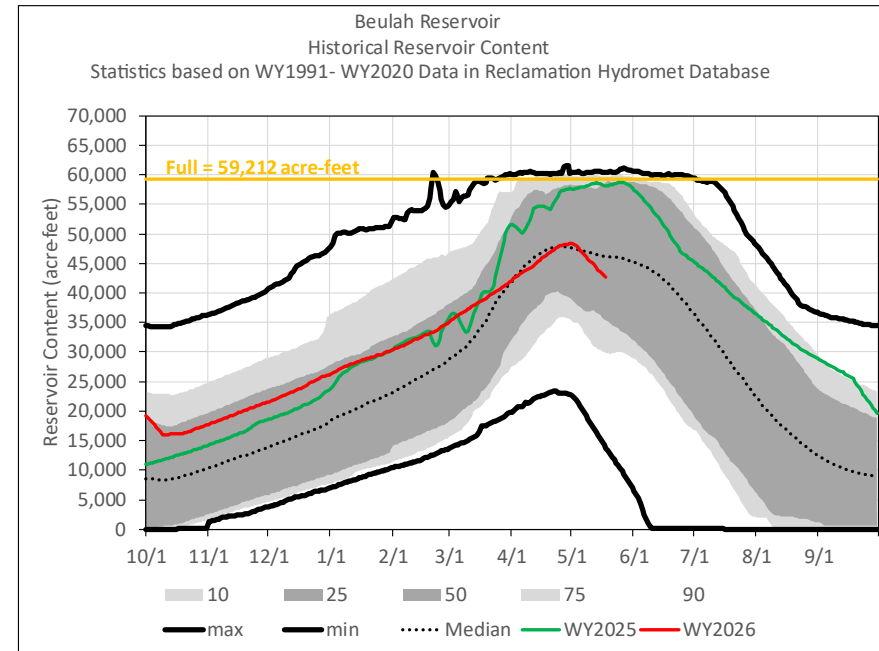
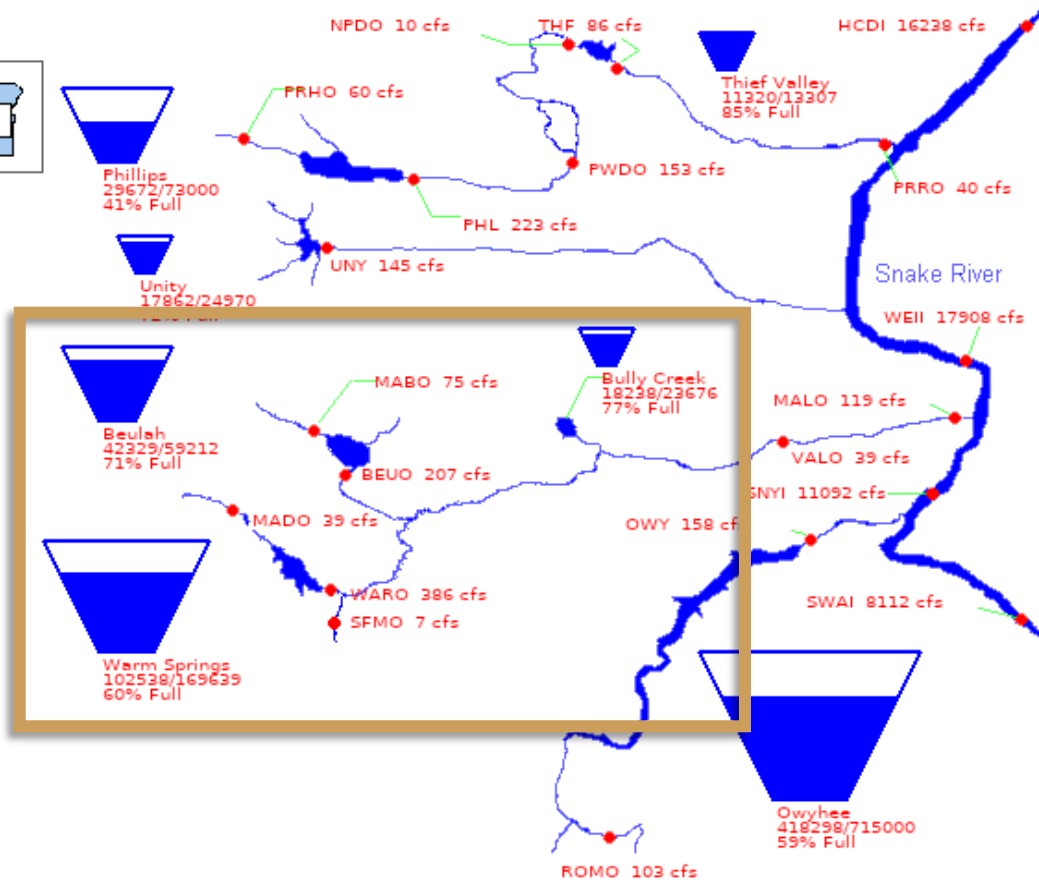
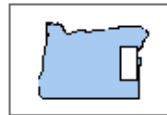
Malheur River Basin

05/19/2026



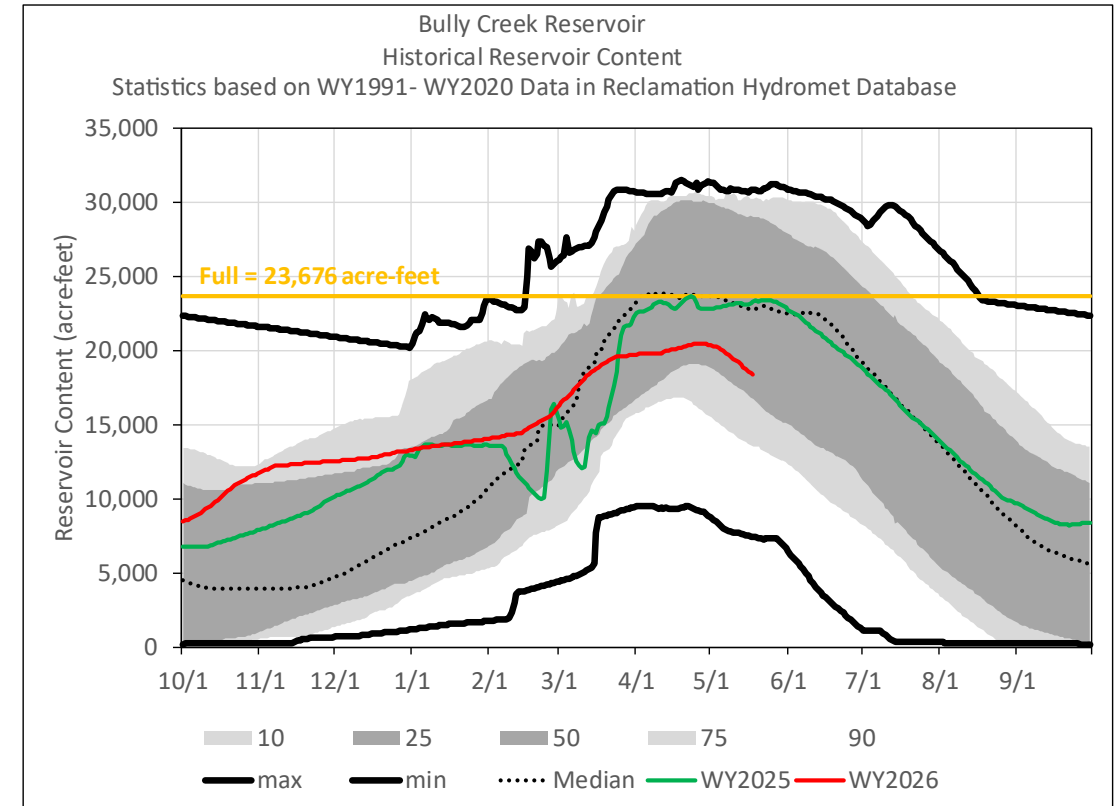
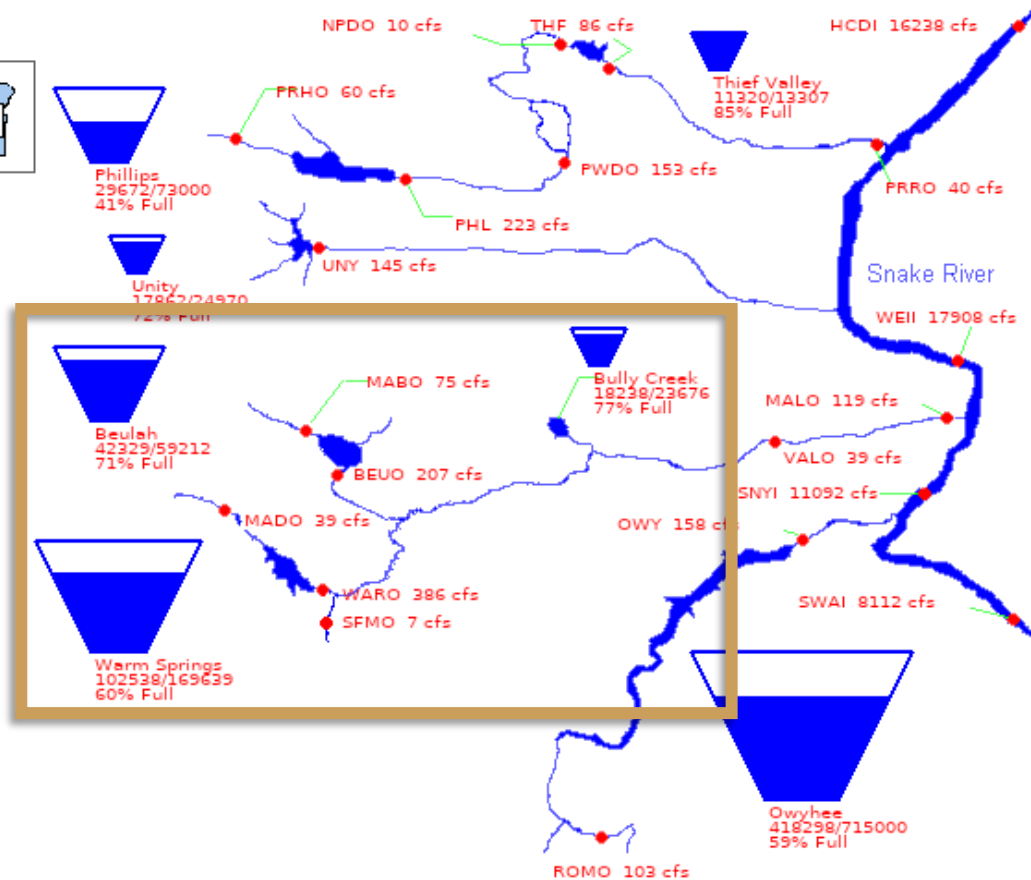
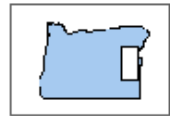
Malheur River Basin

05/19/2026



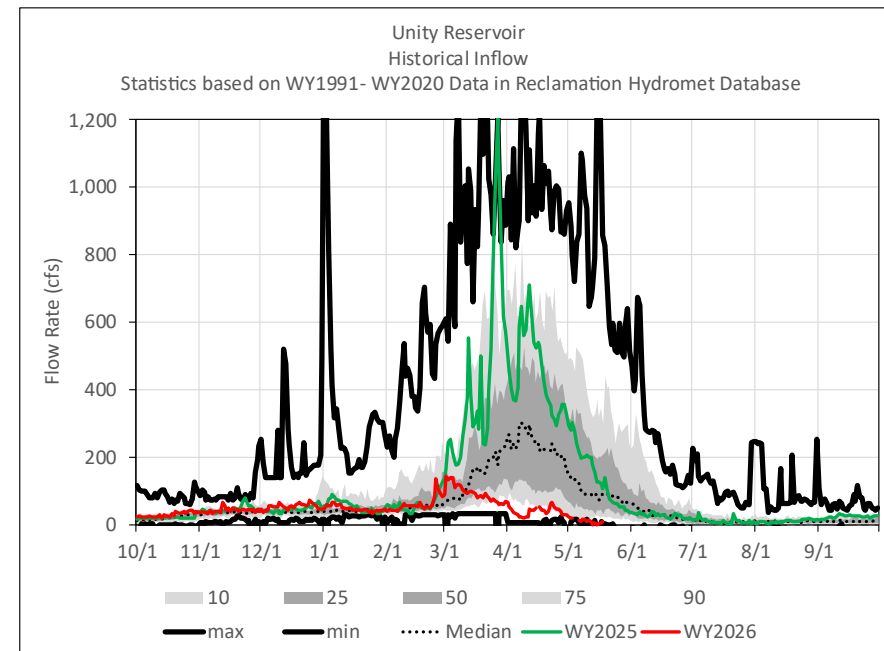
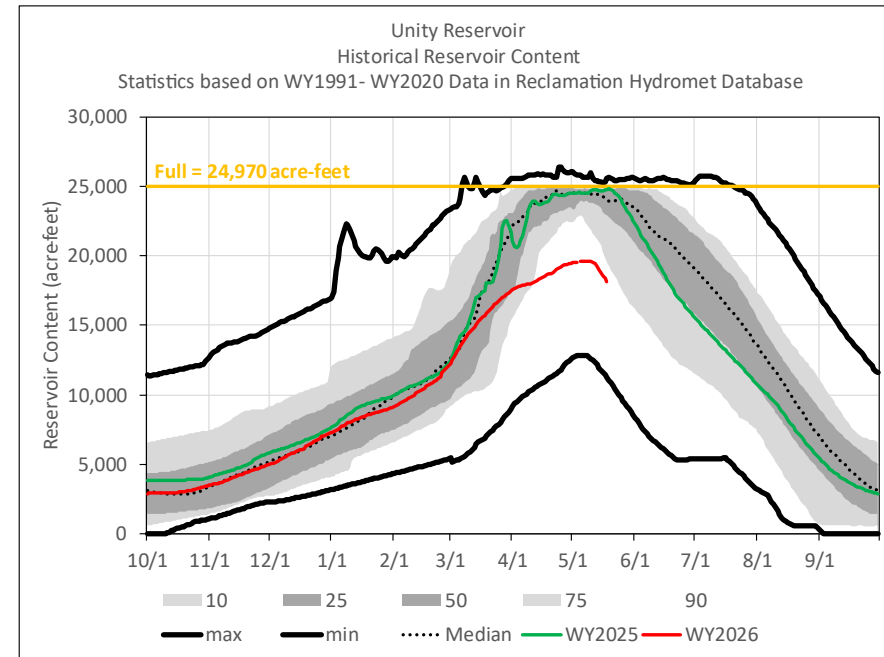
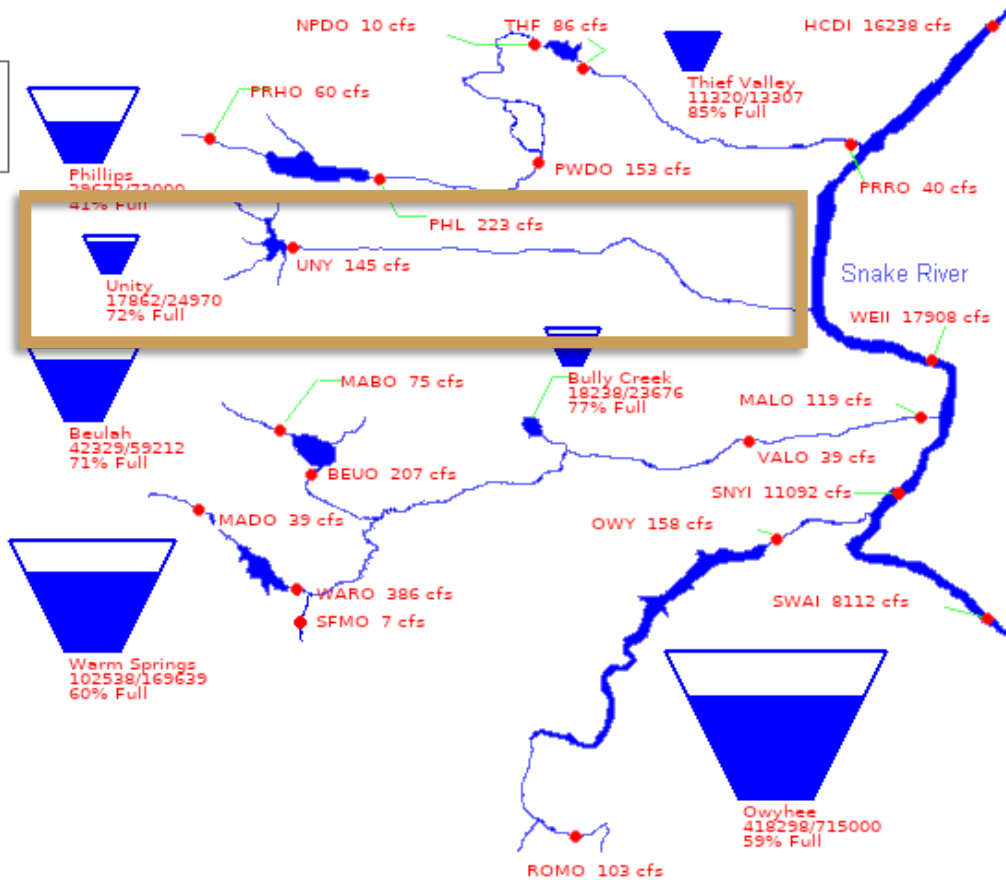
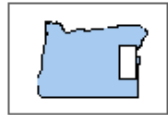
Malheur River Basin

05/19/2026



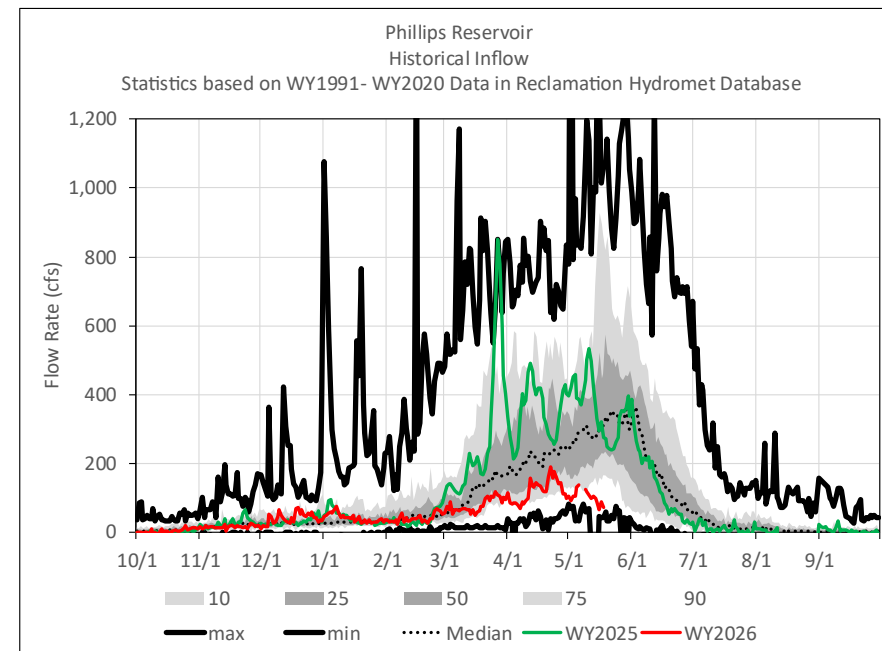
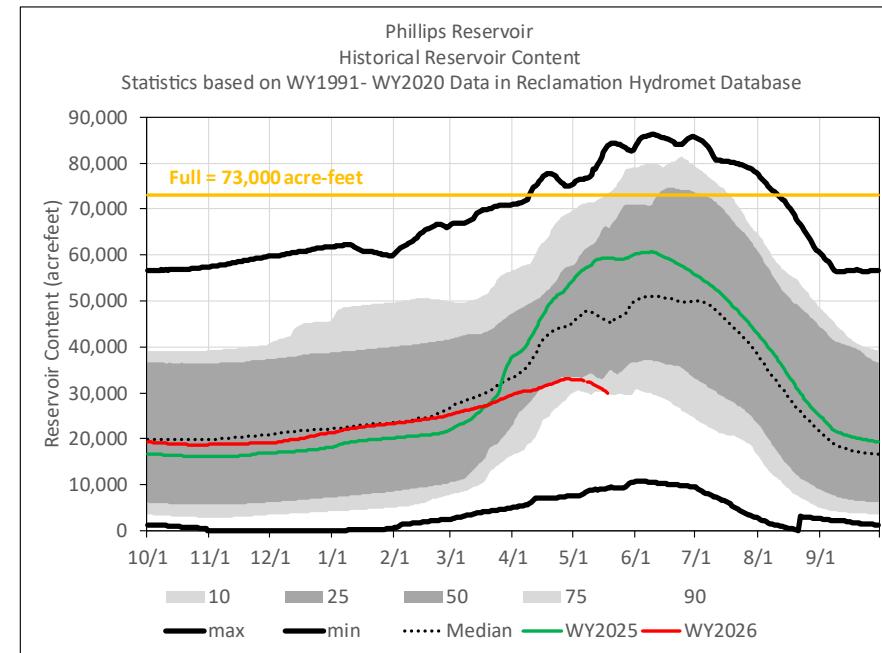
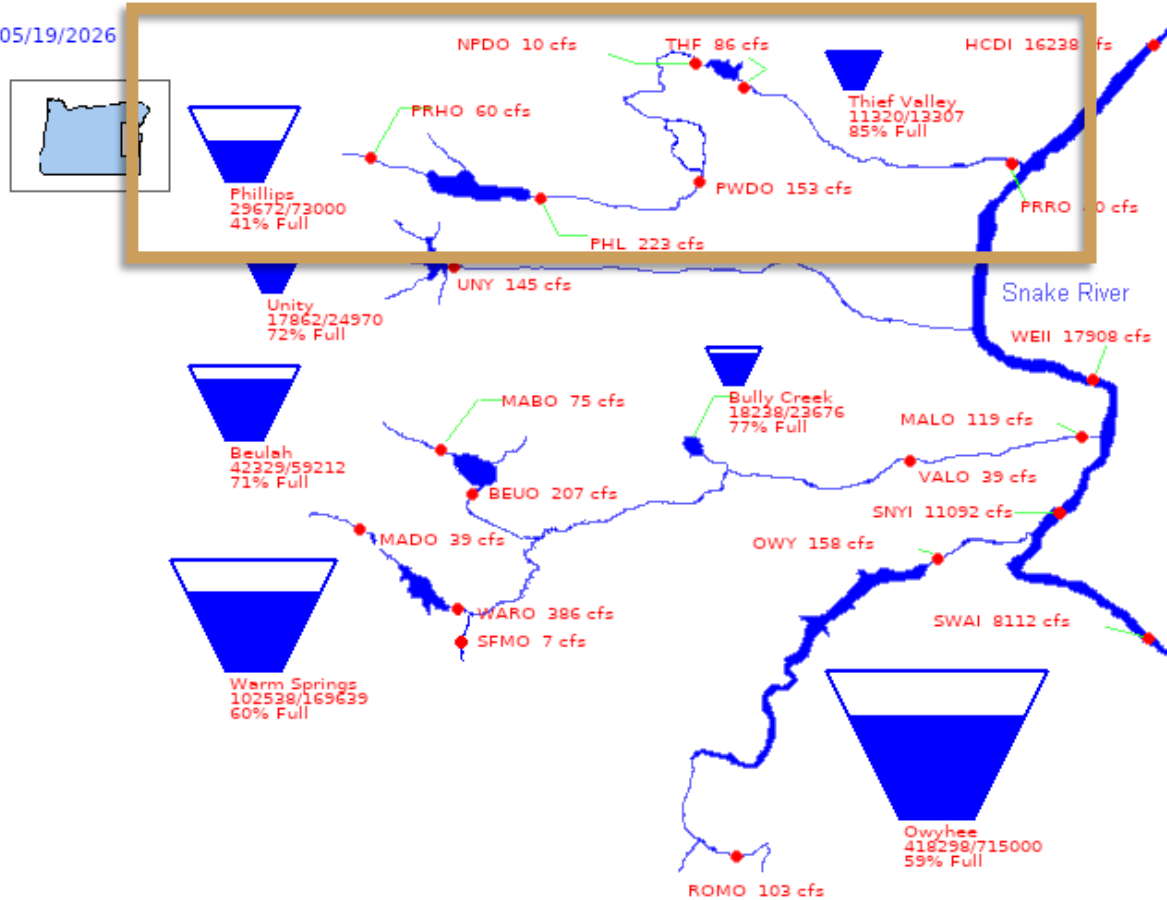
Burnt River Basin

05/19/2026



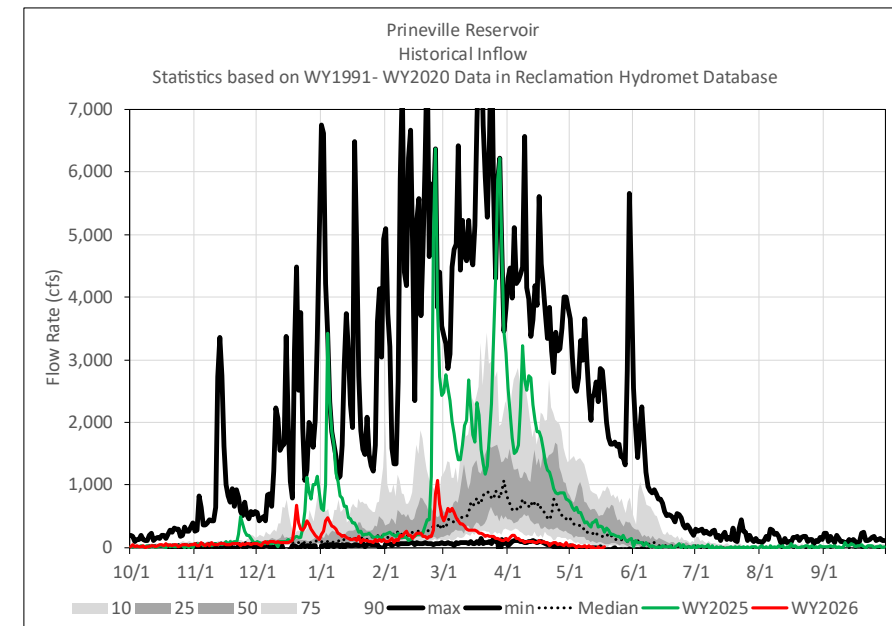
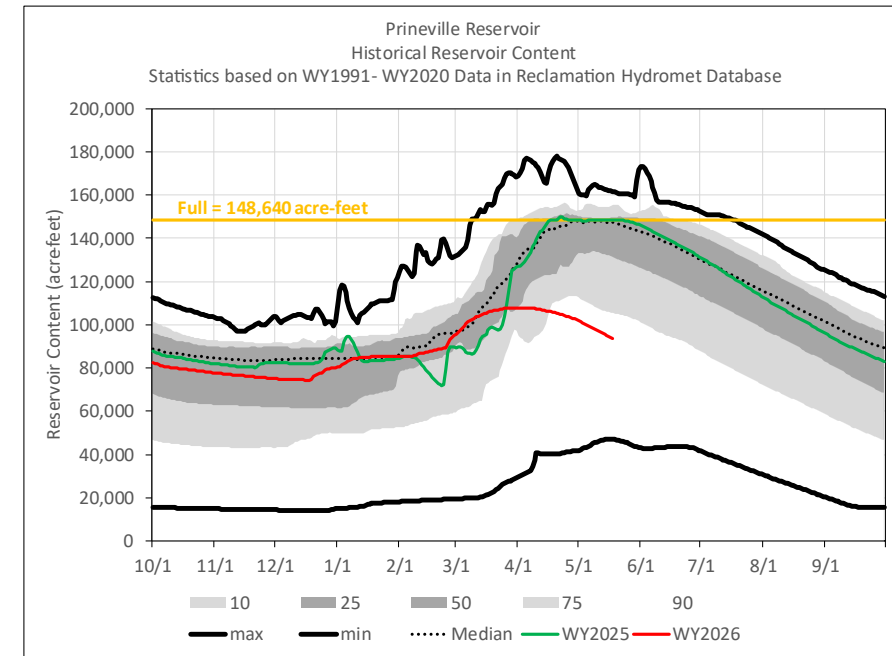
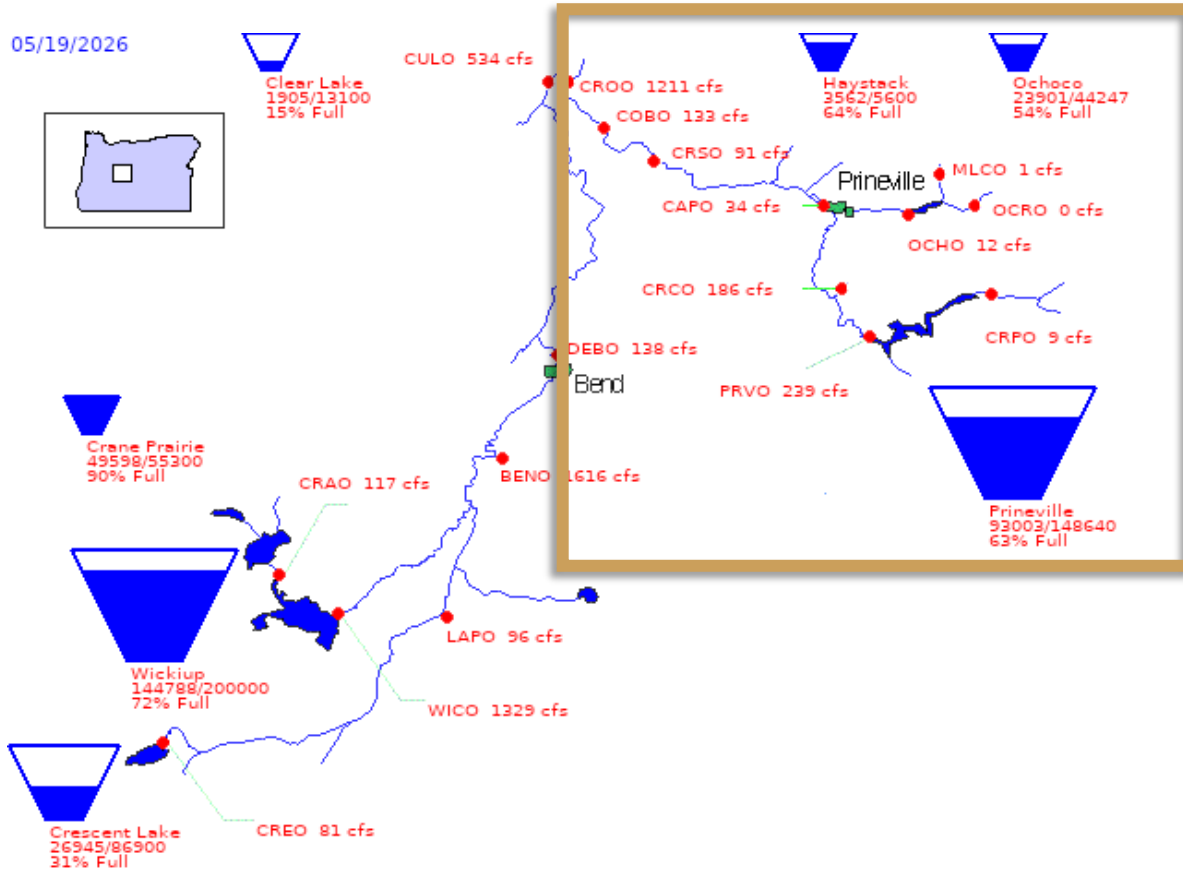
Powder River Basin

05/19/2026



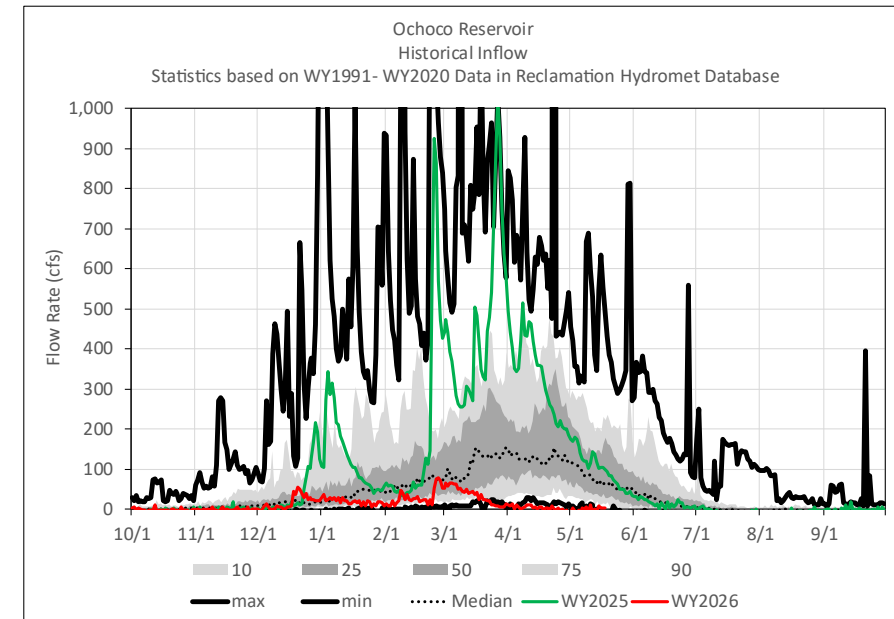
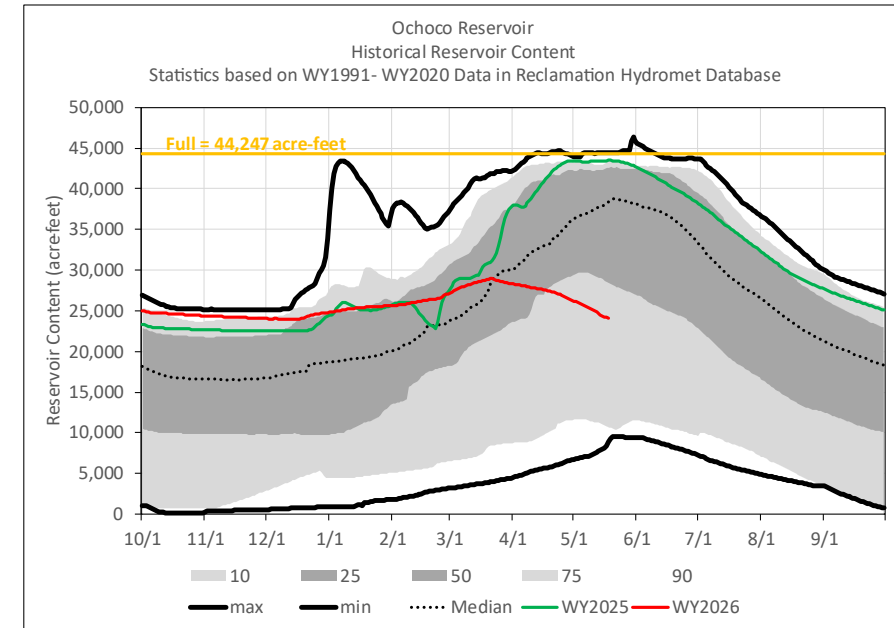
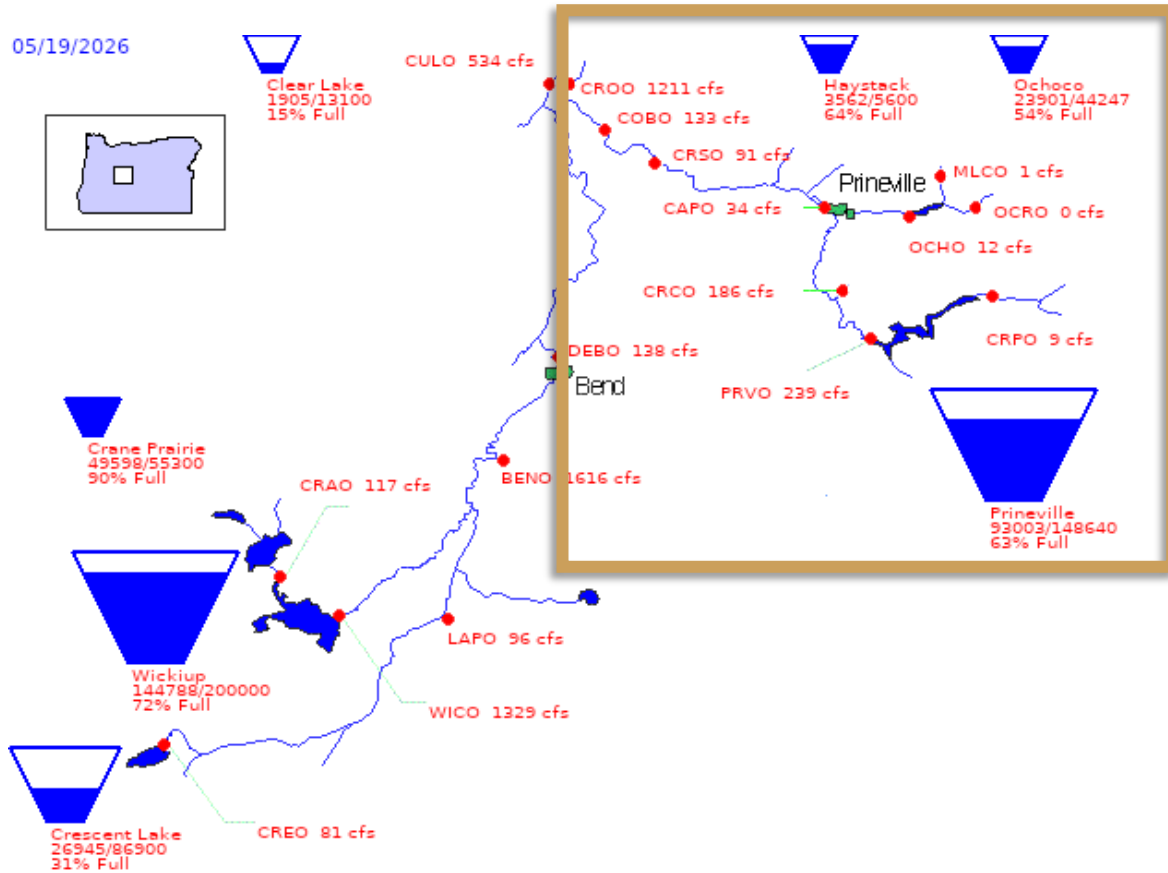
Crooked River Basin

05/19/2026



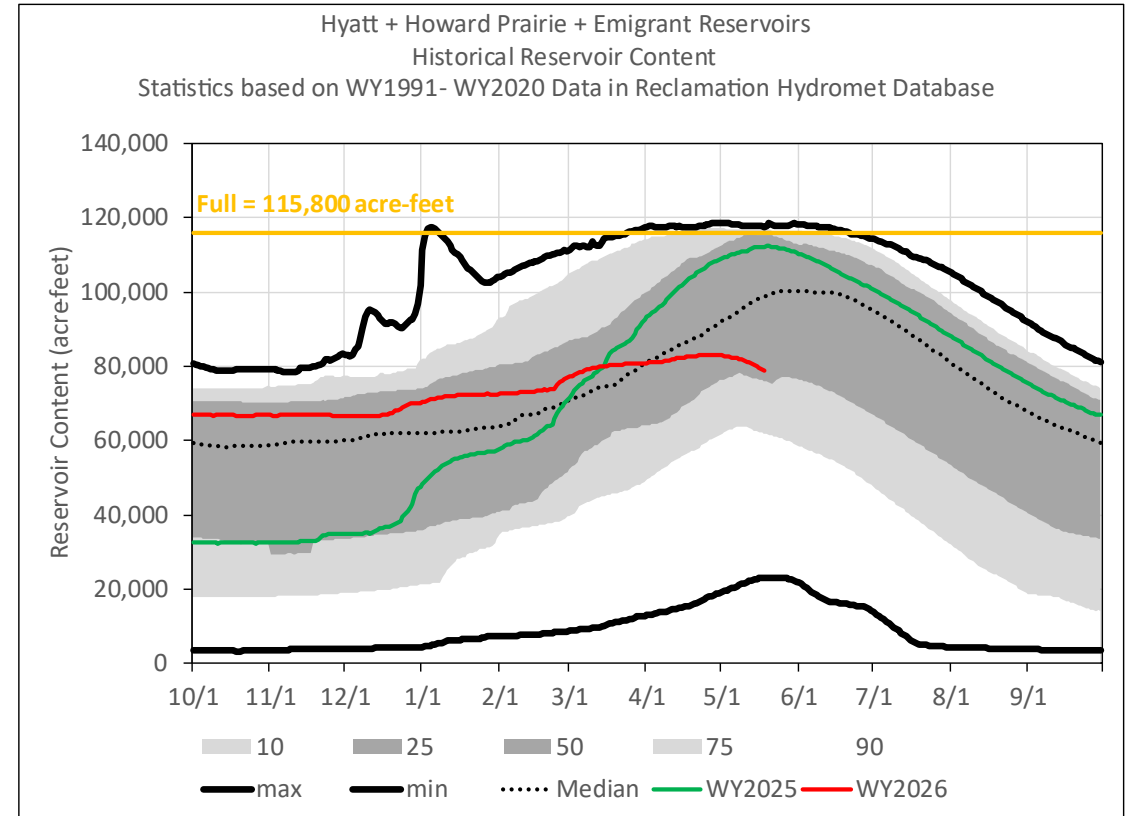
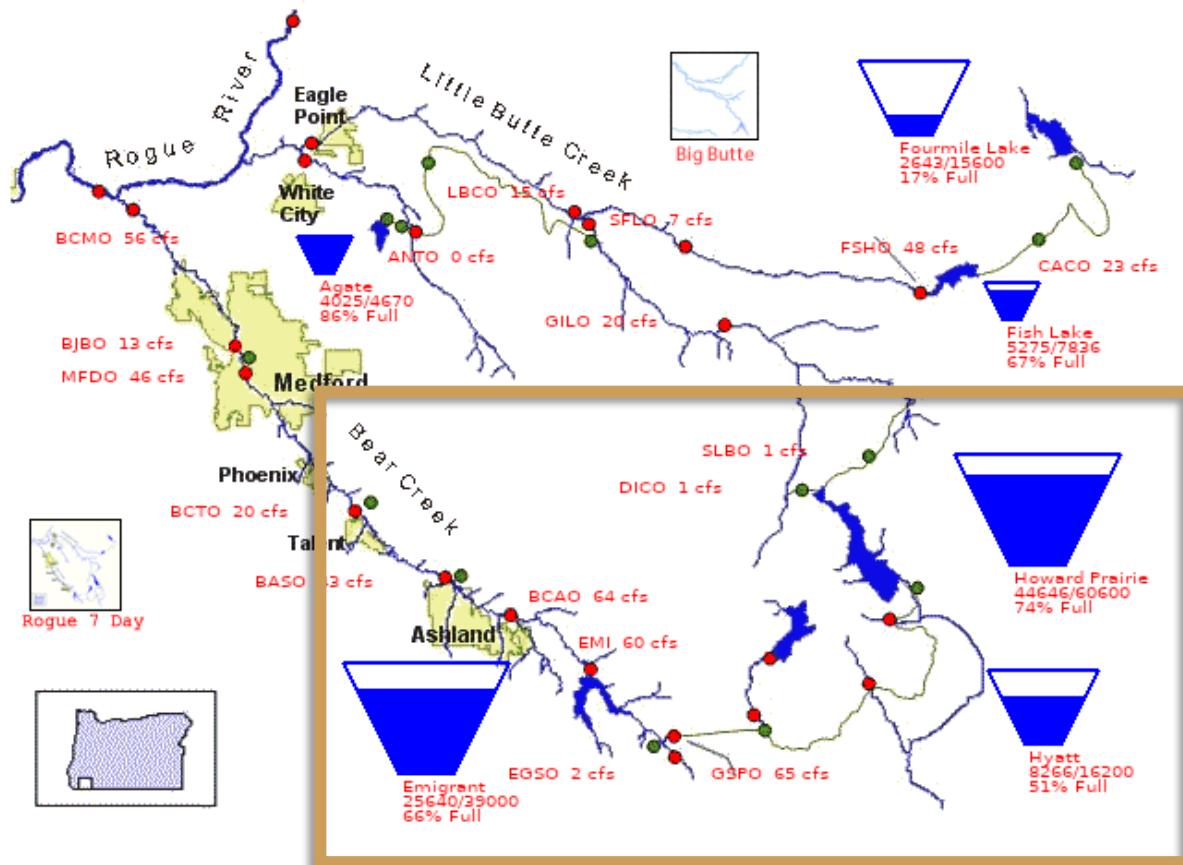
Crooked River Basin

05/19/2026



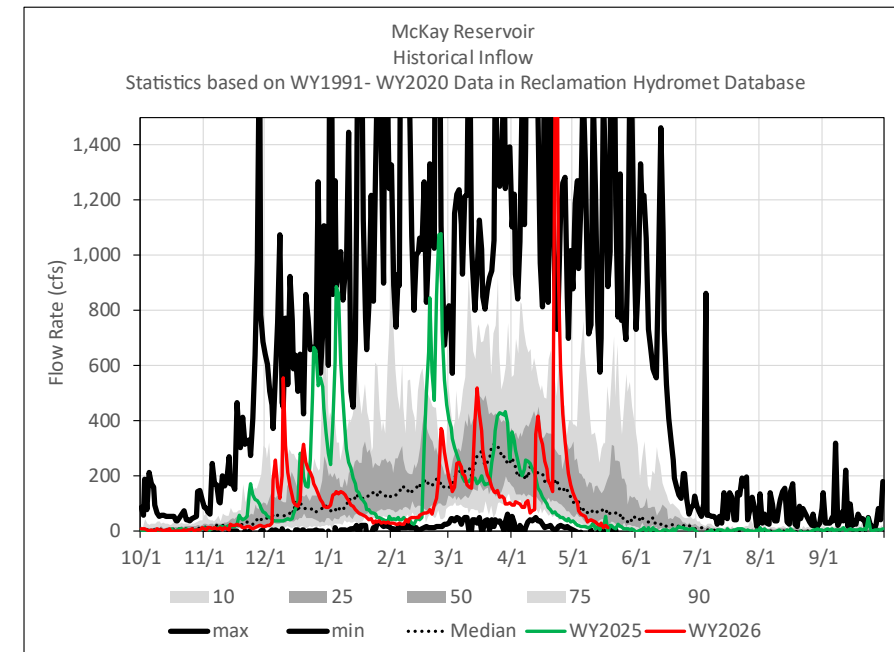
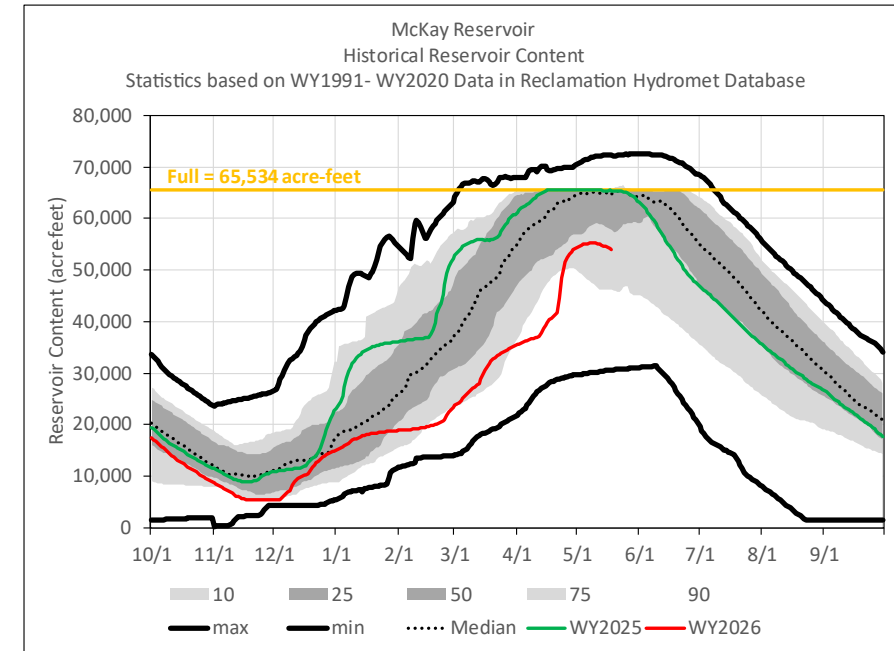
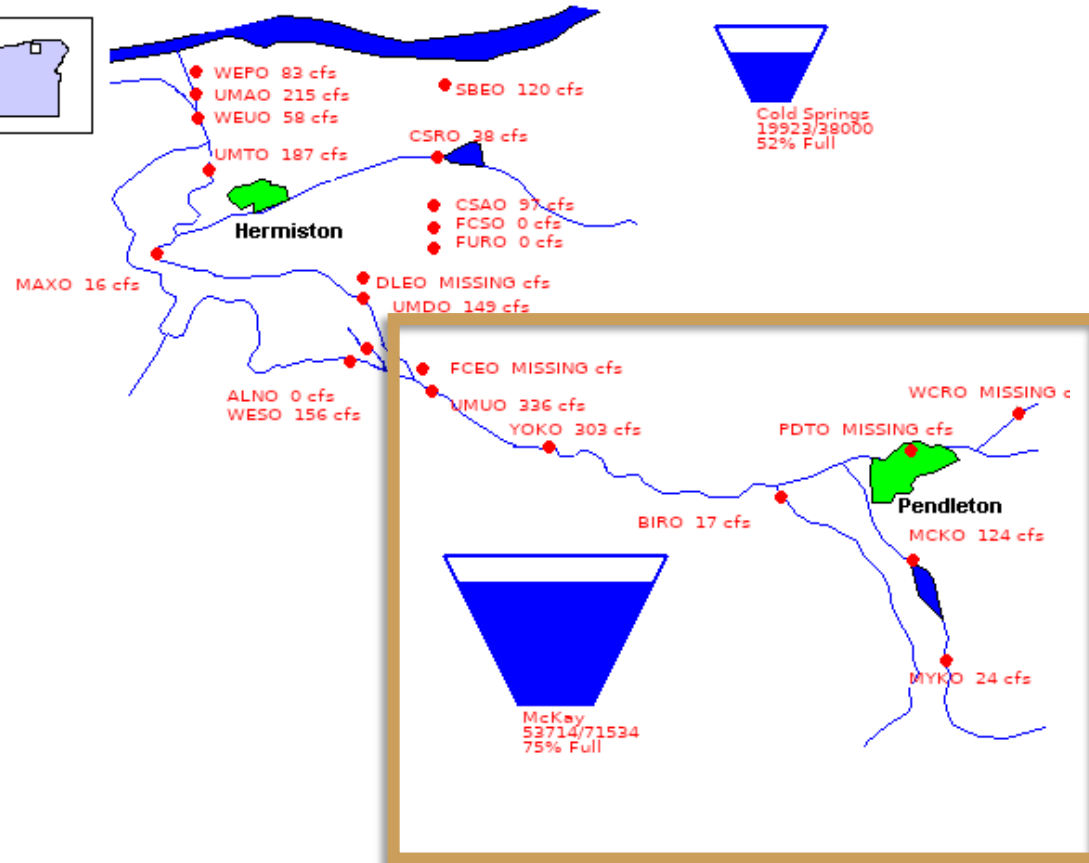
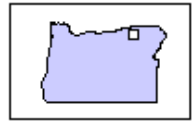
Rogue River Basin

05/19/2026



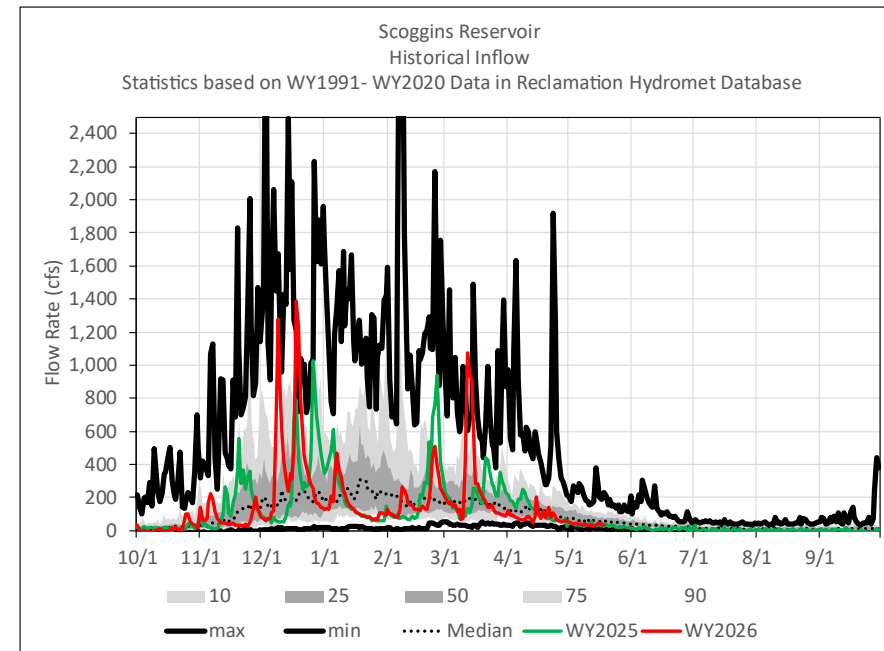
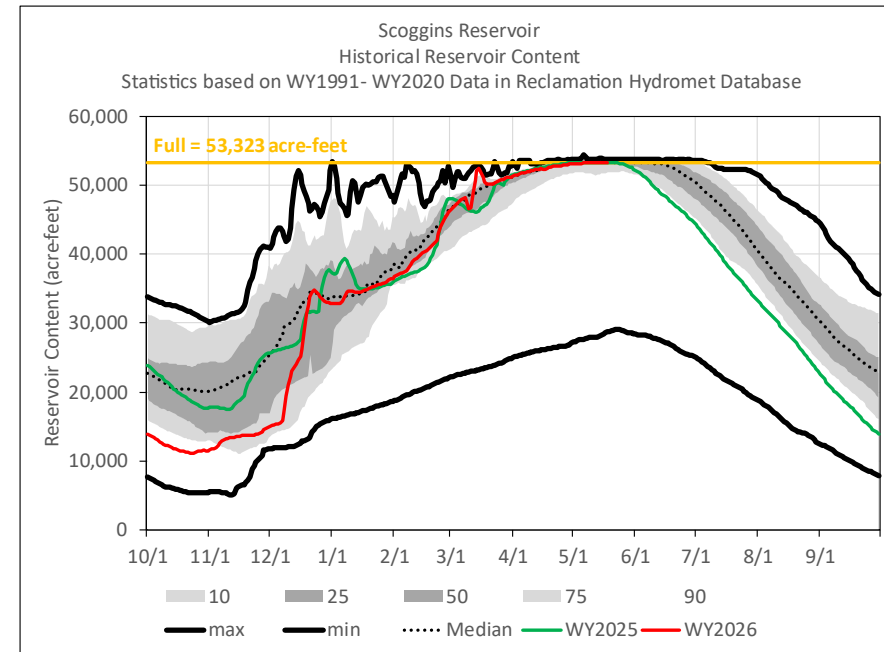
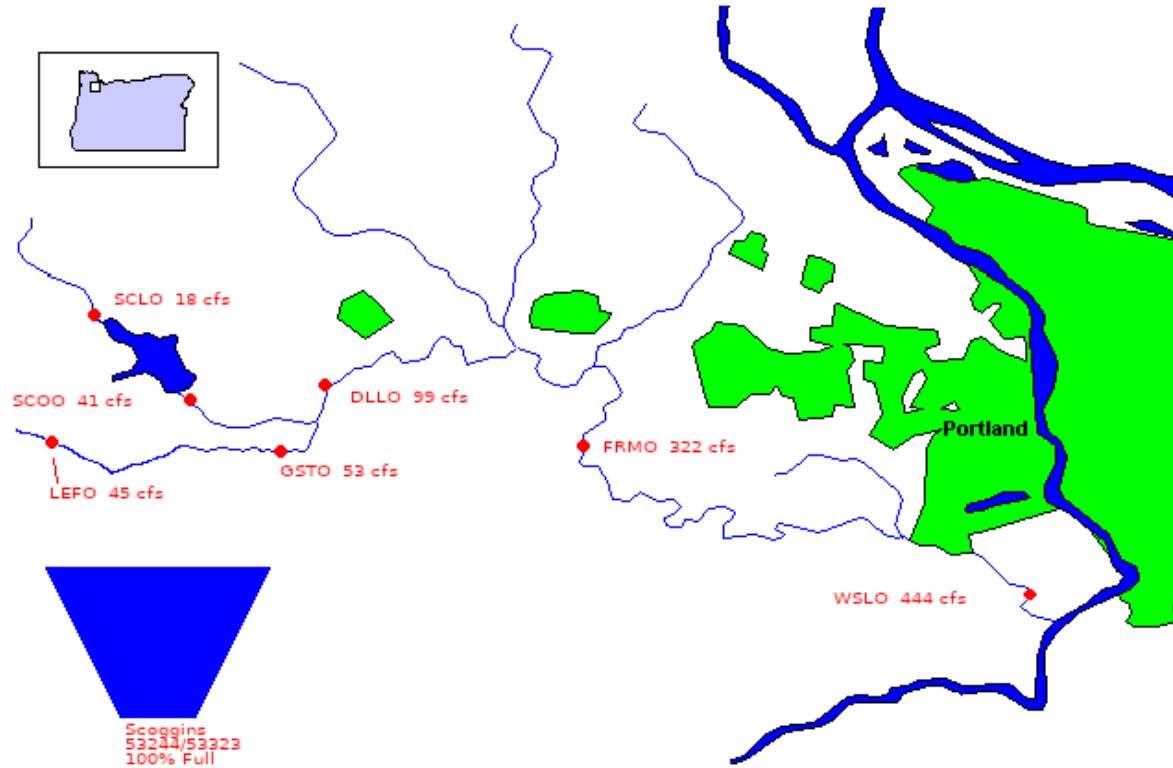
Umatilla River Basin

05/19/2026



Tualatin River Basin

05/19/2026



Corinne Horner– Columbia Pacific Northwest Regional Office
chorner@usbr.gov
208.378.6213



— BUREAU OF —
RECLAMATION



WILLAMETTE PROJECTS FLOW MANAGEMENT & WATER QUALITY TEAM WATER YEAR 2026

Reservoir Regulation & Water Quality Section
CENWP-ECH-R

05/13/2026



U.S. ARMY



US Army Corps
of Engineers®



AGENDA

Basin Overview

Weather/Climate Outlook

Project Specific Operations
Past, present, and forecast

Discussion

Fall Creek



Hills Creek



Lookout Point





CURRENT CONDITIONS

11-May-2026, 2400 hrs

Project	Storage				Conservation Status		Elevation		Feet Above		
	Max	Min	Rule Curve	Actual	% Above Minimum	% Above Rule Curve	Inflow	Outflow	Actual	Rule Curve	Rule Curve
Hills Creek	350.0	155.4	346.3	219.2	32.8%	-65.3%	520	560	1484.0	1539.5	-55.5
Lookout Point	438.2	113.6	438.2	347.3	72.0%	-28.0%	1217	1990	903.6	926.0	-22.4
Fall Creek	116.0	9.5	116.0	113.1	97.3%	-2.7%	140	241	828.4	830.0	-1.6
Cottage Grove	31.8	3.1	30.2	28.2	87.5%	-6.9%	53	76	786.7	788.5	-1.8
Dorena	72.1	7.1	66.7	66.5	91.4%	-0.2%	184	190	828.9	829.0	-0.1
Fern Ridge	97.3	2.8	97.3	81.9	83.8%	-16.2%	227	65	371.6	373.5	-1.8
Cougar	189.0	52.2	189.0	78.9	19.5%	-80.5%	380	350	1575.2	1690.0	-114.8
Blue River	82.8	4.0	82.8	72.3	86.7%	-13.3%	138	486	1338.4	1350.0	-11.6
Green Peter	424.4	165.6	424.4	331.2	64.0%	-36.0%	377	1320	983.1	1010.0	-26.9
Foster	55.9	31.1	55.9	32.7	6.6%	-93.4%	1780	1707	614.8	637.0	-22.2
Detroit	428.8	148.3	428.8	406.5	92.1%	-7.9%	983	1200	1557.1	1563.5	-6.4
AVERAGE					68.1%	-31.2%	4120	6305	TOTAL		

Albany Day Ave Flow: 6.8 kcfs

Albany Previous 7 Day Ave Flow: 6.7 kcfs

Salem Day Ave Flow: 10.9 kcfs

Salem Previous 7 Day Ave Flow: 10.9 kcfs

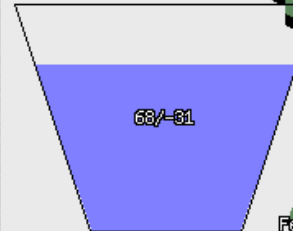
The Willamette Basin

LEGEND

- Storage Project
- Run of River
- Gage
- No Alerts
- Bank Full
- Flood Stage

Overview

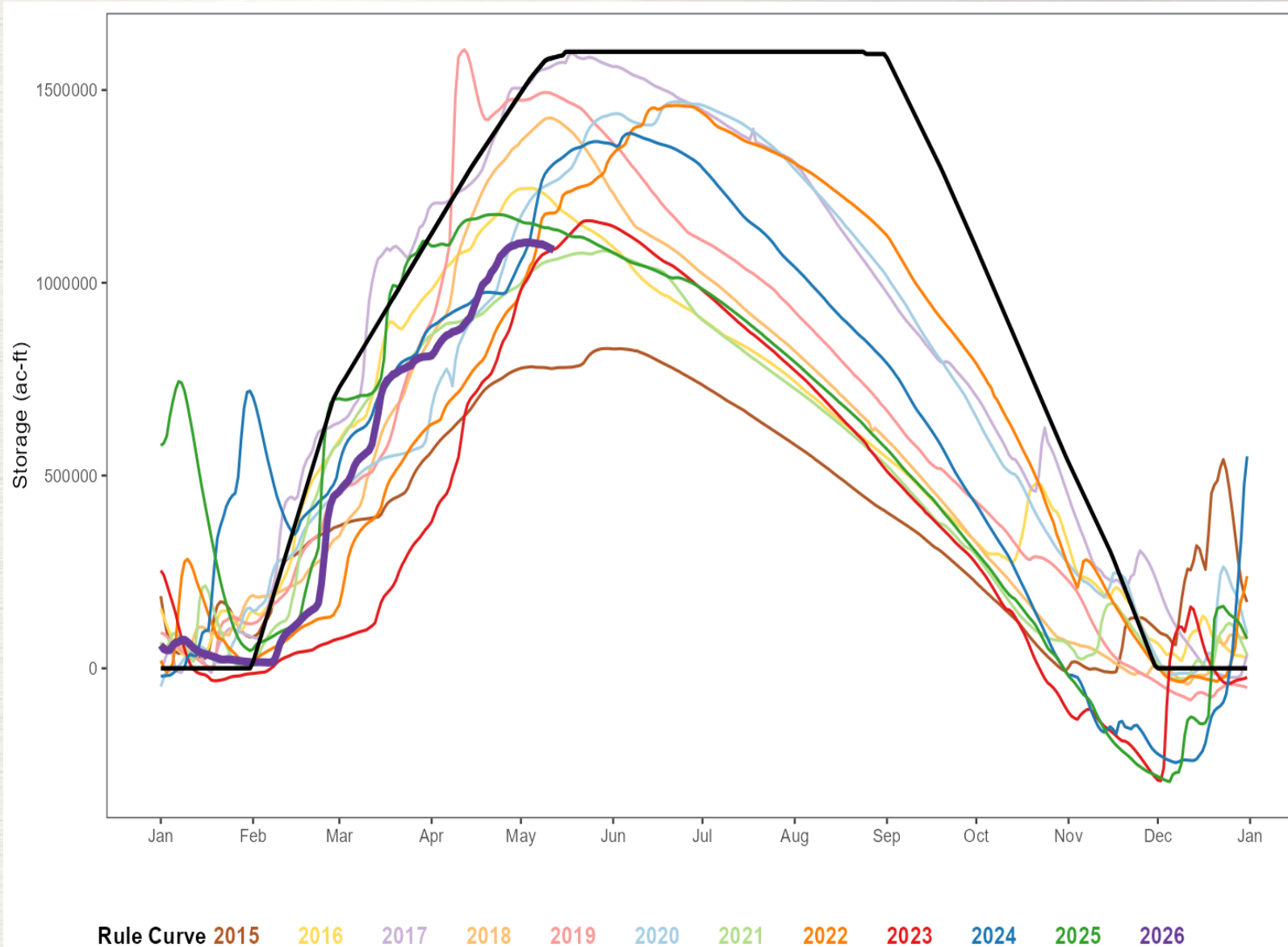
Annual



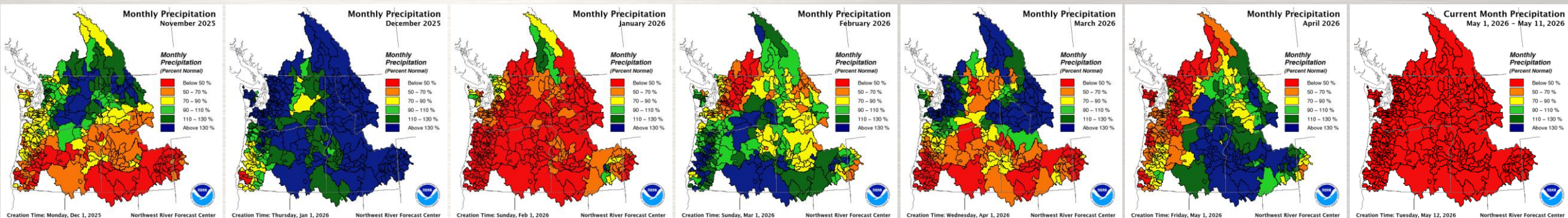
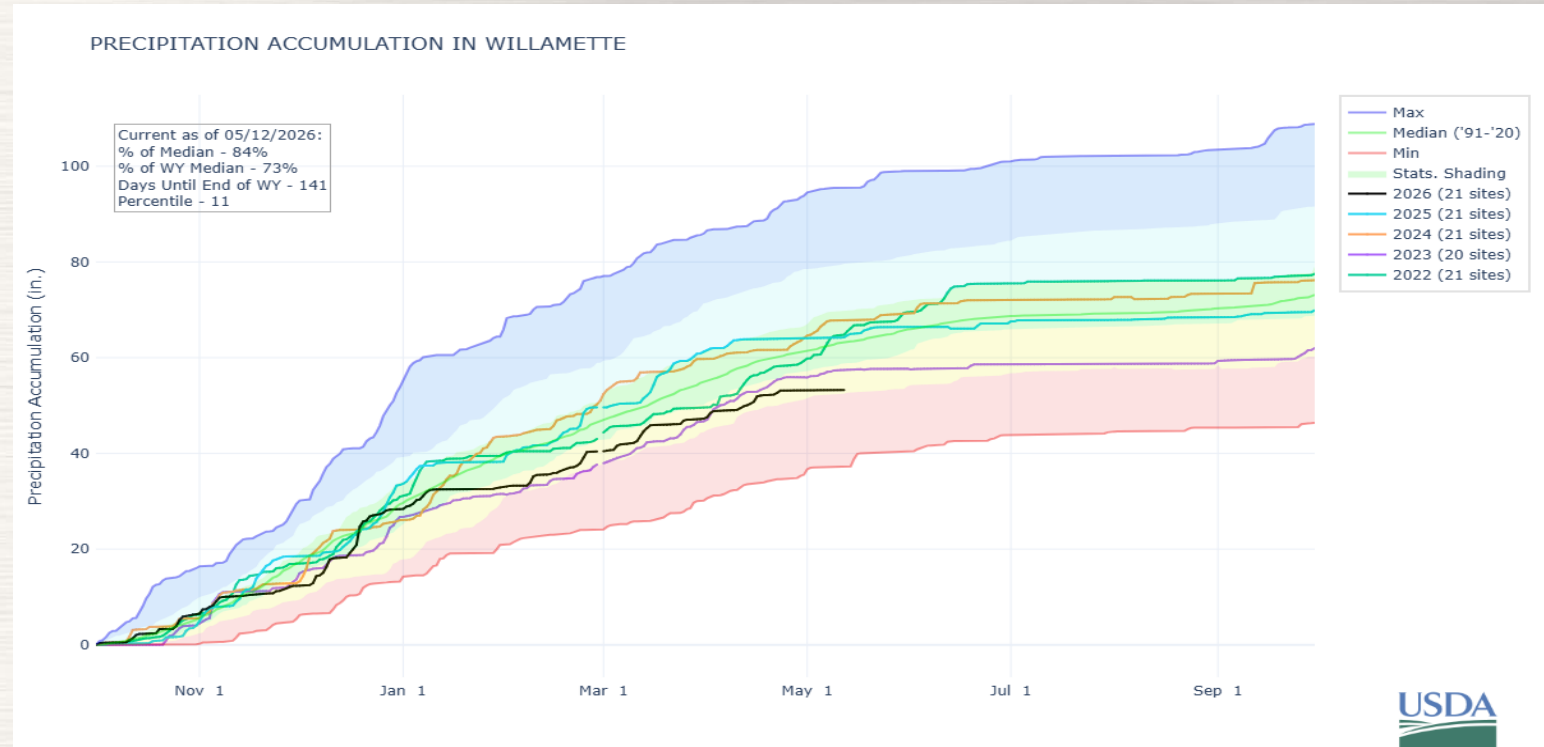
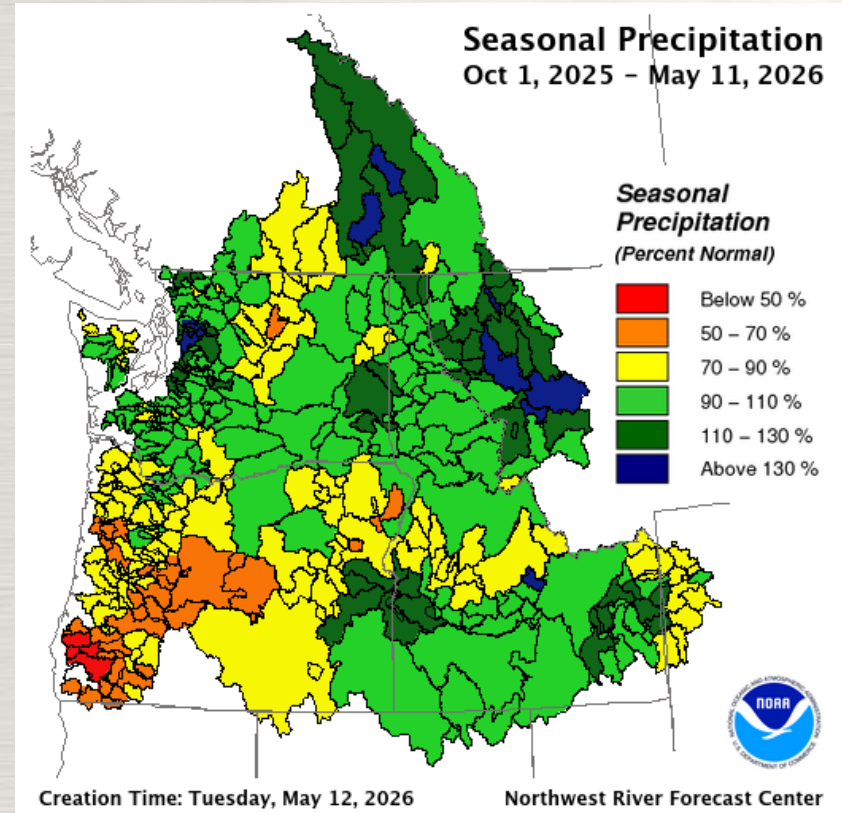
Willamette Total



05/12/2026



PRECIPITATION - WATER YEAR 2026



SNOW - WATER YEAR 2026

SNOW WATER EQUIVALENT IN WILLAMETTE

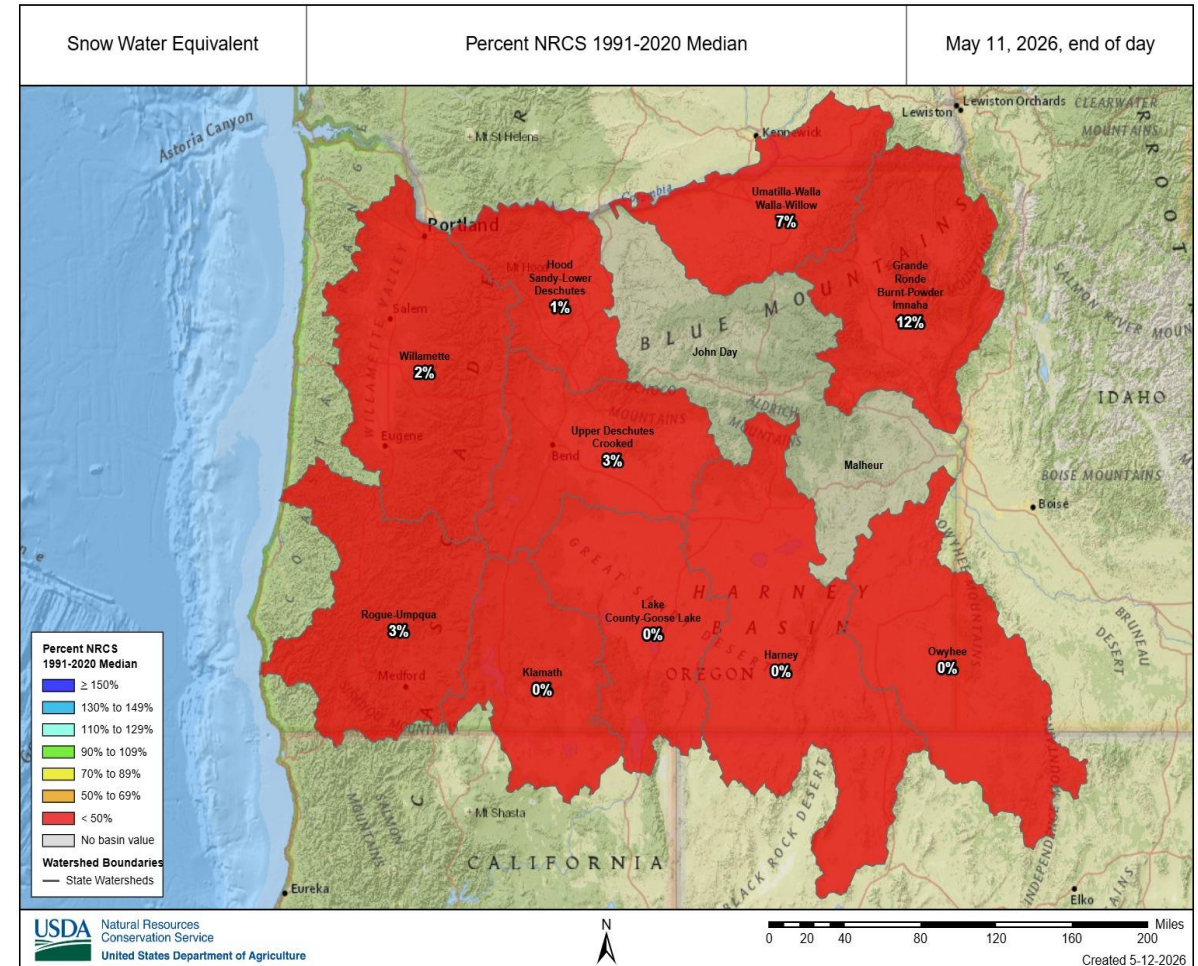
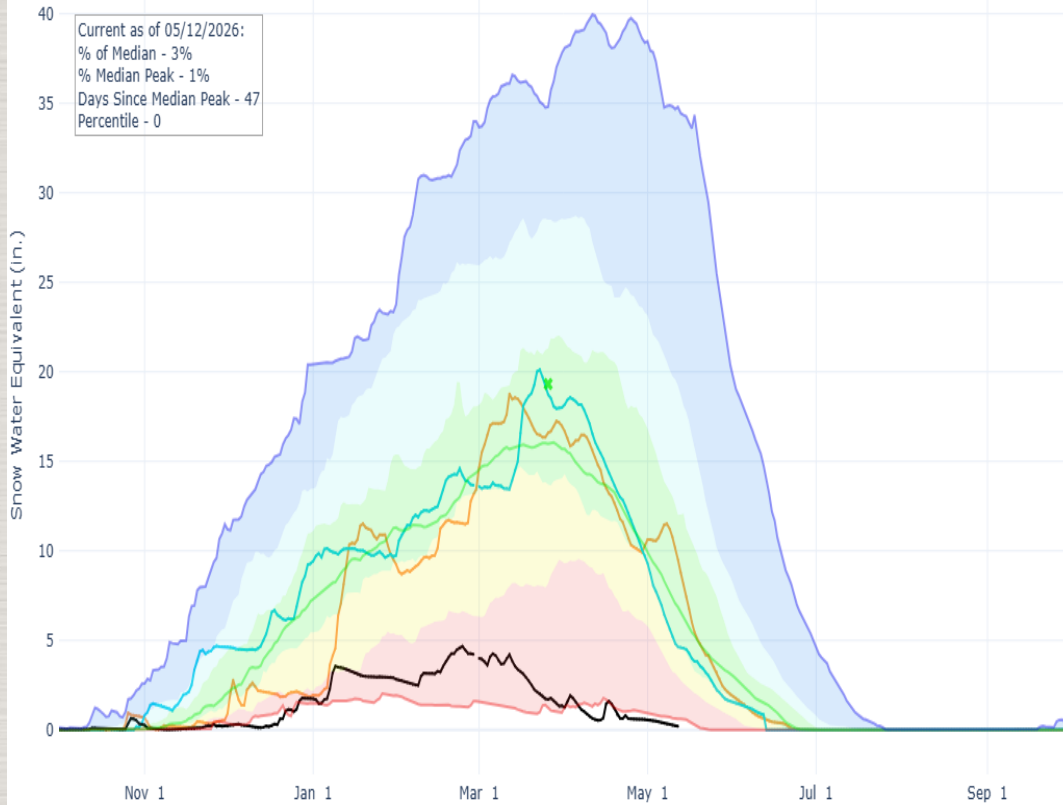
Reset Range

Link to data: CSV / JSON

Current as of 05/12/2026:
 % of Median - 3%
 % Median Peak - 1%
 Days Since Median Peak - 47
 Percentile - 0

Station List

- ✱ Median Peak SWE
- Max
- Median ('91-'20)
- Min
- Stats. Shading
- 2026 (21 sites)
- 2025 (21 sites)
- 2024 (21 sites)

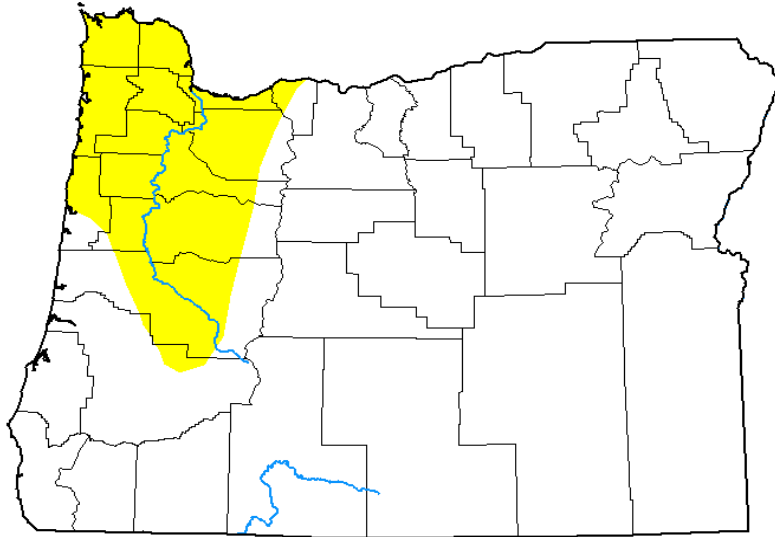




DROUGHT CONDITIONS

U.S. Drought Monitor Oregon

May 6, 2025
(Released Thursday, May. 8, 2025)
Valid 8 a.m. EDT



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:

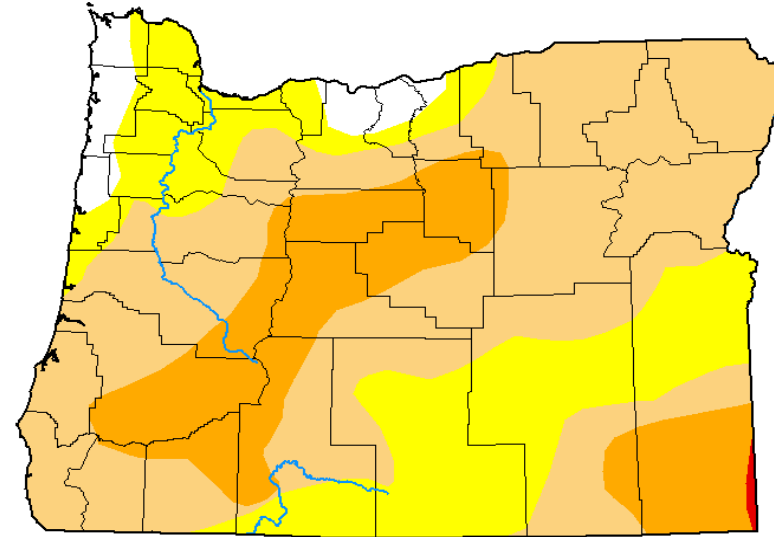
Brad Pugh
CPC/NOAA



droughtmonitor.unl.edu

U.S. Drought Monitor Oregon

May 5, 2026
(Released Thursday, May. 7, 2026)
Valid 8 a.m. EDT



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>

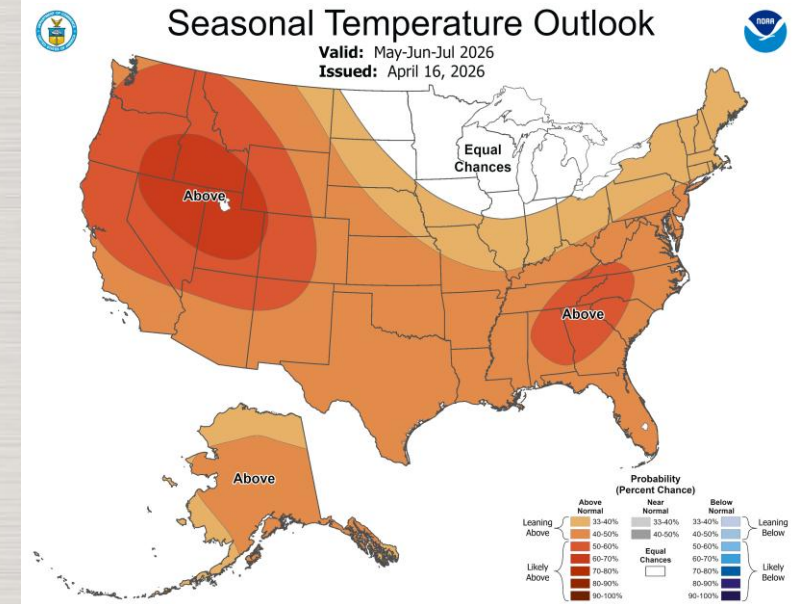
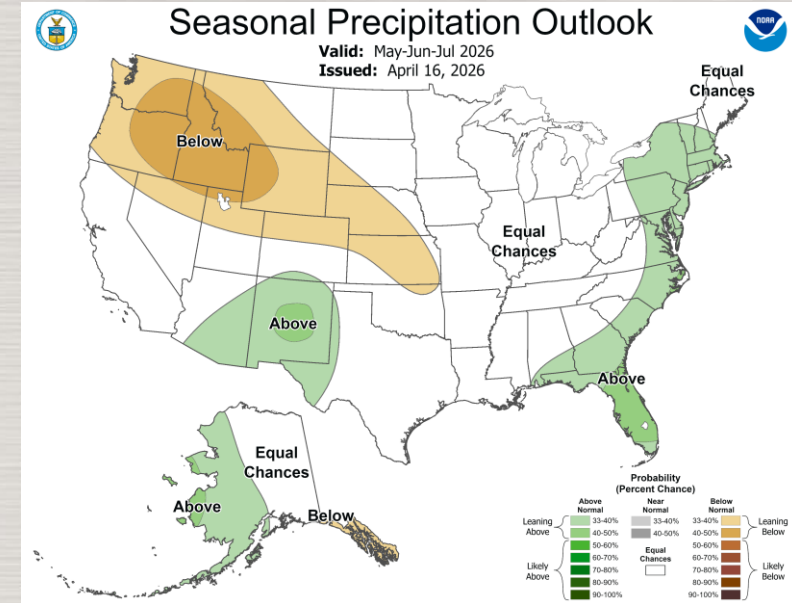
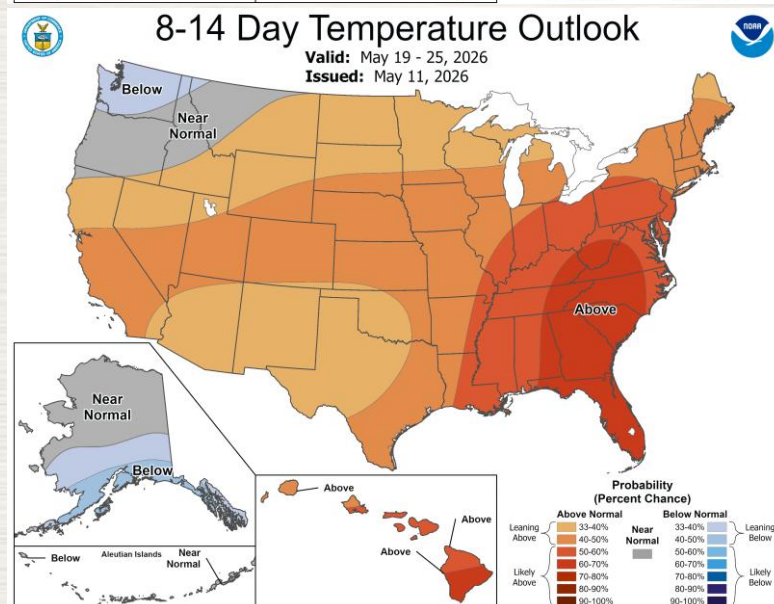
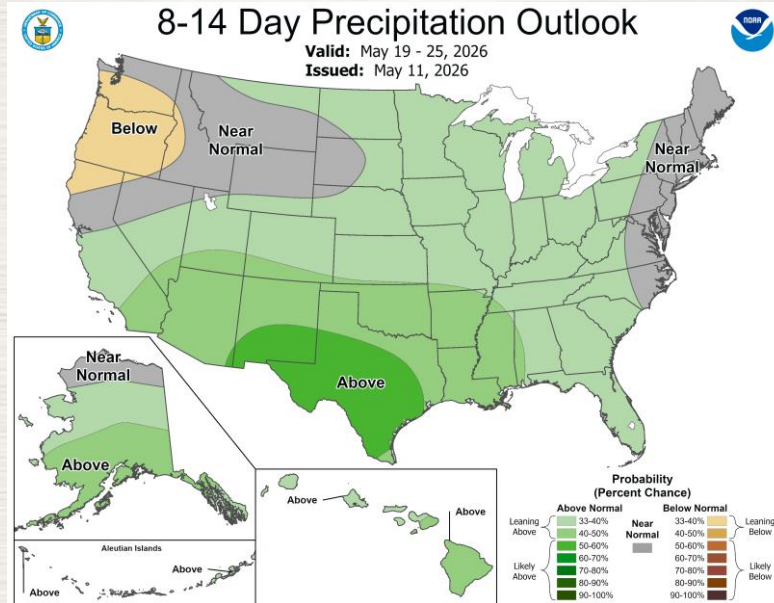
Author:

Adam Allgood
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu

CLIMATE OUTLOOK





ESP10 NATURAL WATER SUPPLY FORECAST

WILLAMETTE - AT SALEM (SLMO3) Forecasts for Water Year 2025

Natural Forecast

ESP with 10 Days QPF Ensemble: 2025-09-30 Issued: 2025-09-30

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	3304	3304	65	3304	5067
APR-JUL	2907	2907	64	2907	4509
JAN-SEP	10926	10926	90	10926	12139
JAN-JUL	10529	10529	91	10529	11581
OCT-SEP	15492	15492	94	15492	16497

WILLAMETTE - AT SALEM (SLMO3) Forecasts for Water Year 2026

Natural Forecast

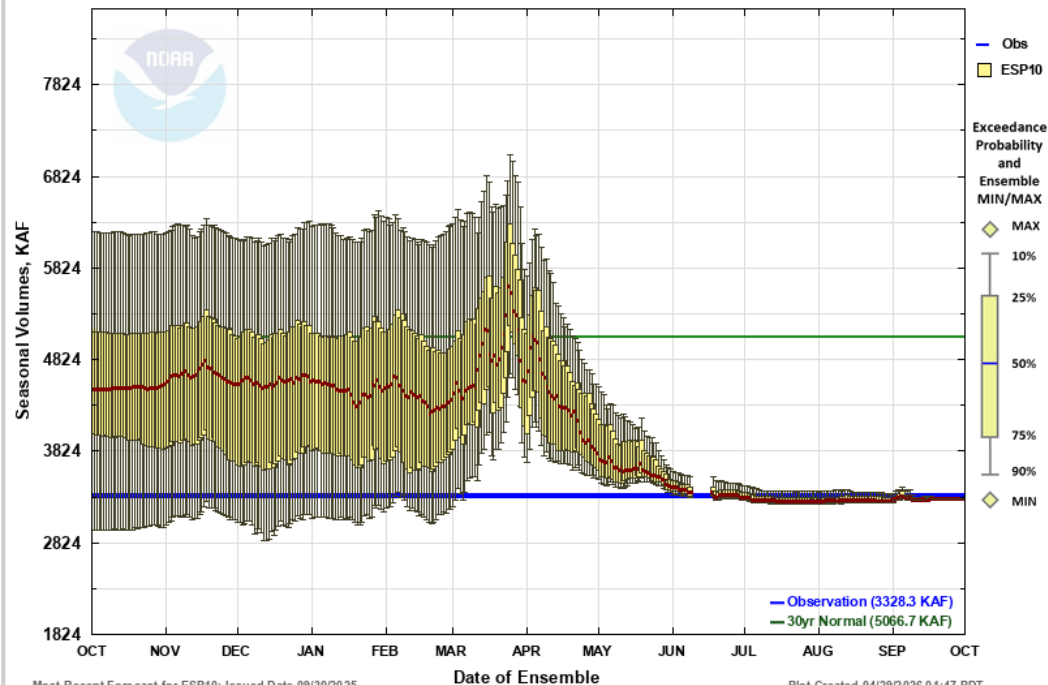
ESP with 10 Days QPF Ensemble: 2026-05-11 Issued: 2026-05-11

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	2588	2740	54	3271	5067
APR-JUL	2265	2360	52	2825	4509
JAN-SEP	7037	7189	59	7721	12139
JAN-JUL	6714	6810	59	7275	11581
OCT-SEP	10183	10335	63	10866	16497

Natural Volume Forecasts

WILLAMETTE - AT SALEM

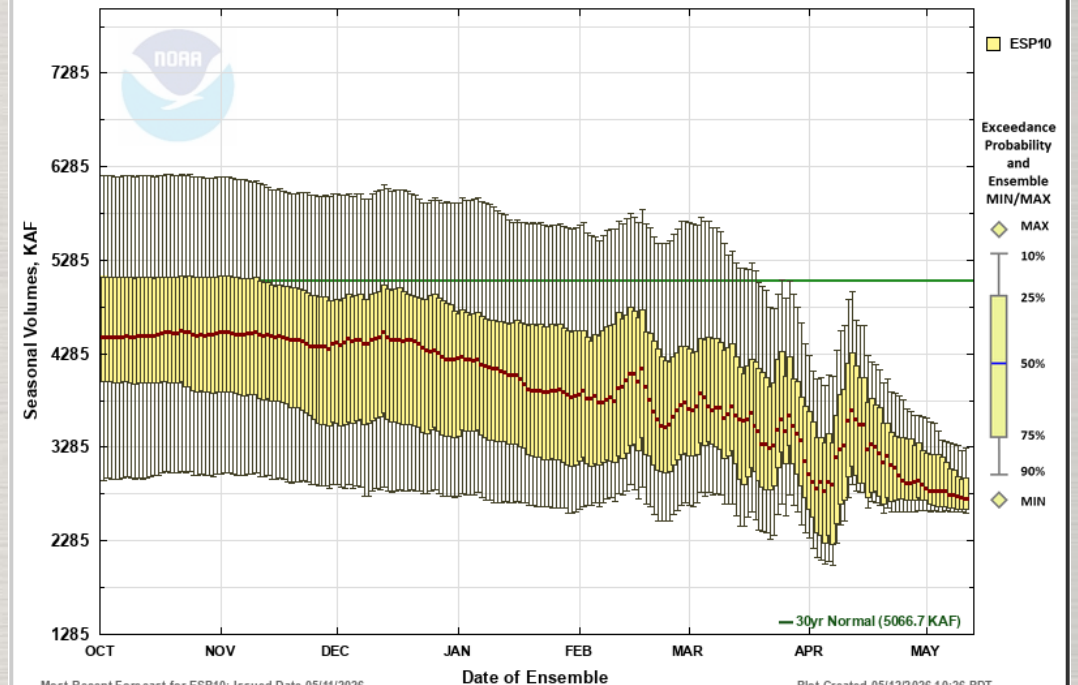
Period APR to SEP -- Water Year 2025



Natural Volume Forecasts

WILLAMETTE - AT SALEM

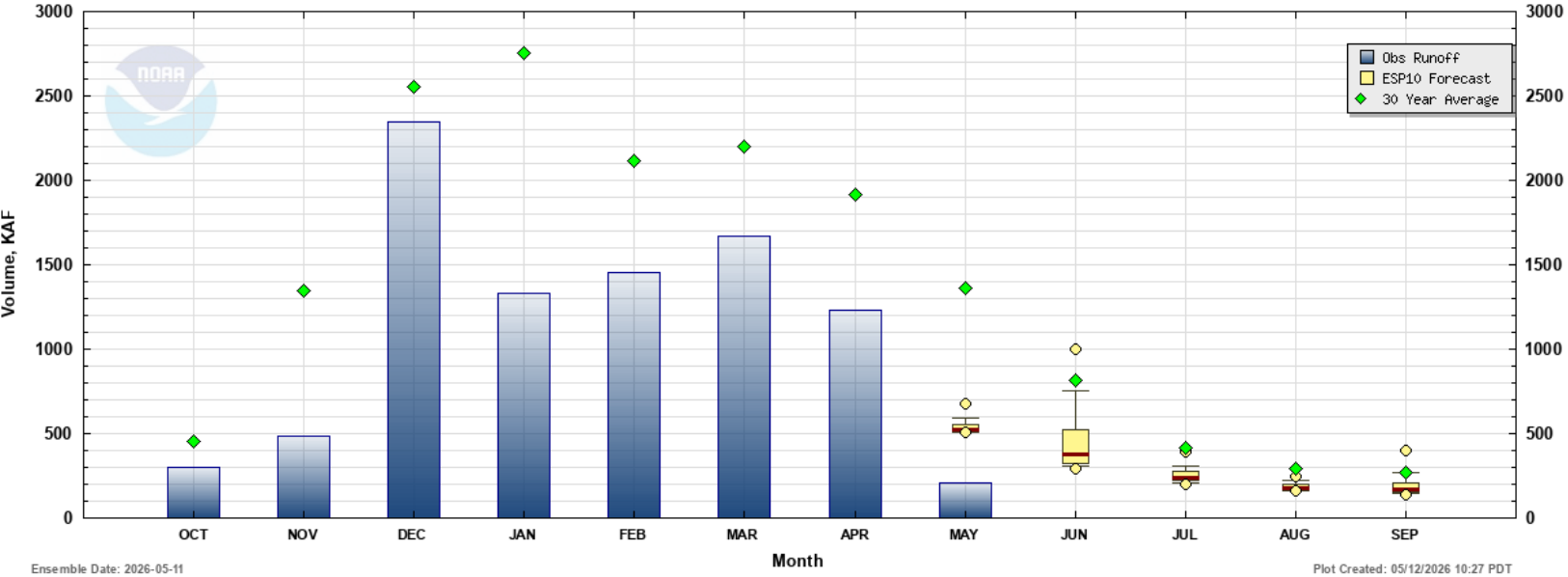
Period APR to SEP -- Water Year 2026





WATER SUPPLY - WATER YEAR 2026

Natural Volume Monthly Forecasts (ESP10) for Water Year 2026
(SLMO3) WILLAMETTE - AT SALEM



WILLAMETTE - AT SALEM Forecasts For Water Year 2026

Natural Forecast

ESP with 10 days QPF

Ensemble: 2026-05-11 Issued: 2026-05-11

Forecast Period	Forecasts Are in KAF				Obs Runoff (2026-05-11)	30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %		
OCT					302	454
NOV					486	1349
DEC					2348	2555
JAN					1327	2753
FEB					1457	2119
MAR					1669	2201
APR					1227	1915
MAY	510	522	38	589	206*	1365
JUN	306	377	46	755		813
JUL	211	235	57	305		415
AUG	164	180	62	224		290
SEP	147	170	63	266		268

WILLAMETTE - AT SALEM (SLMO3) Period Rankings - 1949 to 2026 APR-SEP Normal -- 5067 (KAF)

Rank	Year	Period Volume (KAF)	Percent of Normal	Exceedance Probability*
1	1993	8157.60	161	1.266 %
74	1973	3219.39	64	93.671 %
75	1987	3008.74	59	94.937 %
76	2026	2739.83	54	96.203 %
77	2015	2726.70	54	97.468 %
78	2021	2624.45	52	98.734 %



RESSIM MODEL ASSUMPTIONS

The following are operational rules in the reservoir simulation model which affect river flows and reservoir storage.

- NWRFC ESP10 Natural Forecast used for water supply forecasts.
- Mainstem Targets are 2008 BiOp Deficit flow targets.
- Current IRRM restrictions in effect for Hills Creek, Lookout Point and Detroit.
- All projects managing to rule curve or minimum tributary BiOp flows unless noted below.

Middle Fork

*Hills Creek: 1) Mainstem augmentation, ~500-600 cfs through end of June, then up to 700 cfs in August and September.

*Lookout Point/Dexter: Flows increased from July to September ranging from 2000-2500 cfs to assist with mainstem augmentation. Gated spill on-going until spillway crest is lost (estimated early July) for temperature management.

*Fall Creek: Used for augmentation starting early May and increased to ~500 cfs in August for mainstem augmentation.

Coast Fork

*Cottage Grove/ Dorena holding minimums through mid-September and then increasing releases 50 cfs above minimums to provide some additional flow for Albany, followed by blending the forebay elevation into rule curve.

Fern Ridge

*Holding BiOp minimums.

McKenzie

*Cougar: Refill starting on 03 April reaching the temperature tower in late May.

*Blue River: Mainstem augmentation throughout summer capped at 500 cfs primarily used starting in May and August through mid-September at 300 cfs.

N. & S. Santiam

*Green Peter: 1) Spring augmentation for mainstem at Salem due to spill operations, 2) Minimum outflows to keep FOS in summer band and passing BiOp minimum flows, 3) deep drawdown.

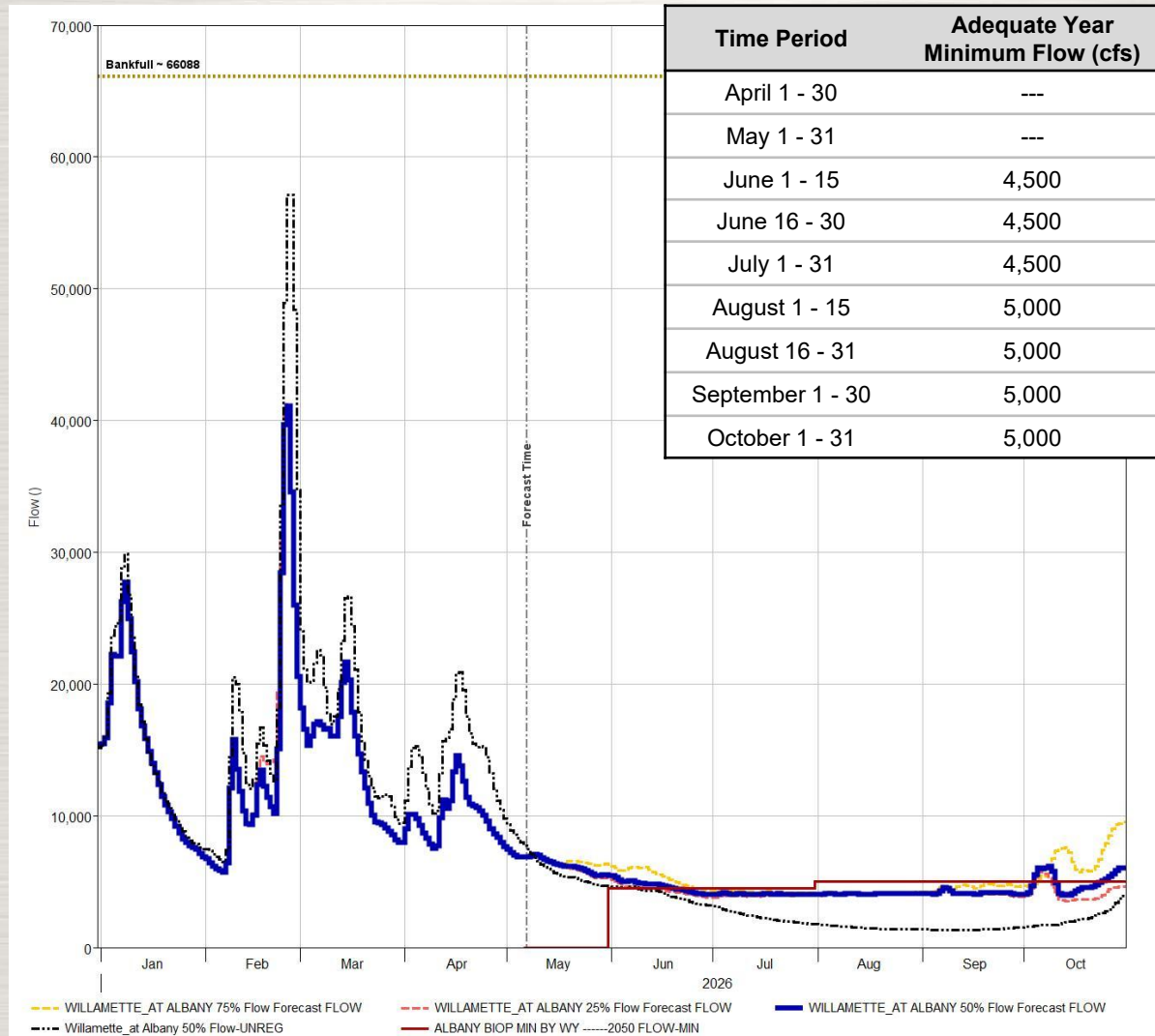
*Foster: 1) Delayed refill beginning 16 May BiOp start for Memorial Day weekend , 2) early drawdown after Labor Day.

*Detroit holding BiOp minimums including reduced coordinated BiOp minimum 1200 cfs vs 1500 cfs through May 31st.

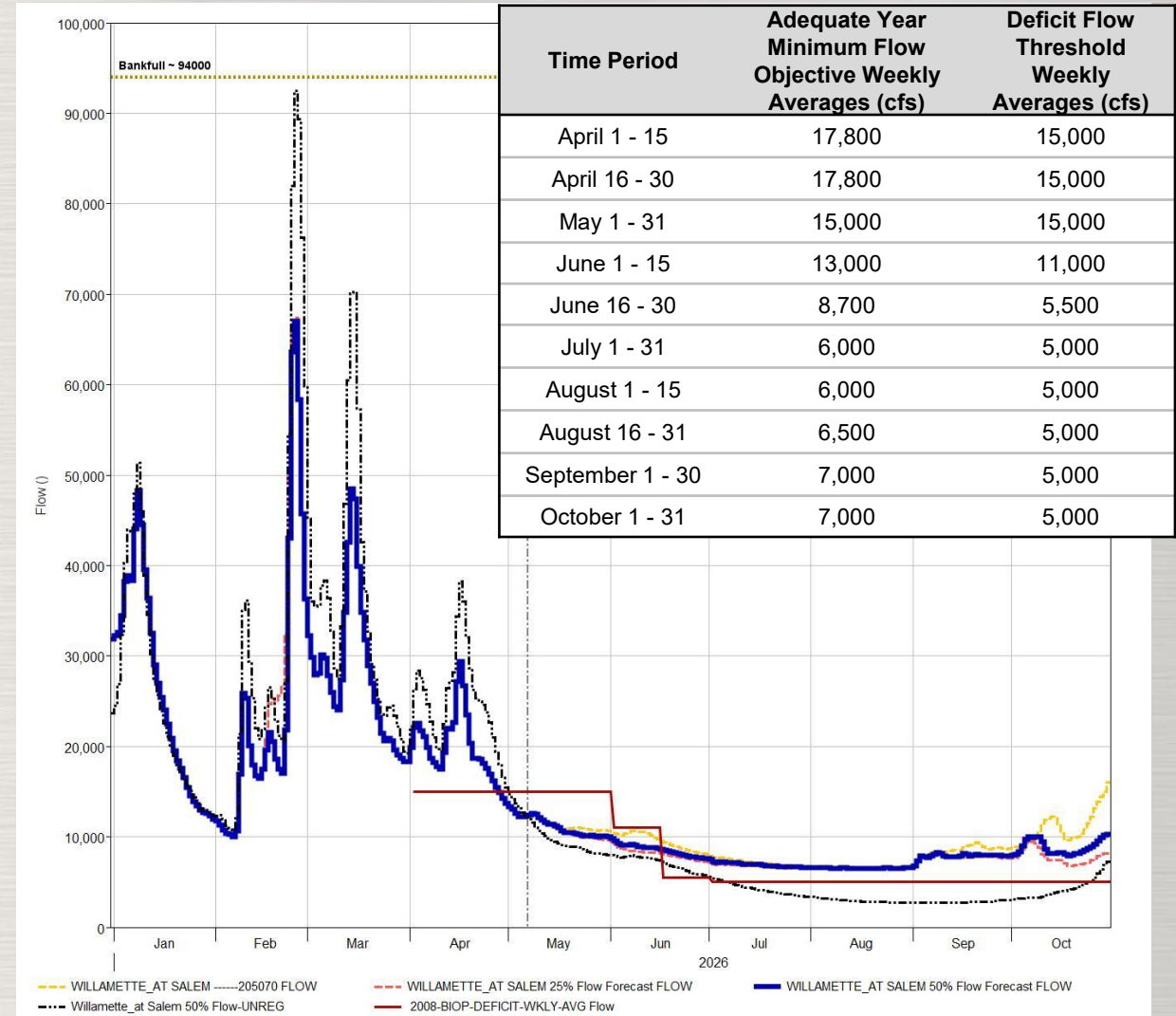


MAINSTEM FORECASTS

Albany



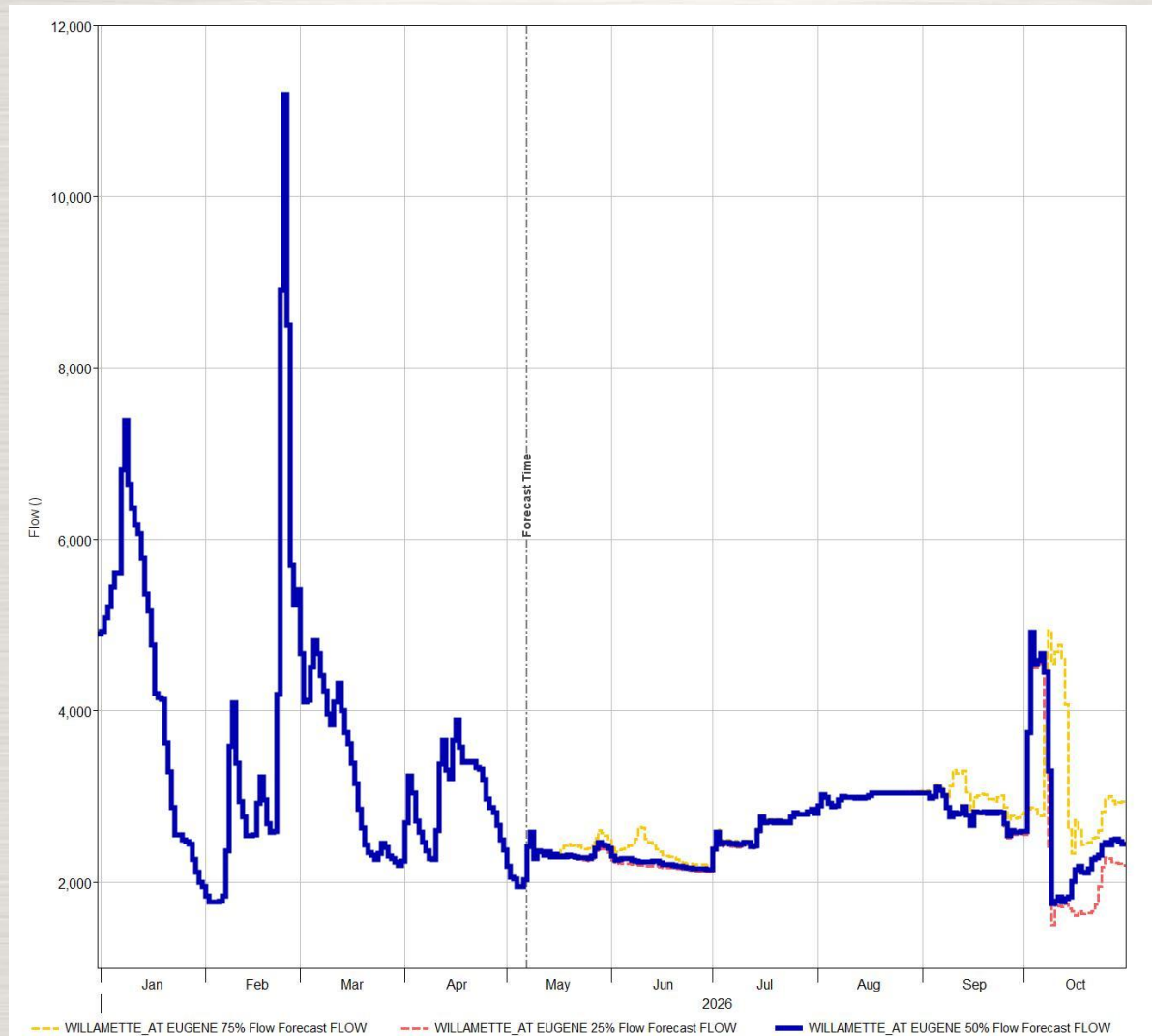
Salem



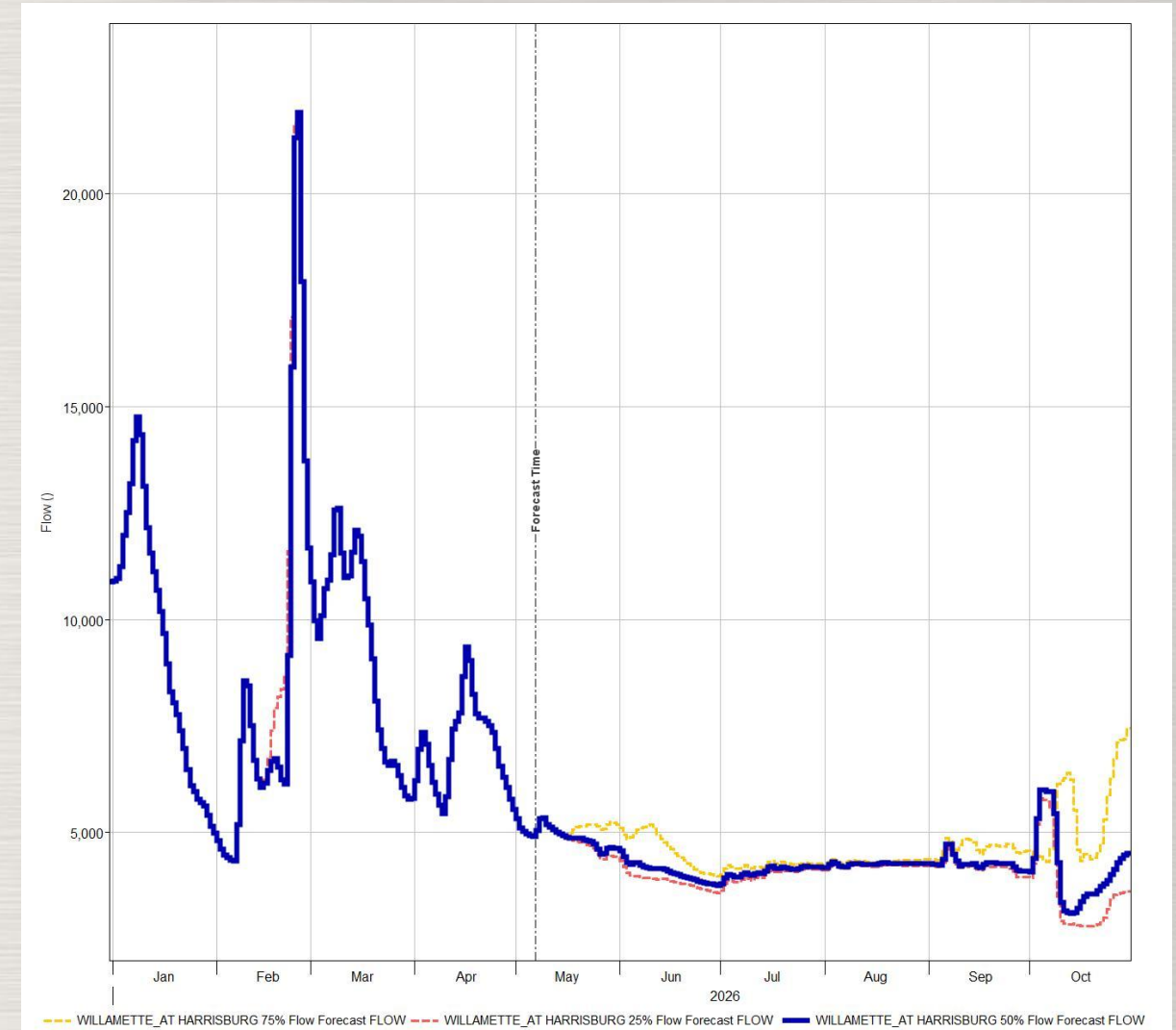


ADDITIONAL CONTROL POINT FORECASTS

Eugene

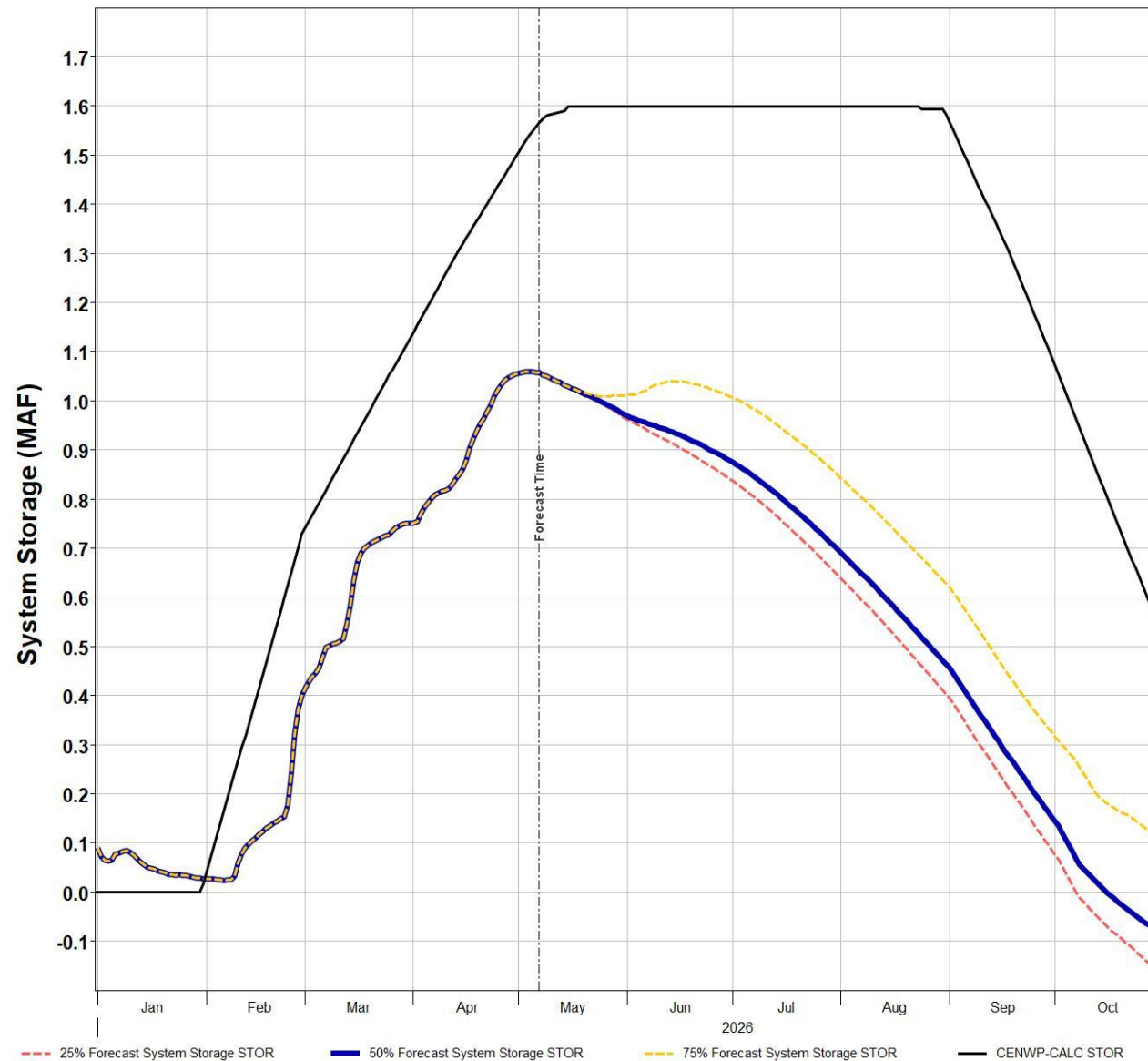


Harrisburg





WILLAMETTE SYSTEM FORECAST



15 May 2008 BiOp Storage Definitions

Abundant >1.48

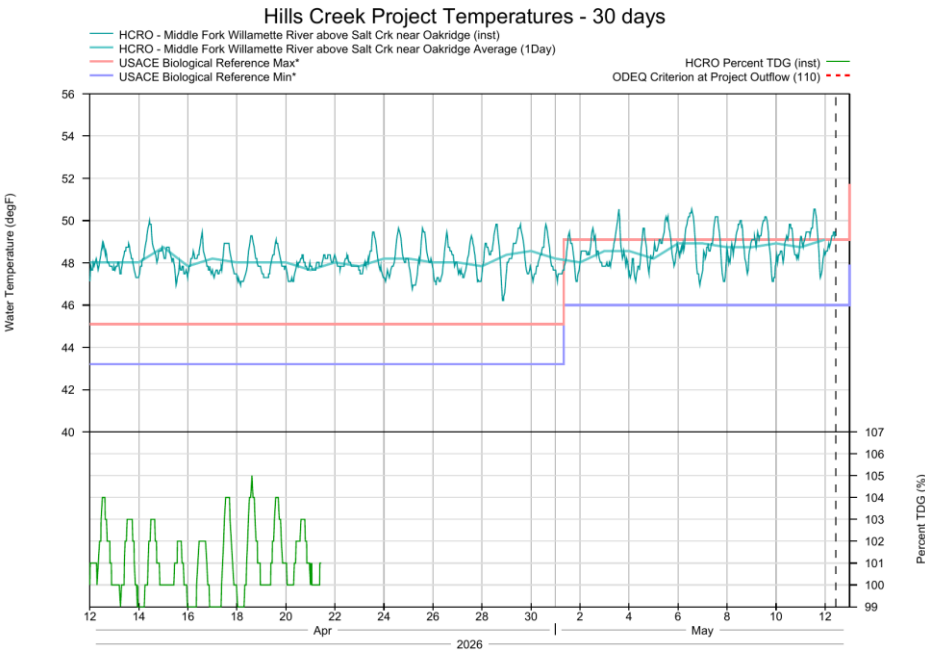
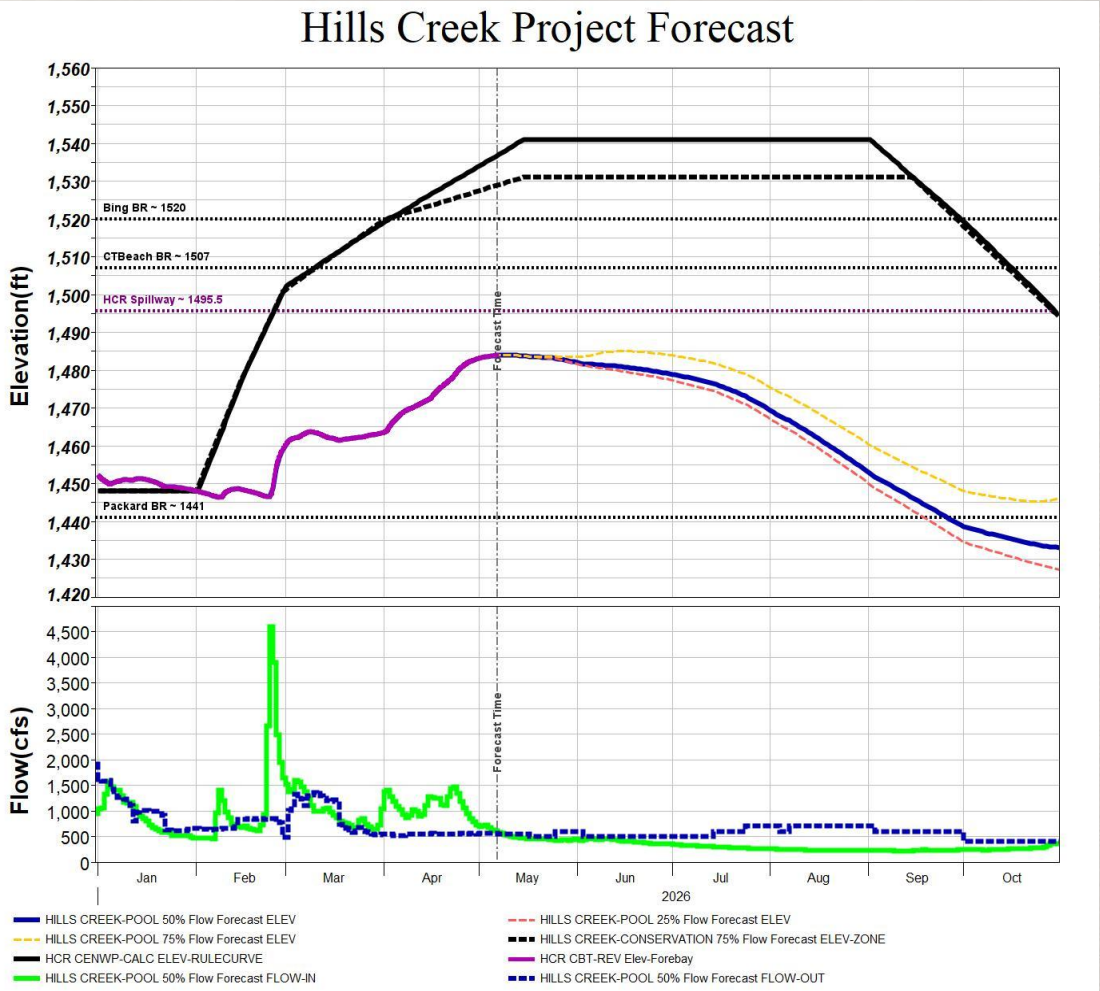
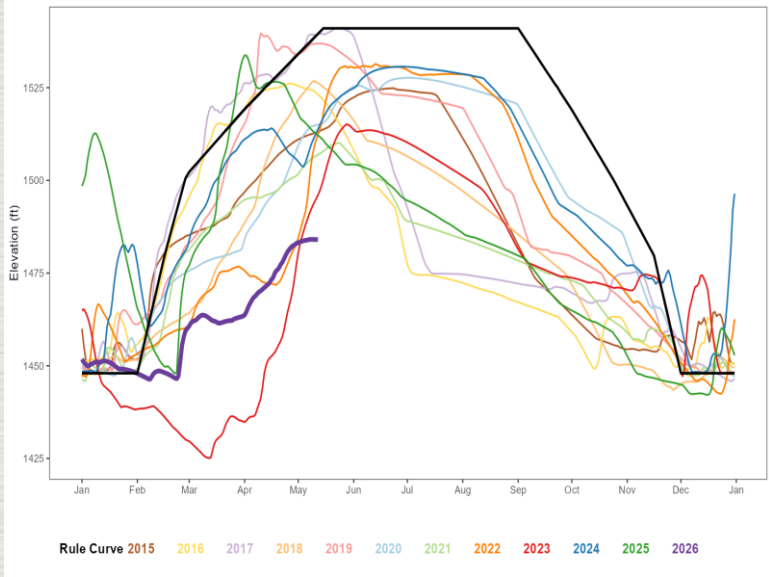
Adequate 1.2-1.48

Insufficient 0.9-1.19

Deficit <0.9



HILLS CREEK

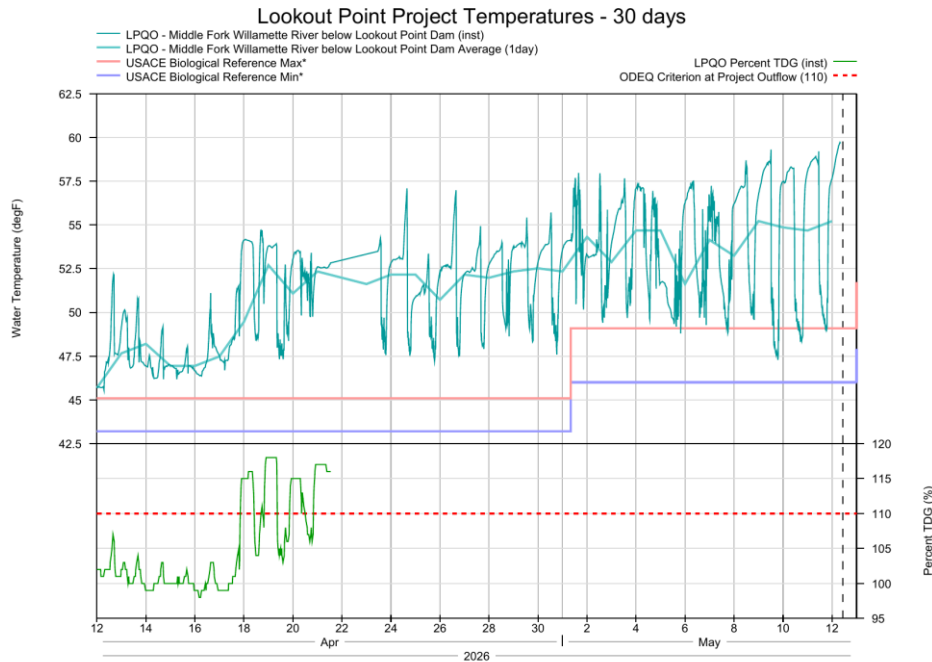
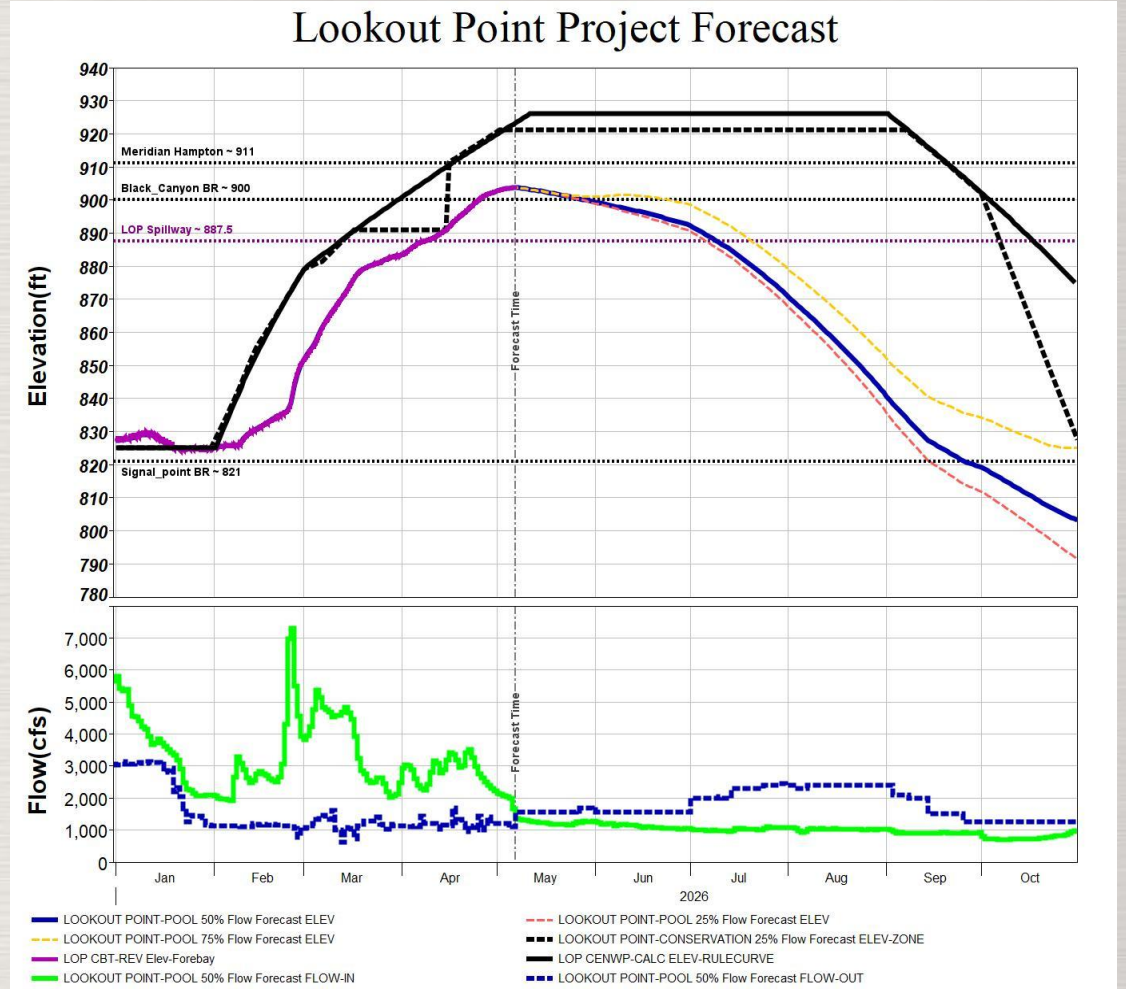
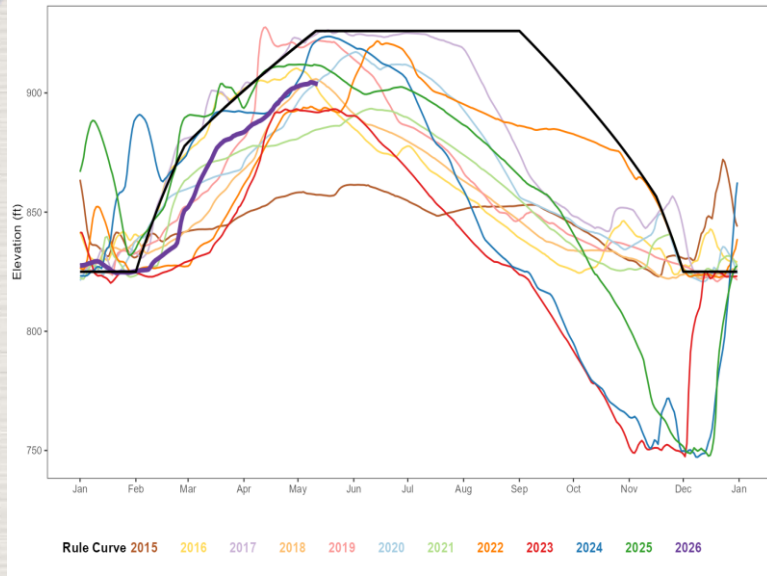


Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 15 May	550	400
16 May - 30 Jun	500 - 600	400
01 Jul - 15 Sep	500 - 700	400
16 Sep - 30 Oct	400 - 600	400

*The USACE Biological References for minimum and maximum temperatures are unofficial guidelines used by the USACE to compare with measured temperatures.



LOOKOUT POINT



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 31 Aug	1,550 - 2,450	1,200
31 Aug - 30 Oct	1,250 - 2,400	1,200

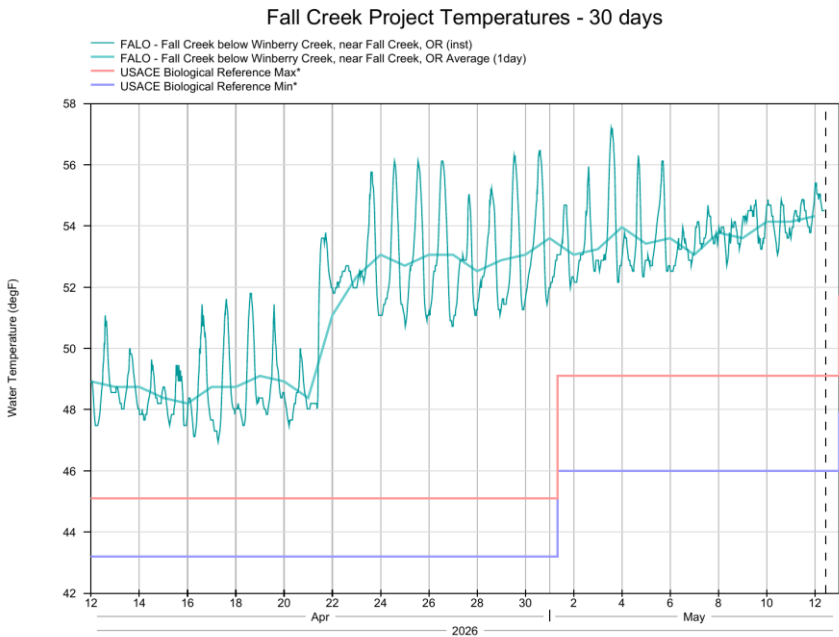
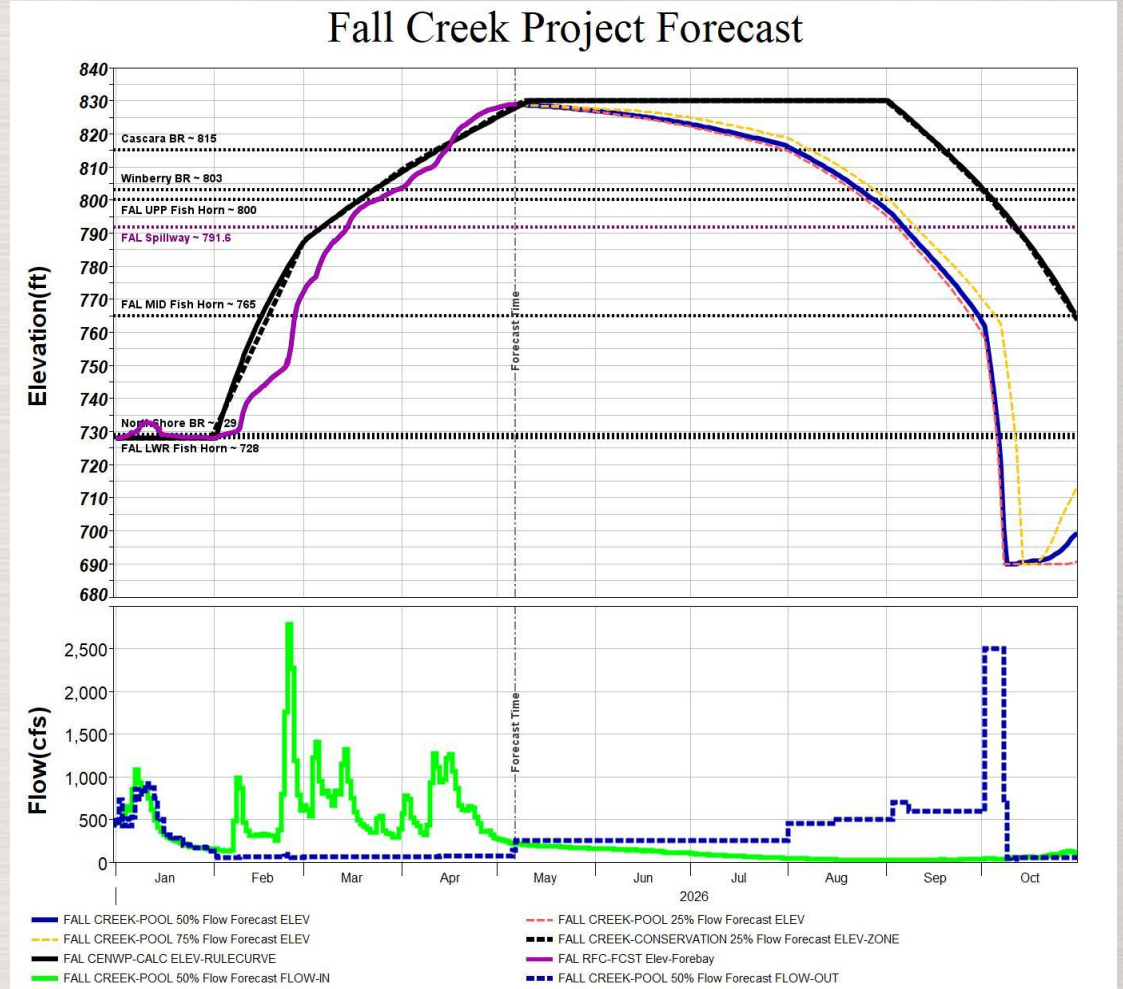
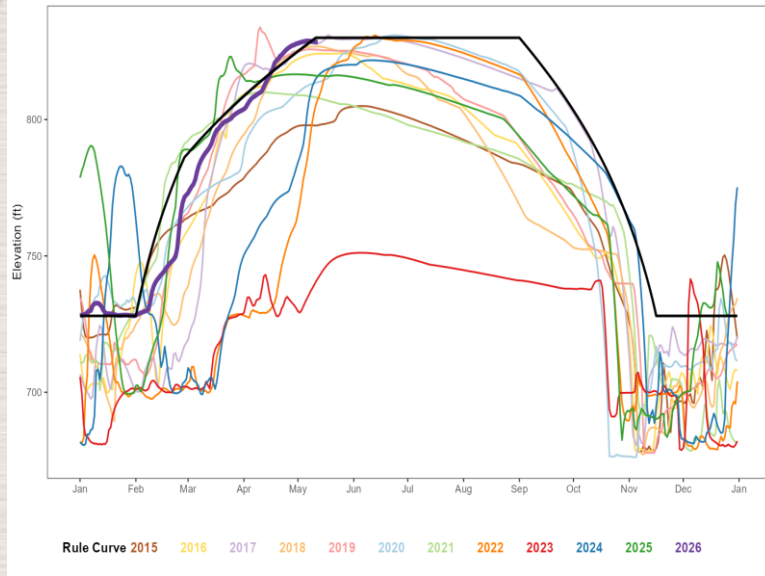


FALL CREEK



17

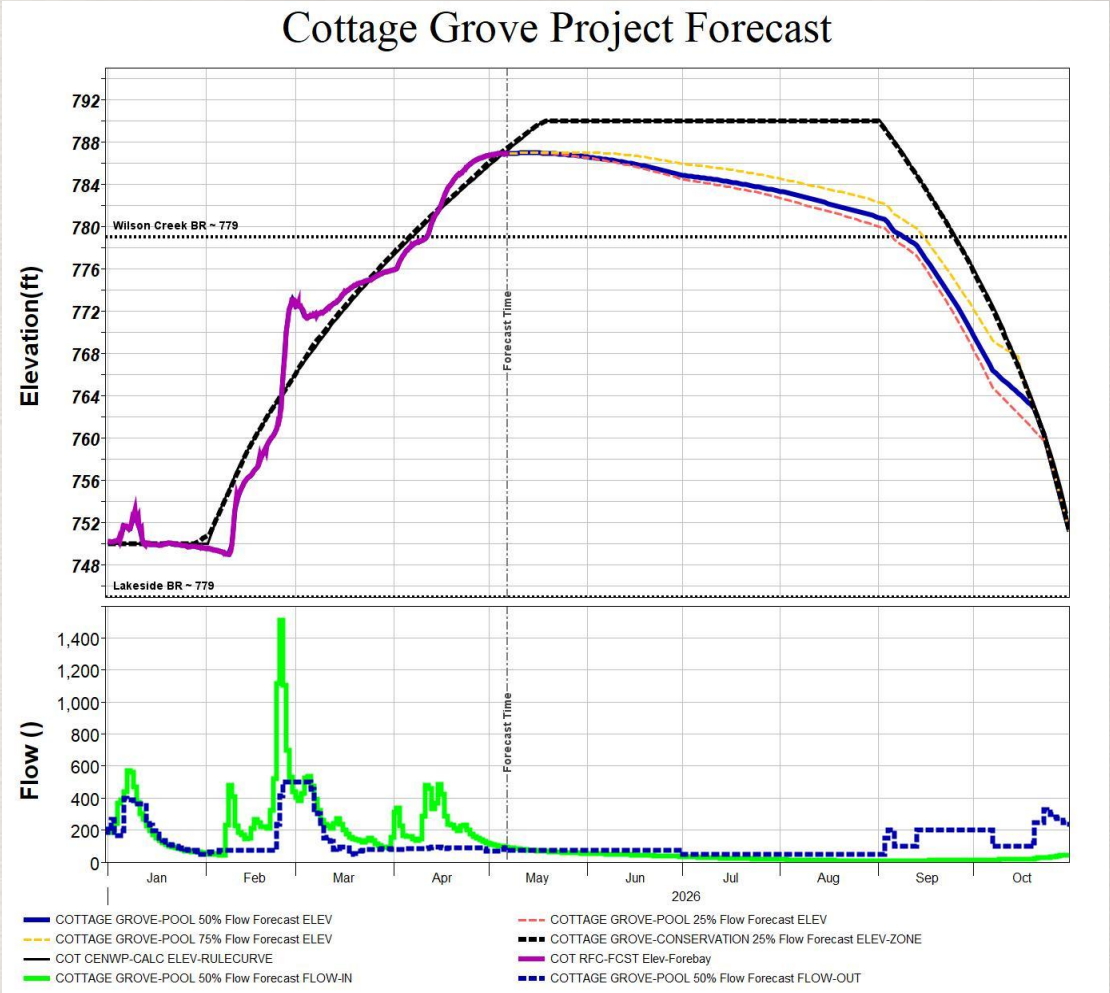
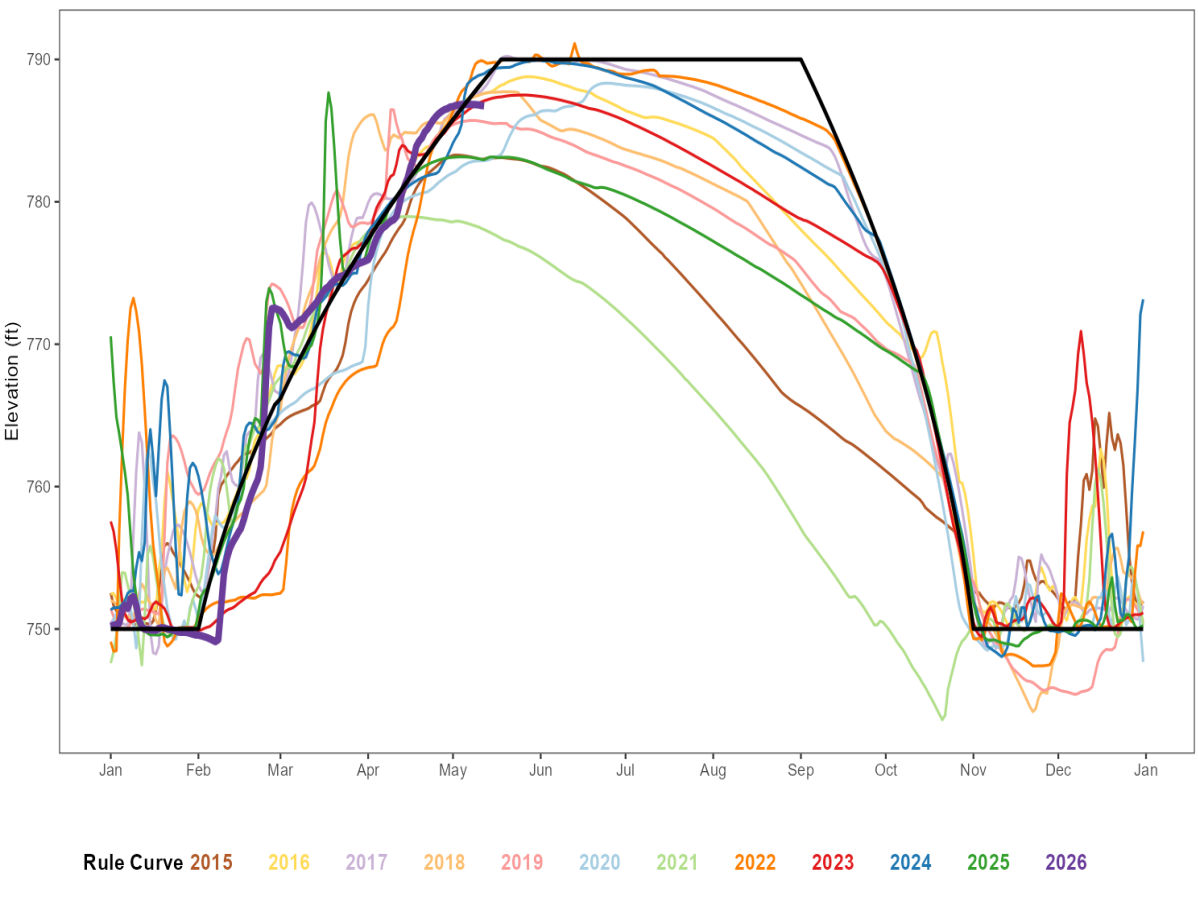
US Army Corps
of Engineers®



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 31 May	250	80
01 Jun - 31 Aug	250 - 500	80
01 Sep - 30 Oct	31 - 2,500	50 - 200



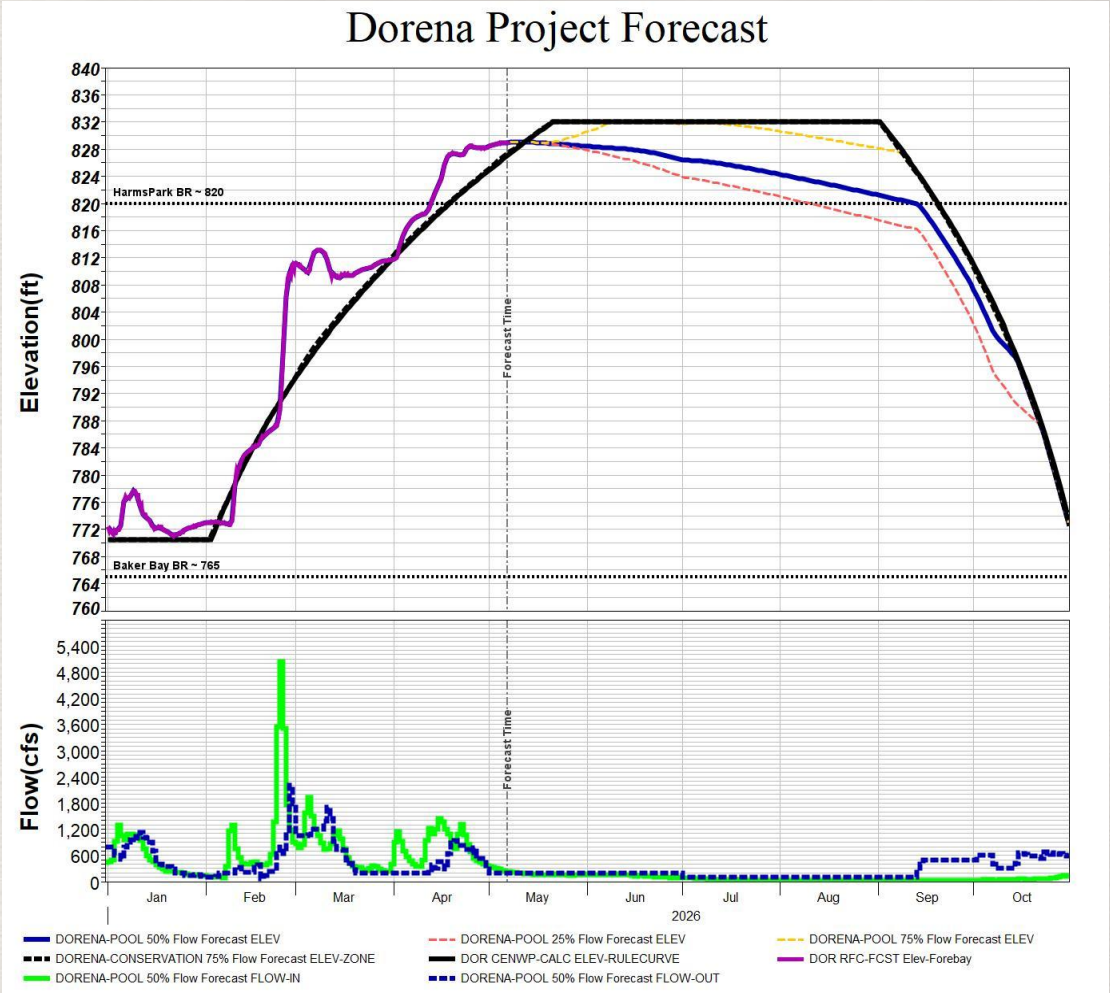
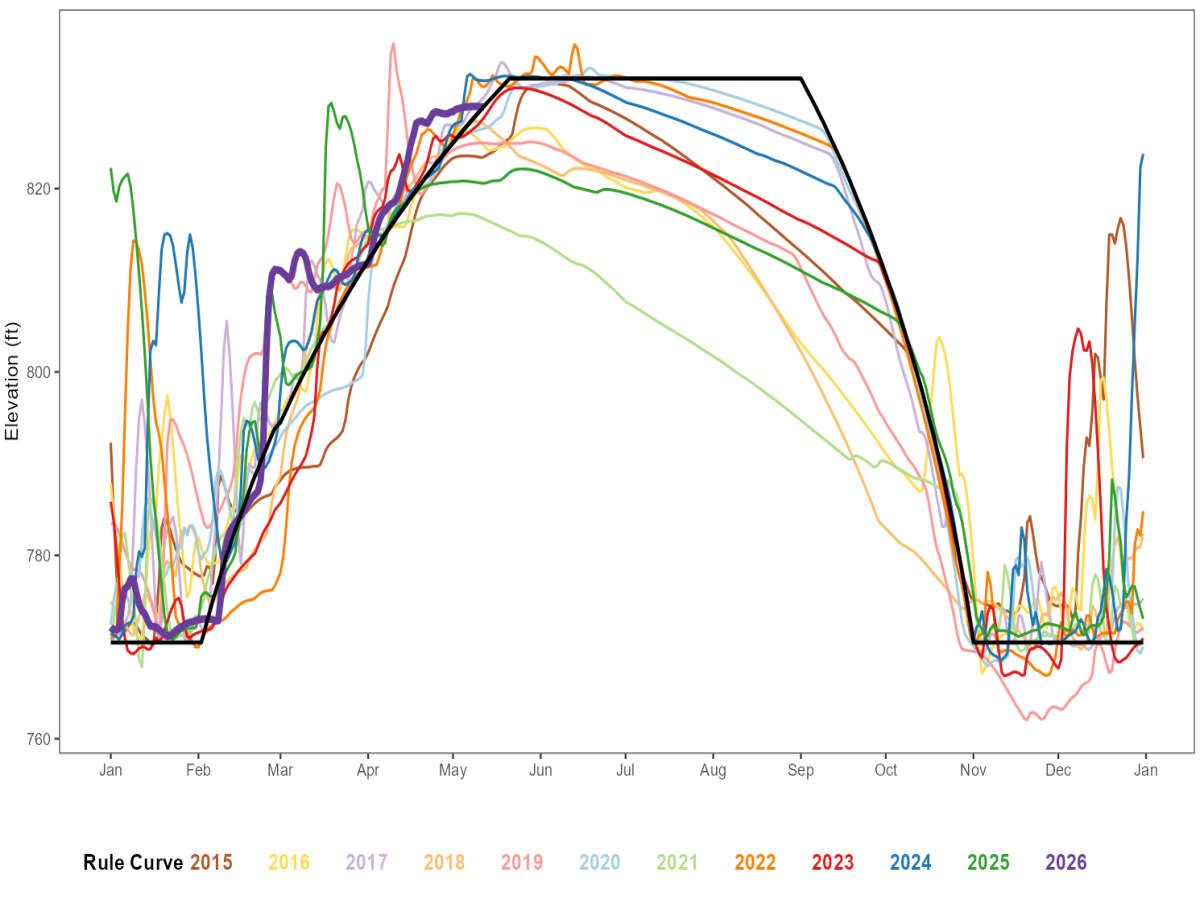
COTTAGE GROVE



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 30 Jun	75	75
01 Jul - 30 Oct	50 - 327	50



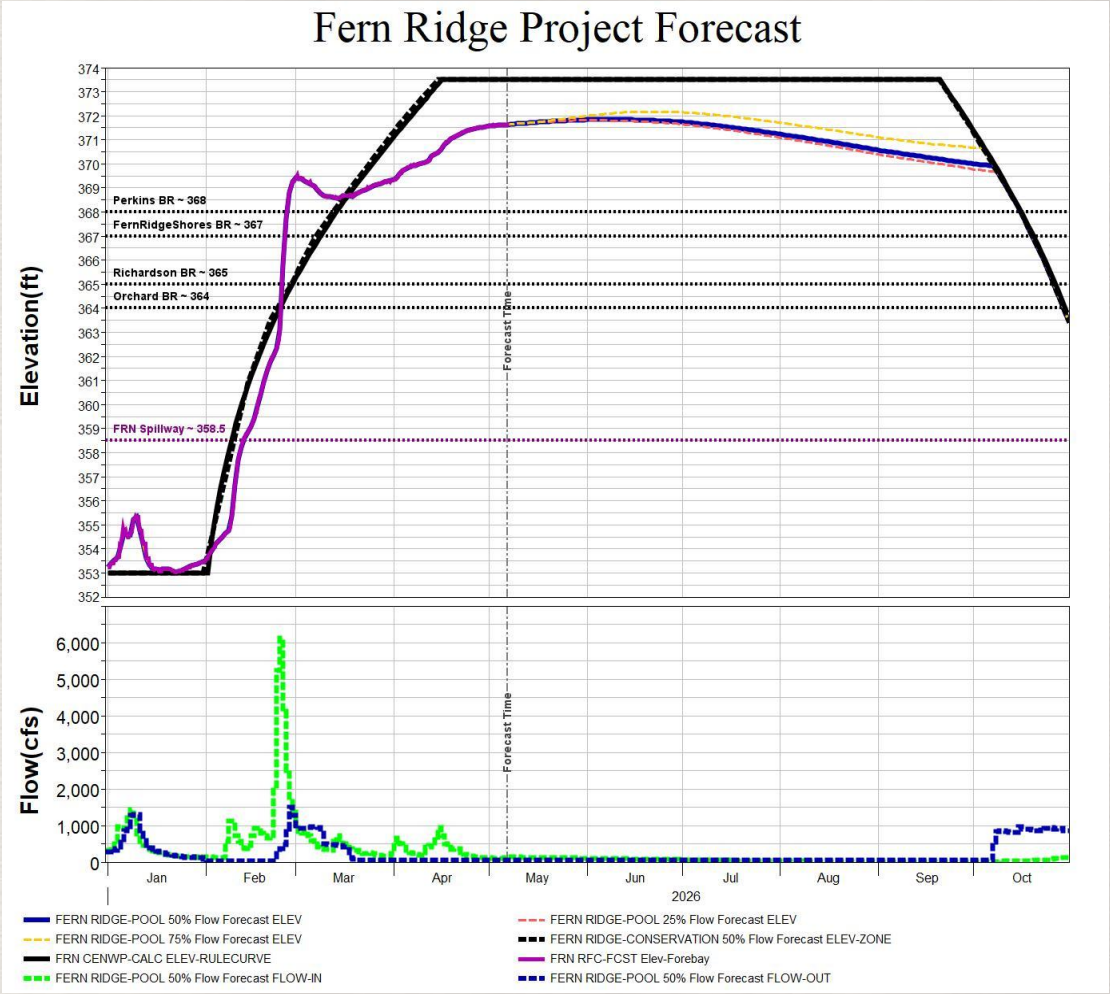
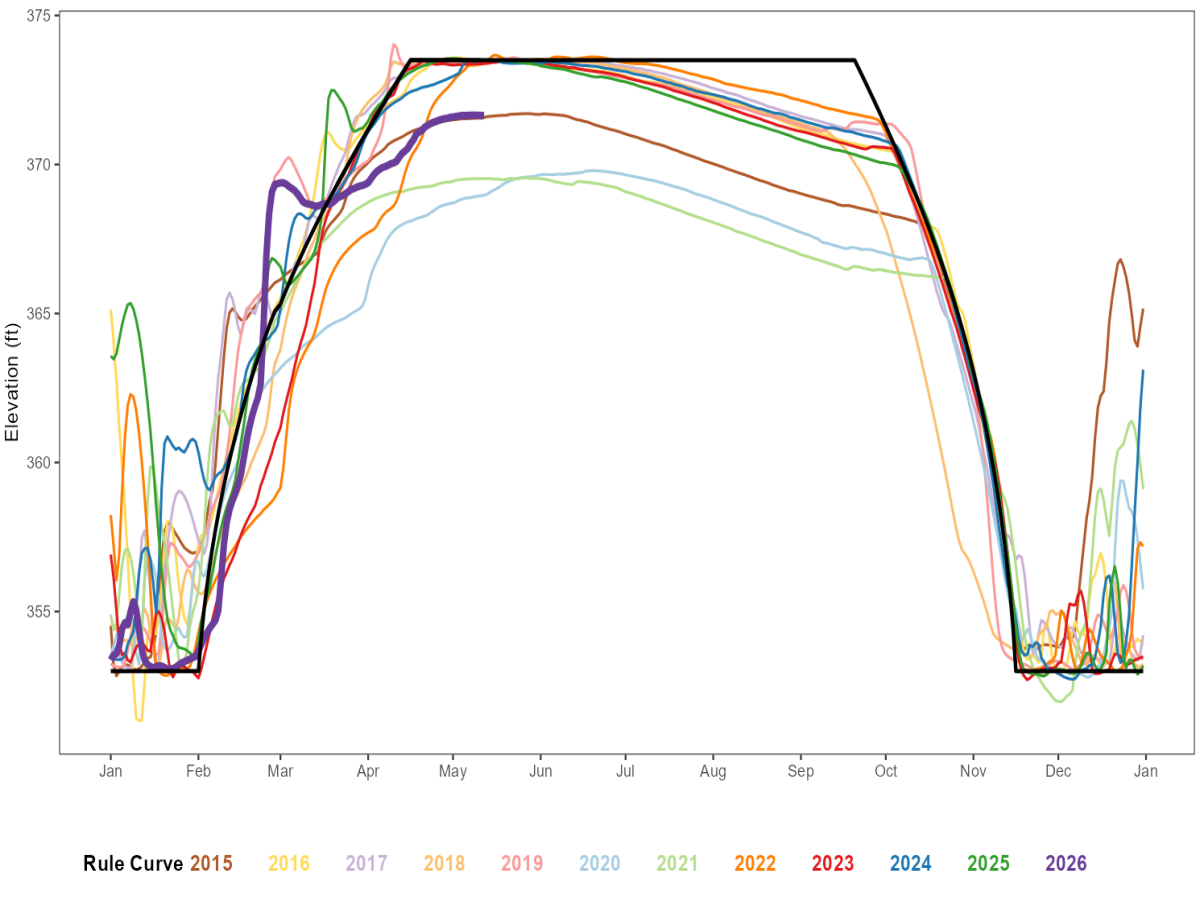
DORENA



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 30 Jun	190	190
01 Jul - 31 Aug	100	100
01 Sep - 30 Oct	100 - 682	100



FERN RIDGE



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs) at Monroe
13 May - 15 May	50	50
16 May - 30 Jun	50	50
01 Jul - 30 Oct	50 - 961	30

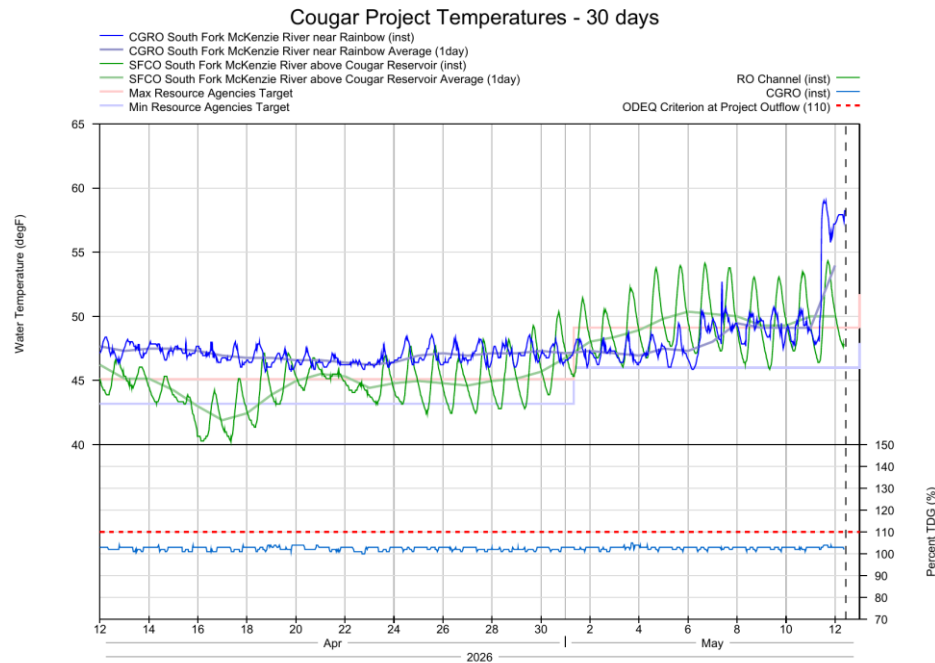
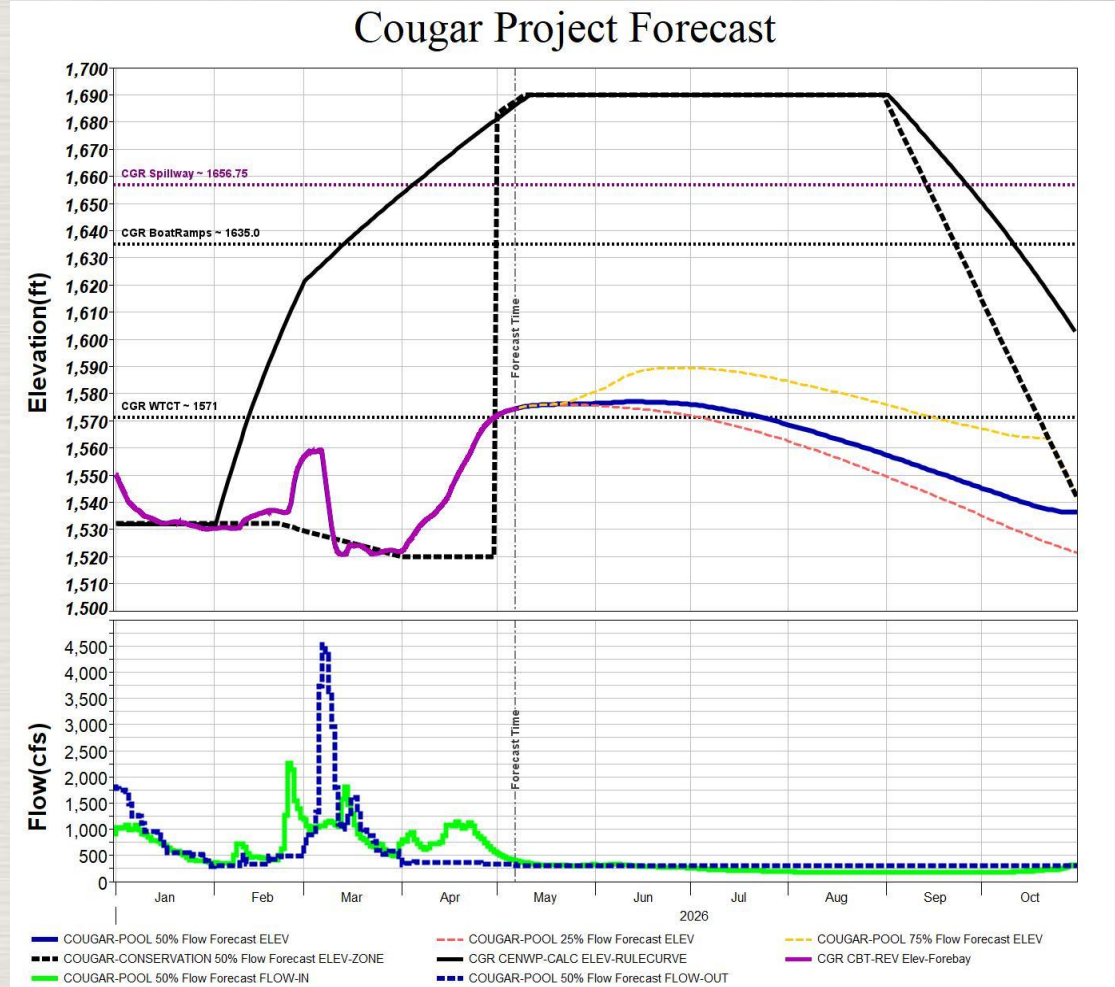
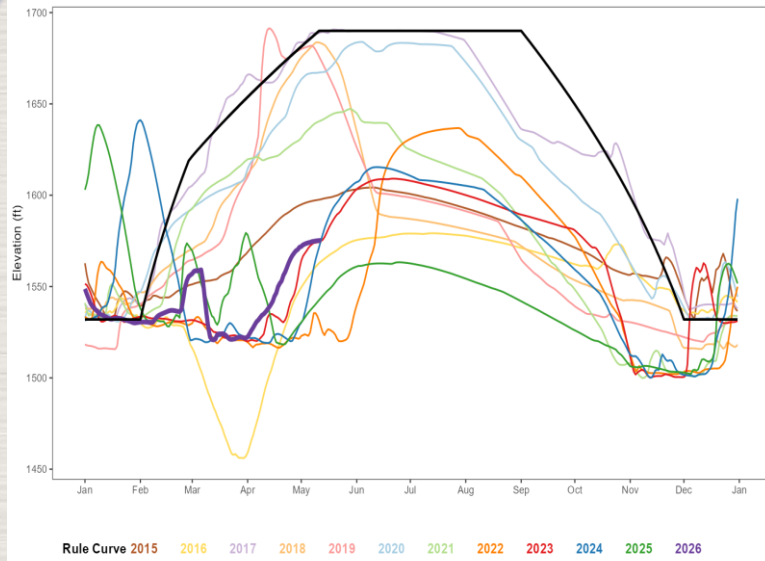


COUGAR



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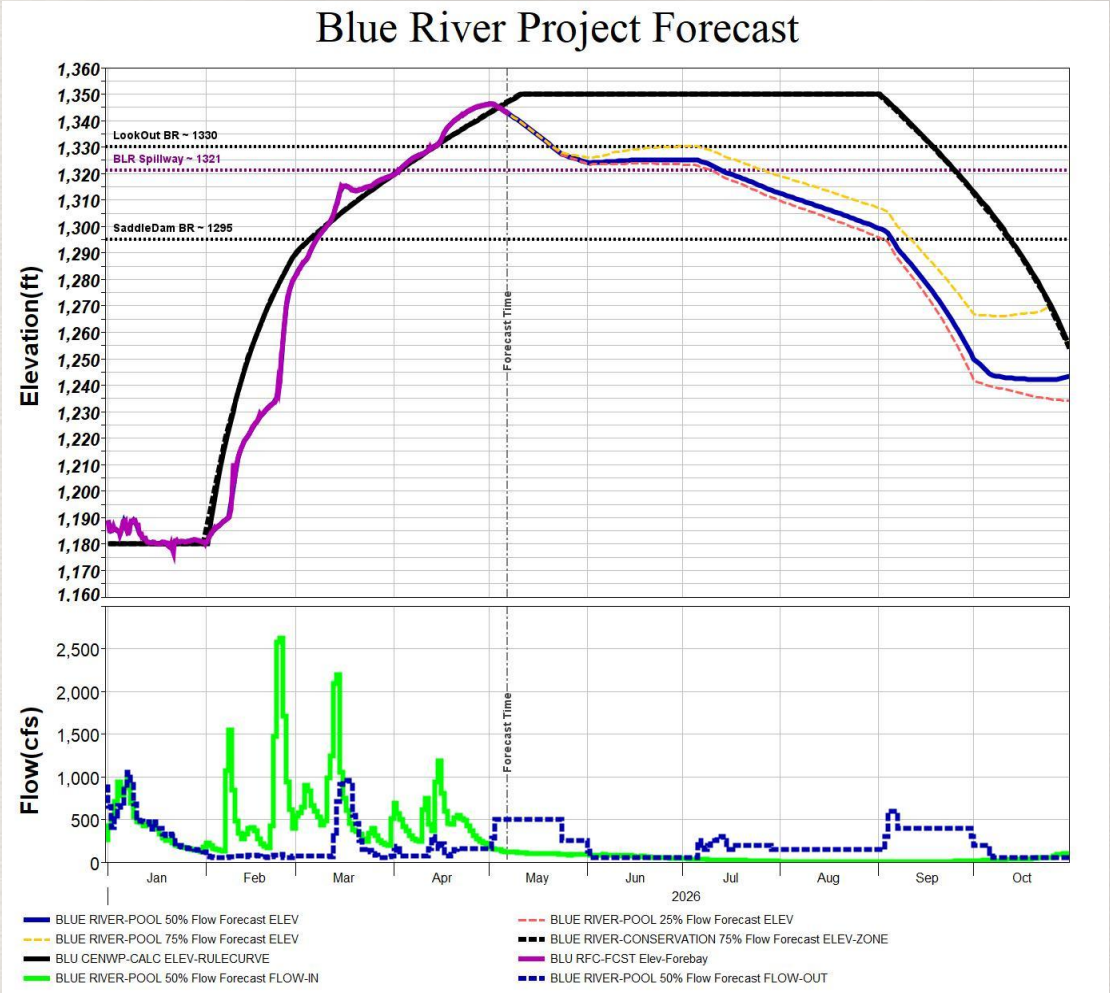
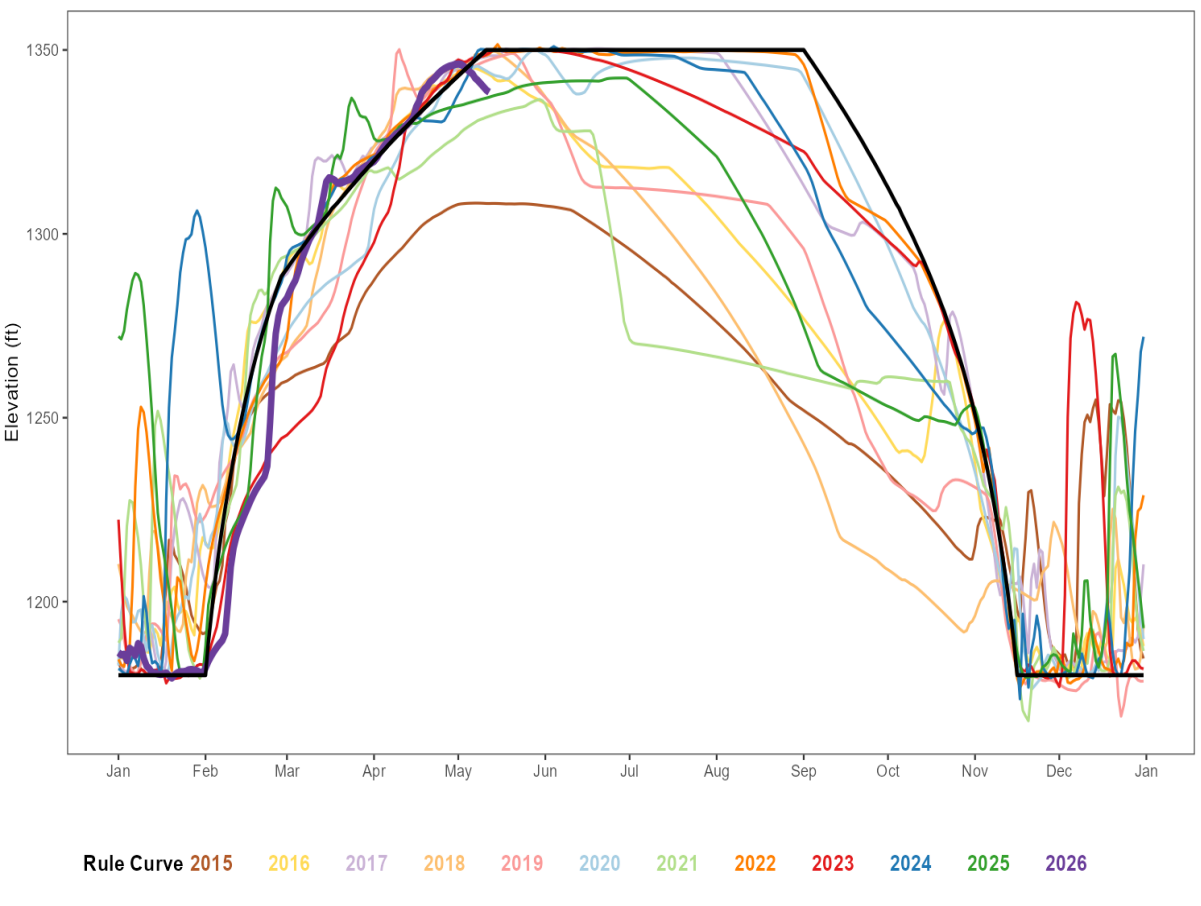
US Army Corps of Engineers®



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 31 May	300	300
01 Jun - 30 Oct	300	300 - 400



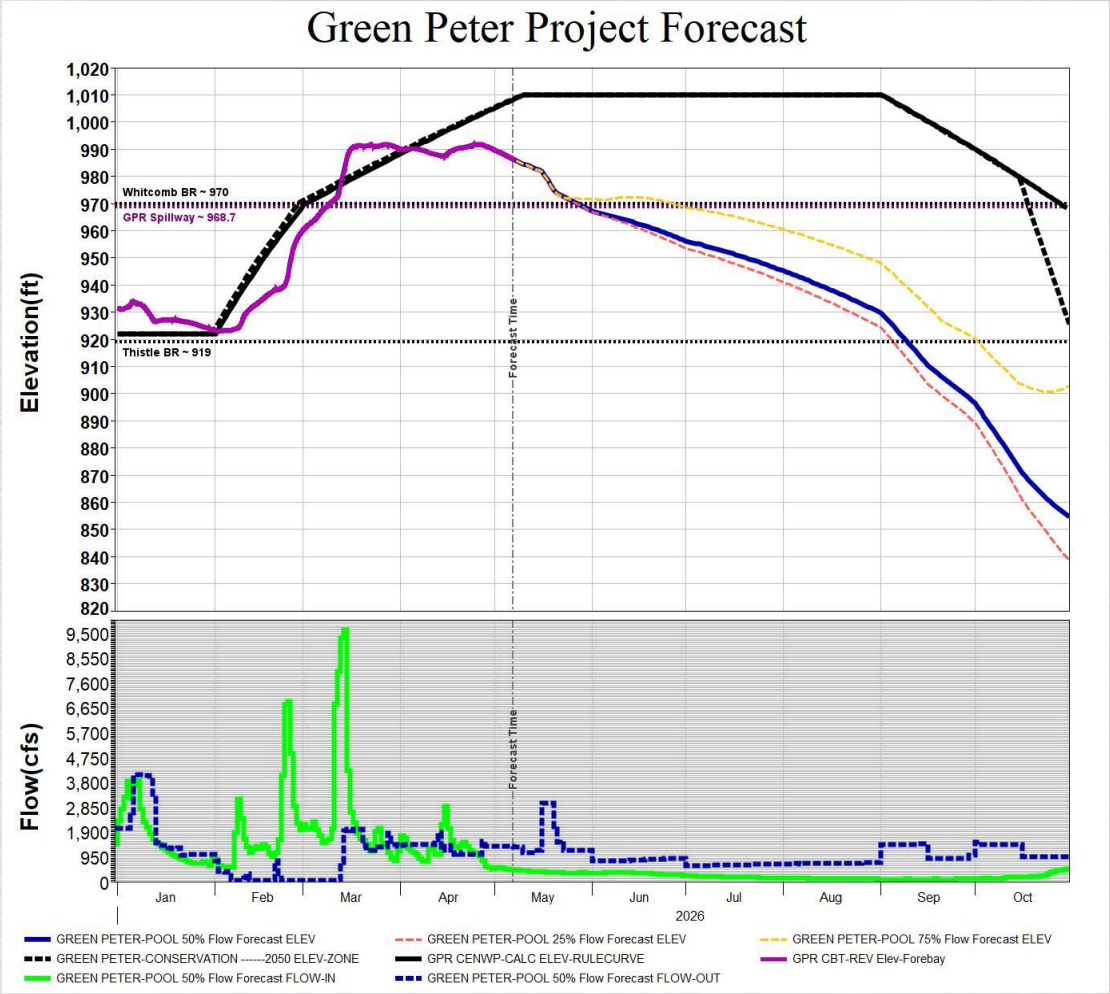
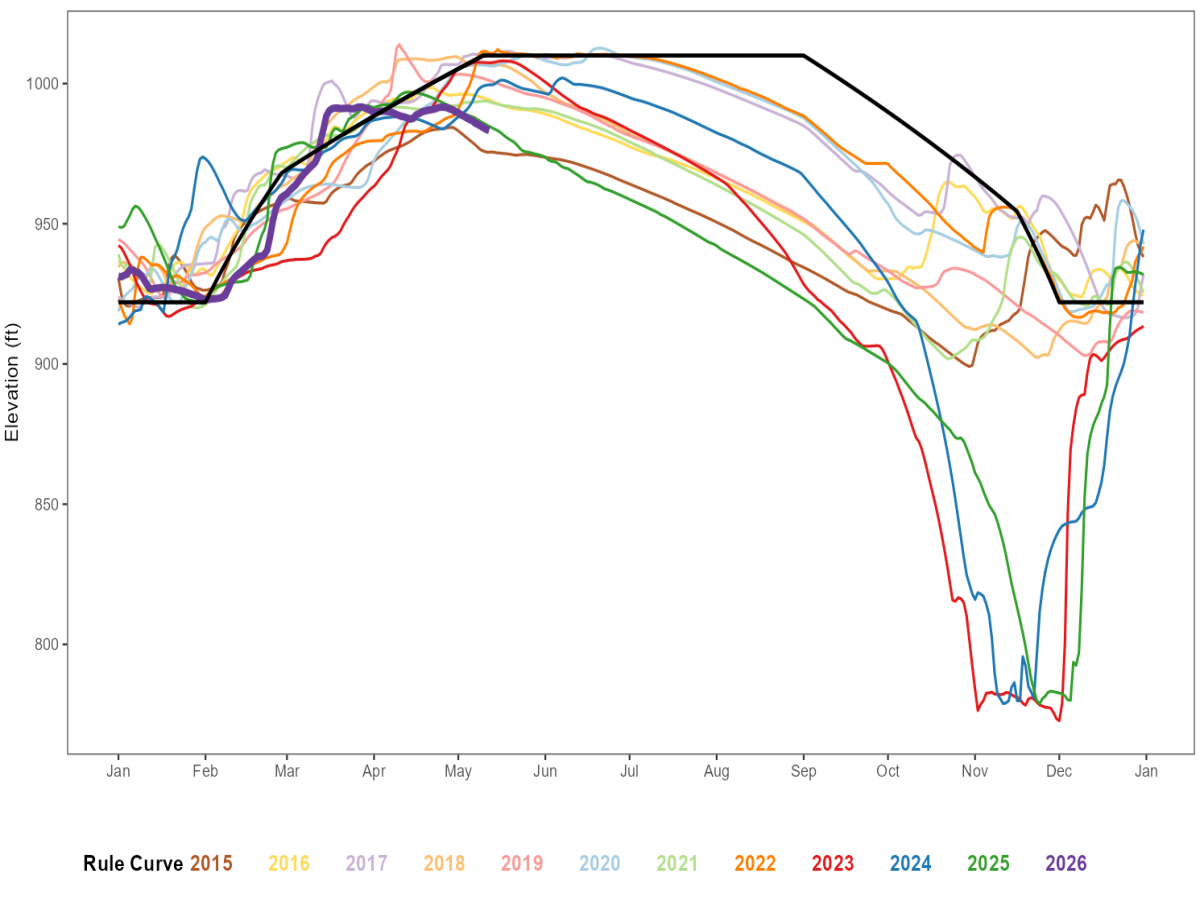
BLUE RIVER



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs)
13 May - 31 May	250 - 500	50
01 Jun - 30 Oct	50 - 600	50



GREEN PETER



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs) at SSFO
13 May - 15 May	1,200	1,500
16 May - 30 Jun	781 - 3,000	1,100
01 Jul - 31 Aug	599 - 716	800
01 Sep - 30 Oct	900 - 1,500	1,100 - 1,500

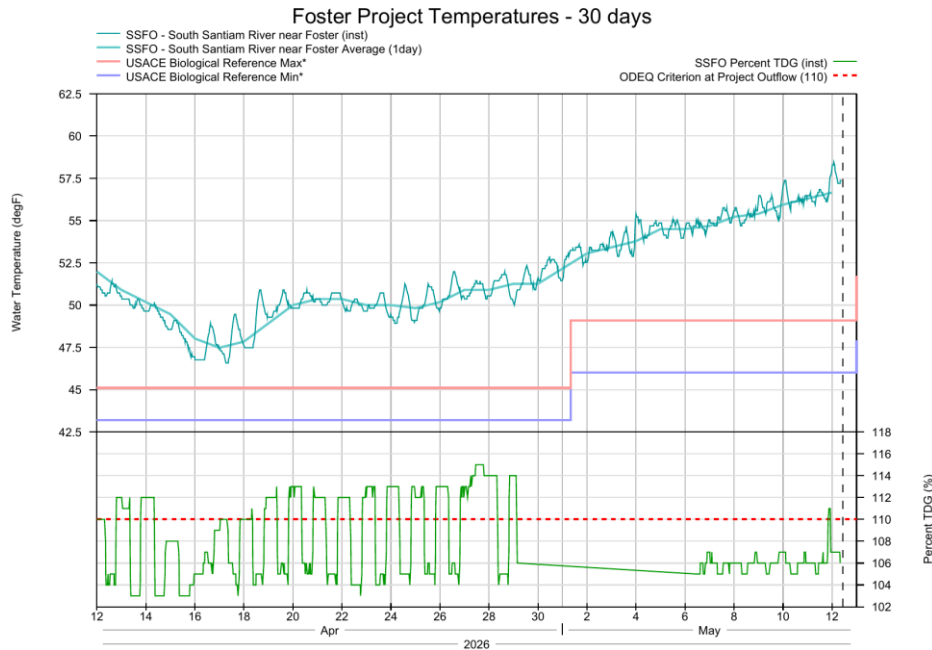
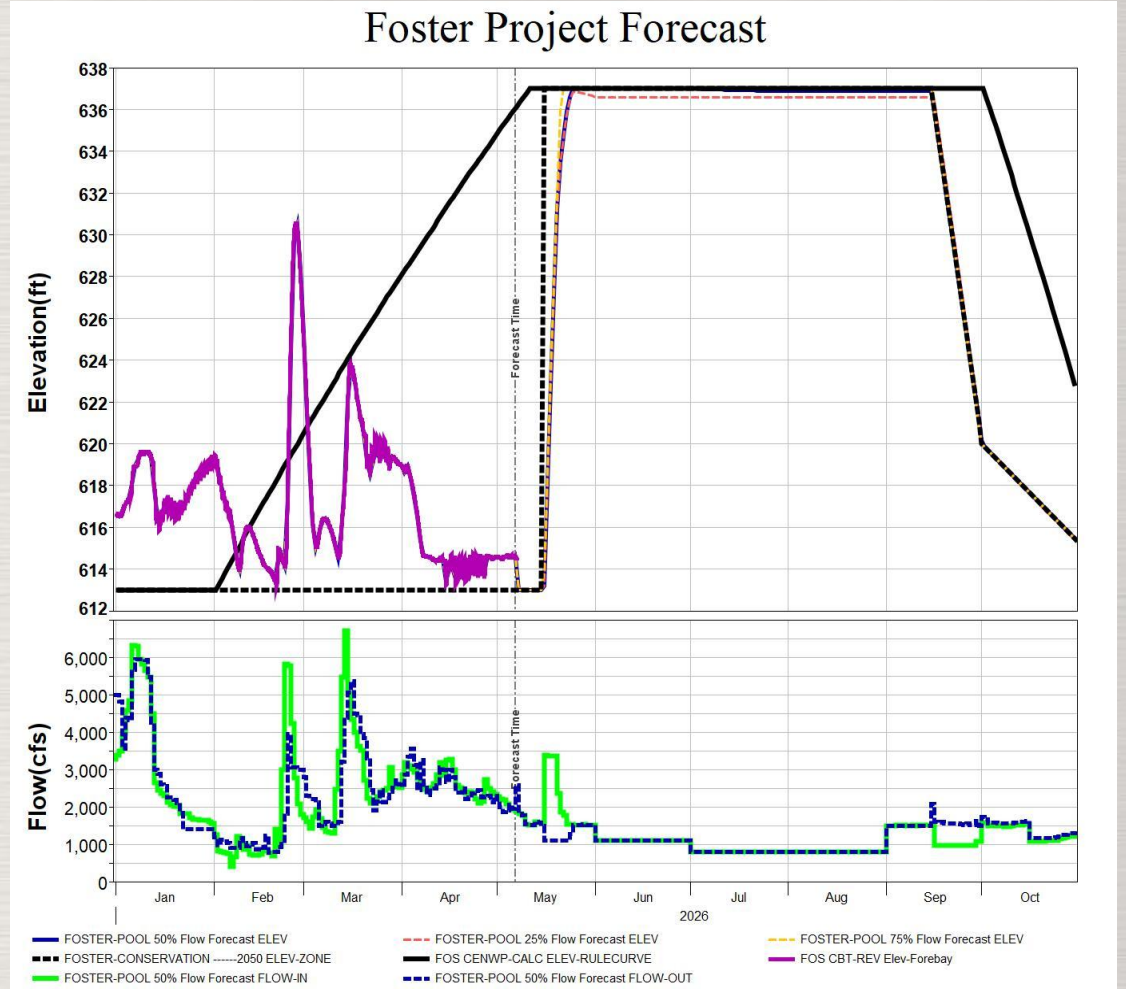
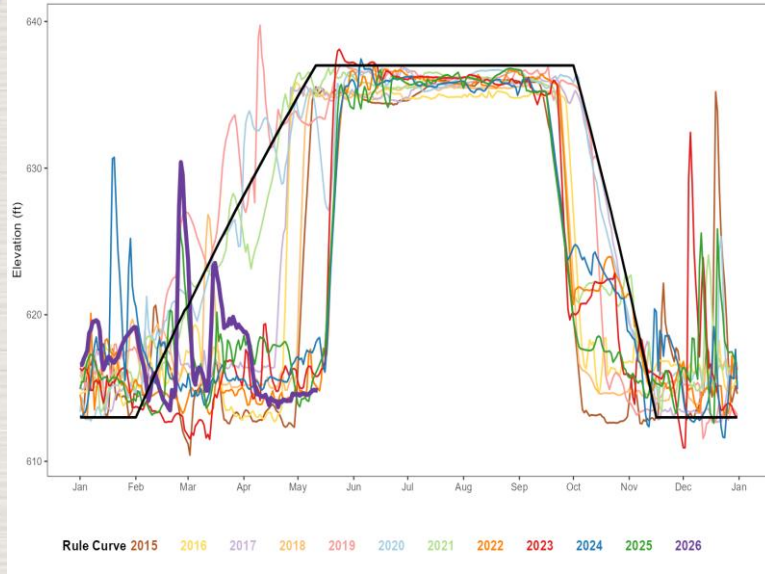


FOSTER



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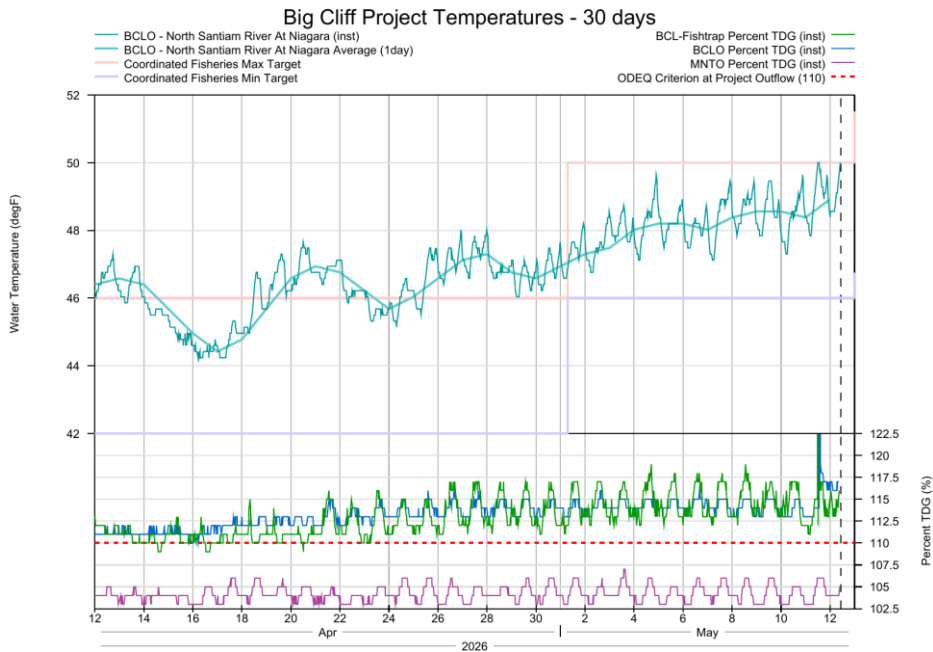
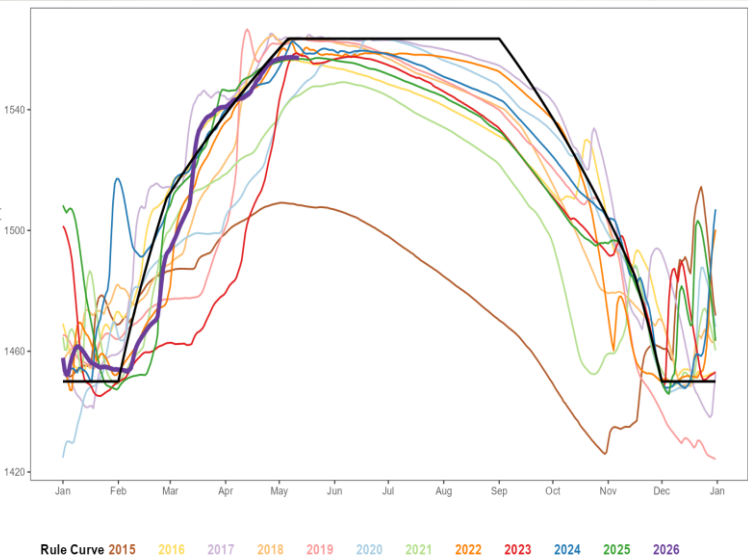
*The USACE Biological References for minimum and maximum temperatures are unofficial guidelines used by the USACE to compare with measured temperatures.

12-May-2026 10:30:16

Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs) at SSFO
13 May - 15 May	1,585	1,500
16 May - 30 Jun	1,100 - 1,527	1,100
01 Jul - 31 Aug	800	800
01 Sep - 30 Oct	1,152 - 2,068	1,100 - 1,500

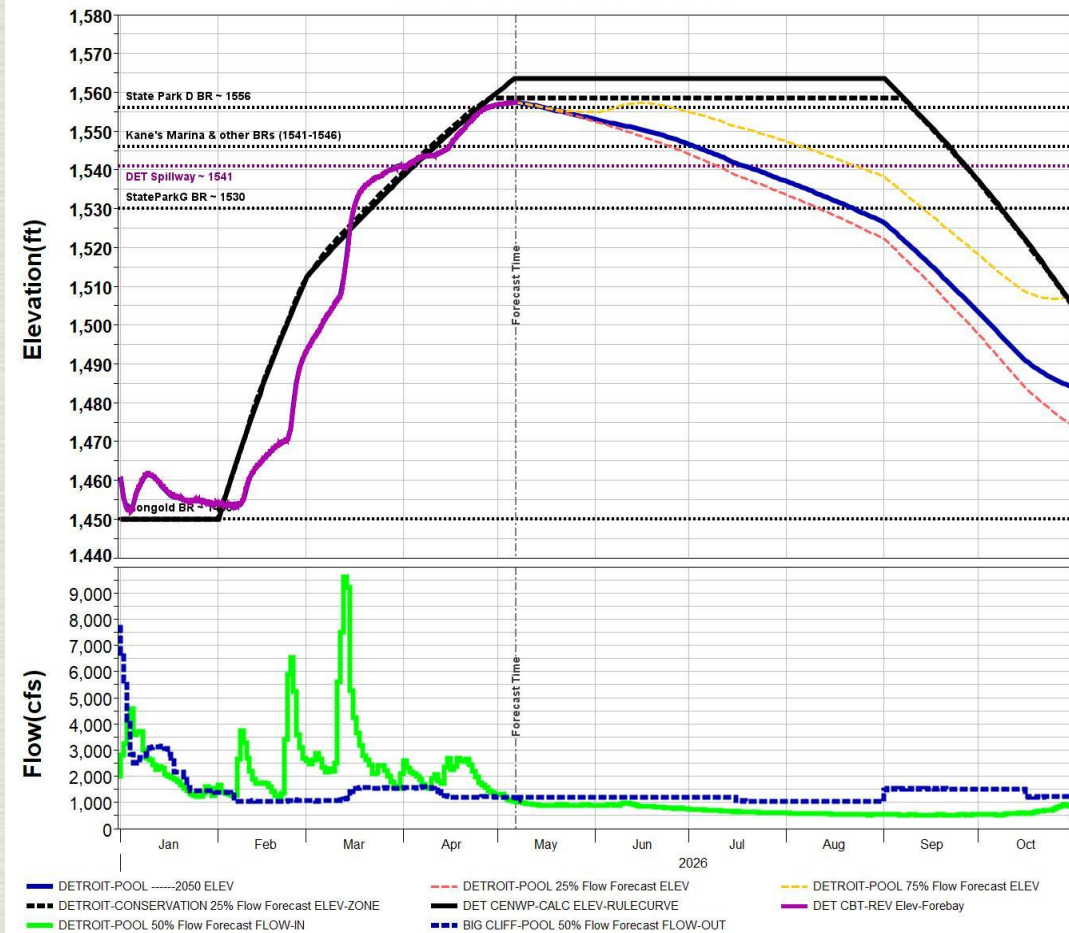


DETROIT



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Detroit Project Forecast



Date Range	Modeled Flow (cfs)	2008 BiOp Min Flow (cfs) at BCLO
13 May - 31 May	1,197 - 1,203	1,500
01 Jun - 15 Jul	1,200	1,200
16 Jul - 31 Aug	1,037 - 1,056	1,000
01 Sep - 30 Oct	1,202 - 1,549	1,200 - 1,500



DISCUSSION

USACE Flow Management and Water Quality Plan through May 2026

- Project specific 2024 BiOp operations for fish passage and water quality (temperature and TDG).
- Maintain minimum 2008 BiOp minimum tributary flows, except coordinated N. Santiam reduction
- Deficit Year Salem Targets primarily using Prioritize augmentation from Hills Creek, Lookout Point, Fall Creek, and Blue River

Discussion

Previous adjustments/discussions

- Lookout Point
 - No spillway fish passage but conducting temperature management spill as of 17 Apr until SWC is lost (~early July)
 - Later season temperature management, prioritizing regulating outlets
- Cougar delayed refill start date.
 - Poor snowpack and forecasted precipitation risk refill and use of temperature tower.
 - Started refill April 3
- Green Peter/ Foster
 - Starting May 16, start FOS refill to summer band.
- Detroit reduced BiOp minimum flow starting April 10th
 - Benefit: Allows longer temperature management season
 - Impact: Reduced flow going to Salem
- New date needed for July FMWQT (small group)

Next FMWQT (larger group)
27 May 2026