

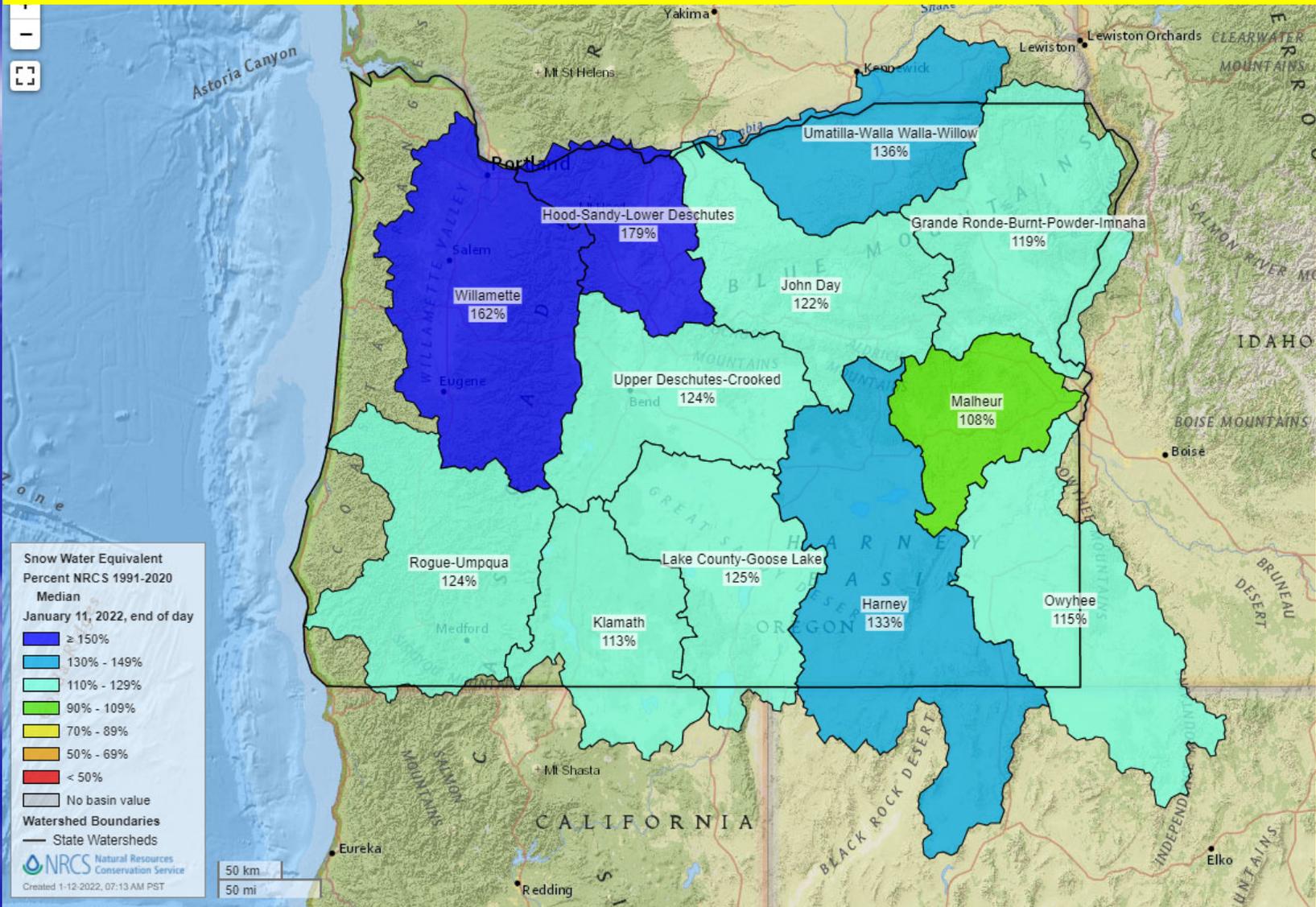


**Oregon Water Supply Availability
Committee
February 9, 2022**

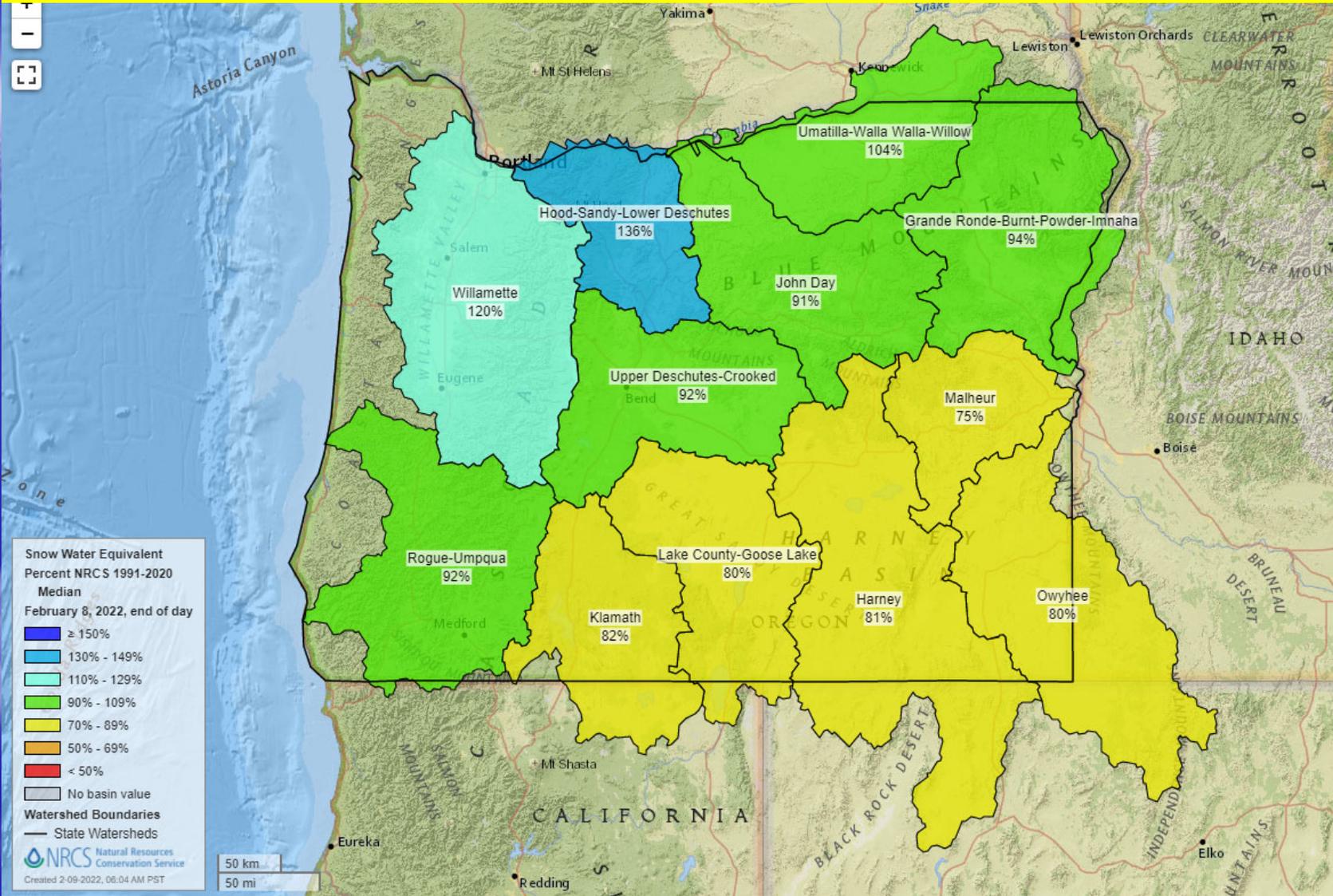
**Anthony Lakes Snow Course January 26, 2022
Baker County**

**H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviat@usda.gov
541-429-2359**

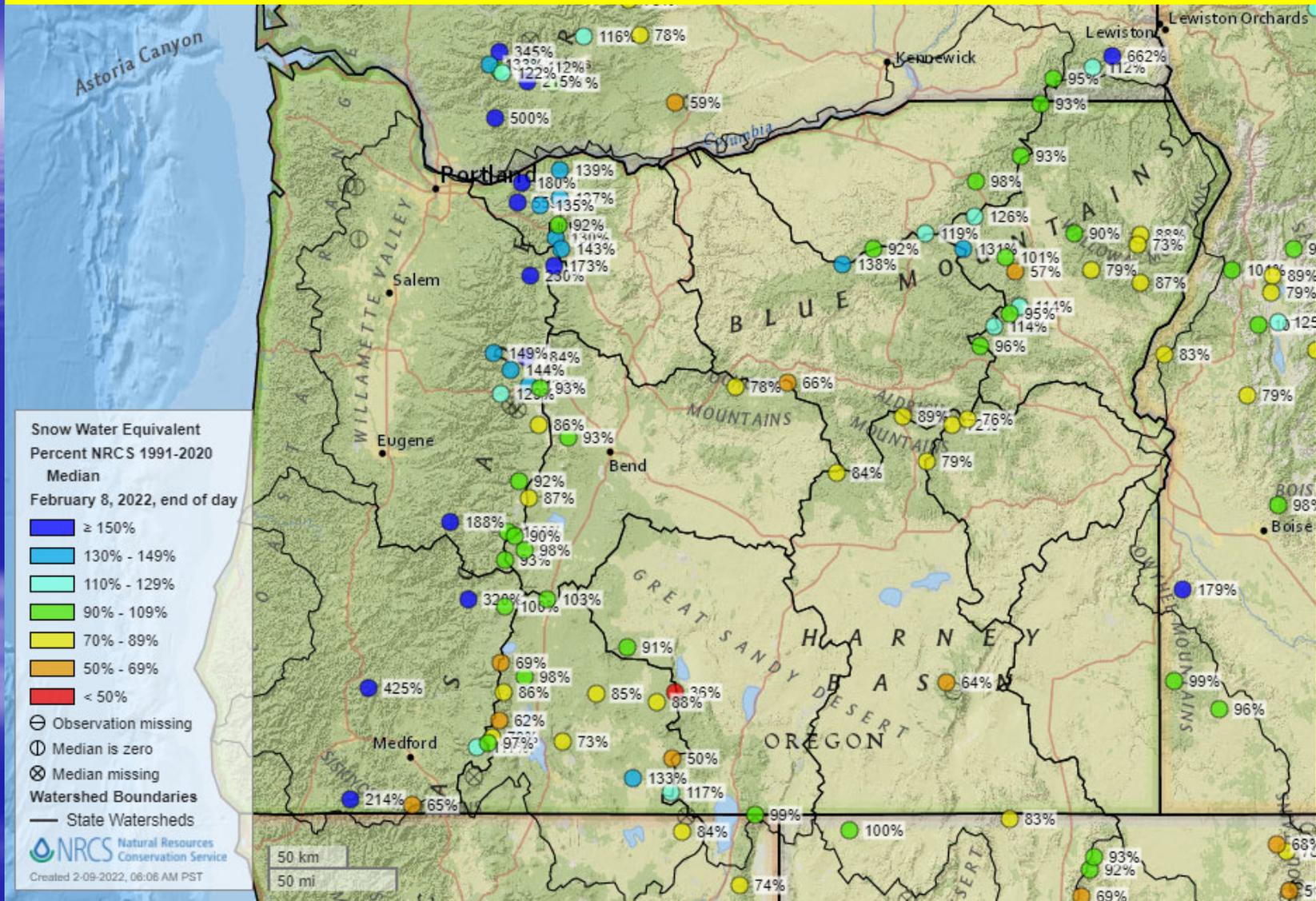
January 12, 2022, Statewide SNOTEL Snow Water Equivalent was 139% of 1991-2020 median



February 9, 2022, Statewide SNOTEL Snow Water Equivalent is 104% of 1991-2020 median

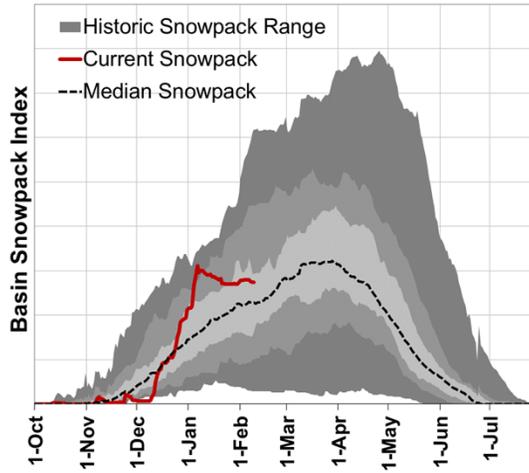


February 9, 2022, Statewide SNOTEL Snow Water Equivalent is 104% of 1991-2020 median

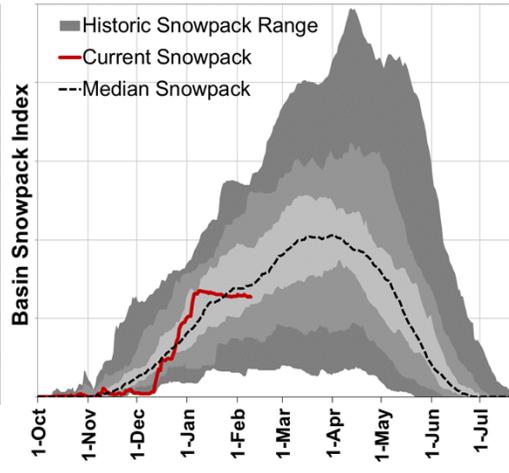


OREGON SNOWPACK GRAPHS – February 9, 2022

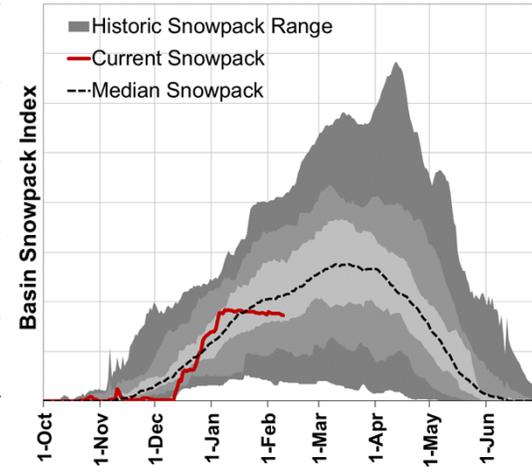
Willamette



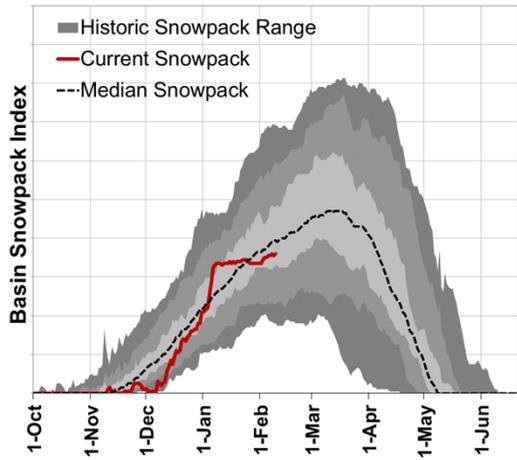
Rogue-Umpqua



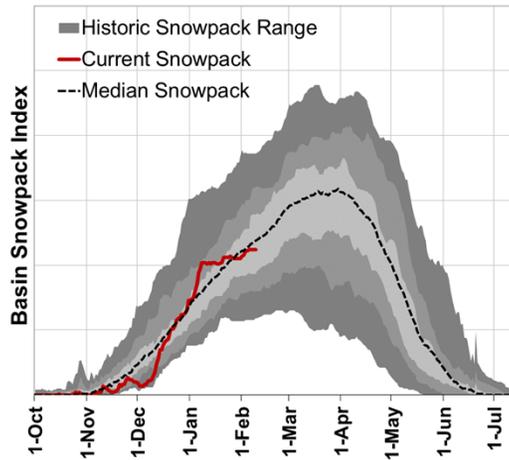
Klamath



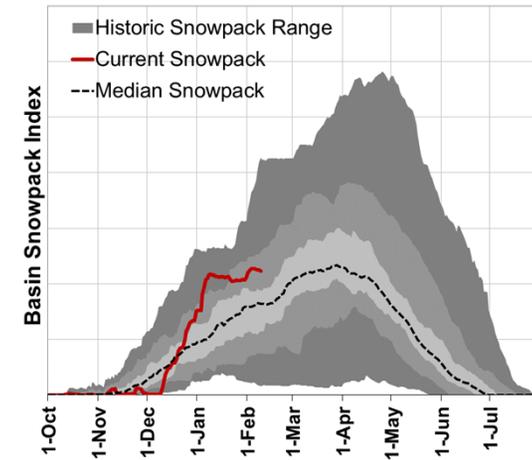
John Day



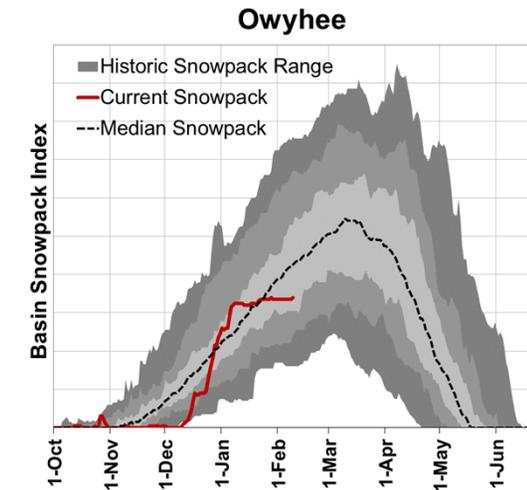
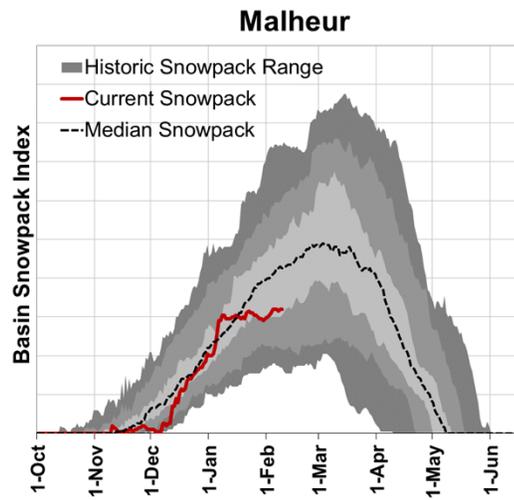
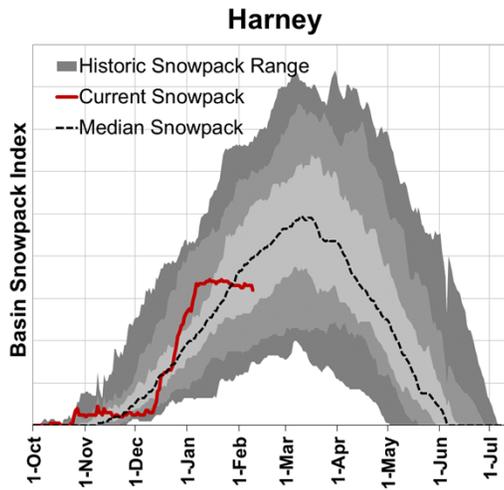
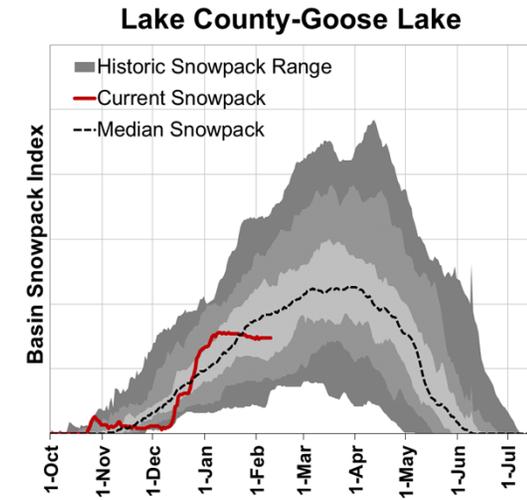
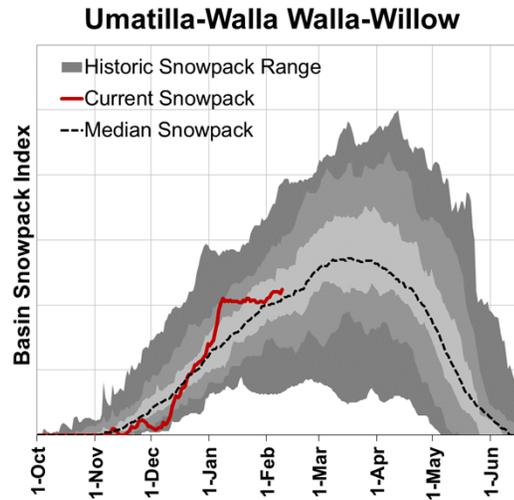
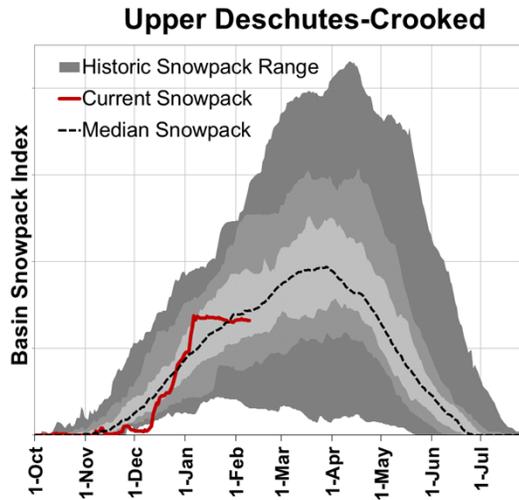
Grande Ronde-Burnt-Powder-Imnaha



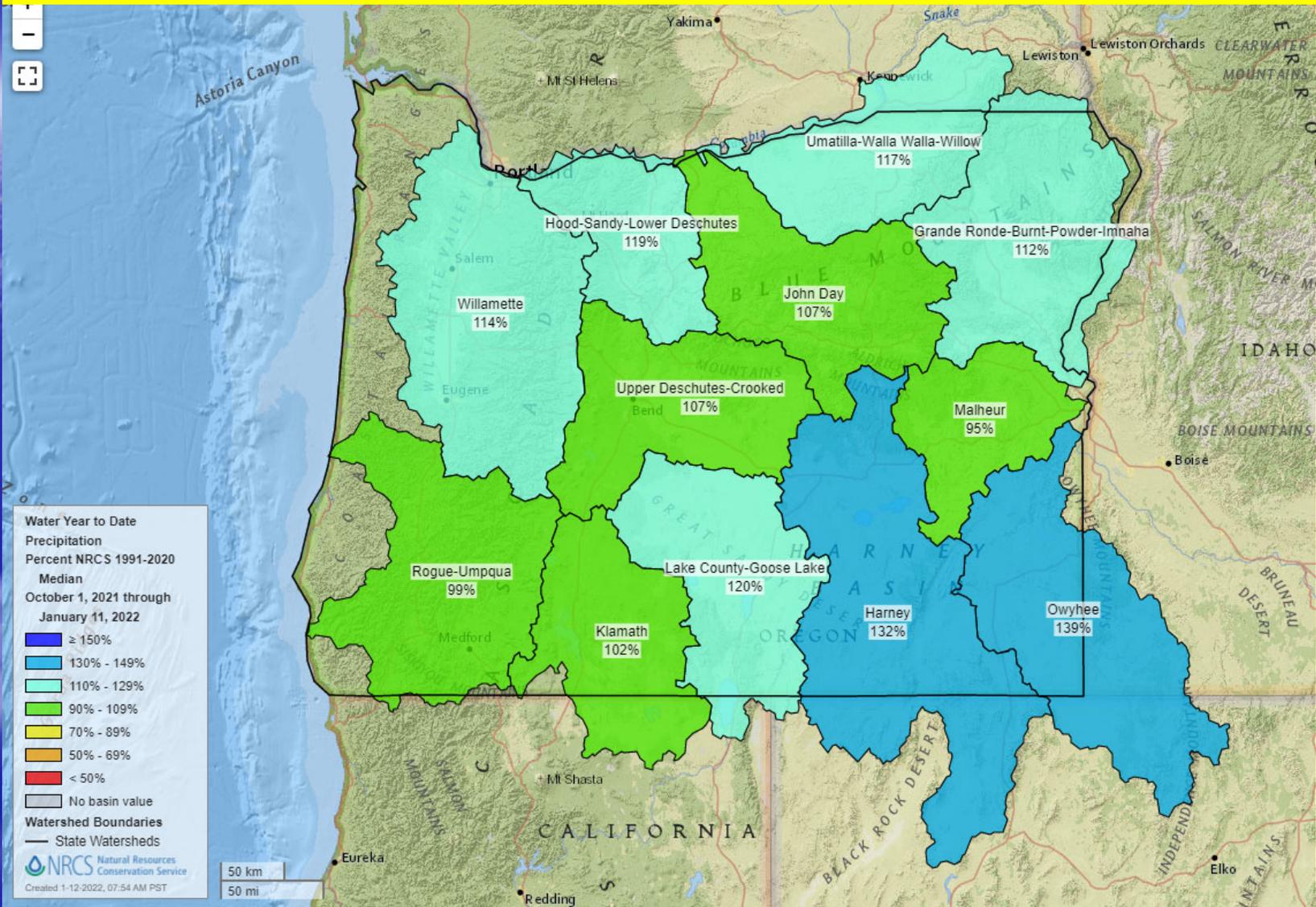
Hood-Sandy-Lower Deschutes



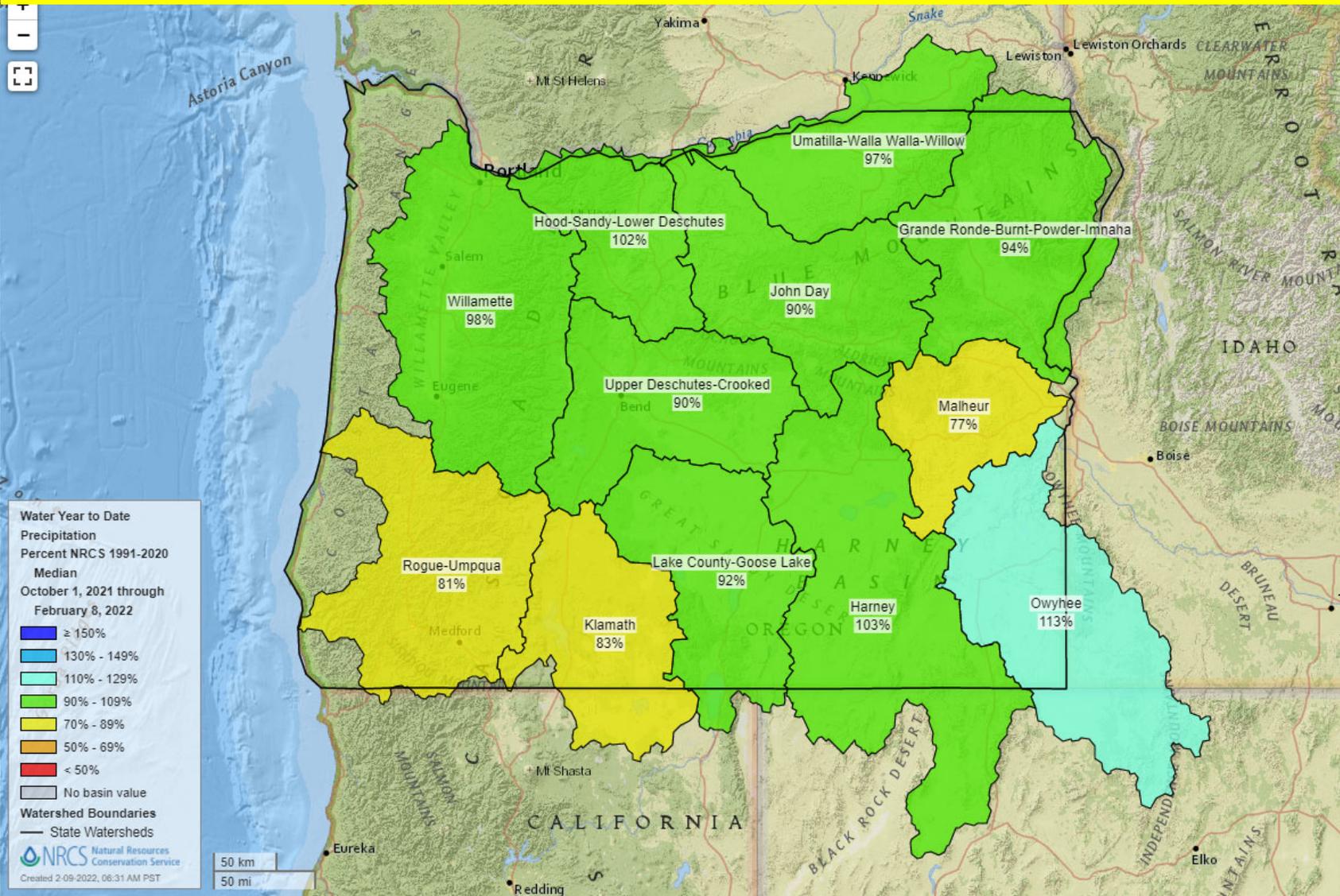
OREGON SNOWPACK GRAPHS – February 9, 2022



January 12, 2022, SNOTEL Water Year Precipitation was 111% of 1991-2020 median



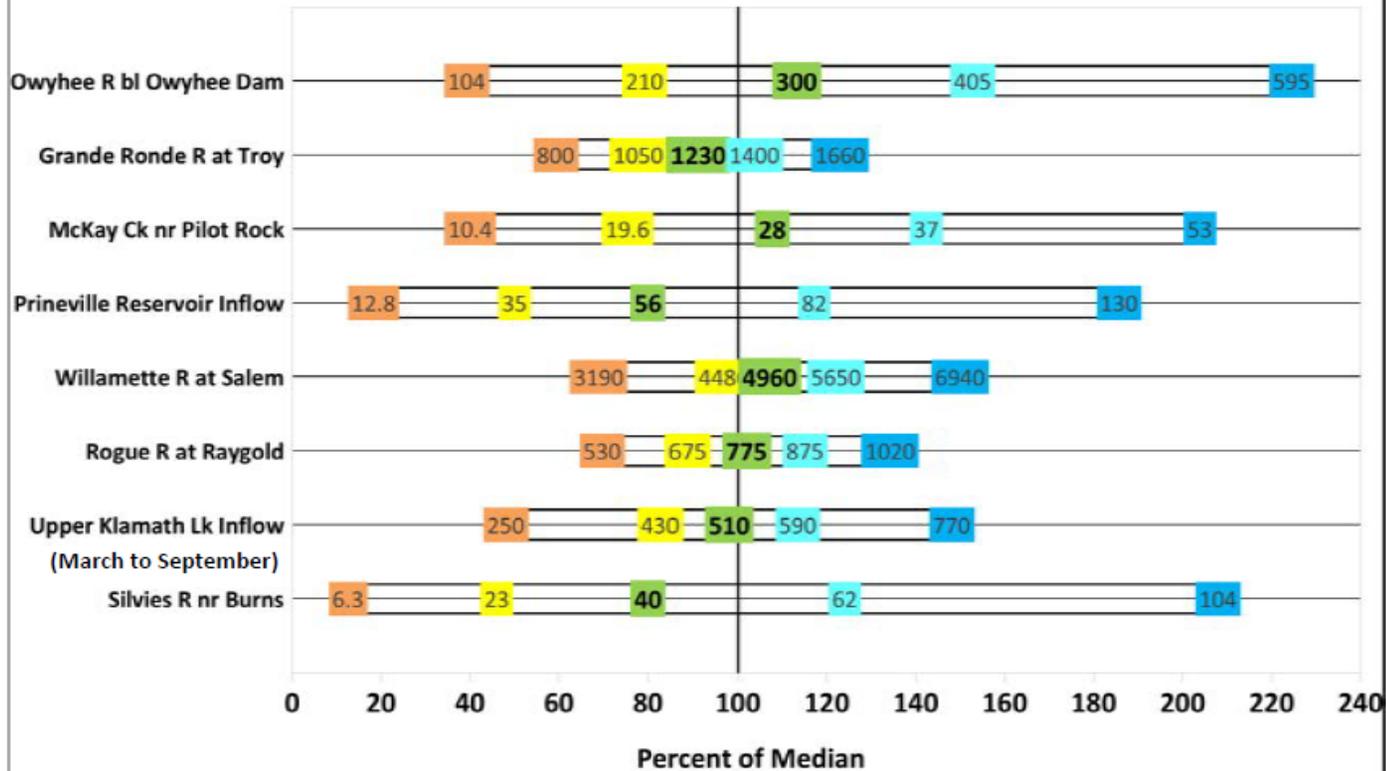
February 9, 2022, SNOTEL Water Year Precipitation is 94% of 1991-2020 median



SNOTEL 30-Day Precipitation Records – January 10, 2022, through February 8, 2022



February 2022
Summary of Streamflow Forecasts across Oregon
 April through September Forecast Volumes at a Selection of Streamflow Points
 (Volumes listed in KAF)



Legend: ←-----Drier-----Future Conditions-----Wetter-----→

90% Exceedance Forecast (KAF)
 There is a 90% chance that flows will exceed this volume.

70% Exceedance Forecast (KAF)
 There is a 70% chance that flows will exceed this volume.

50% Exceedance Forecast (KAF)
 There is a 50% chance that flows will exceed this volume.

30% Exceedance Forecast (KAF)
 There is a 30% chance that flows will exceed this volume.

10% Exceedance Forecast (KAF)
 There is a 10% chance that flows will exceed this volume.

February 1, 2022, Streamflow Volume Forecast (Primary Period or April – September) % of 1991-2020 Median 50% Exceedance Probability



Thank you

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotope, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

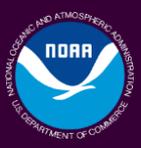
To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at [How to File a Program Discrimination Complaint](#) and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: program.intake@usda.gov.



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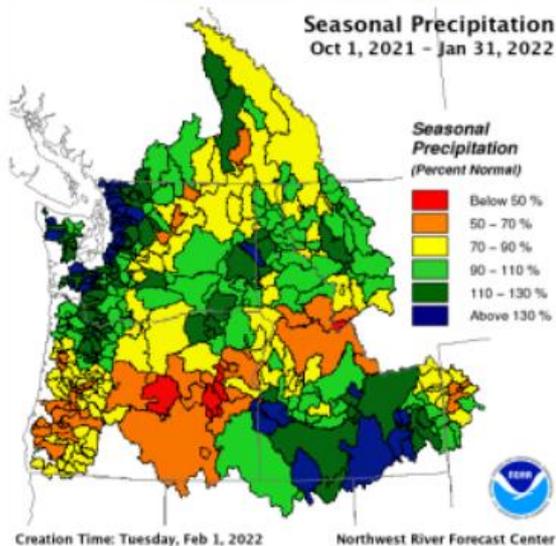
February 2022 Update for Precipitation & Temperatures

Andy Bryant
Service Hydrologist
NOAA/NWS Portland
Weather Forecast Office

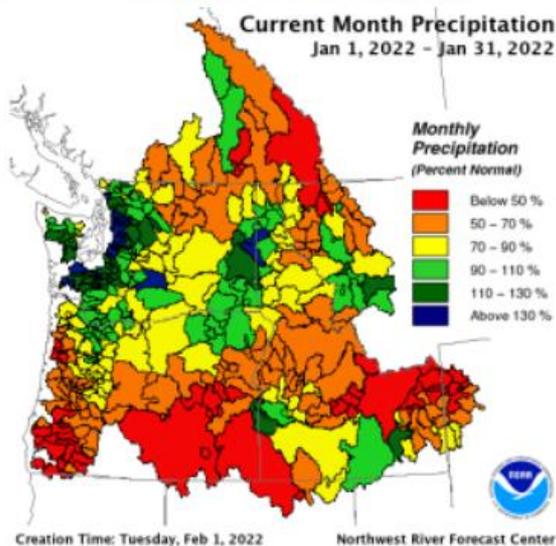


Precipitation & Temperatures for Pacific Northwest

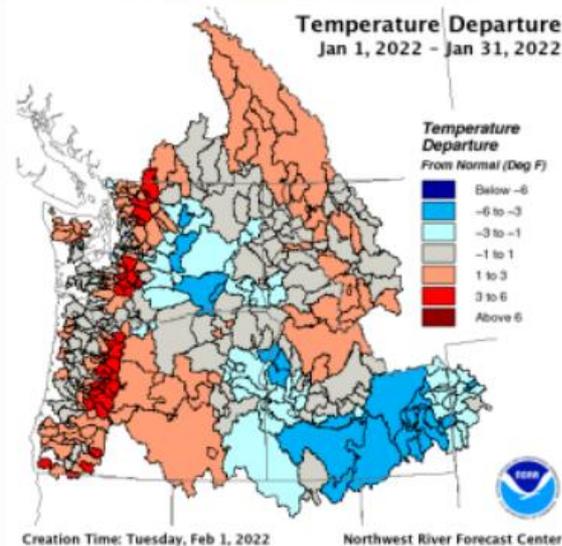
Seasonal Precipitation



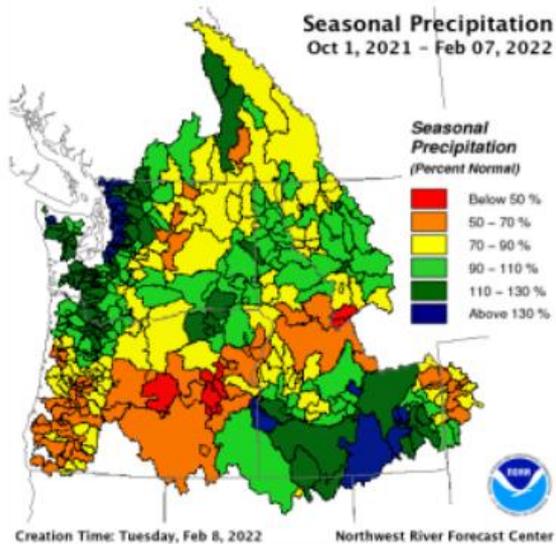
Monthly Precipitation



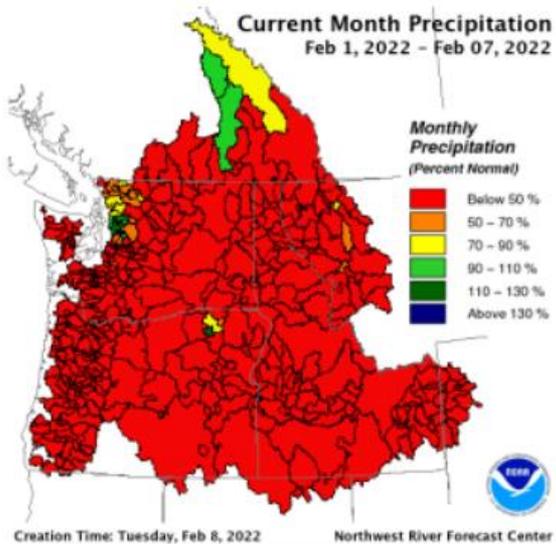
Temperature Departure



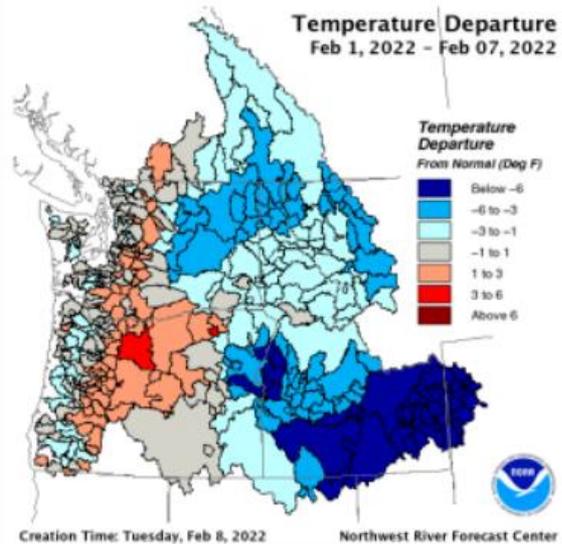
Seasonal Precipitation



Monthly Precipitation



Temperature Departure

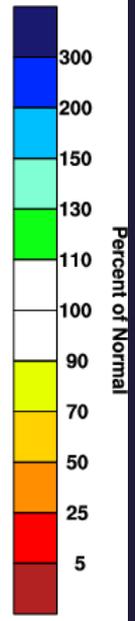
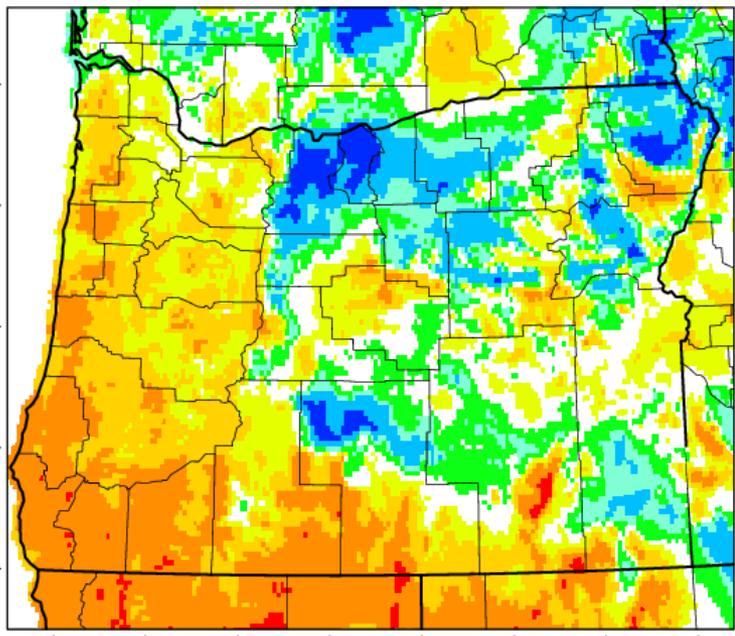


January Precipitation

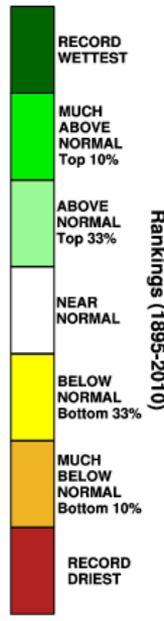
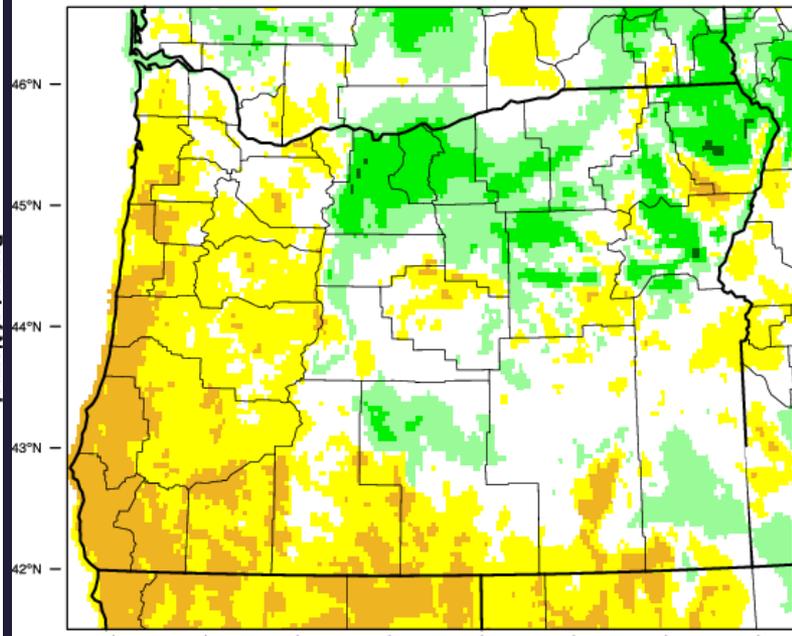
January - Percent of Normal

January - Percentile

Oregon - Precipitation
January 2022 Percent of 1981-2010 Normal



Oregon - Precipitation
January 2022 Percentile



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 FEB 2022

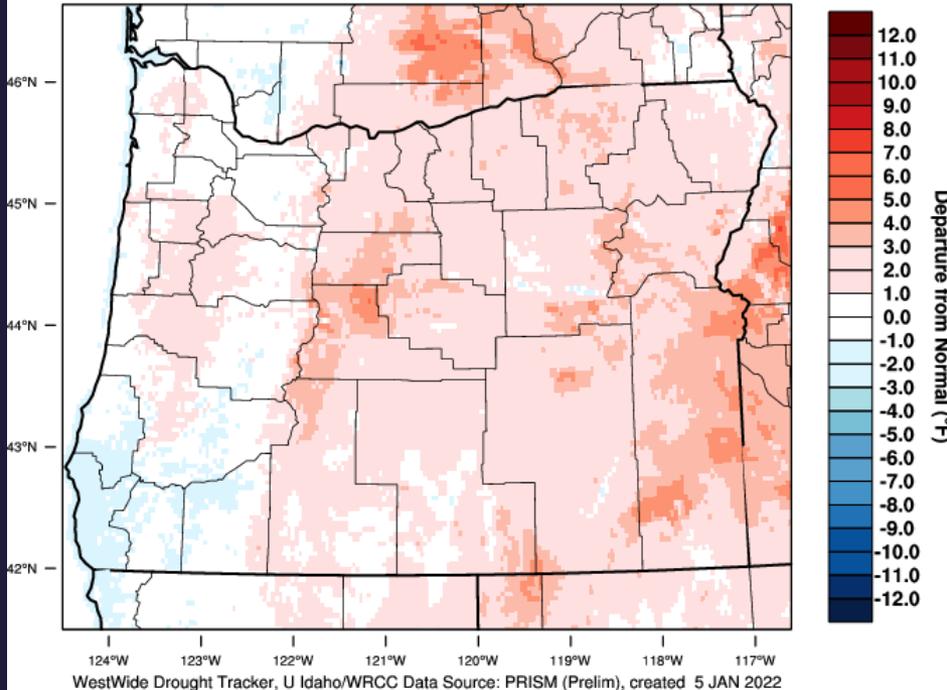
WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 FEB 2022

Recent Temperatures

December

Oregon - Mean Temperature

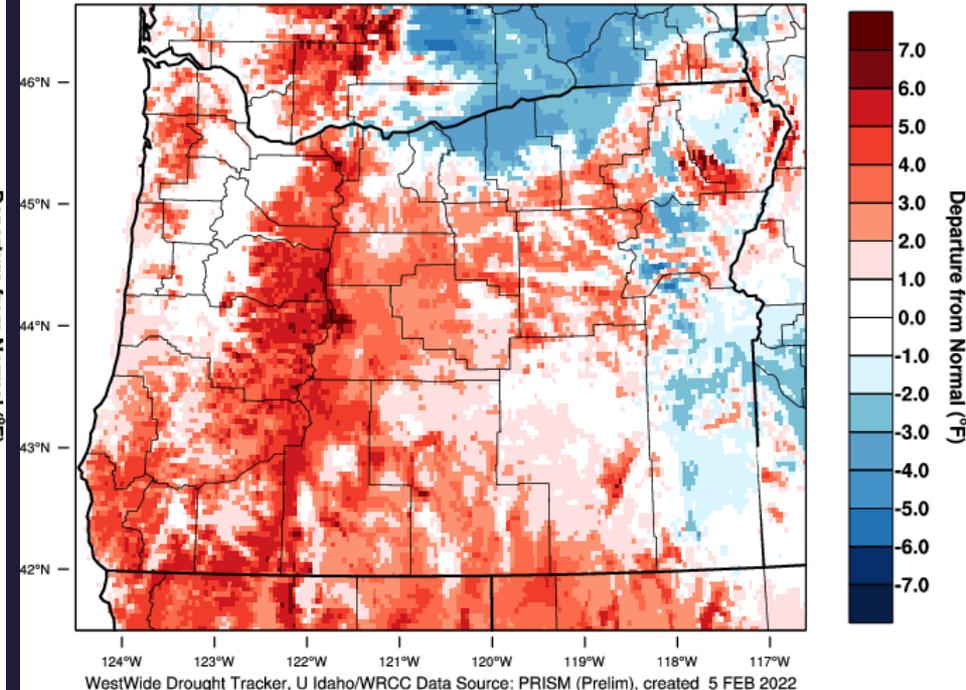
December 2021 Departure from 1981-2010 Normal



January

Oregon - Mean Temperature

January 2022 Departure from 1981-2010 Normal

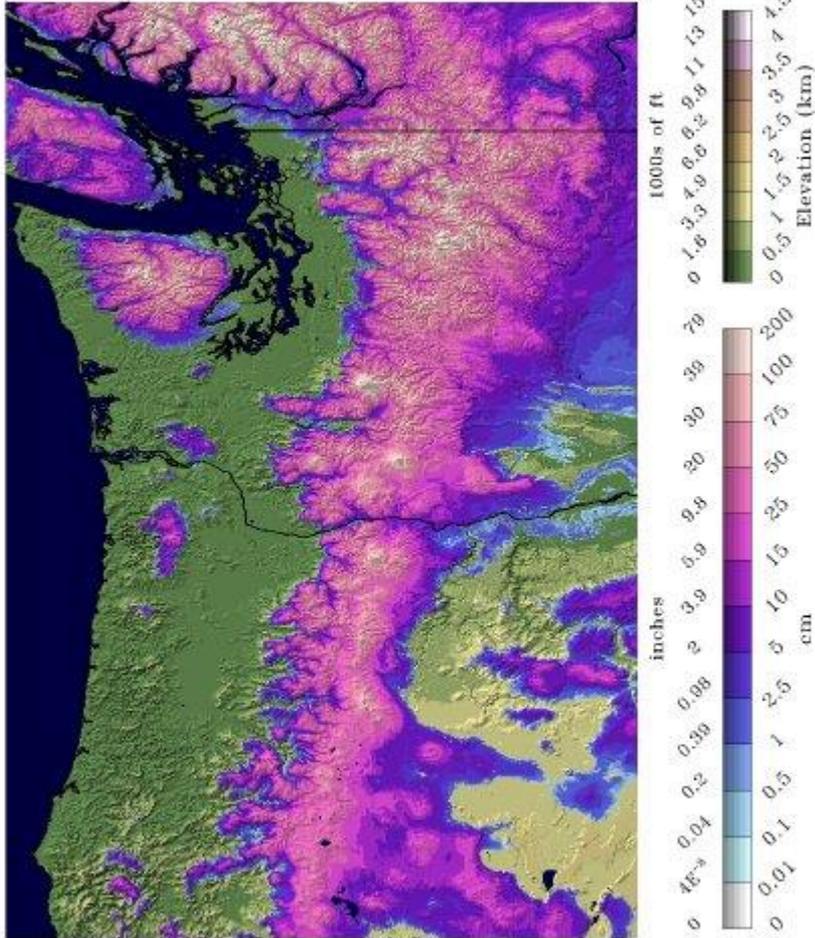




Snow Analysis from NOAA/NWS Remote Sensing Center

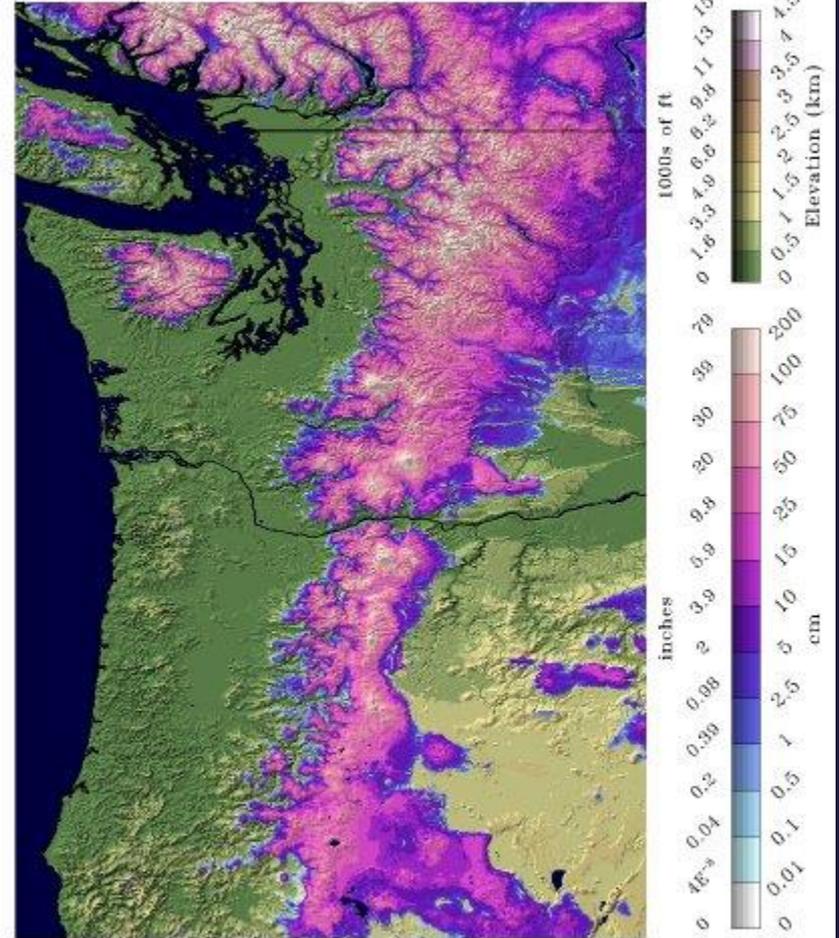
Snow Water Equivalent

2022-01-12 06 UTC



Snow Water Equivalent

2022-02-09 06 UTC



OWP OFFICE OF WATER PREDICTION

National Snow 2020-2021 Analysis 2021

OWP OFFICE OF WATER PREDICTION

National Snow 2020-2021 Analysis 2021

<https://www.nohrsc.noaa.gov/nsa/index.html>

2/9/2022

weather.gov/portland & www.nwrfc.noaa.gov

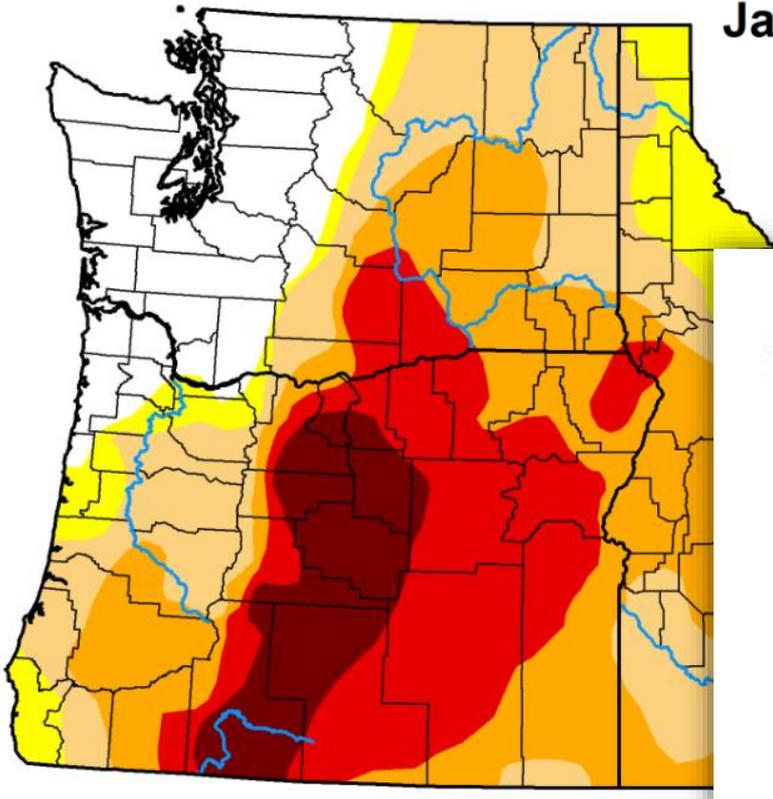


Drought Monitor

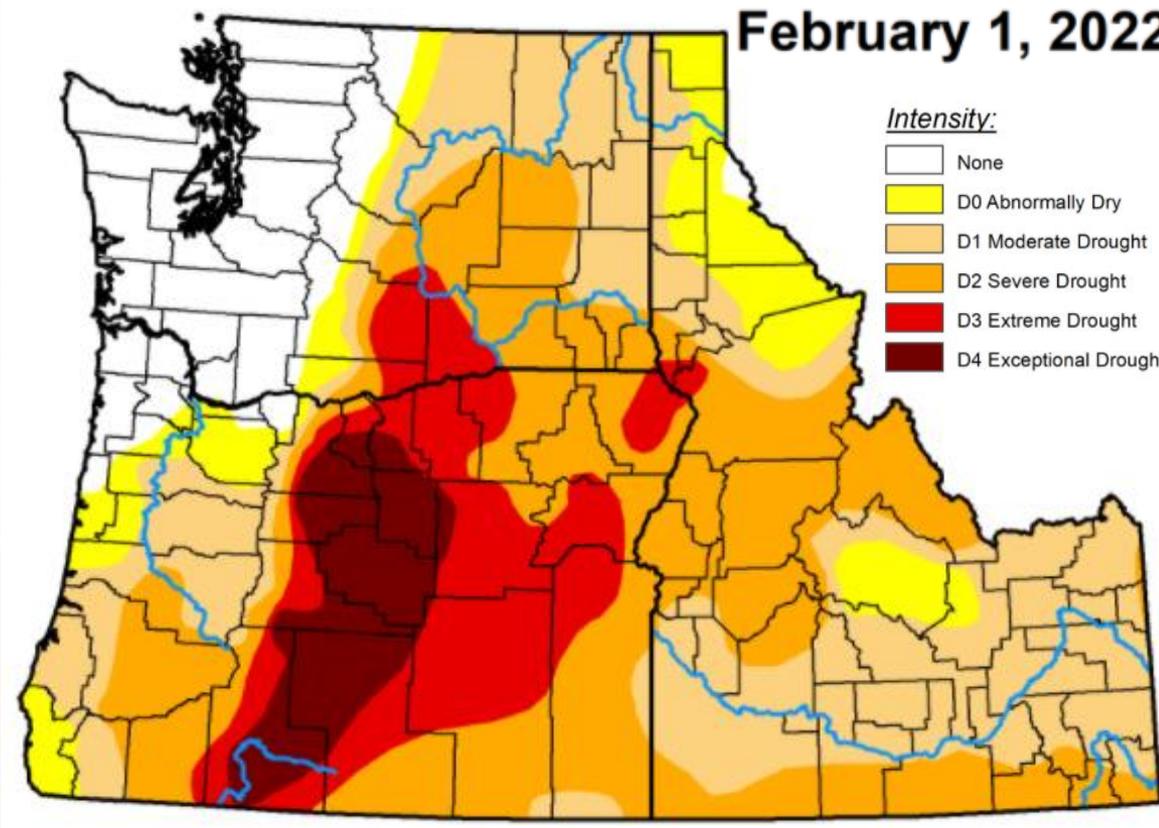
Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	74.33	25.67	22.96	14.44	5.45	1.89
Last Week <i>01-25-2022</i>	74.27	25.73	22.97	14.44	5.45	1.89
3 Months Ago <i>11-02-2021</i>	73.07	26.93	26.39	24.64	14.25	4.65
Start of Calendar Year <i>01-04-2022</i>	74.10	25.90	23.79	15.09	6.81	2.01
Start of Water Year <i>09-28-2021</i>	70.14	29.86	27.67	24.87	18.54	7.83
One Year Ago <i>02-02-2021</i>	65.33	34.67	12.46	7.60	2.64	0.00

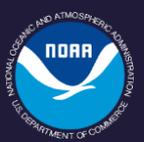
January 4, 2022



February 1, 2022

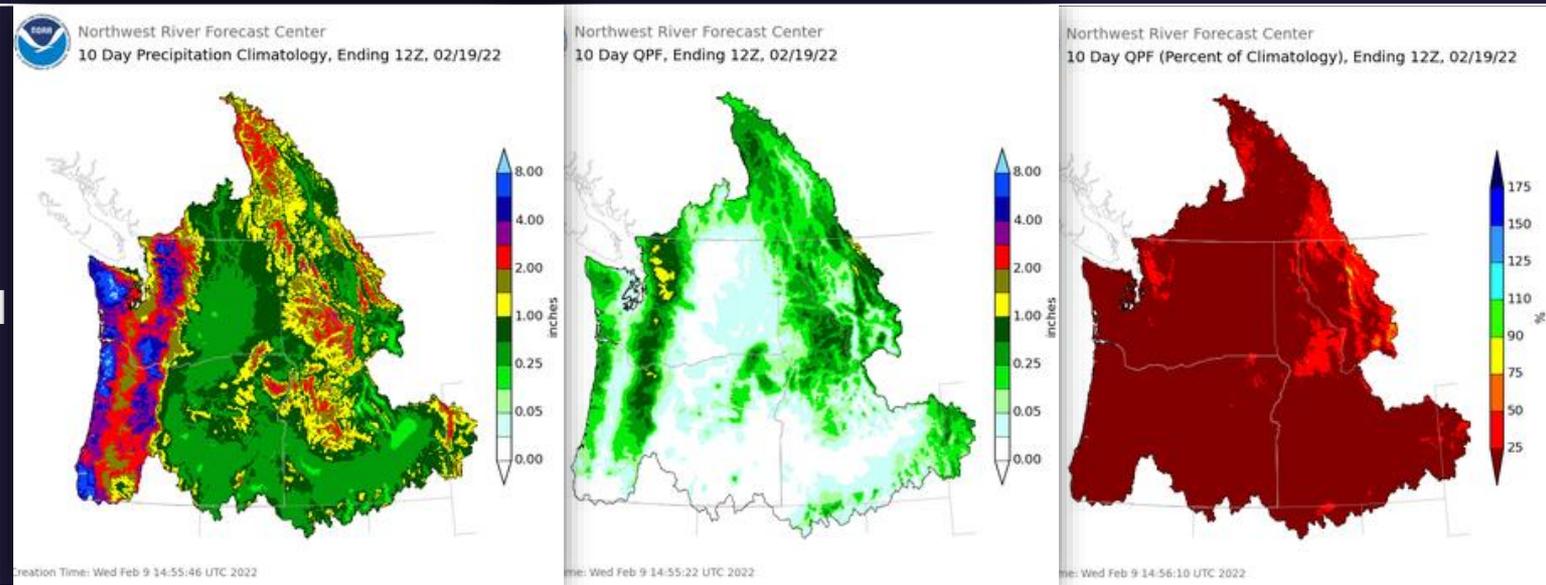


<https://droughtmonitor.unl.edu>



Mid February Outlook

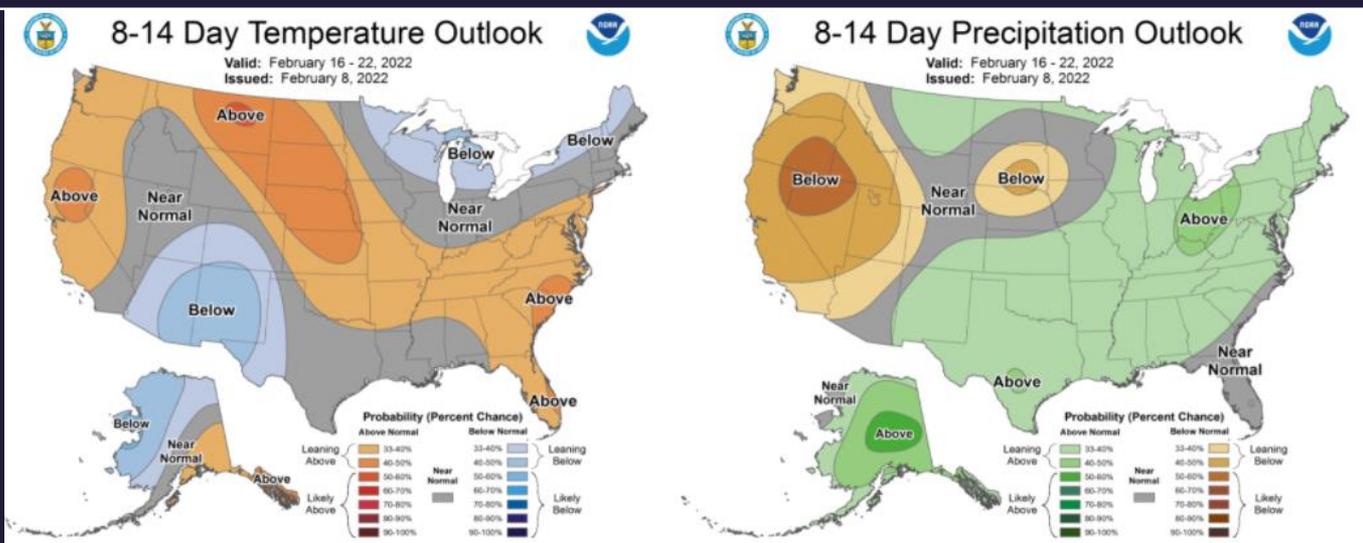
NWRFC 10-DAY PRECIPITATION FORECAST



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

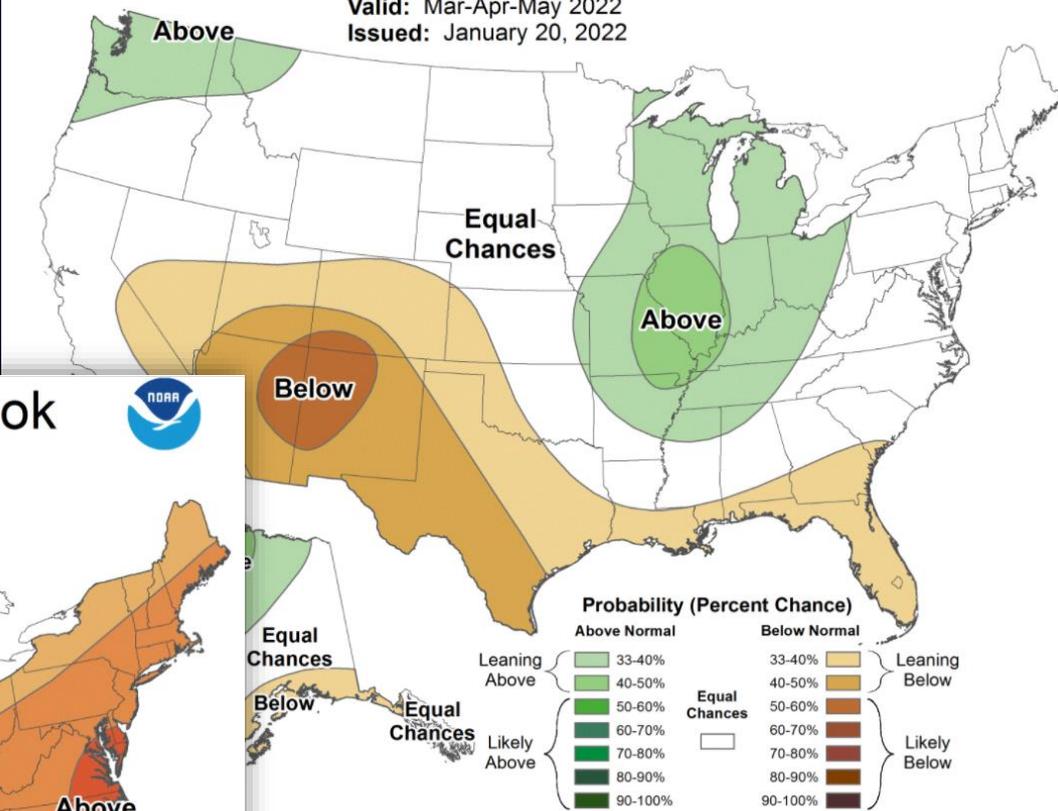
CPC 8 - 14 DAY OUTLOOK

www.cpc.ncep.noaa.gov



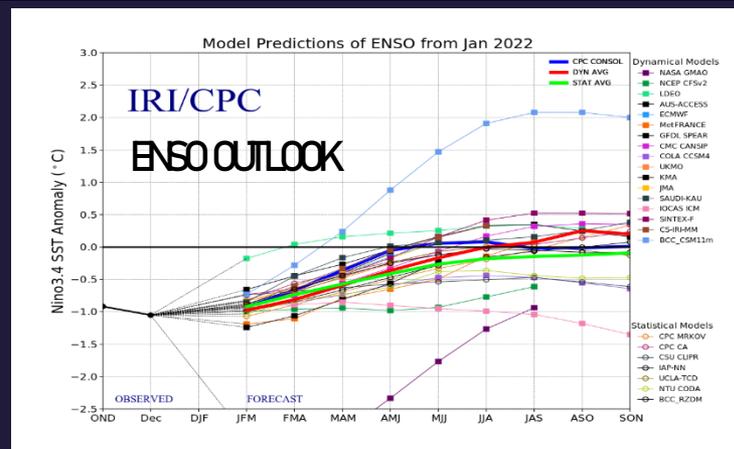
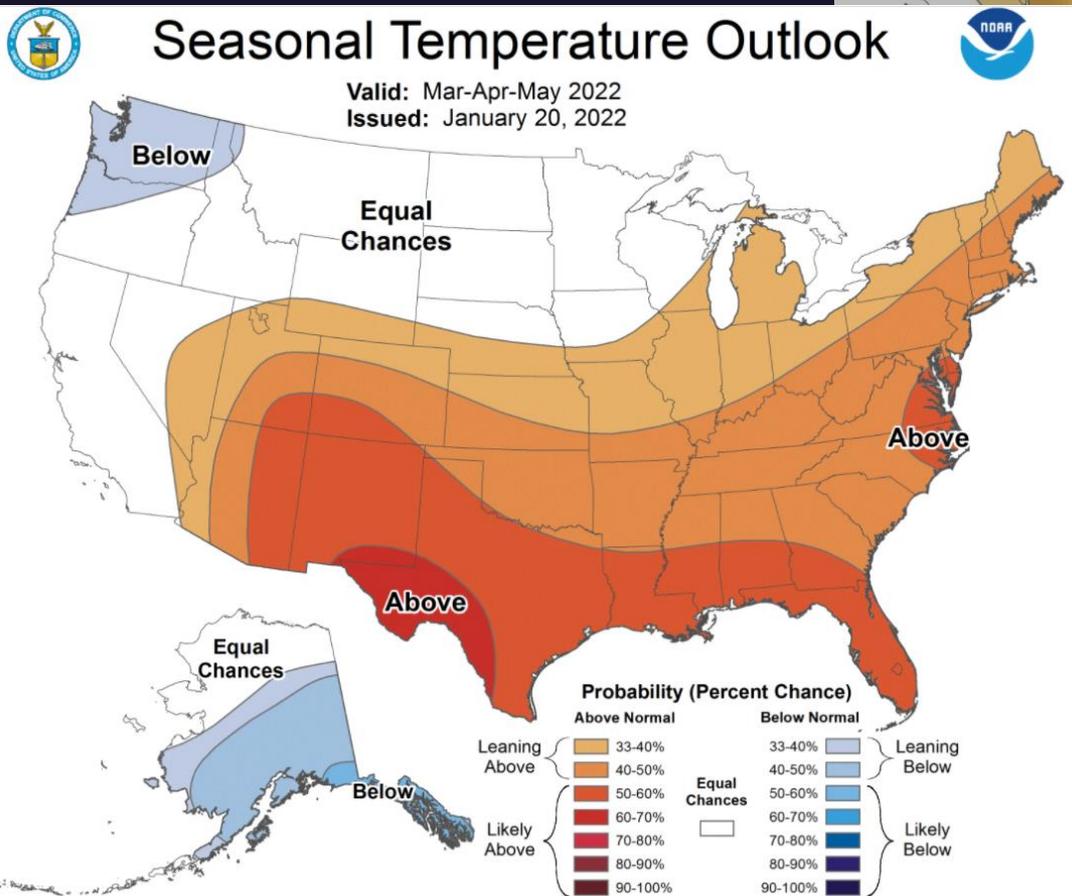
weather.gov/portland & www.nwrfc.noaa.gov

Valid: Mar-Apr-May 2022
Issued: January 20, 2022



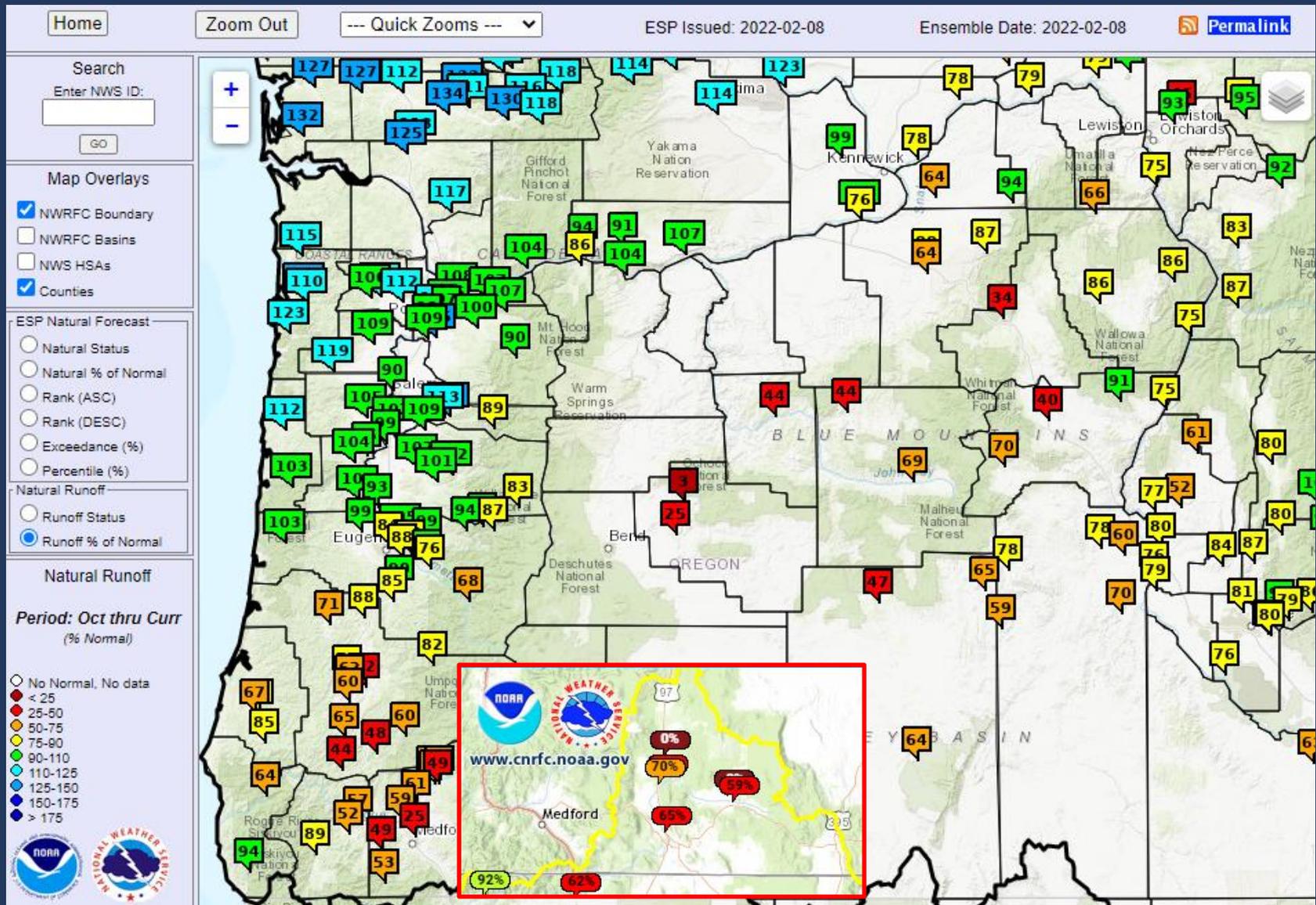
Climate Prediction Center Outlook Mar-Apr-May 2022

www.cpc.ncep.noaa.gov





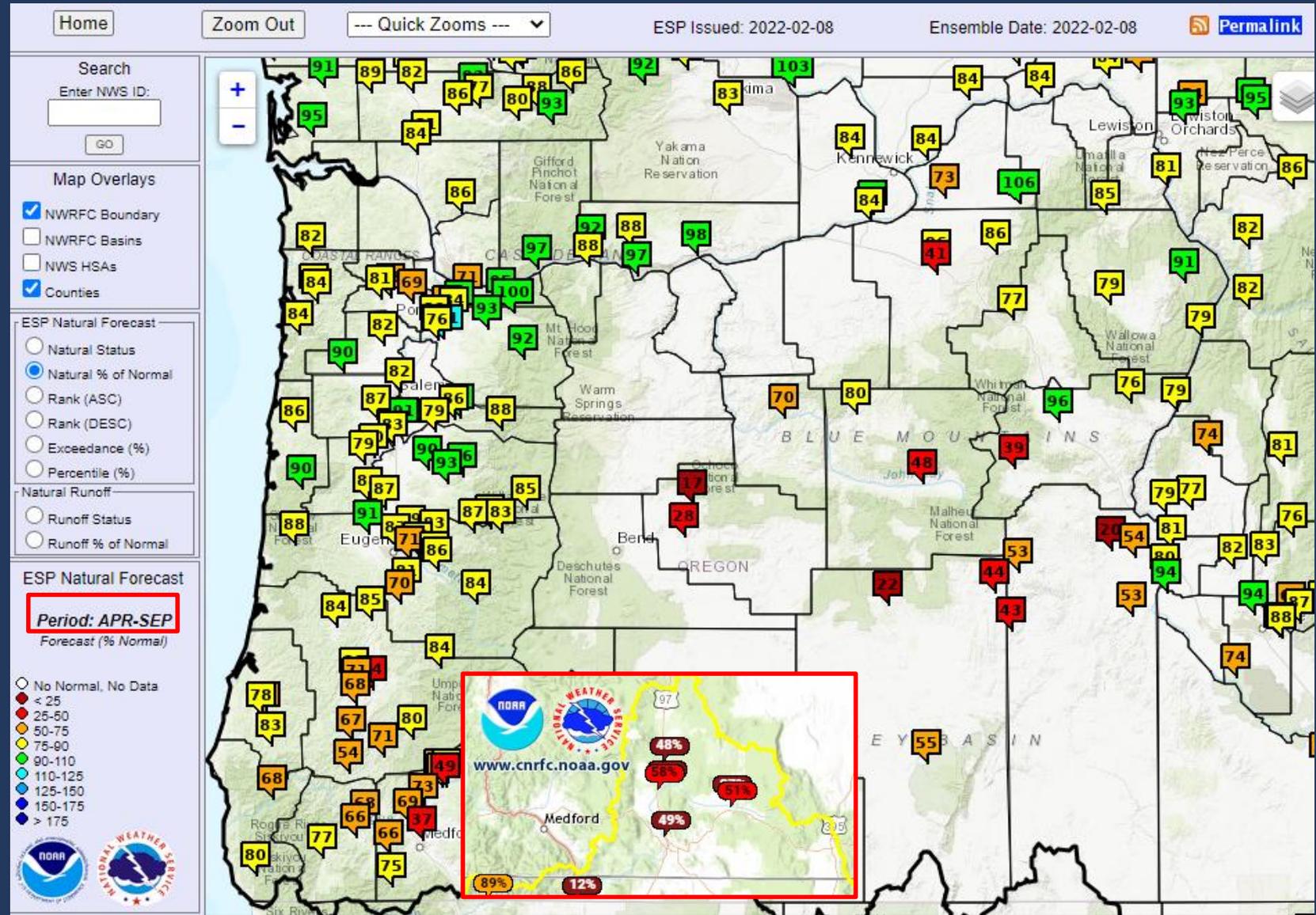
Current WY Runoff % of Average from Oct 1 - Feb 7





Seasonal Volume Forecast

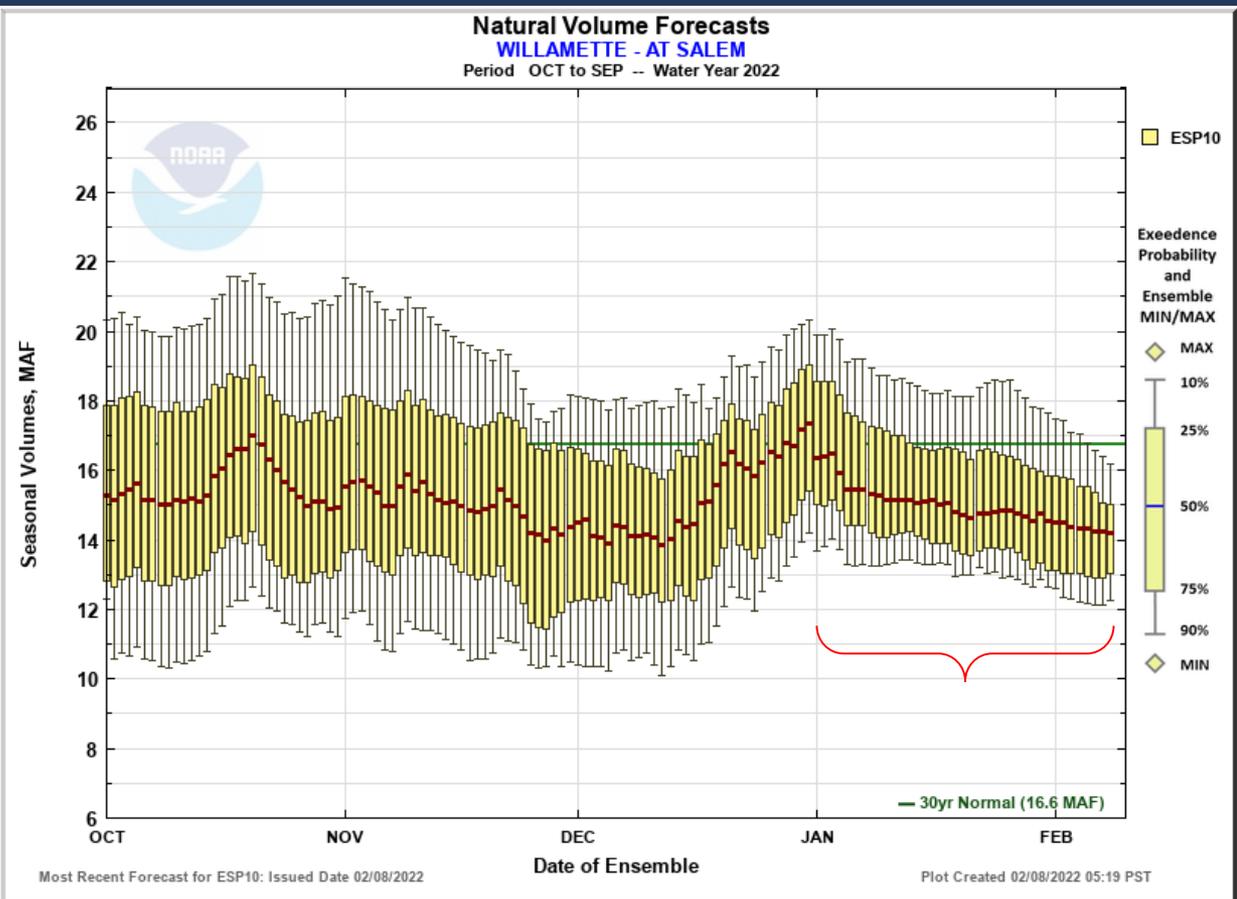
April - September ESP Natural - % of Average





Streamflow WY Volume Forecast Willamette at Salem

WILLAMETTE - AT SALEM (SLM03) Forecasts for Water Year 2022					
Official Water Supply					
ESP with 10 Days QPF Ensemble: 2022-02-08 Issued: 2022-02-08					
Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	3101	4212	82	5958	5119
APR-JUL	2724	3710	81	5421	4554
JAN-SEP	8128	10084	82	12054	12224
JAN-JUL	7660	9580	82	11528	11659
OCT-SEP	12112	14067	85	16037	16605
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2022-02-08 Issued: 2022-02-08					
APR-SEP	3038	4186	82	5938	5119
APR-JUL	2679	3688	81	5403	4554
JAN-SEP	7975	9766	80	12176	12224
JAN-JUL	7550	9305	80	11677	11659
OCT-SEP	11959	13749	83	16159	16605
Reference					
ESP with 0 Days QPF Ensemble: 2022-02-08 Issued: 2022-02-08					
APR-SEP	3181	4355	85	6340	5119
APR-JUL	2808	3929	86	5753	4554
JAN-SEP	8640	10536	86	13817	12224
JAN-JUL	8100	10123	87	13306	11659
OCT-SEP	12624	14519	87	17800	16605



Max Scale
 Scale To Data
 Scale To Last 45 Days
 Show Min/Max Ensemble Volume
 Show Tooltips Help



Streamflow WY Volume Forecast

ESP 10-day vs Reference

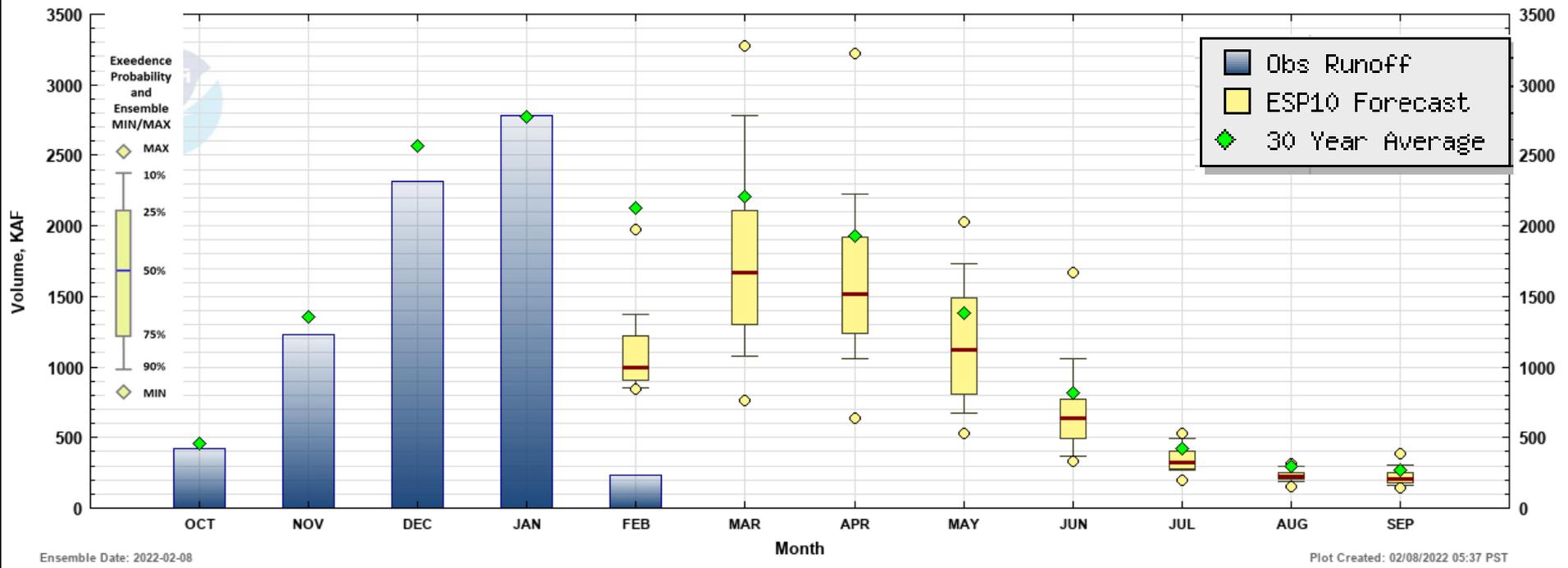
Site	10-day forecast %	Reference forecast %
Willamette R at Salem	85	87
Rouge R nr Agnes	66	73
Umatilla R nr Umatilla	79	86
Owyhee Dam	69	77

10-day lack of forecast precipitation is noticeable in water supply



Streamflow WY Monthly Volume Forecast Willamette at Salem

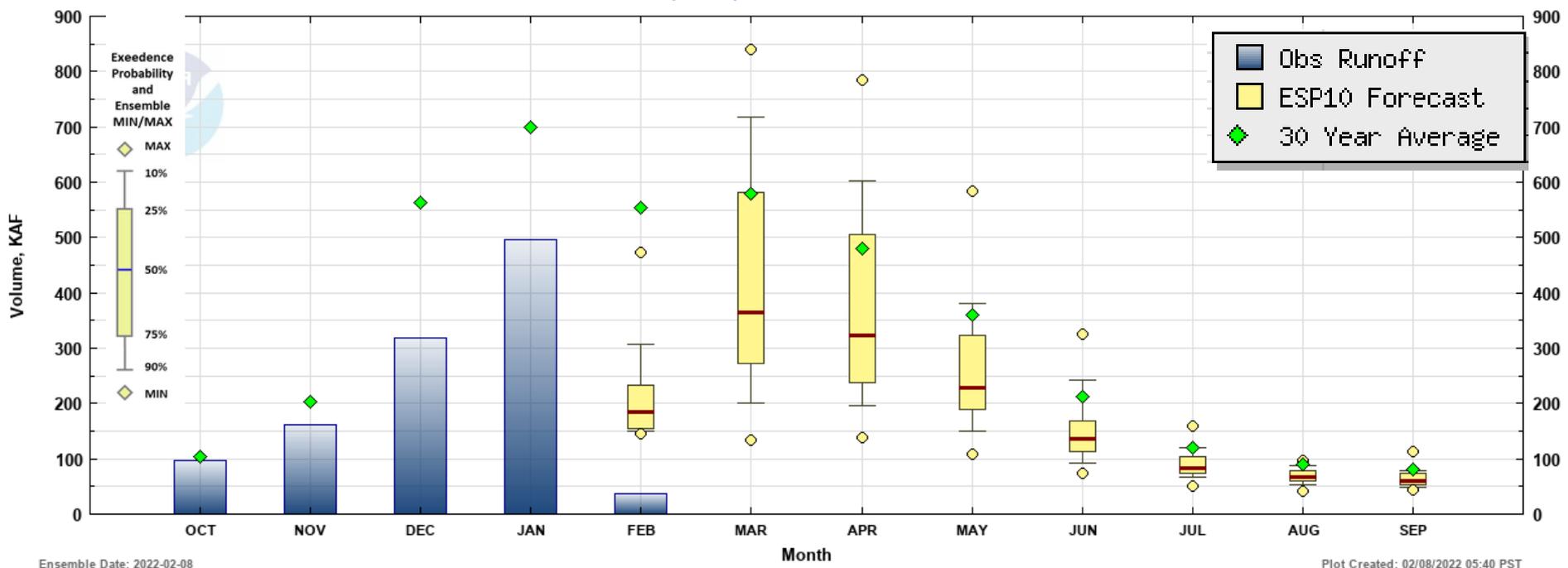
Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(SLM03) WILLAMETTE - AT SALEM





Streamflow WY Monthly Volume Forecast Rogue near Agnes

Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(AGN03) ROGUE - NEAR AGNES



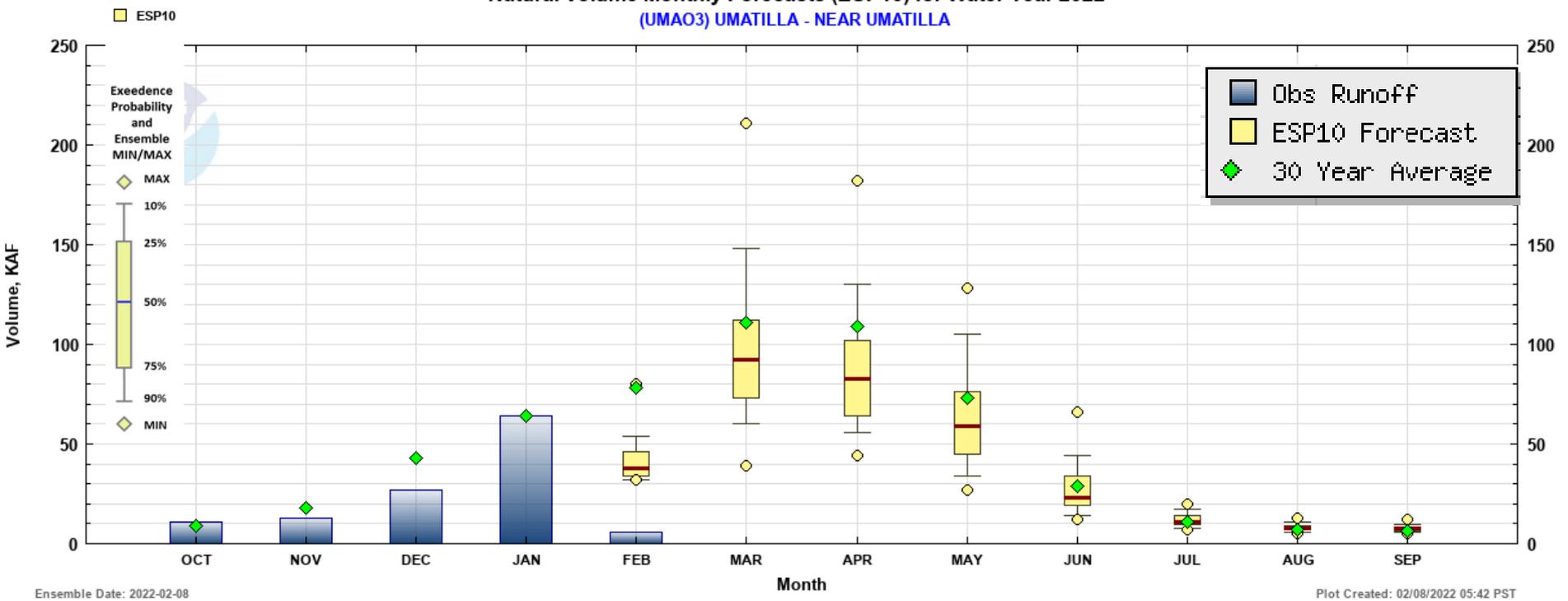
Ensemble Date: 2022-02-08

Plot Created: 02/08/2022 05:40 PST



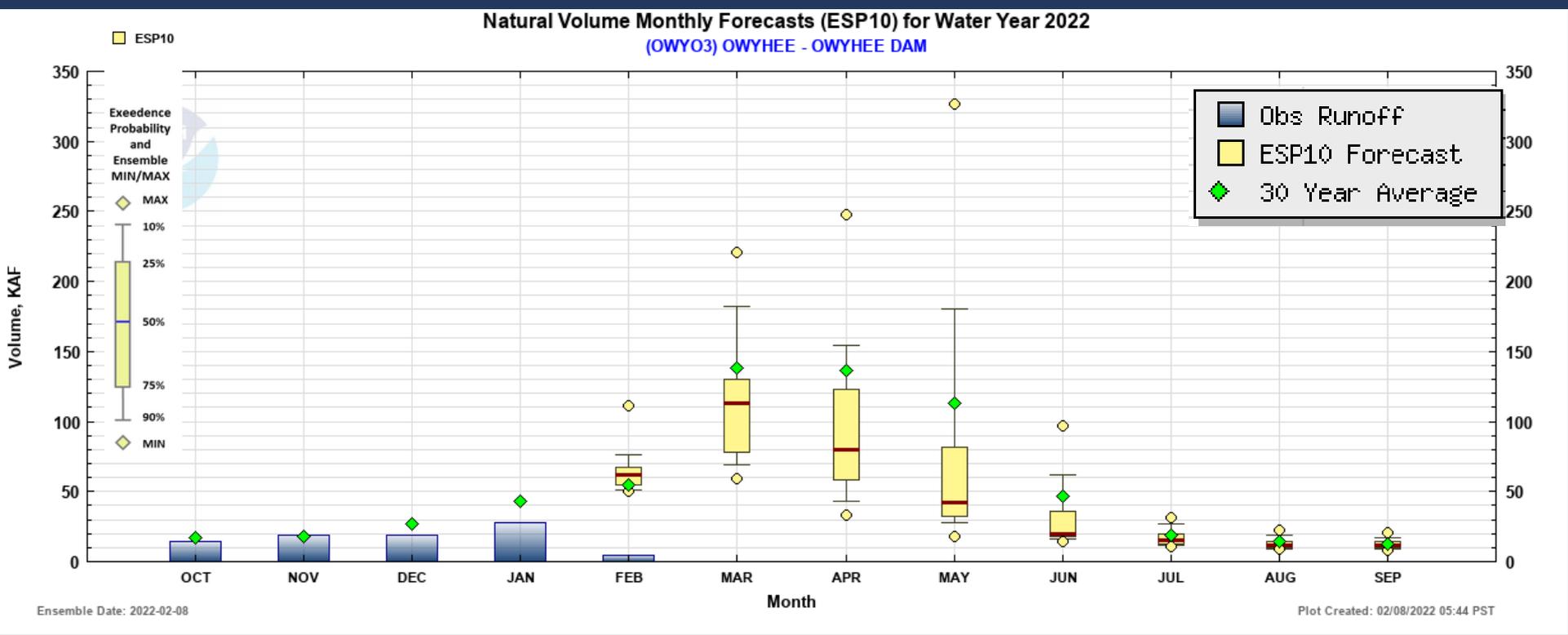
Streamflow WY Monthly Volume Forecast Umatilla near Umatilla

Natural Volume Monthly Forecasts (ESP10) for Water Year 2022
(UMA03) UMATILLA - NEAR UMATILLA





Streamflow WY Monthly Volume Forecast Owyhee Dam





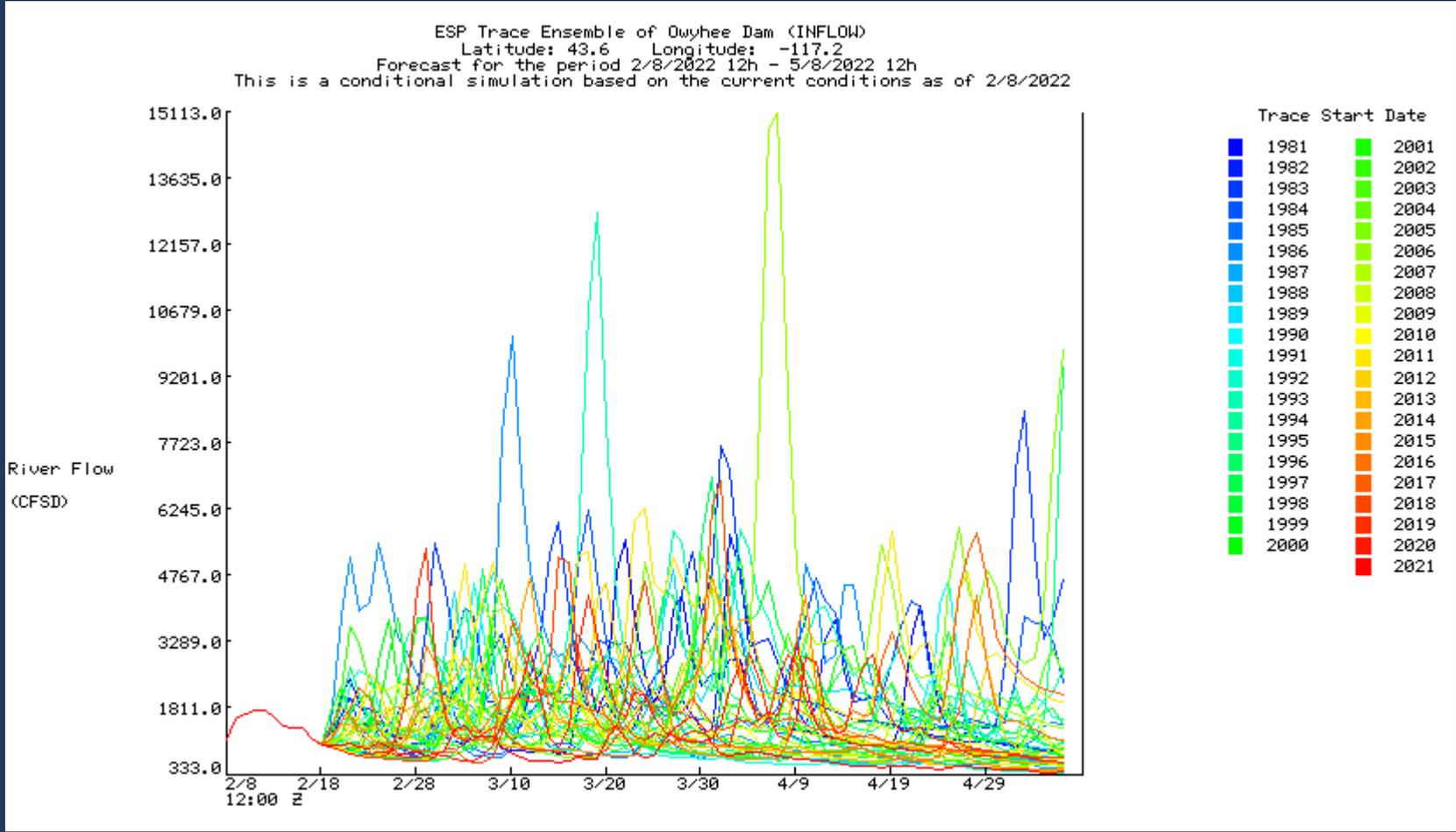
NWRFC Water Supply Briefings Schedule

2022 Schedule for <i>Live Water Supply Briefings</i>					
Jan	Feb	Mar	Apr	May	June
6	3	3	7	5	TBD
<i>All presentations held at 10:00am PDT/PST, unless noted otherwise</i>					
Click here for Registration Information					

https://www.nwrfc.noaa.gov/water_supply/ws_schd.cgi?version=20190204v1



Extra slide- NWRFC ESP Traces Owyhee Dam



Oregon Water Supply Availability Meeting

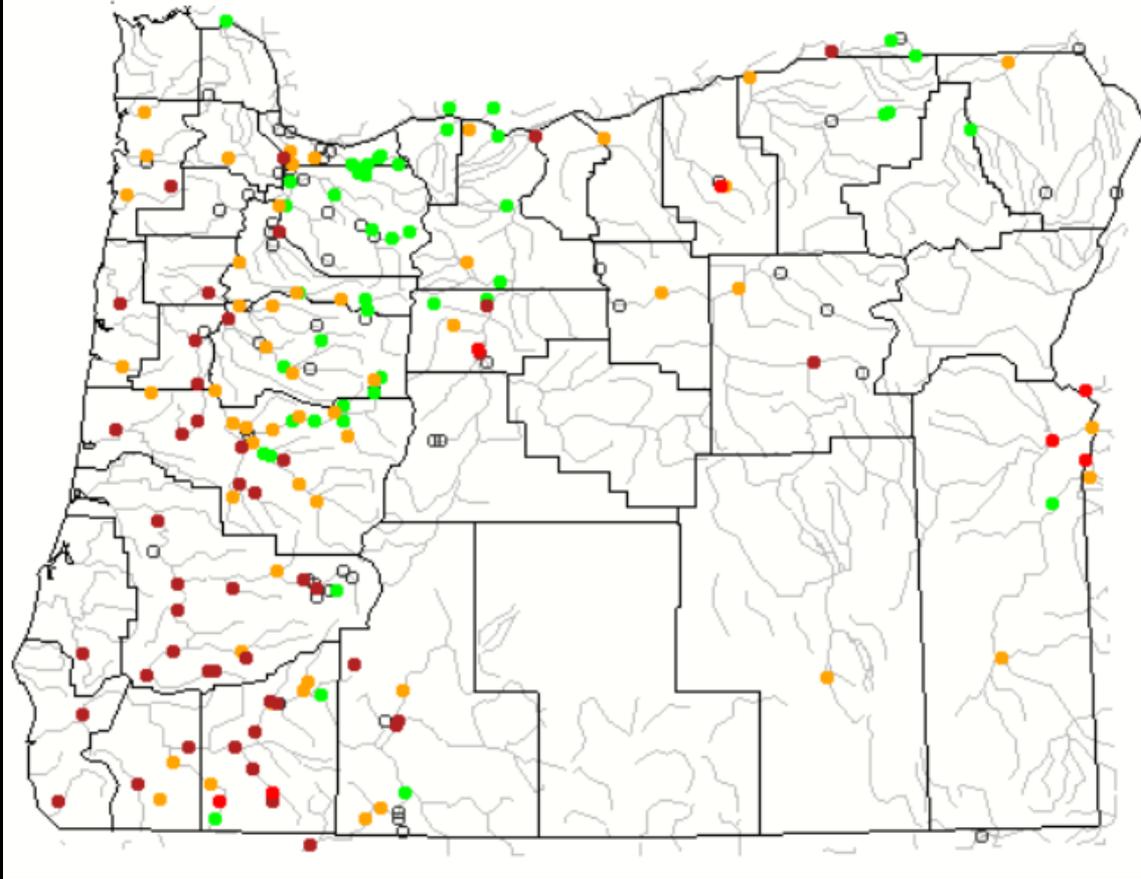
February 2022



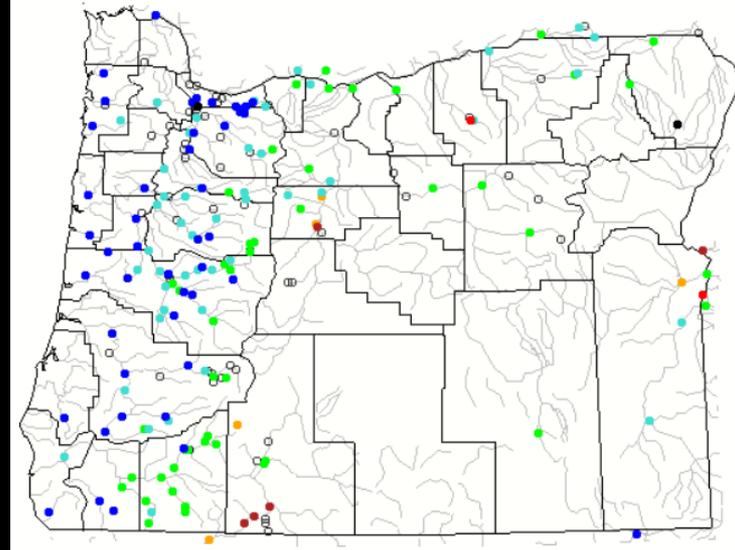
Streamflow Conditions

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

Monday, February 07, 2022



Monday, January 10, 2022



Explanation - Percentile classes

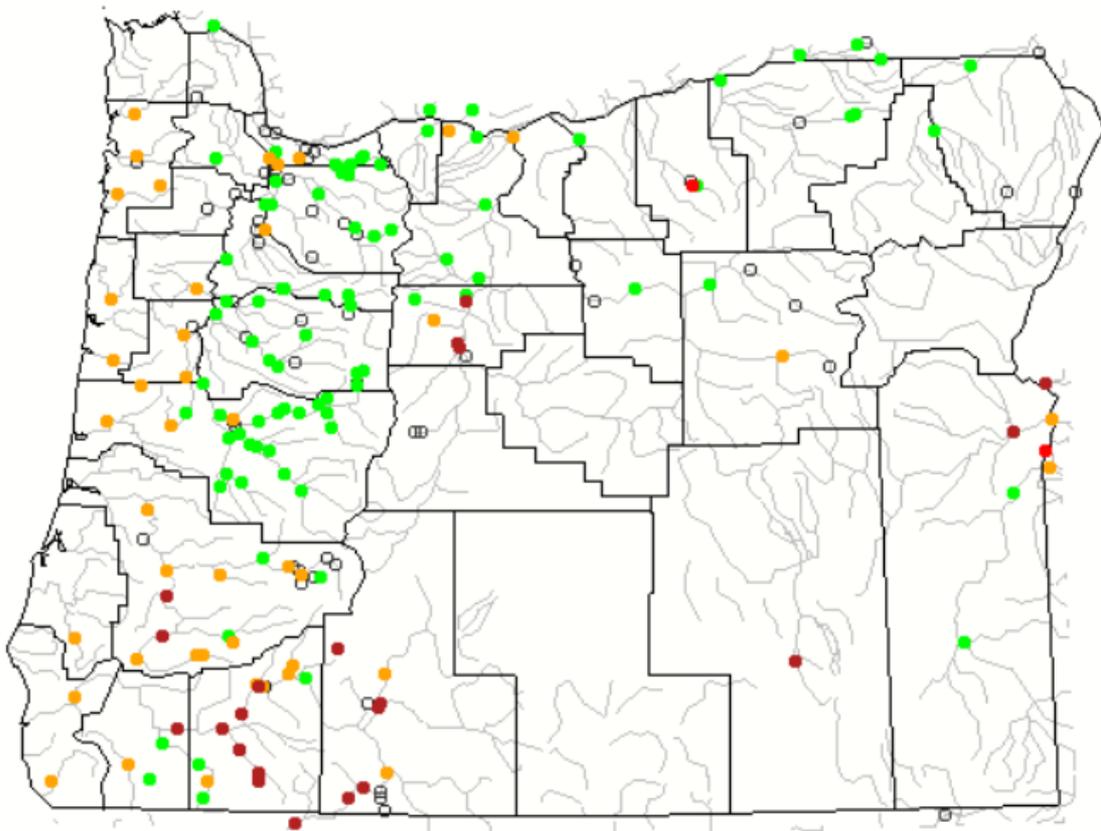
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		



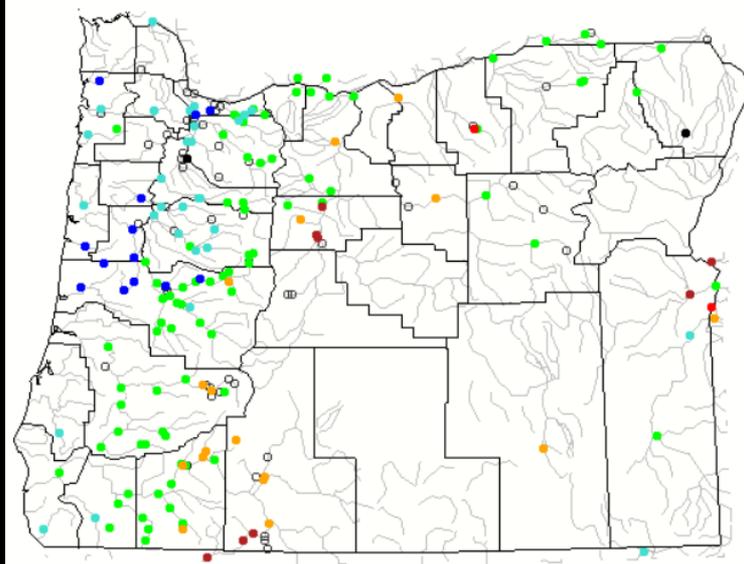
Streamflow Conditions

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

Monday, February 07, 2022



Monday, January 10, 2022



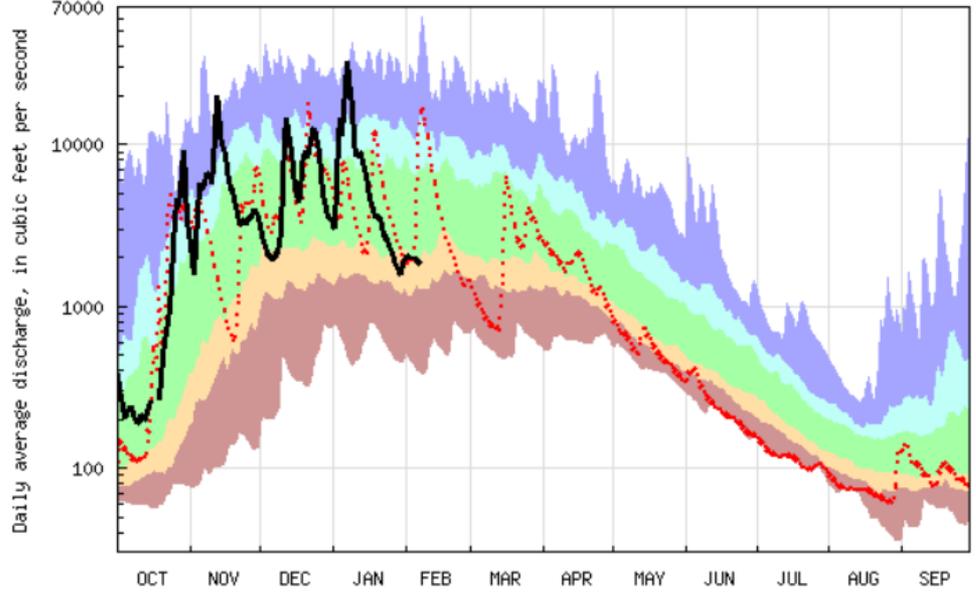
Explanation - Percentile classes

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



Northwestern OR

USGS 14301000 NEHALEM RIVER NEAR FOSS, OR
(Drainage area: 667 square miles, length of record: 80 - 82 years)

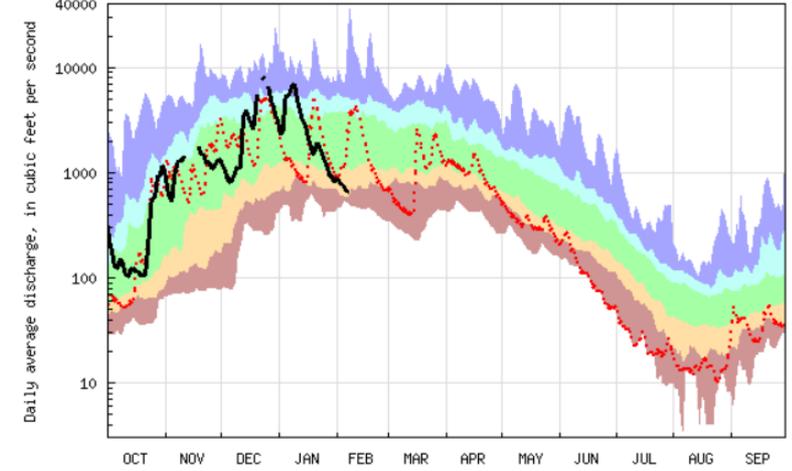


- Much below normal
lowest - 10th percentile
- Below normal
10th - 25th percentile
- Normal
25th - 75th percentile
- Above normal
75th - 90th percentile
- Much above normal
90th percentile to highest
- Discharge (2015)
- Discharge (2022)

USGS WaterWatch

Last updated: 2022-02-08

USGS 14202000 PUDDING RIVER AT AURORA, OR
(Drainage area: 479 square miles, length of record: 57 - 58 years)

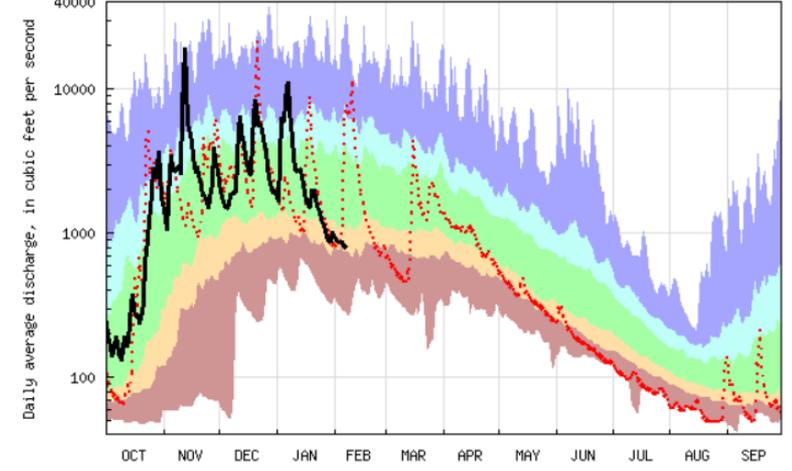


- Much below normal
lowest - 10th percentile
- Below normal
10th - 25th percentile
- Normal
25th - 75th percentile
- Above normal
75th - 90th percentile
- Much above normal
90th percentile to highest
- Discharge (2015)
- Discharge (2022)

USGS WaterWatch

Last updated: 2022-02-08

USGS 14305500 SILETZ RIVER AT SILETZ, OR
(Drainage area: 202 square miles, length of record: 102 - 104 years)



- Much below normal
lowest - 10th percentile
- Below normal
10th - 25th percentile
- Normal
25th - 75th percentile
- Above normal
75th - 90th percentile
- Much above normal
90th percentile to highest
- Discharge (2015)
- Discharge (2022)

USGS WaterWatch

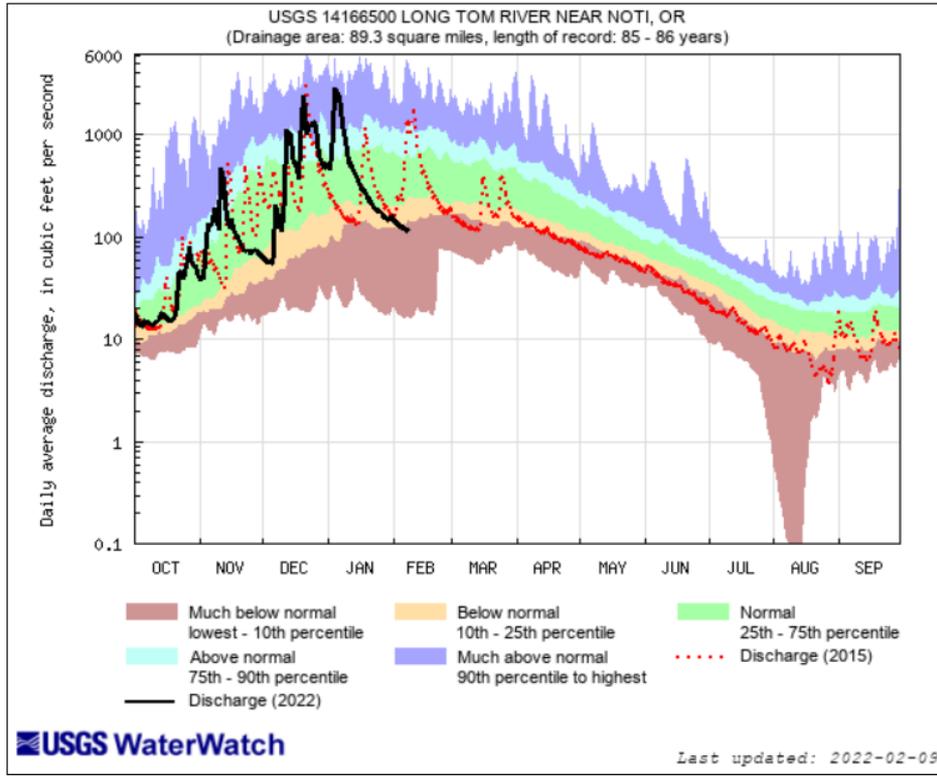
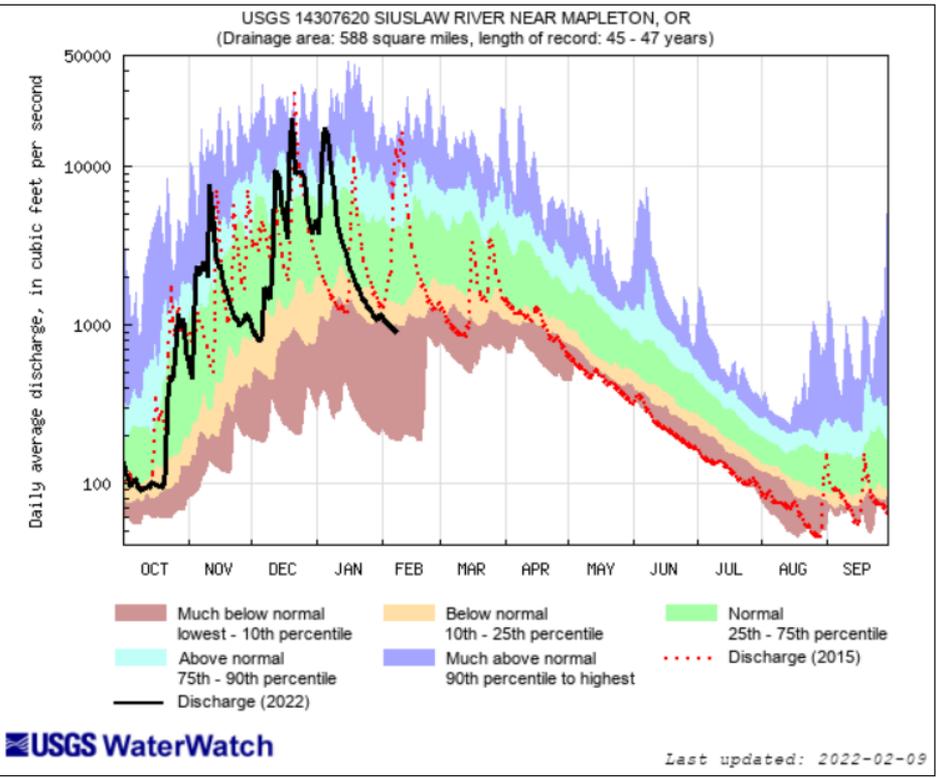
Last updated: 2022-02-08

Explanation - Percentile classes

lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	FLOW
Much below normal	Below normal	Normal	Above normal	Much above normal	



Lane County

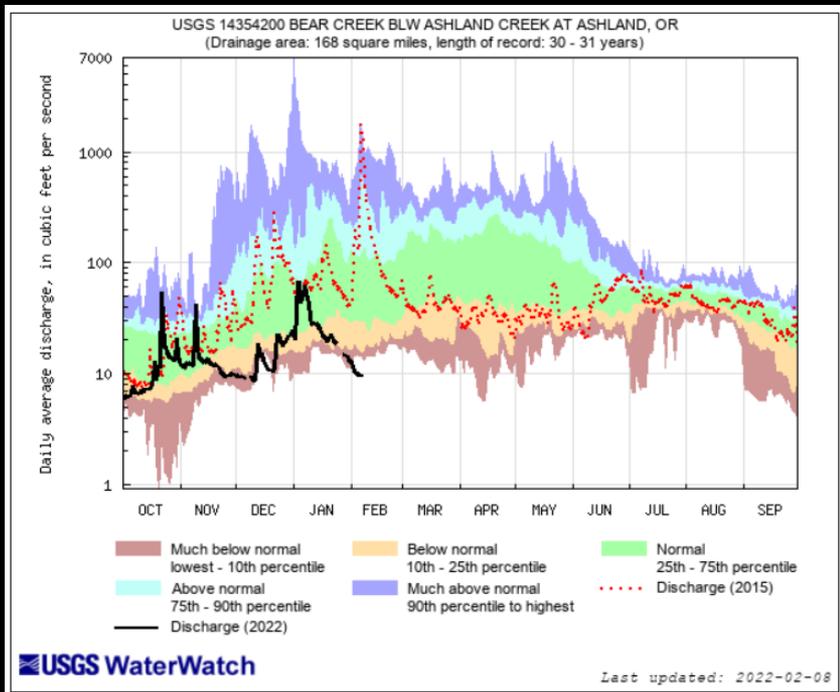
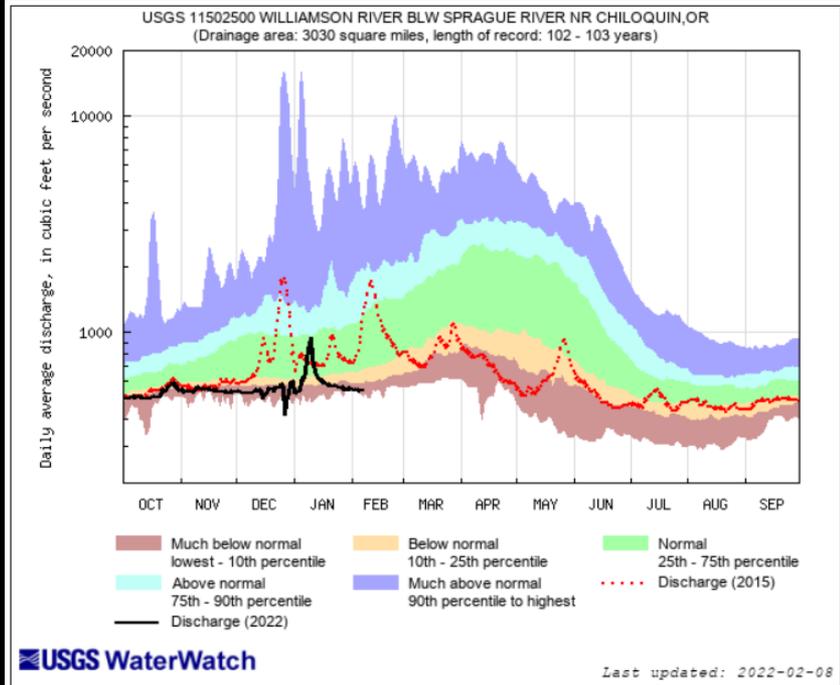
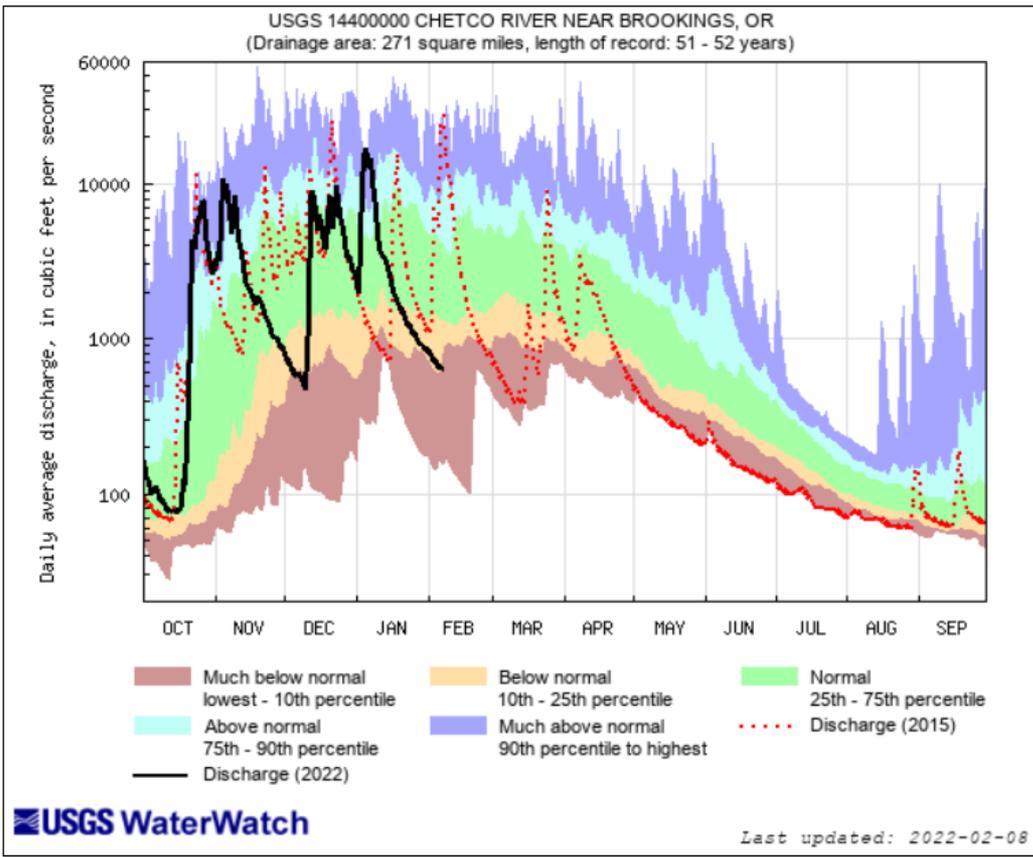


Explanation - Percentile classes

lowest-10th percentile	10-24	25-75	76-90	90th percentile - highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	



Southwestern OR



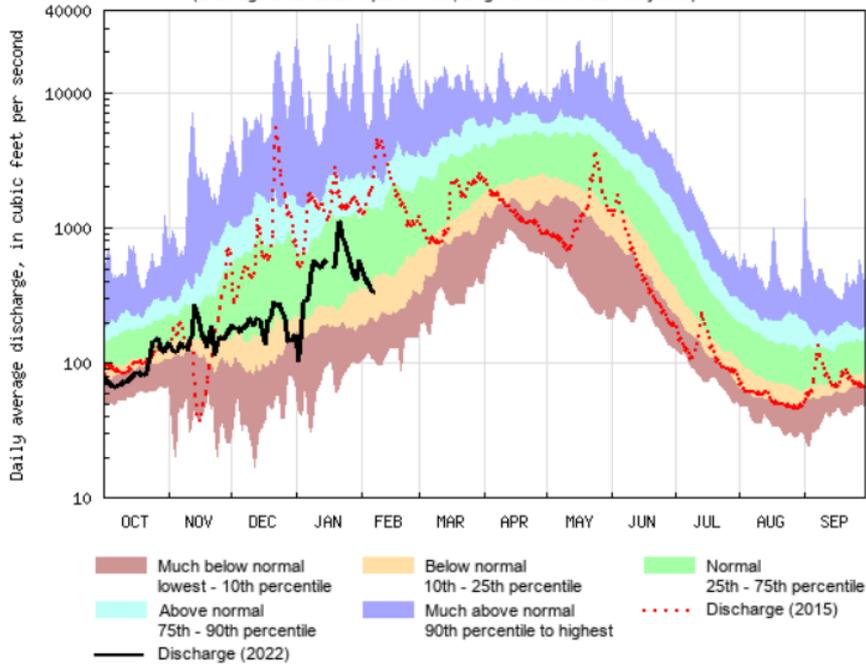
Explanation - Percentile classes				
lowest-10th percentile	10-24	25-75	76-90	90th percentile -highest
Much below normal	Below normal	Normal	Above normal	Much above normal

Flow



Northeastern OR

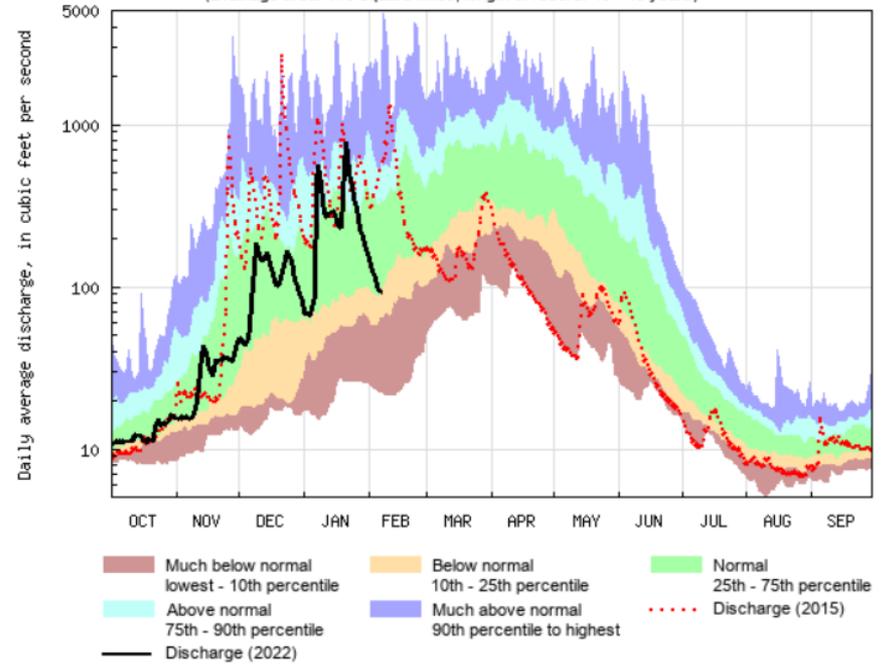
USGS 14046000 NORTH FORK JOHN DAY RIVER AT MONUMENT, OR
(Drainage area: 2520 square miles, length of record: 92 - 93 years)



USGS WaterWatch

Last updated: 2022-02-08

USGS 14020300 MEACHAM CREEK AT GIBBON, OR
(Drainage area: 176 square miles, length of record: 43 - 45 years)



USGS WaterWatch

Last updated: 2022-02-08

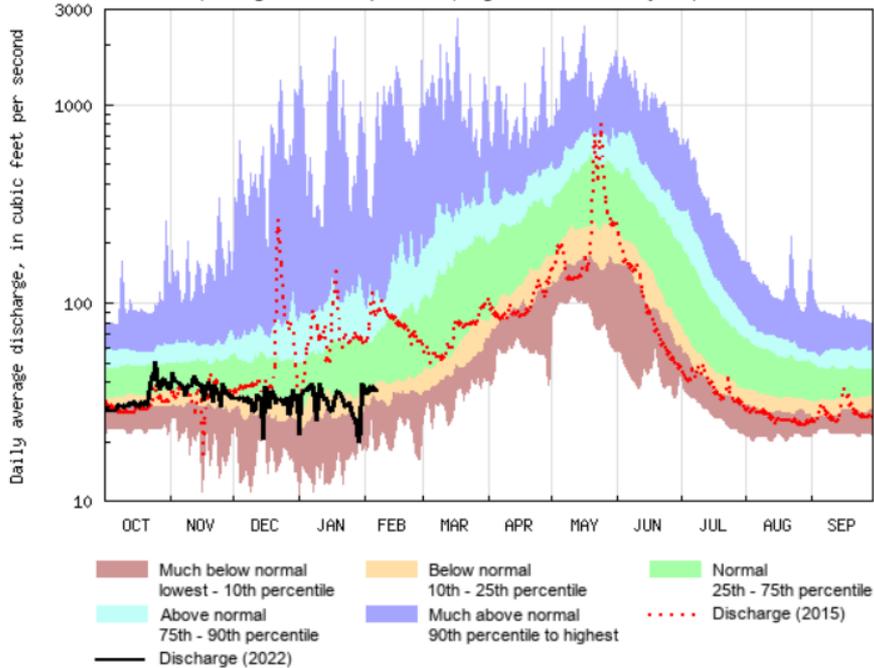
Explanation - Percentile classes

lowest-10th percentile	10-24	25-75	76-90	90th percentile - highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	



Southeastern OR

USGS 10396000 DONNER UND BLITZEN RIVER NR FRENCHGLEN OR
(Drainage area: 200 square miles, length of record: 91 - 93 years)

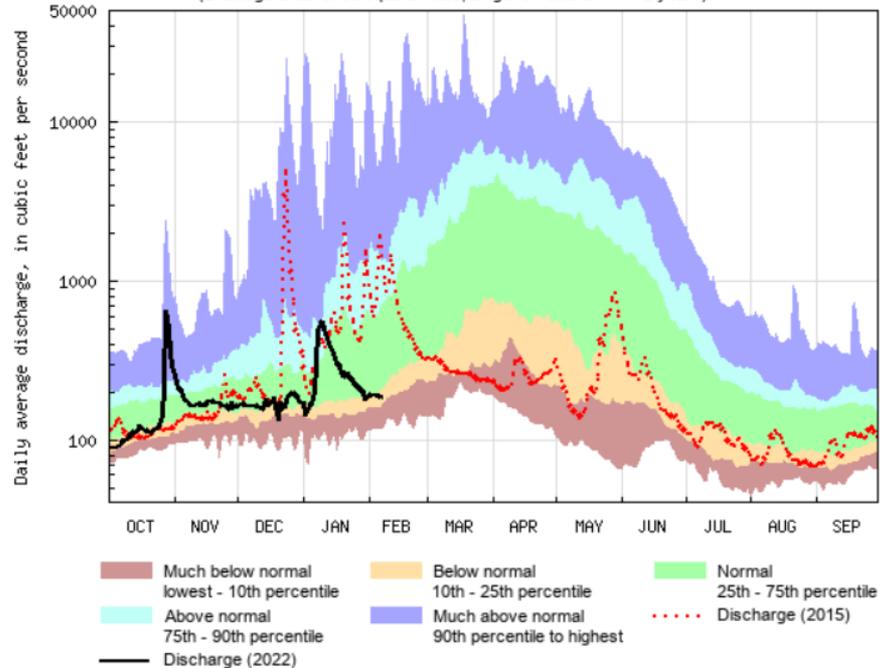


Much below normal lowest - 10th percentile
 Below normal 10th - 25th percentile
 Normal 25th - 75th percentile
 Above normal 75th - 90th percentile
 Much above normal 90th percentile to highest
 Discharge (2015)
 Discharge (2022)

USGS WaterWatch

Last updated: 2022-02-08

USGS 13181000 OWYHEE RIVER NR ROME OR
(Drainage area: 8000 square miles, length of record: 71 - 72 years)



Much below normal lowest - 10th percentile
 Below normal 10th - 25th percentile
 Normal 25th - 75th percentile
 Above normal 75th - 90th percentile
 Much above normal 90th percentile to highest
 Discharge (2015)
 Discharge (2022)

USGS WaterWatch

Last updated: 2022-02-08

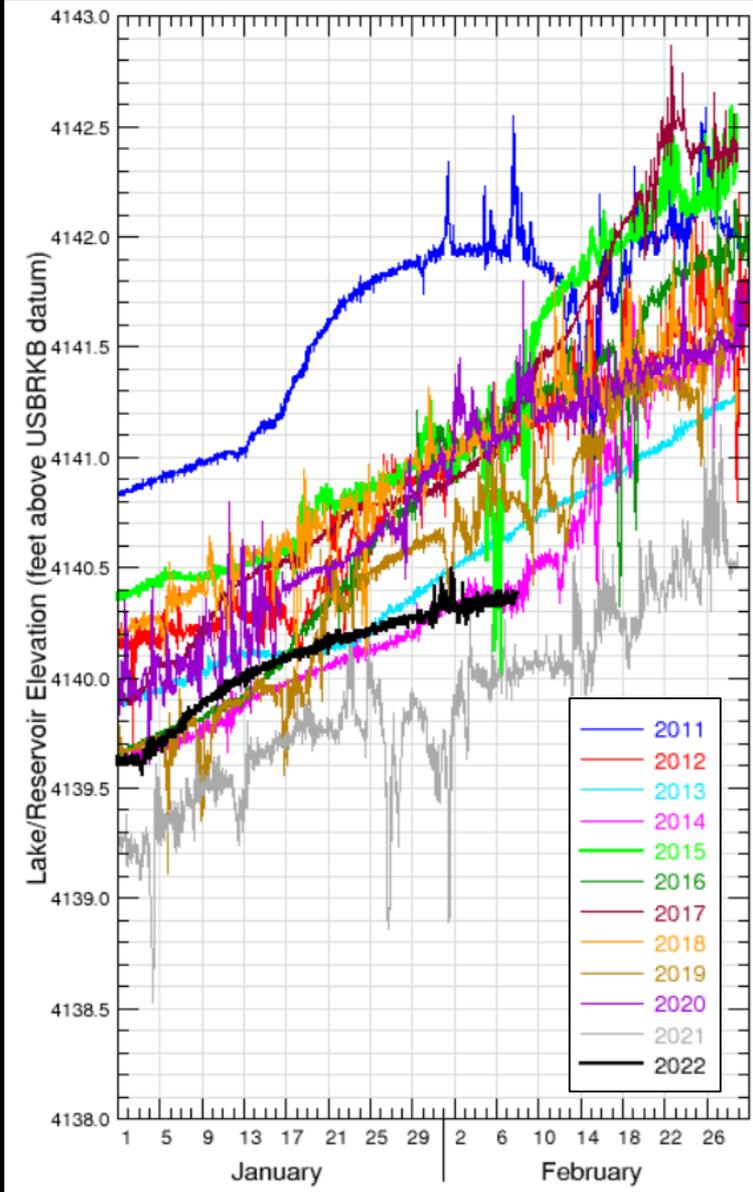
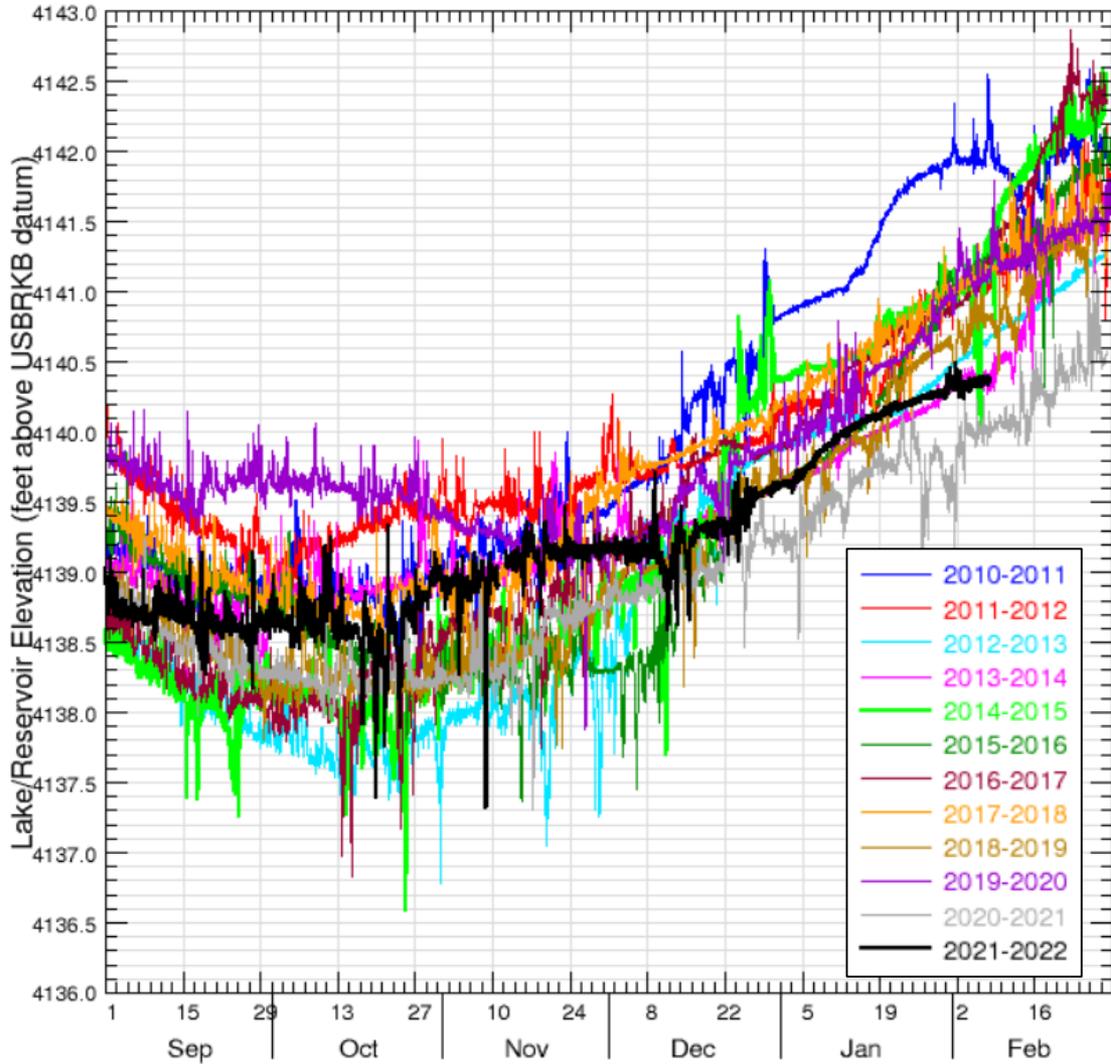
Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile - highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	



Klamath Lake

Upper Klamath Lake near Klamath Falls, OR (11507000)

Data from U.S. Geological Survey



US GEOLOGICAL SURVEY, OREGON WATER SCIENCE CENTER
 WATER AVAILABILITY REPORT FOR JANUARY 2022

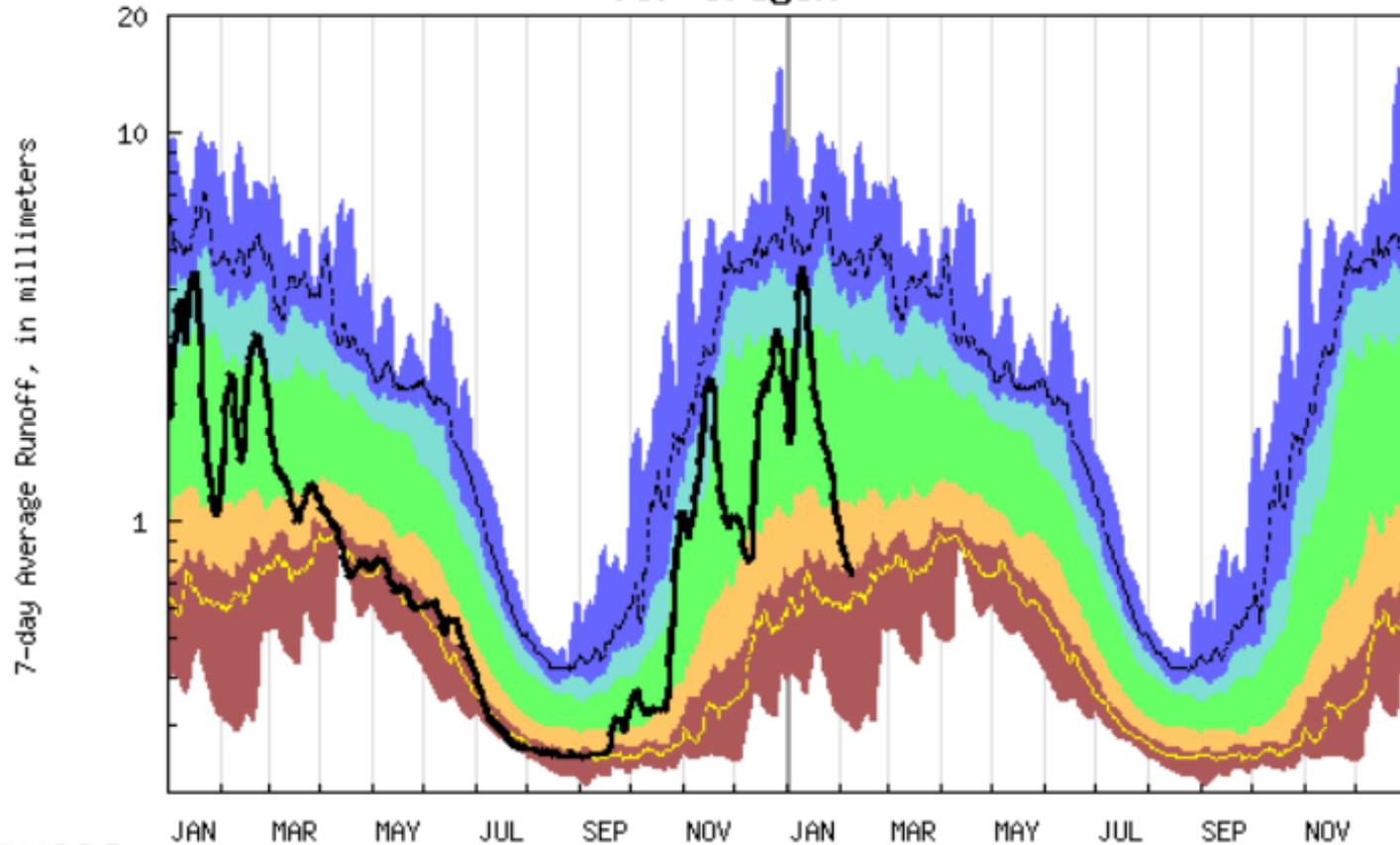
Station	NRCS SWSI Basin	Monthly mean discharge		Change in dis- charge from	Accumulated Runoff For the Period Oct. to Jan.
		Cubic feet per second	Percent of average	previous month (percent)	Percent of average
Donner Und Blitzen nr Frenchglen	Harney	34	52	6	68
(*)Deep Creek above Adel	Lake County	22	25	144	31
(*)Chewaucan River near Paisley	Lake County	48	48	60	63
Williamson River near Chiloquin	Klamath	612	64	14	77
Owyhee River near Rome	Owyhee	285	54	67	69
(*)NF Malheur River near Beulah	Malheur	37	51	-24	77
Grande Ronde R at Troy	Grande Ronde Powder/Burnt	1,470	70	39	73
Umatilla River nr Gibbon	Umatilla Lower John Day	353	122	108	97
John Day River at Service Crk	Upper John Day	746	47	104	48
(*)Little Deschutes River nr LaPine	Upper Deschutes	30	19	-12	31
Hood River nr Hood River	Lower Deschutes Mt.Hood	1,280	87	30	89
Willamette River at Salem	Willamette	50,800	113	19	102
Wilson River near Tillamook	North Coast	3,130	119	12	130
Umpqua River near Elkton	Rogue/Umpqua	14,300	95	105	75
Rogue River near Agness	Rogue/Umpqua	7,400	68	45	67
SF Coquille River at Powers	South Coast	1,660	94	6	91
Chetco River near Brookings	South Coast	4,330	84	11	99

All data should be considered provisional and subject to revision.
 Percent of average computed using 30-year base period, water years 1991-2020.
 (*) provided by Oregon Water Resources Department

02/01/2022



Duration hydrograph of 7-day average runoff for Oregon



USGS WaterWatch

2021

2022

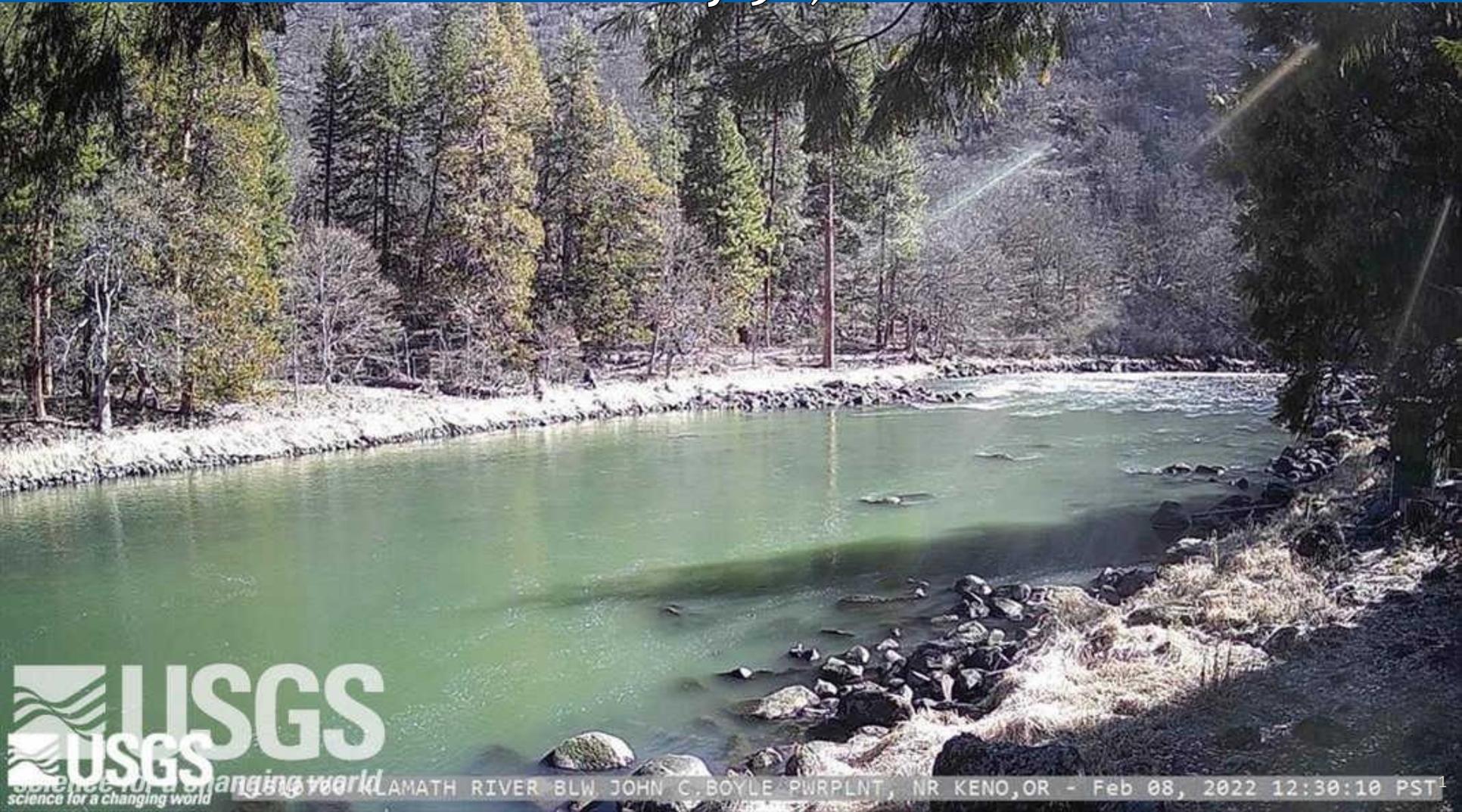
Last updated: 2022-02-08

Explanation - Percentile classes						
						
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile - highest
Much below Normal	Below normal	Normal	Above normal	Much above normal		Runoff

Water Supply Availability Committee Oregon Water Resources Department

Ryan Andrews

February 9th, 2022



January % of Average Streamflow - WY 2022

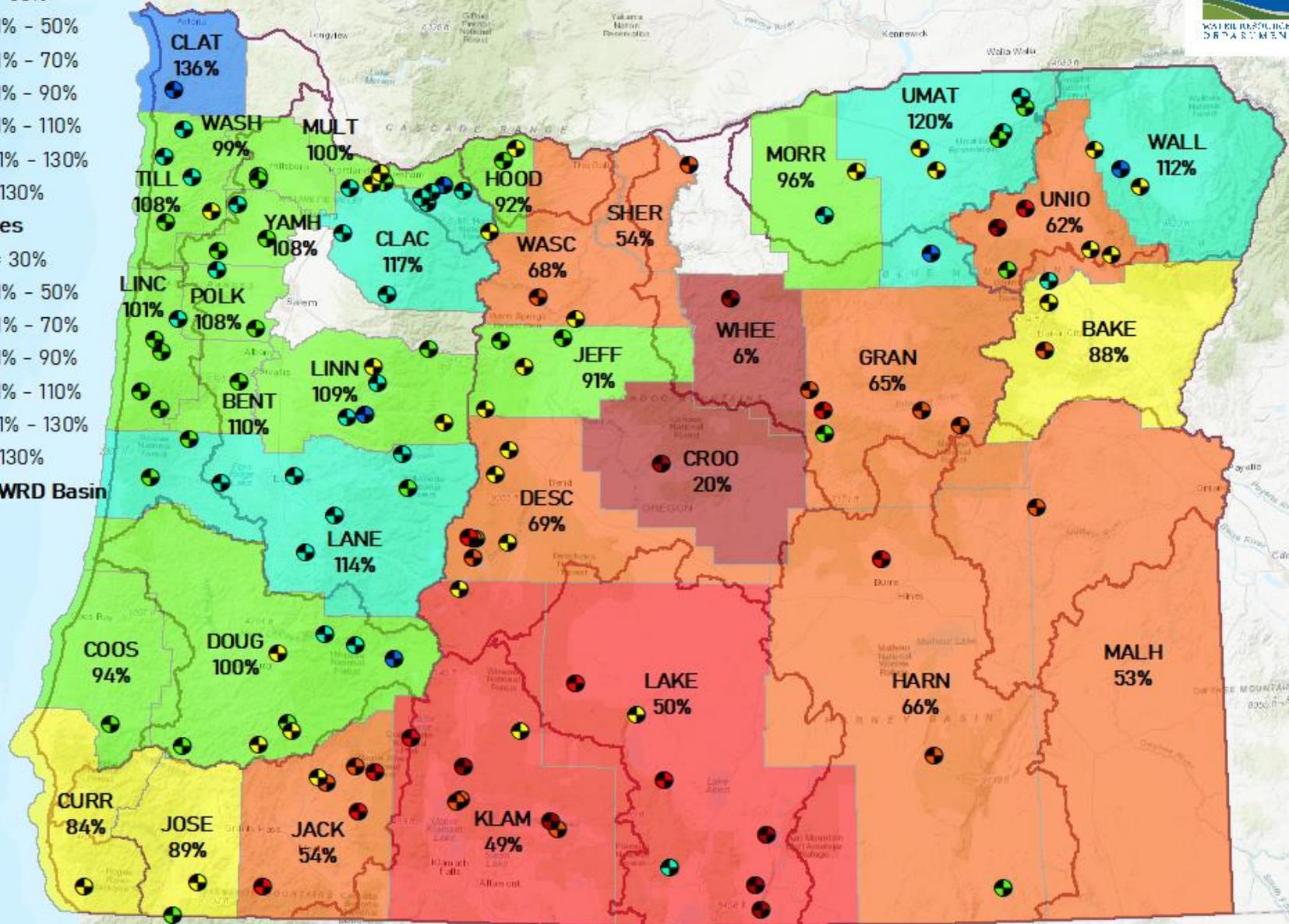


Stream Gage

- <= 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: 2/4/2022

Water Year To Date % of Average Streamflow - February 6, 2022



Stream Gage

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

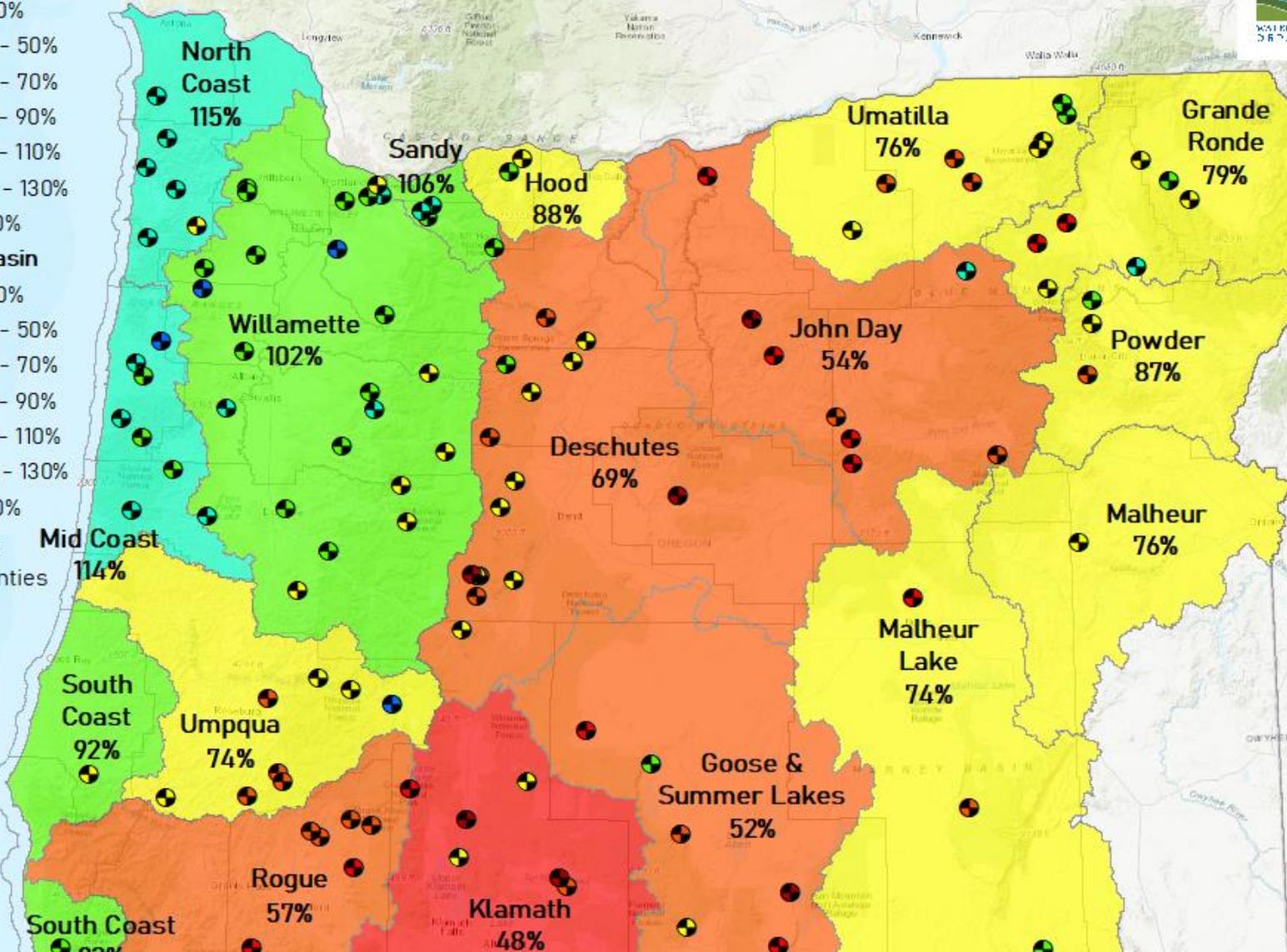
OWRD Basin

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

Counties

- Counties

Date: 2/7/2022



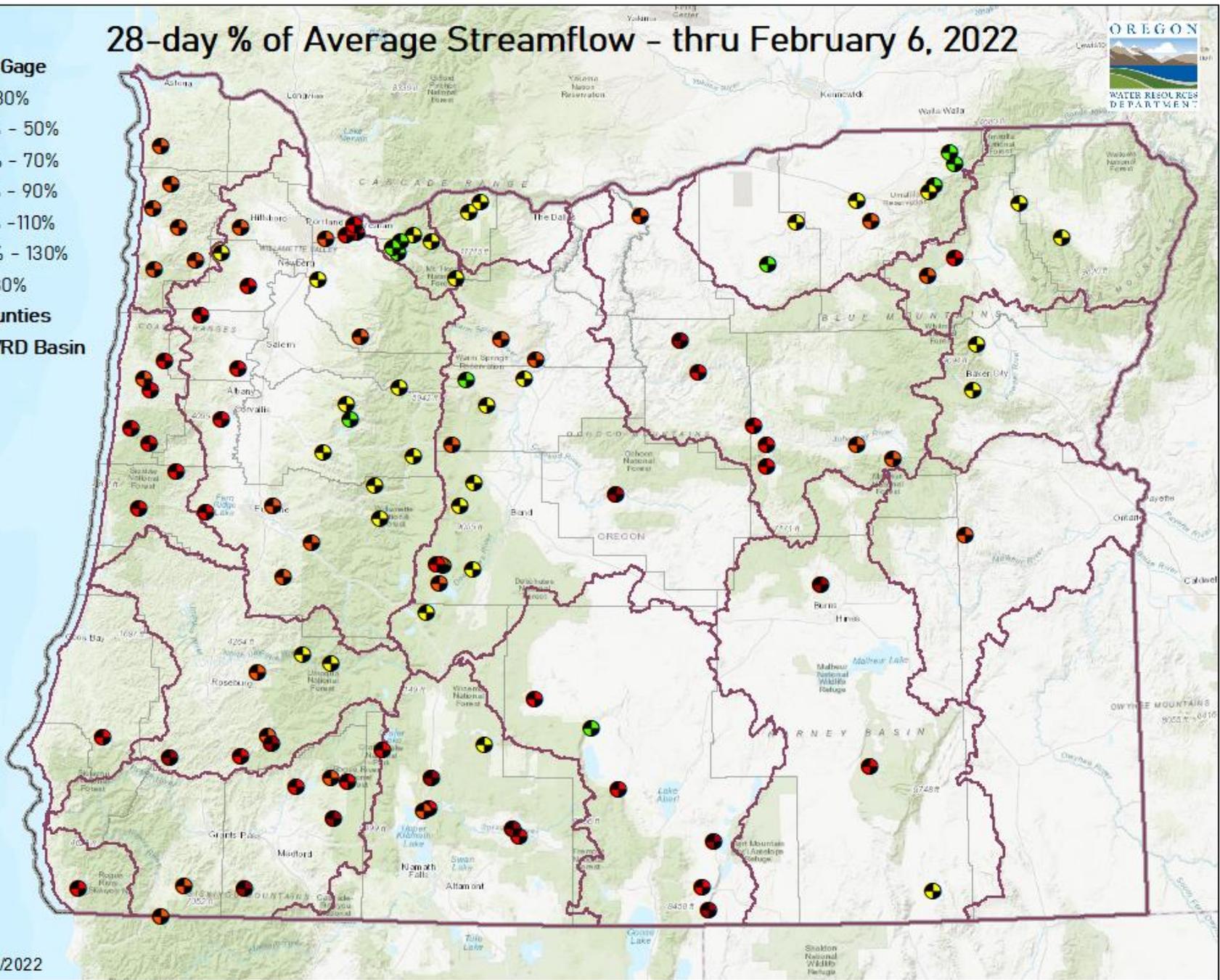
28-day % of Average Streamflow - thru February 6, 2022



Stream Gage

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

- Counties
- OWRD Basin



Date: 2/7/2022

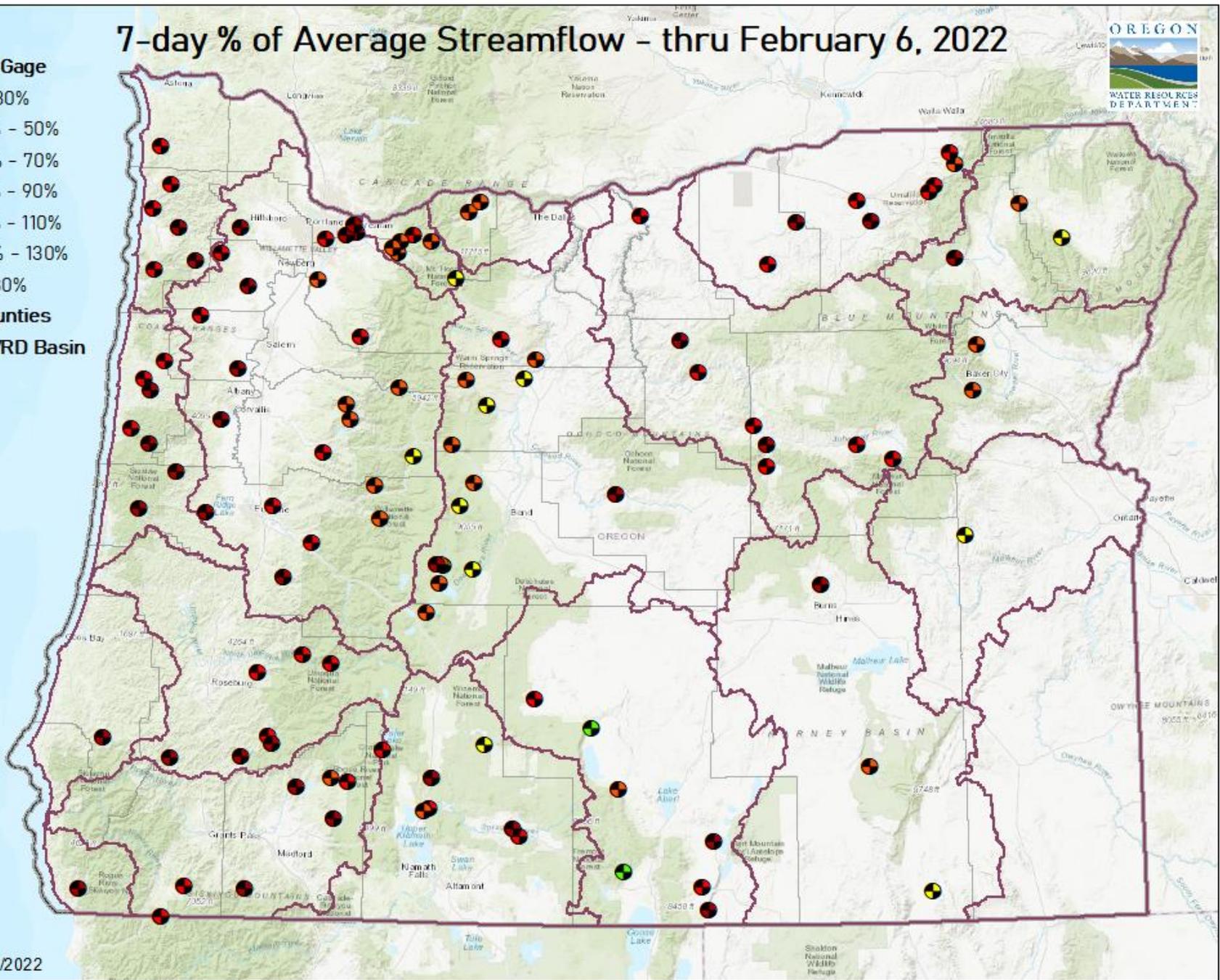
7-day % of Average Streamflow - thru February 6, 2022



Stream Gage

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

- Counties
- OWRD Basin



Date: 2/7/2022

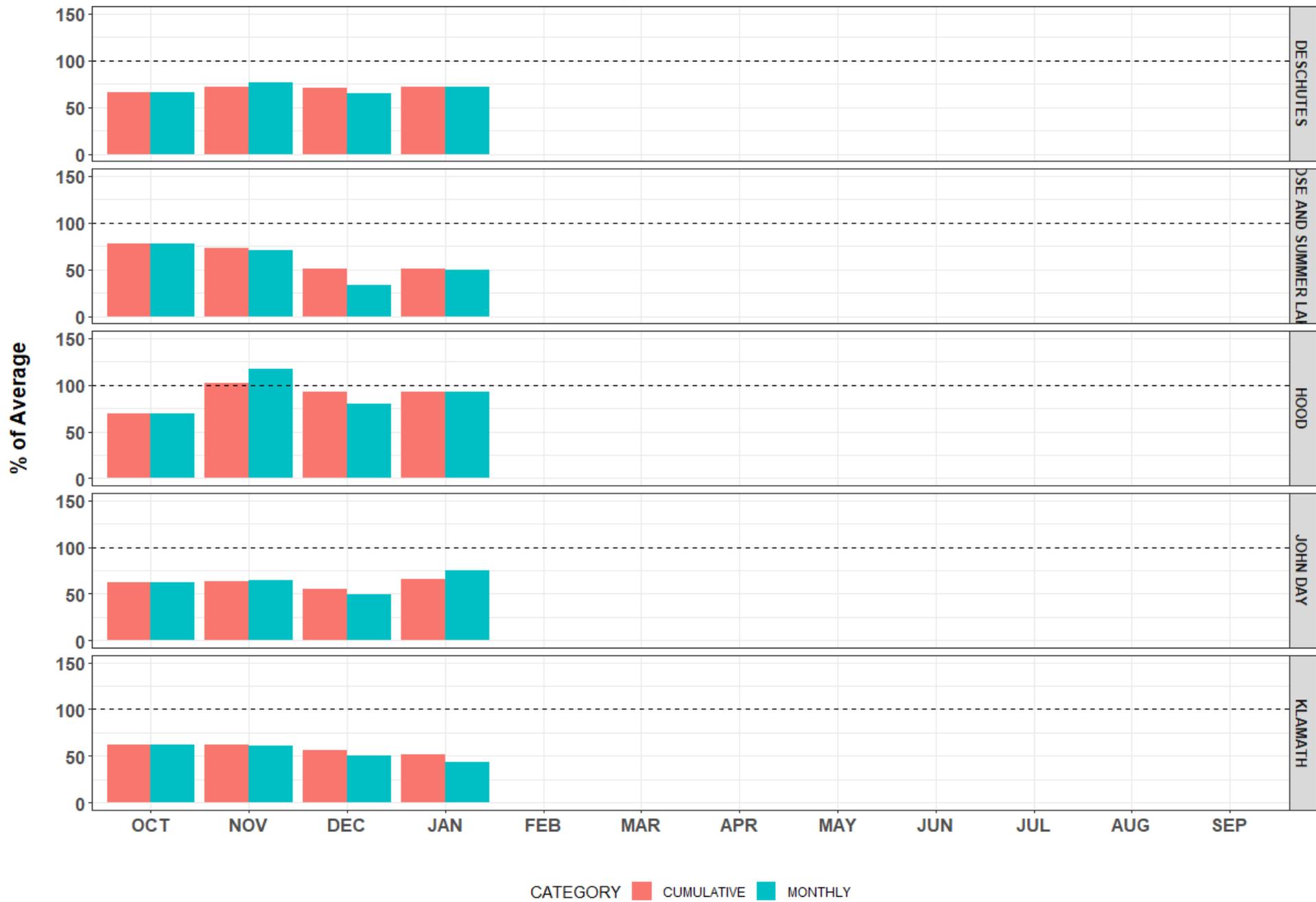
WESTERN BASINS

% of Average Streamflow - WY 2022



CENTRAL BASINS

% of Average Streamflow - WY 2022

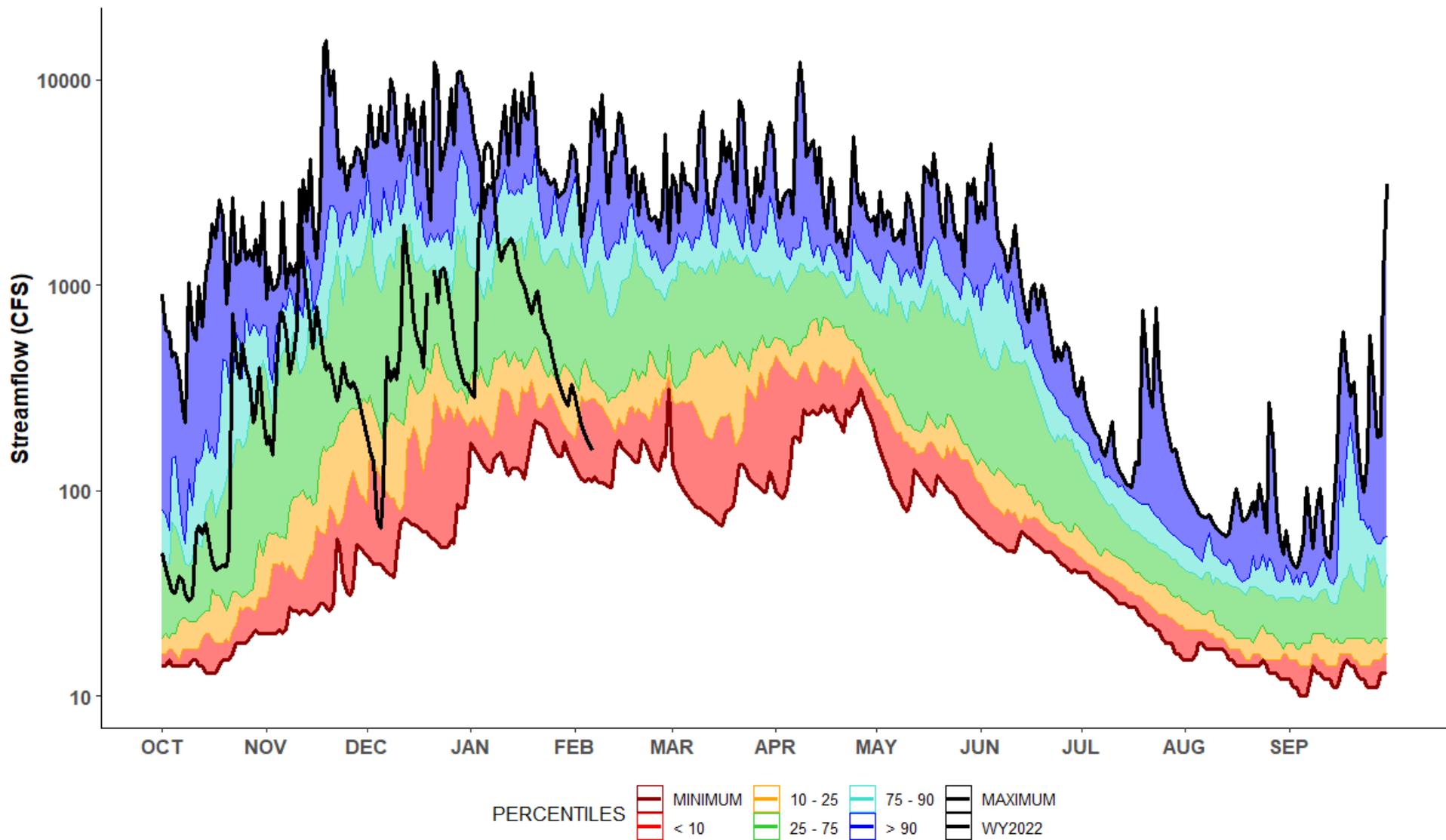


EASTERN BASINS

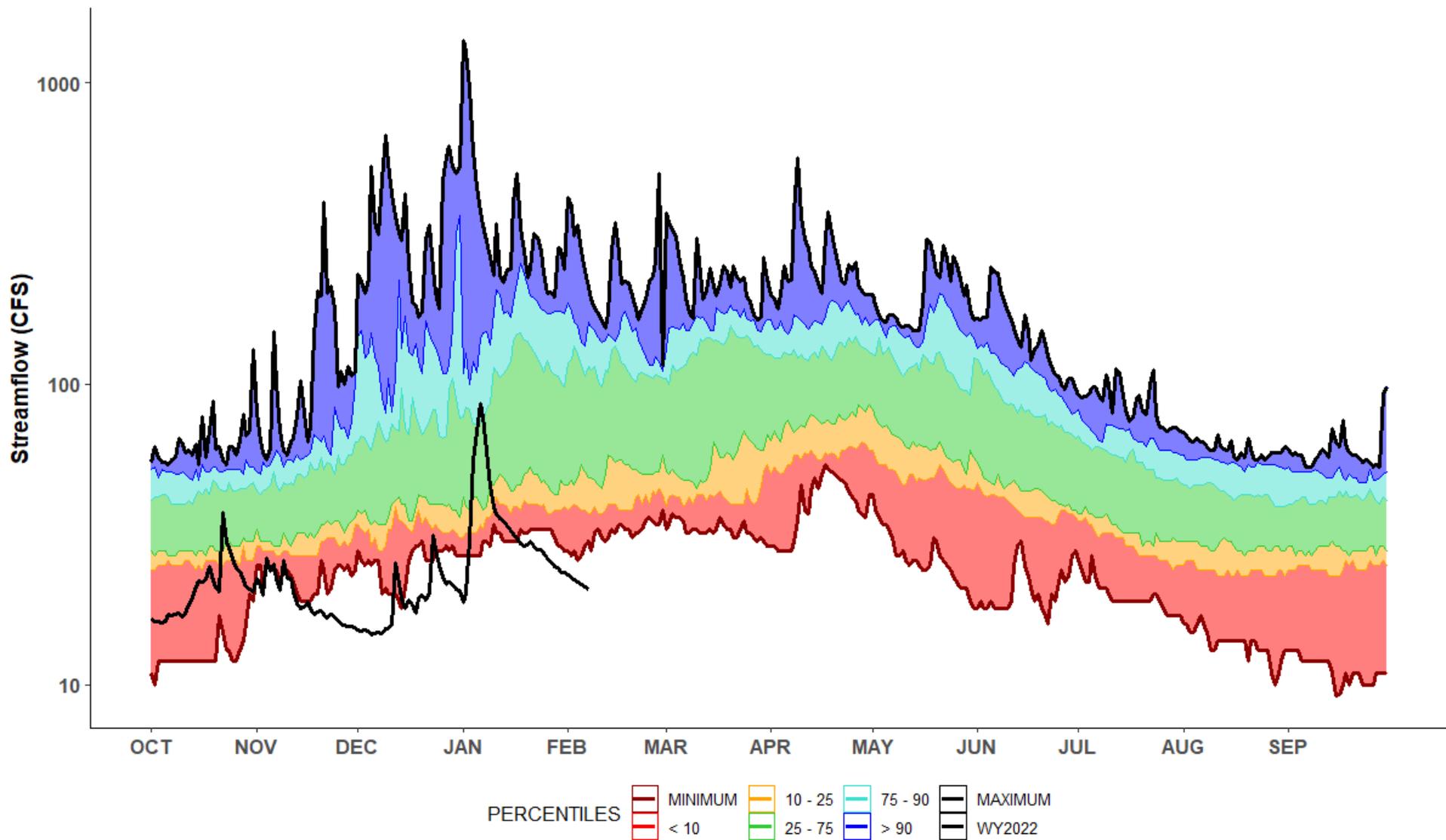
% of Average Streamflow - WY 2022



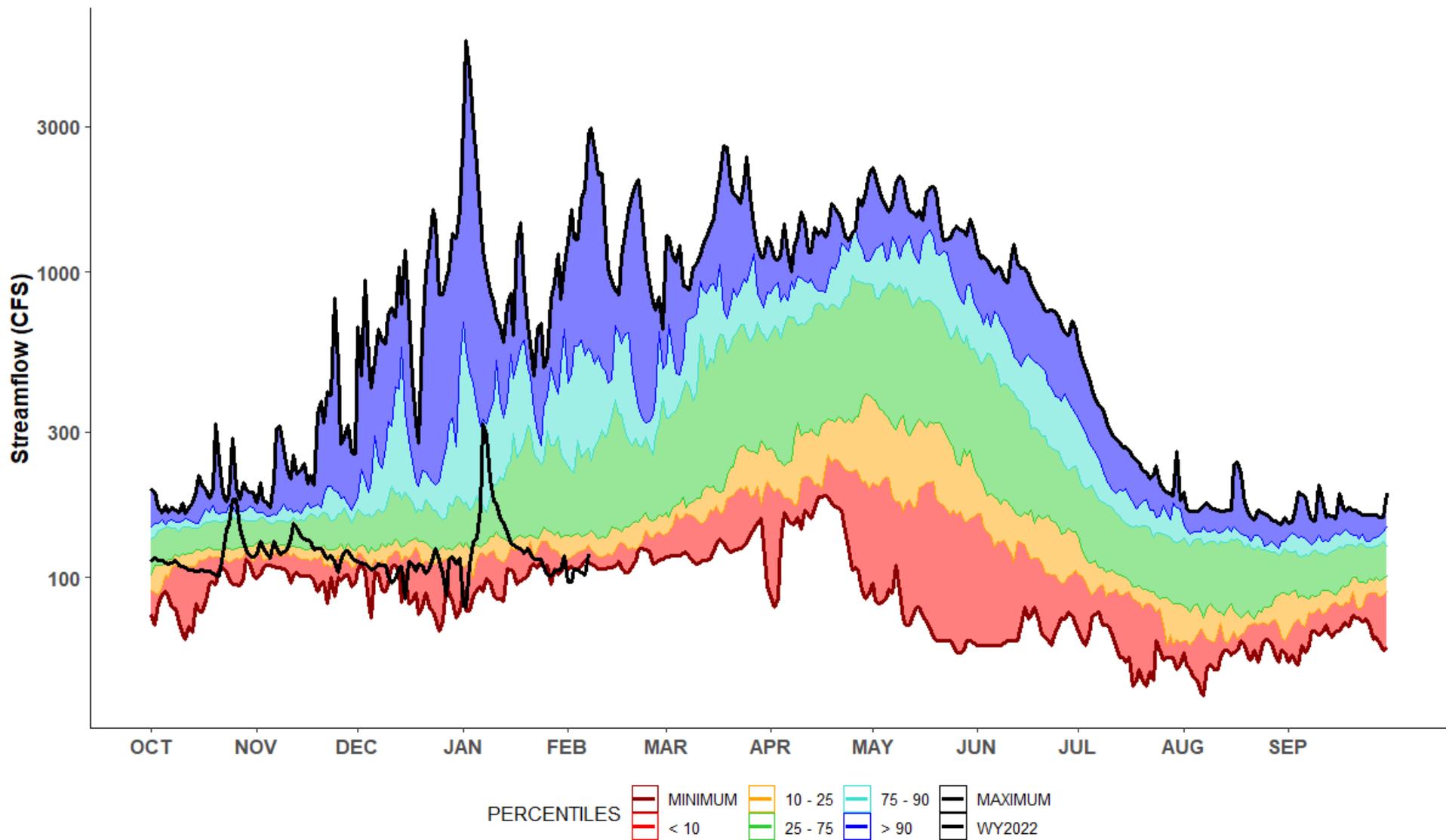
14154500 - ROW R AB PITCHER CR NR DORENA, OR
WILLAMETTE BASIN
POR: 1991-2020



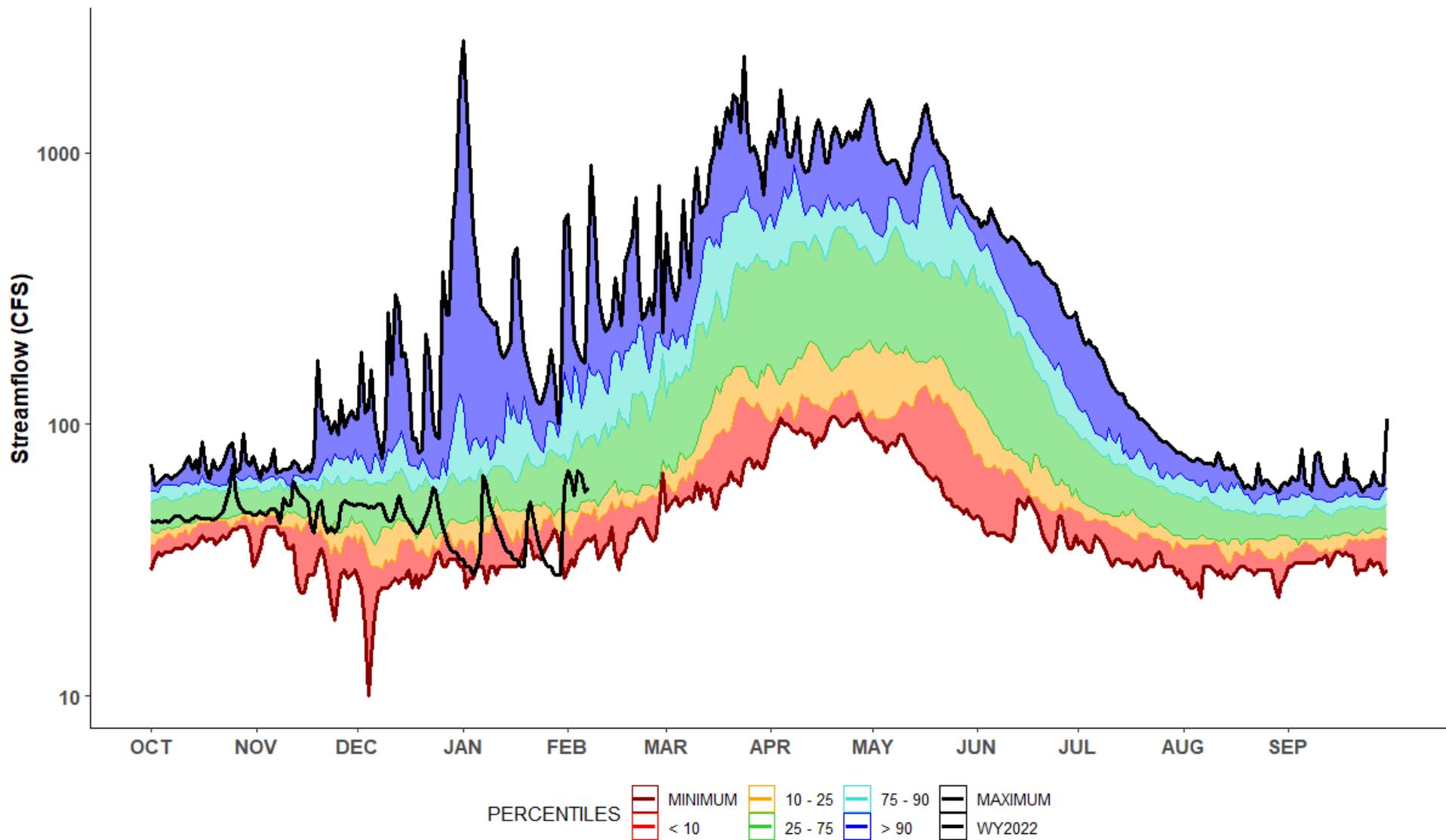
14335200 - S FK BIG BUTTE CR AB WILLOW CR NR BUTTE FALLS, OR
ROGUE BASIN
POR: 1991-2020



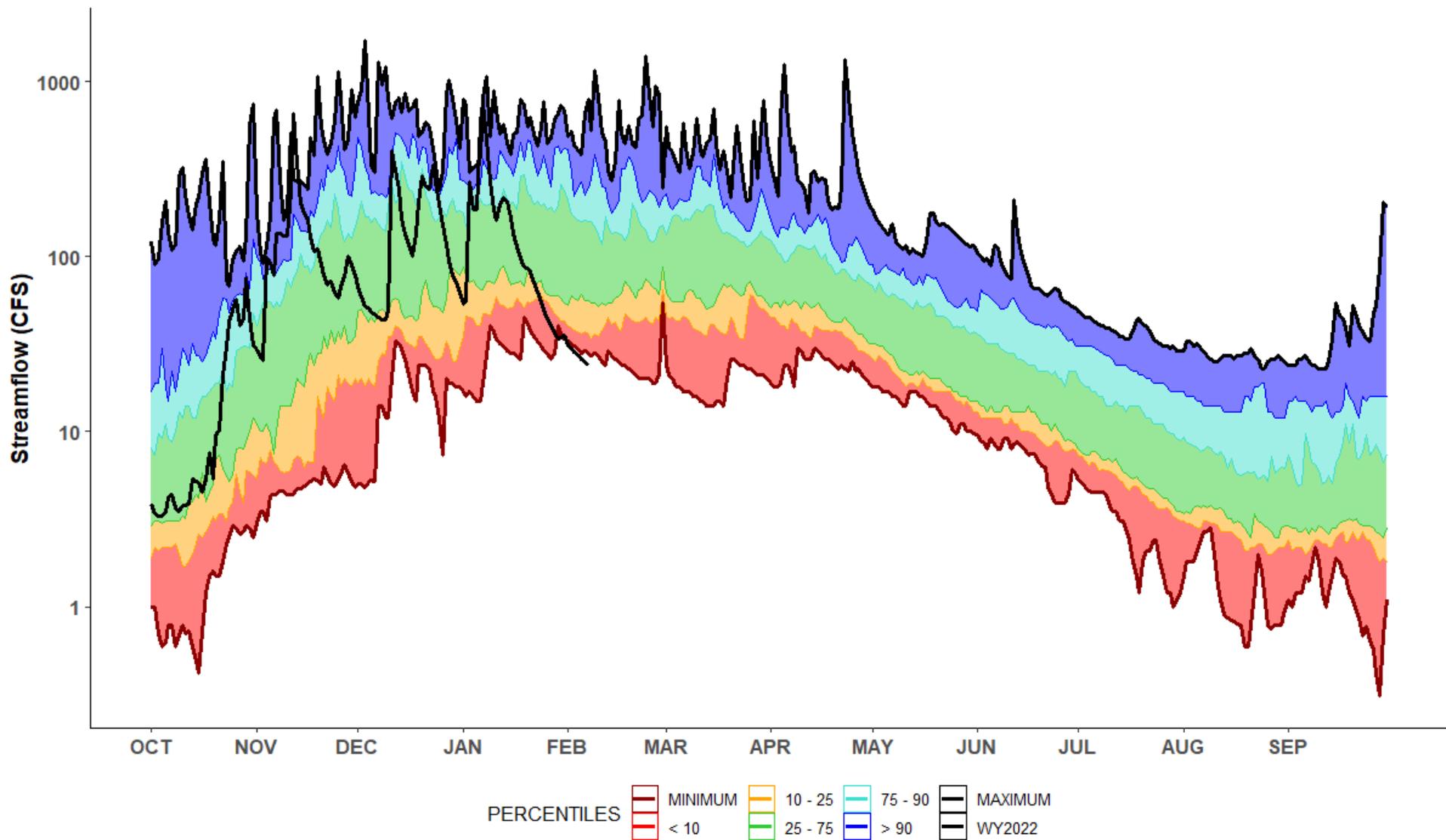
11497500 - SPRAGUE R NR BEATTY, OR
KLAMATH BASIN
POR: 1991-2020



13216500 - N FK MALHEUR R AB BEULAH RES NR BEULAH, OR
MALHEUR BASIN
POR: 1991-2020



14202850 - SCOGGINS CR AB HENRY HAGG LAKE NR GASTON, OR
WILLAMETTE BASIN
POR: 1991-2020



OREGON



WATER RESOURCES
DEPARTMENT

QUESTIONS?



— BUREAU OF —
RECLAMATION

Reclamation Storage Update

Oregon Water Supply Availability
Committee Meeting

February 9, 2022

Basin Operations Summary

- **Operations Activities:**

- Reclamation storage reservoirs in Oregon continue with typical winter fill operations
- No Flood Risk Management operations occurring

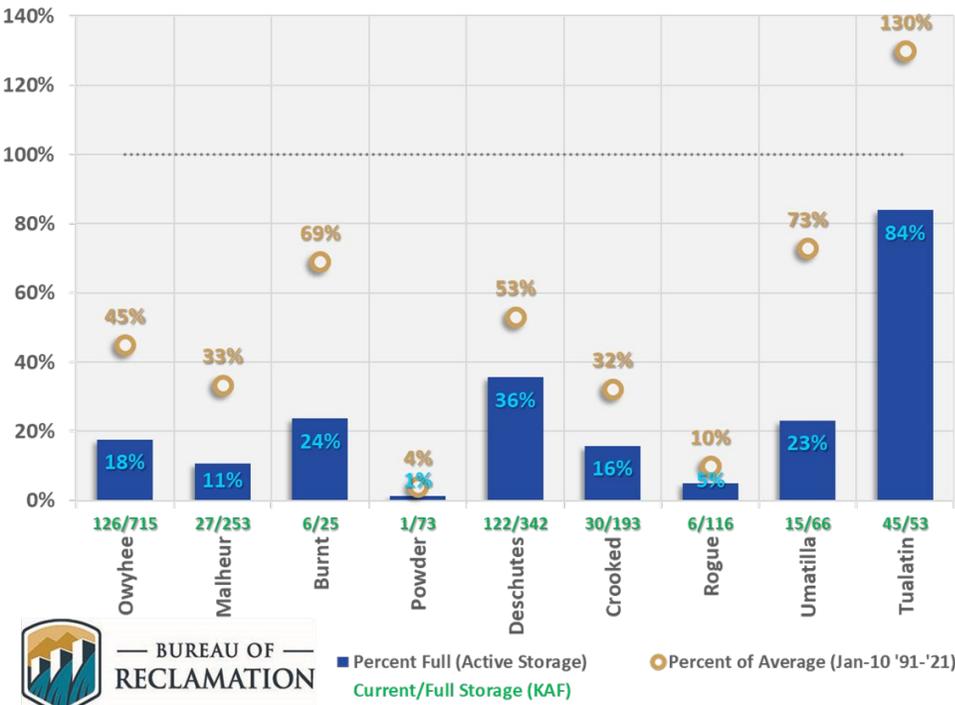
- **Water Supply Notes**

- Below Average reservoir content continues at Reclamation Oregon reservoirs (except Scoggins)
- Need wet conditions to materialize, particularly in the central/eastern/southern Oregon basins
- Most river basins will need above to much above normal runoff this WY to refill
- Reclamation's runoff forecasts decreased by around 10-30% due to dry conditions in January
- Most locations now have well below normal runoff forecasts for the spring runoff

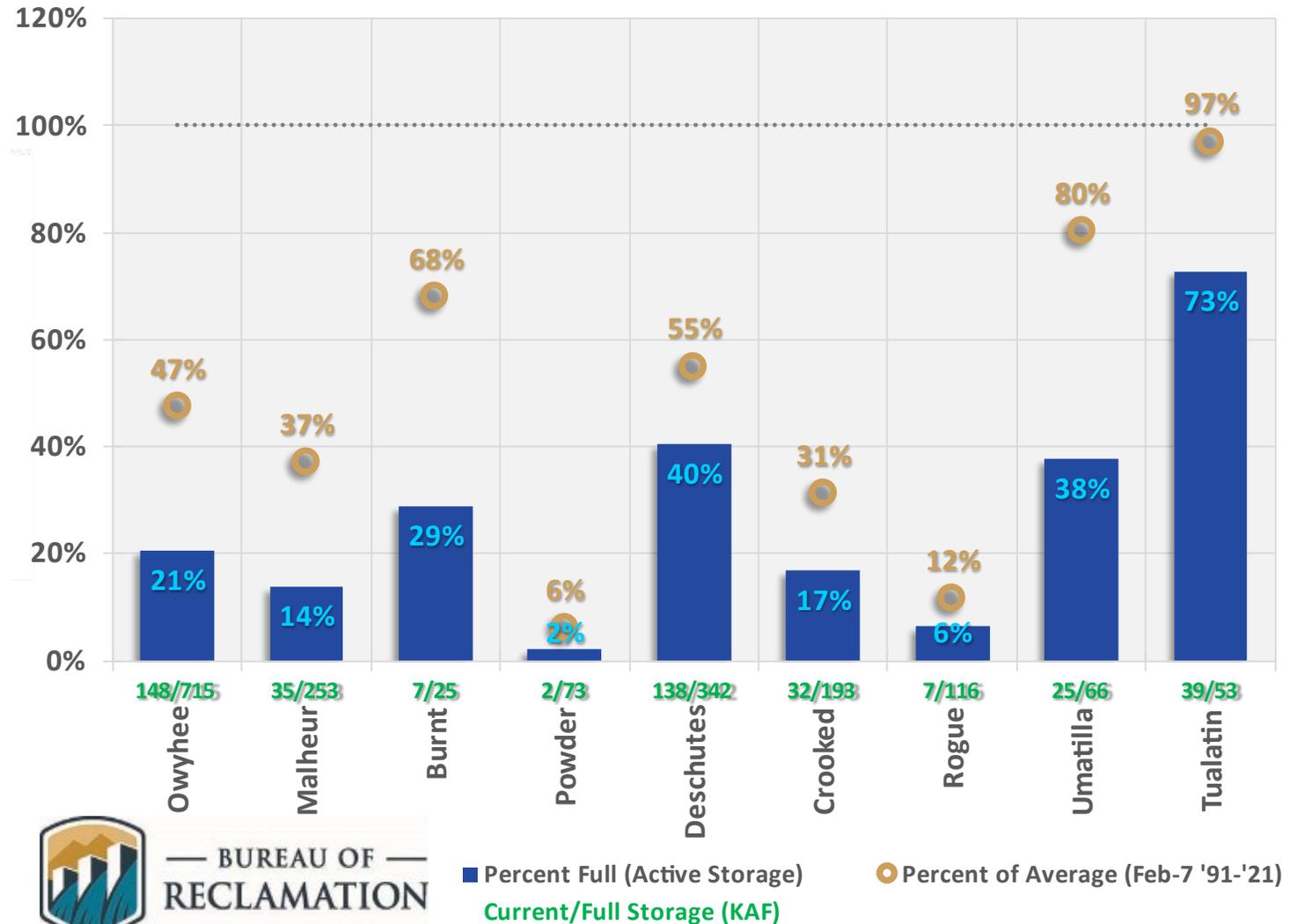


Storage Conditions

Oregon Reservoir Storage (Jan 10 2022)

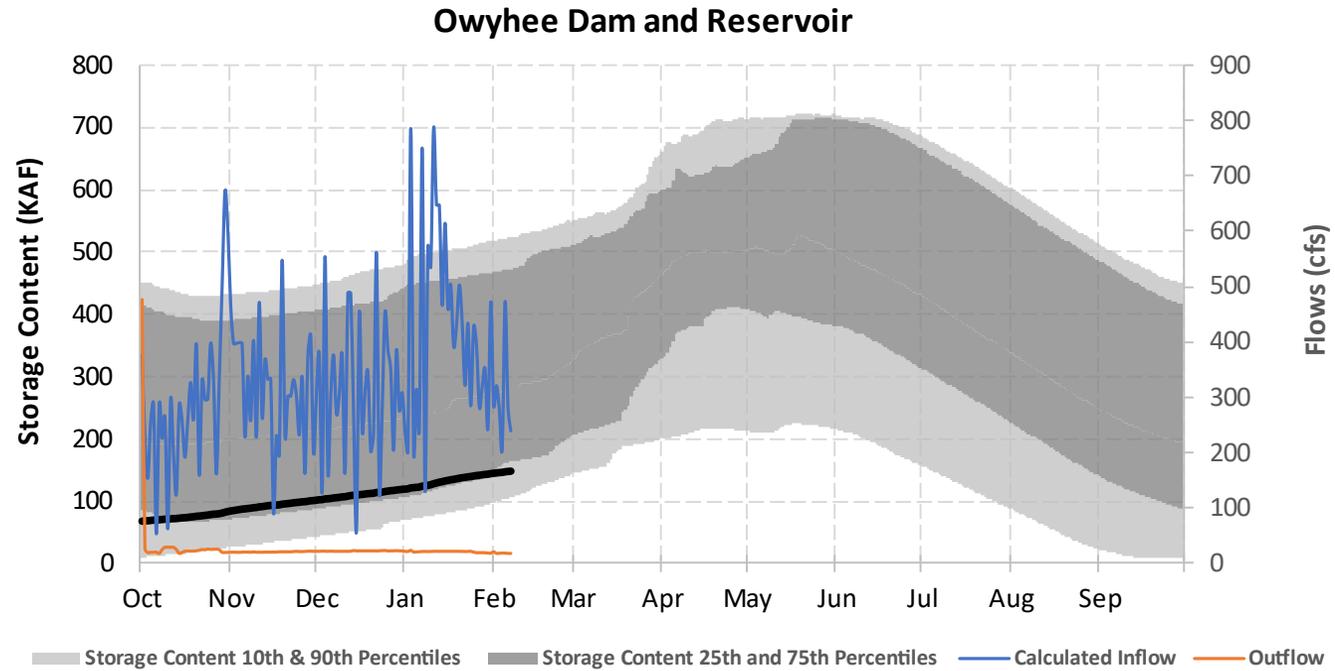
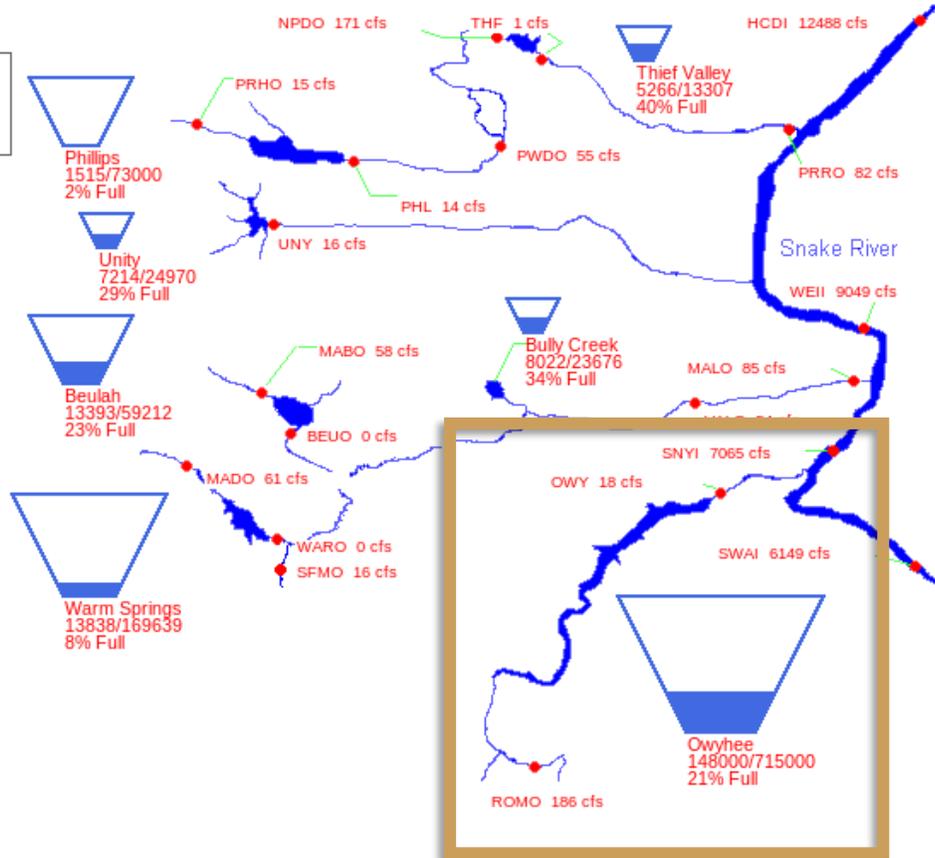
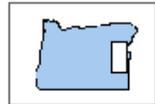


Oregon Reservoir Storage (Feb 7 2022)



Owyhee River Basin

02/07/2022



Reclamation January 1 Runoff Forecast
Jan-Jun: 610 kaf (115% 91-20 Ave)

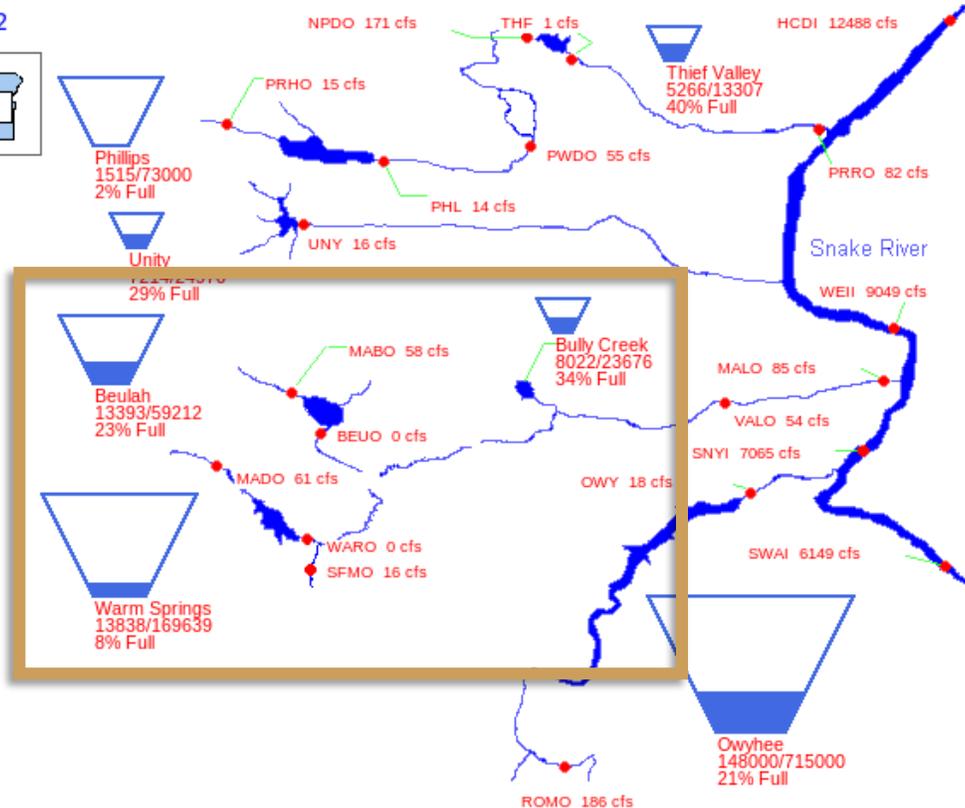
Reclamation February 1 Runoff Forecast
Feb-Jun: 458 kaf (94% 91-20 Ave)



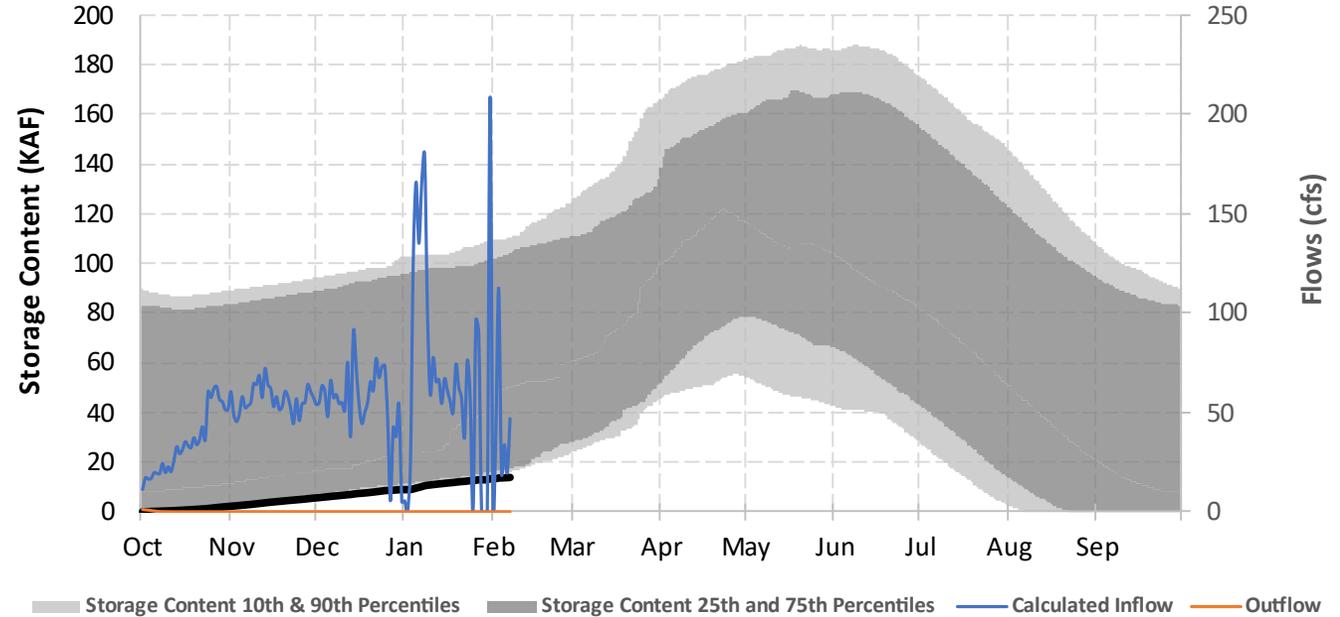
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Malheur River Basin

02/07/2022



Warm Springs Dam and Reservoir



Reclamation January 1 Runoff Forecast

Jan-Jun: 100 kaf (86% 91-20 Ave)

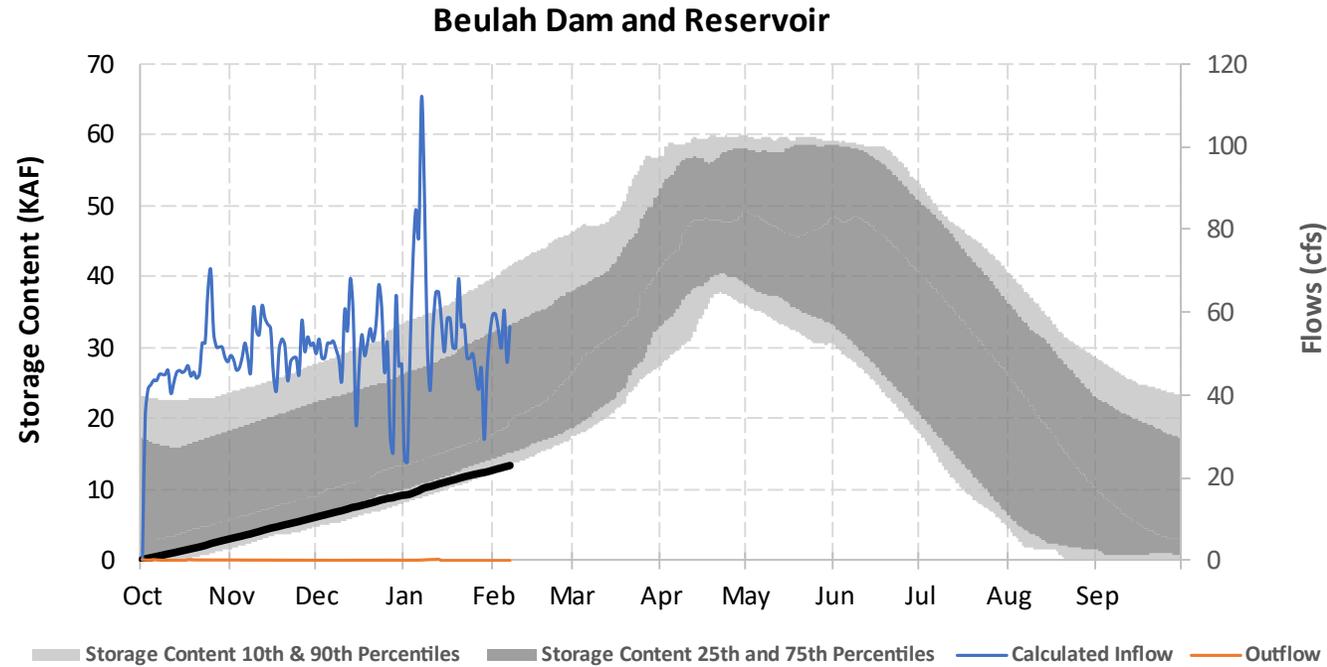
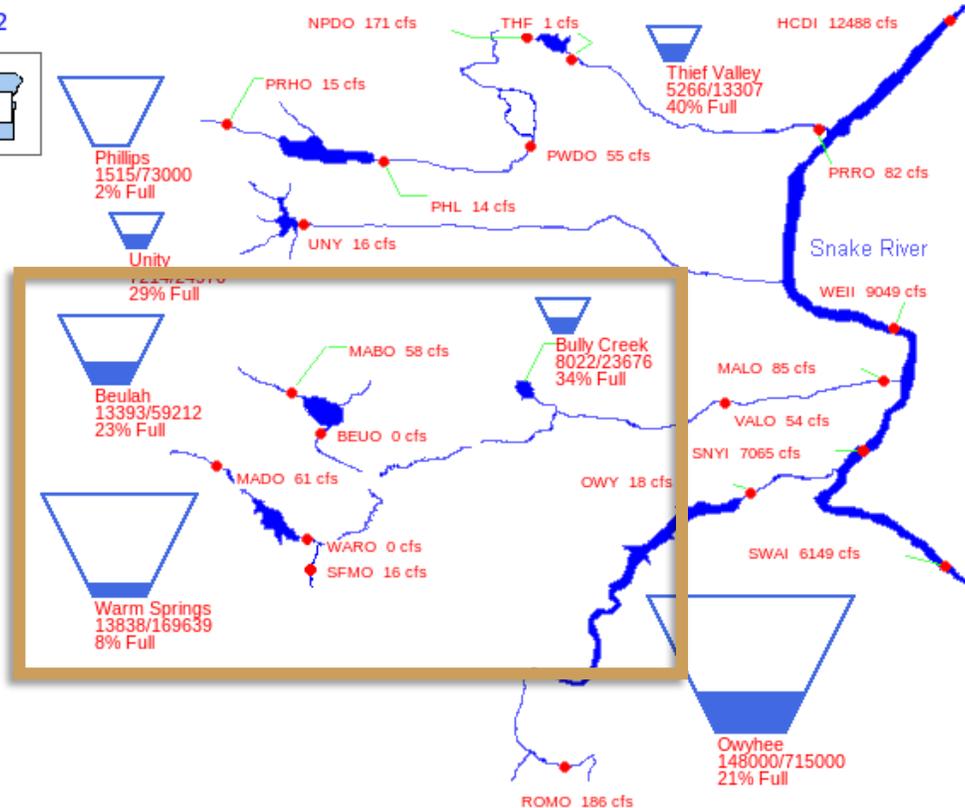
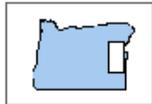
Reclamation February 1 Runoff Forecast

Feb-Jun: 79 kaf (74% 91-20 Ave)

*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Malheur River Basin

02/07/2022



Reclamation January 1 Runoff Forecast

Jan-Jun: 70 kaf (88% 91-20 Ave)

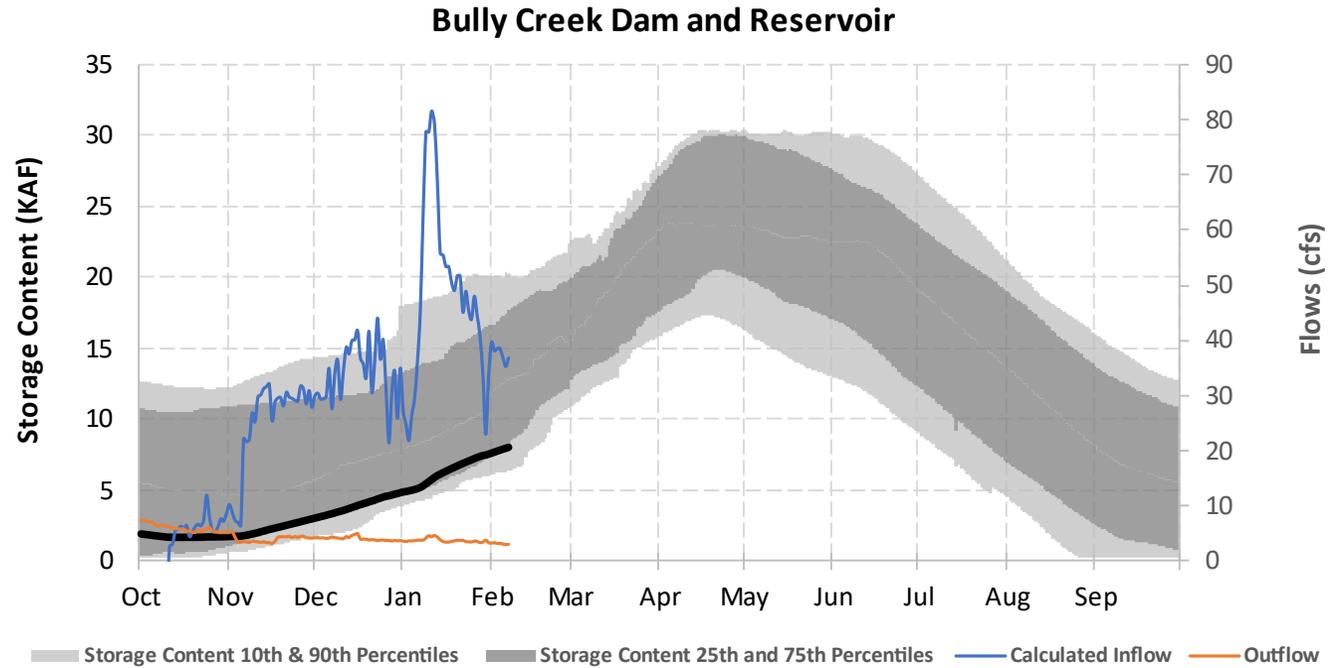
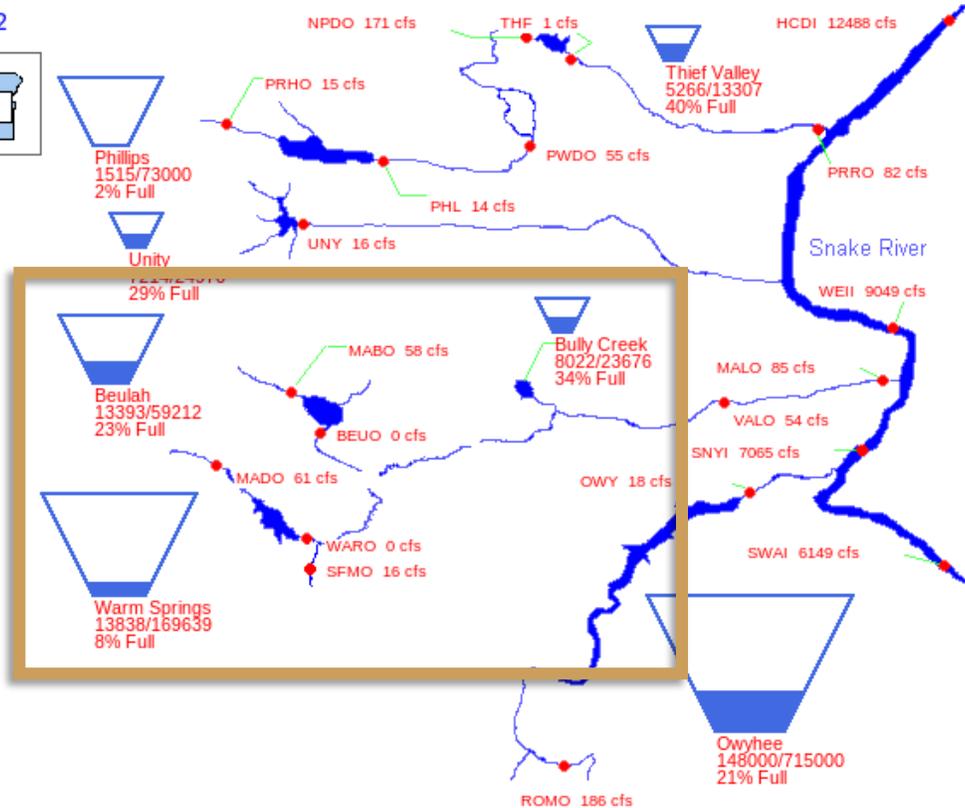
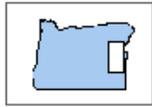
Reclamation February 1 Runoff Forecast

Feb-Jun: 53 kaf (71% 91-20 Ave)

*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Malheur River Basin

02/07/2022



Reclamation January 1 Runoff Forecast

Jan-Jun: 24 kaf (81% 91-20 Ave)

Reclamation February 1 Runoff Forecast

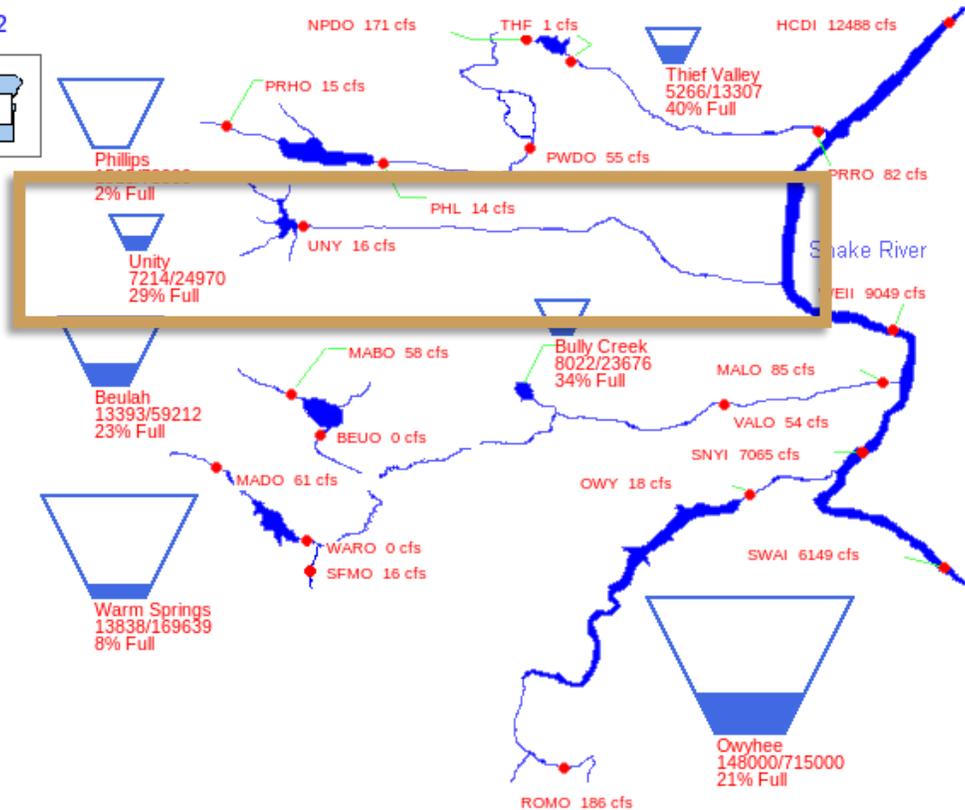
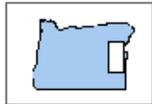
Feb-Jun: 19 kaf (73% 91-20 Ave)



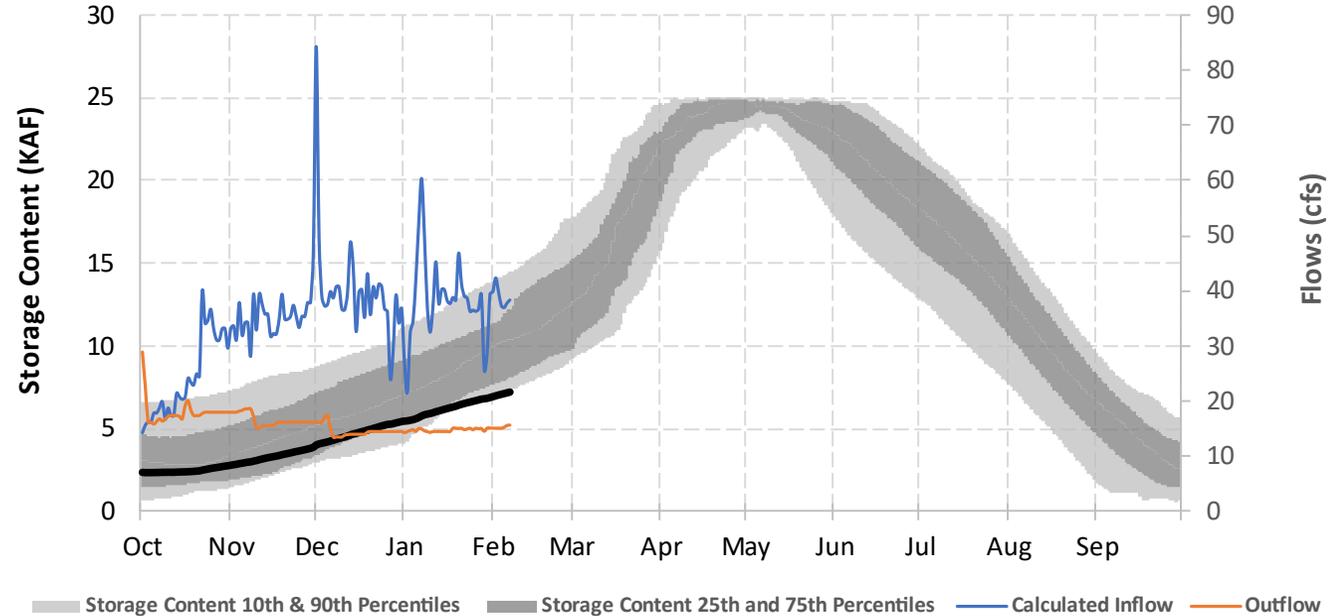
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Burnt River Basin

02/07/2022



Unity Dam and Reservoir



Reclamation January 1 Runoff Forecast

Jan-Jun: 45 kaf (89% 91-20 Ave)

Reclamation February 1 Runoff Forecast

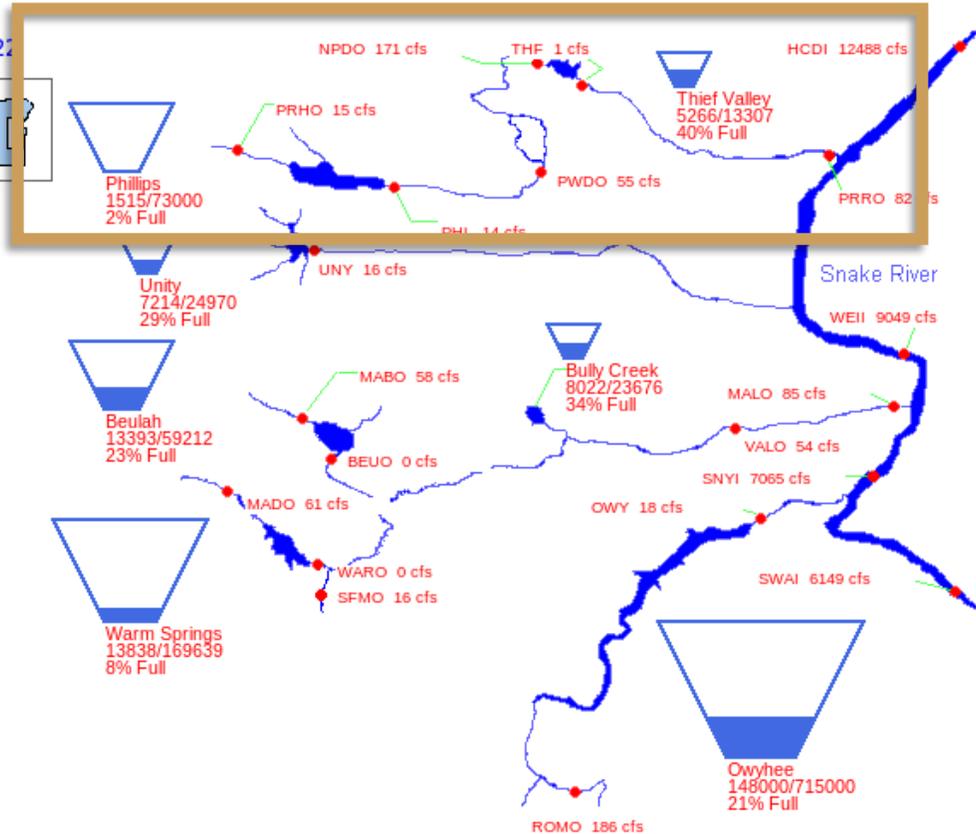
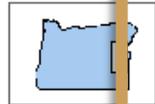
Feb-Jun: 41 kaf (87% 91-20 Ave)



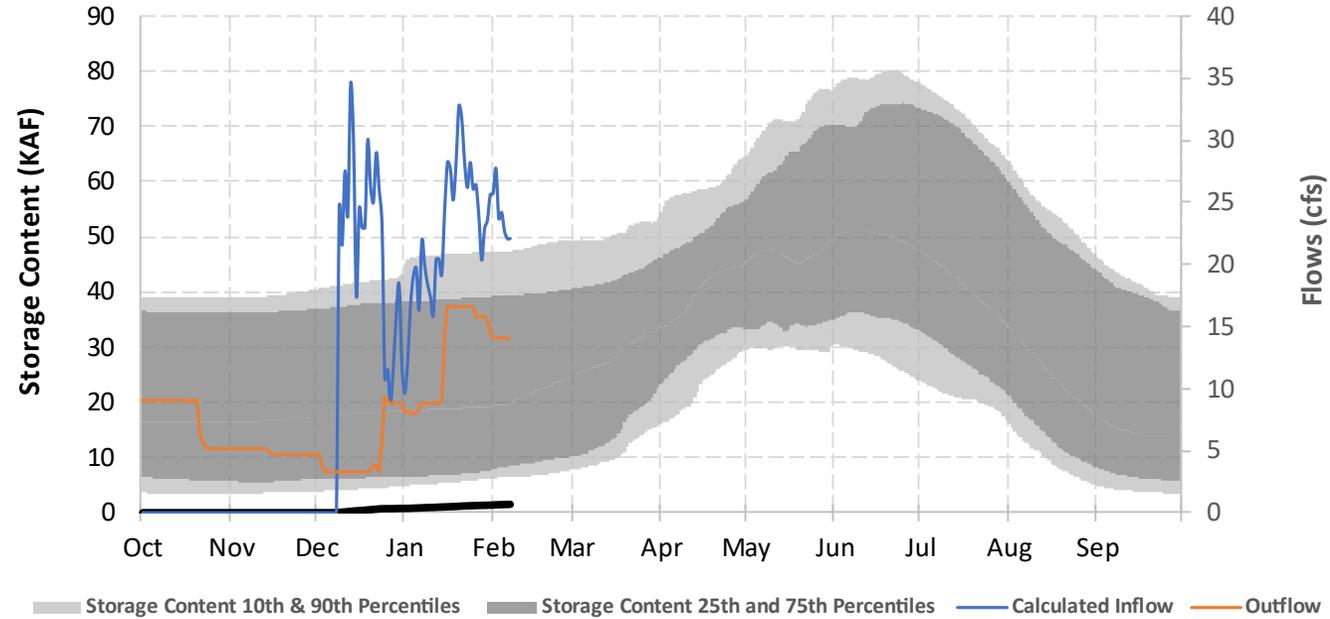
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Powder River Basin

02/07/2022



Mason Dam - Phillips Lake



Reclamation January 1 Runoff Forecast

Jan-Jul: 69 kaf (97% 91-20 Ave)

Reclamation February 1 Runoff Forecast

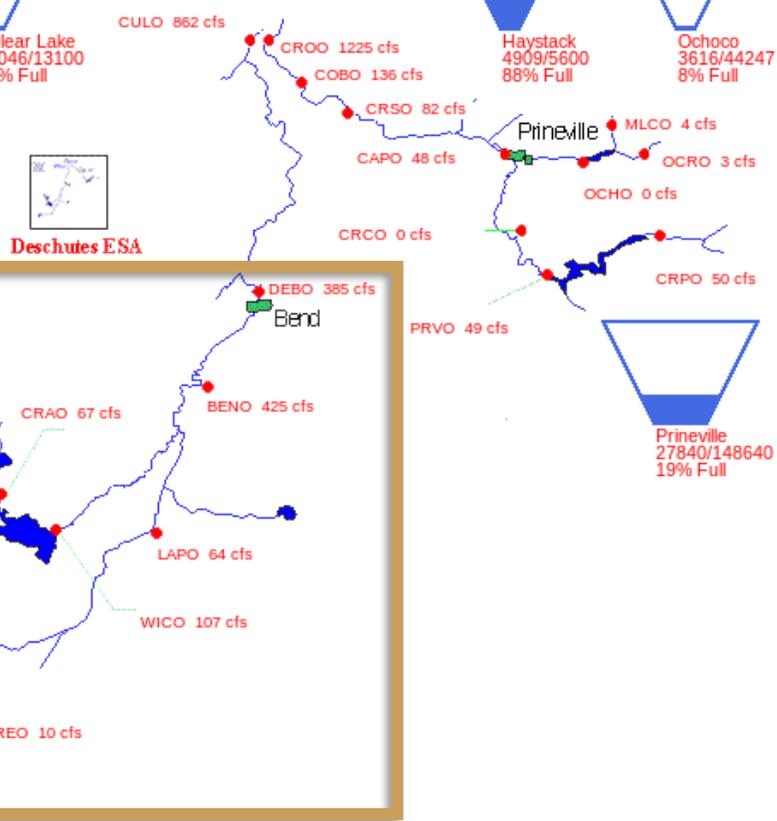
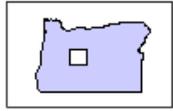
Feb-Jul: 55 kaf (80% 91-20 Ave)



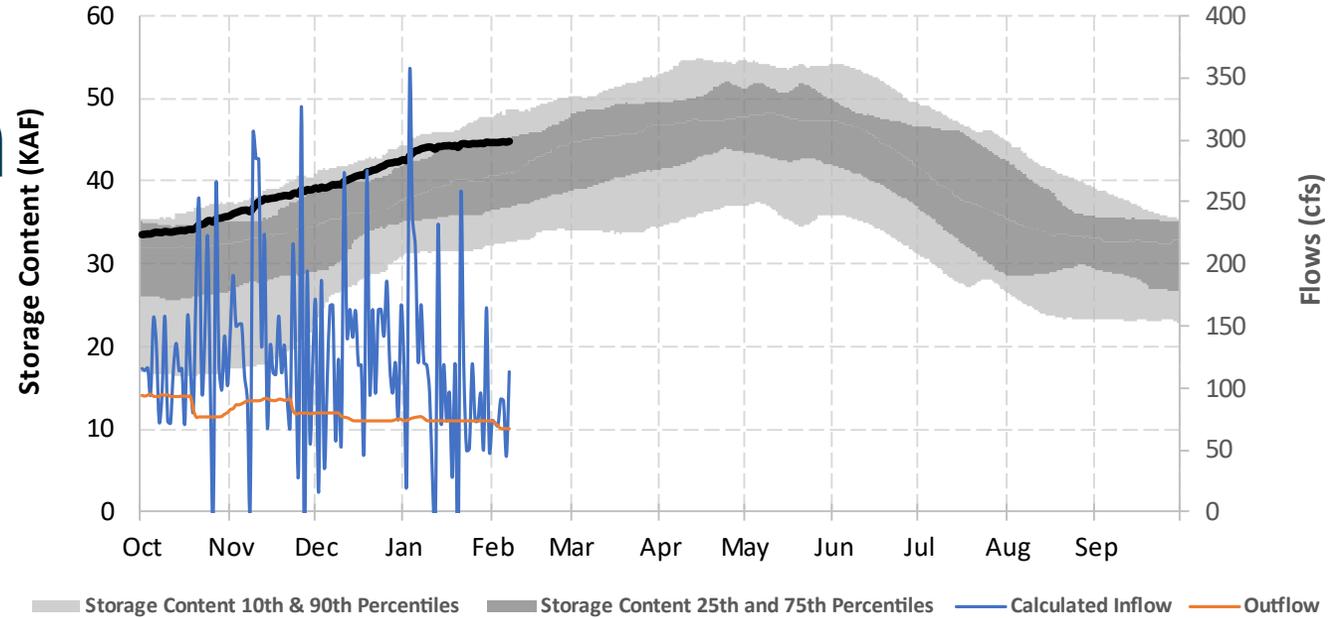
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Deschutes River Basin

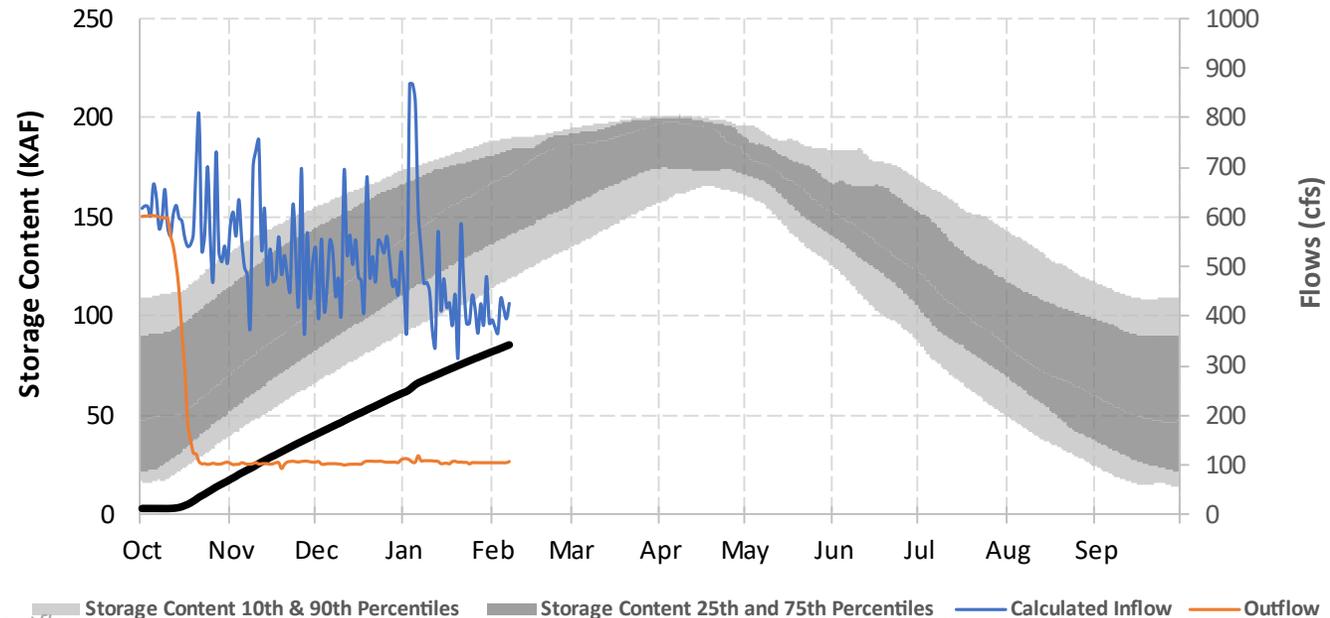
02/07/2022



Crane Prairie Dam and Reservoir



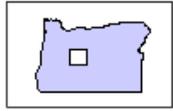
Wickiup Dam and Reservoir



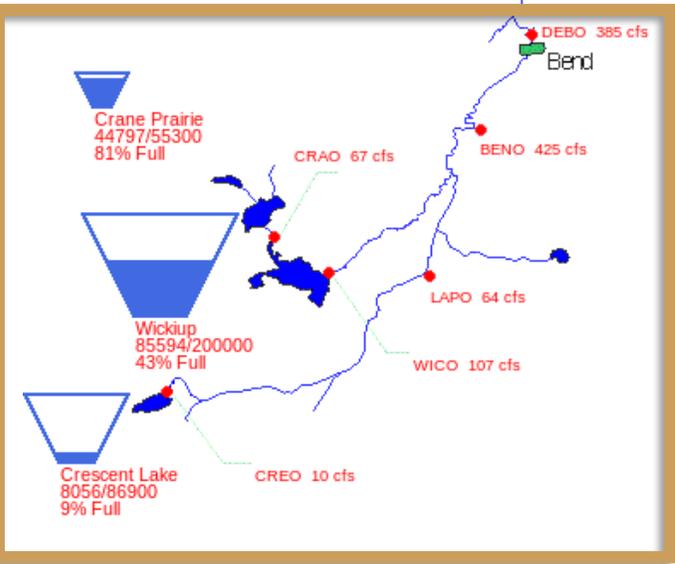
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Deschutes River Basin

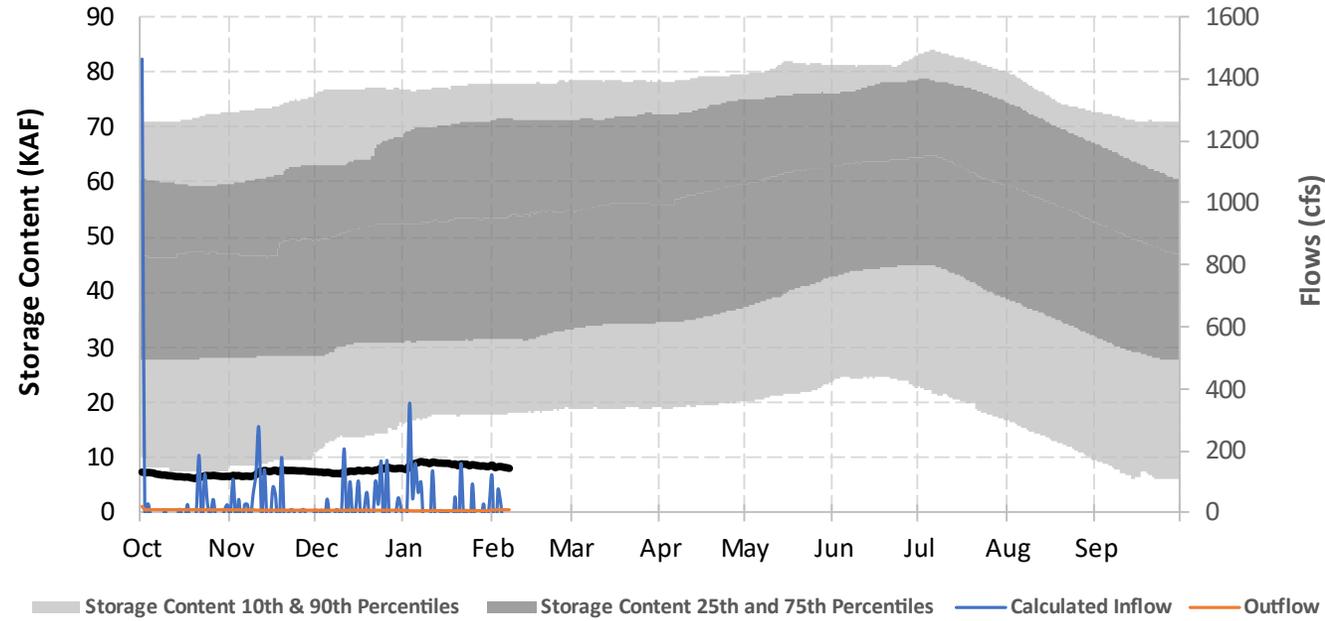
02/07/2022



Deschutes ESA



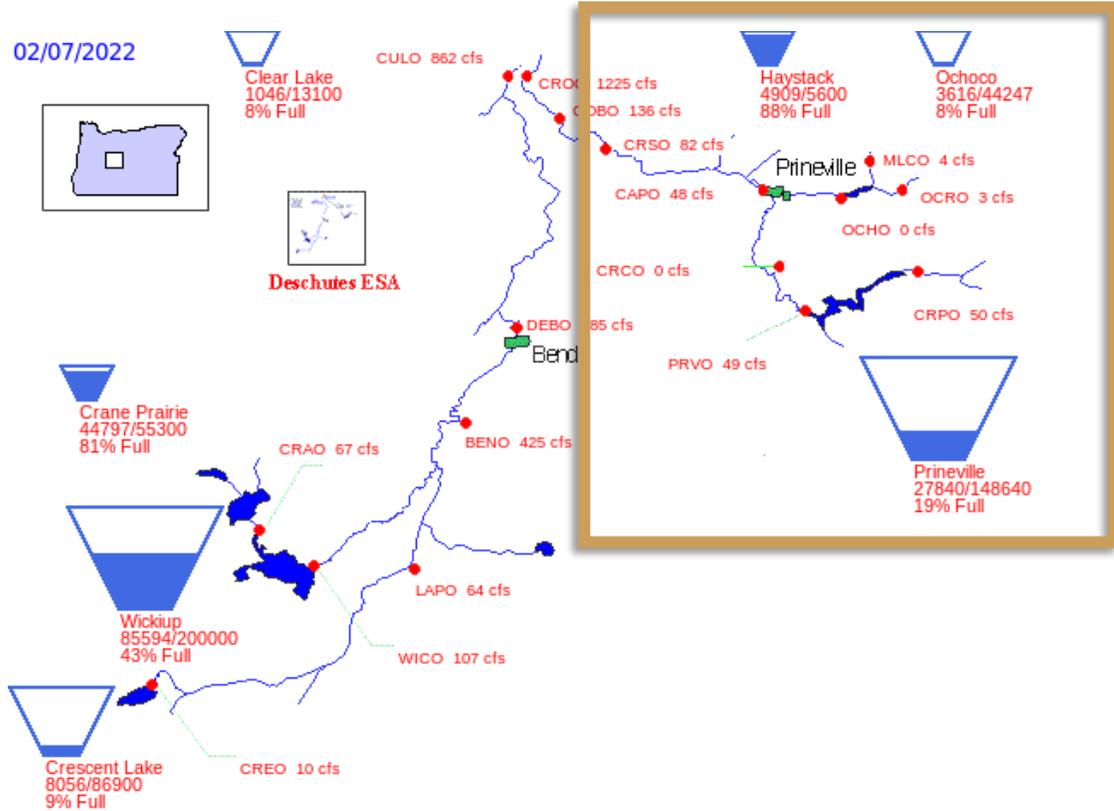
Crescent Lake Dam



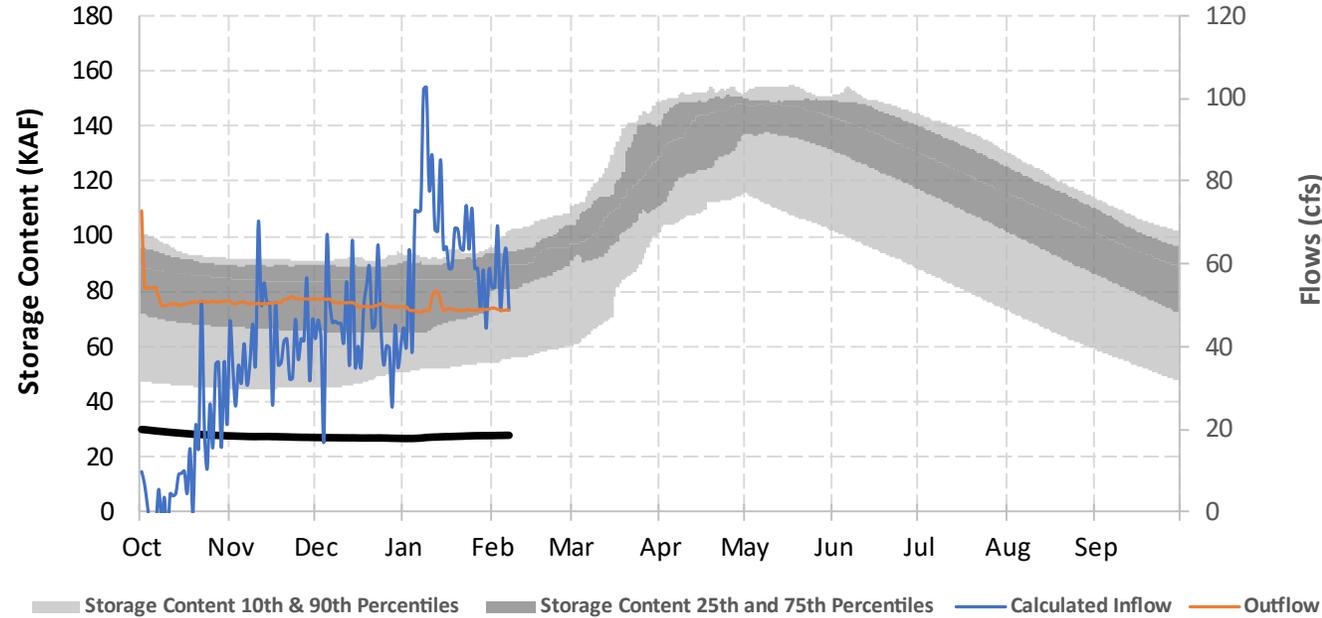
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Crooked River Basin

02/07/2022



Bowman Dam - Prineville Reservoir



Reclamation January 1 Runoff Forecast

Jan-Aug: 166 kaf (91% 91-20 Ave)

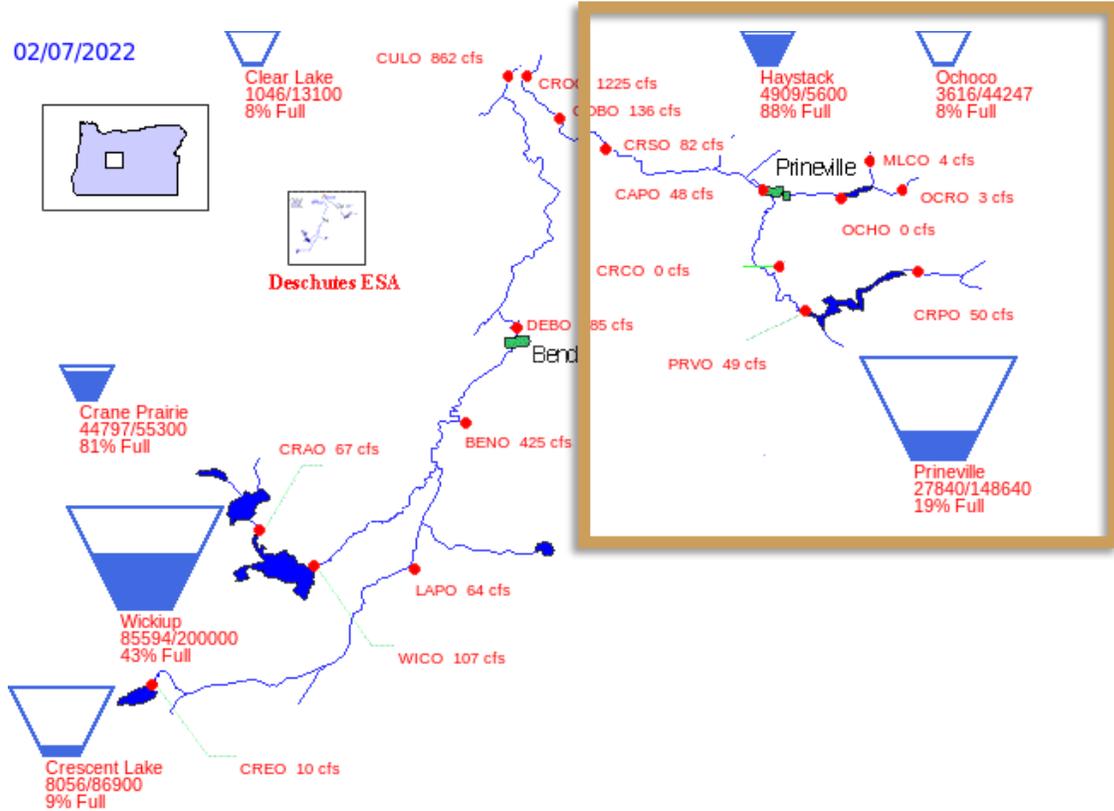
Reclamation February 1 Runoff Forecast

Feb-Aug: 99 kaf (60% 91-20 Ave)

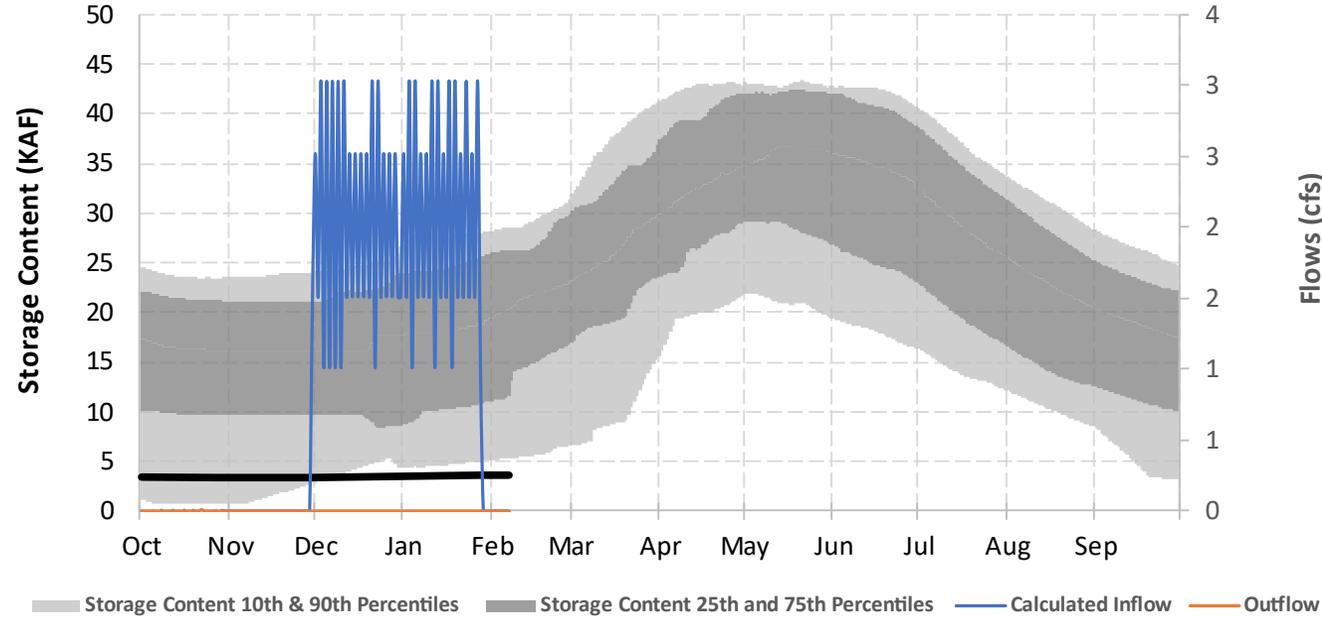
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Crooked River Basin

02/07/2022



Ochoco Dam and Reservoir



Reclamation January 1 Runoff Forecast

Jan-Jun: 35 kaf (88% 91-20 Ave)

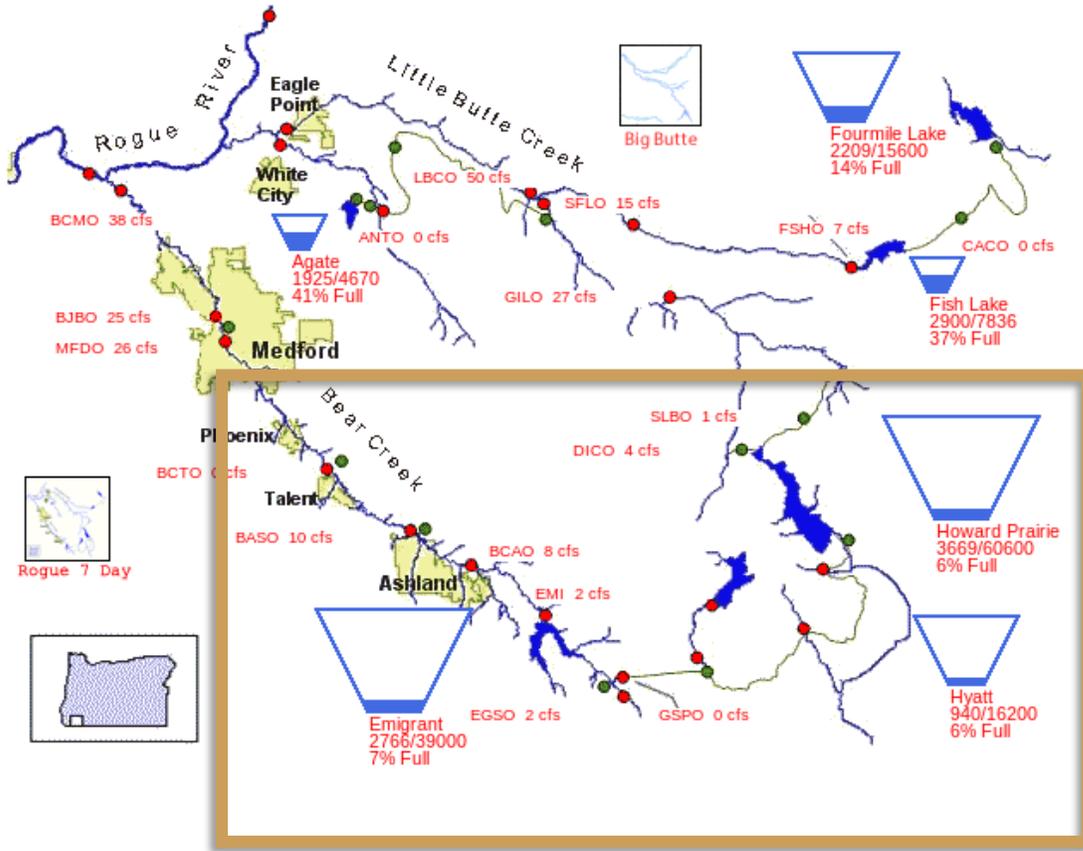
Reclamation February 1 Runoff Forecast

Feb-Jun: 20 kaf (57% 91-20 Ave)

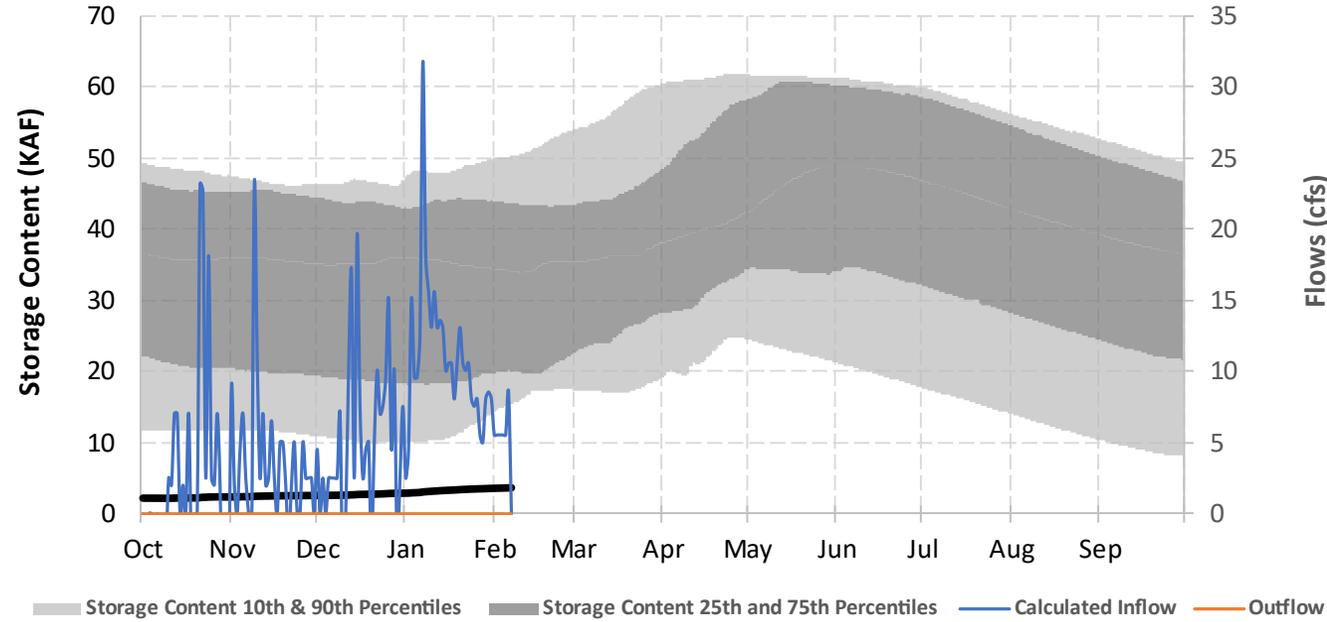
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin

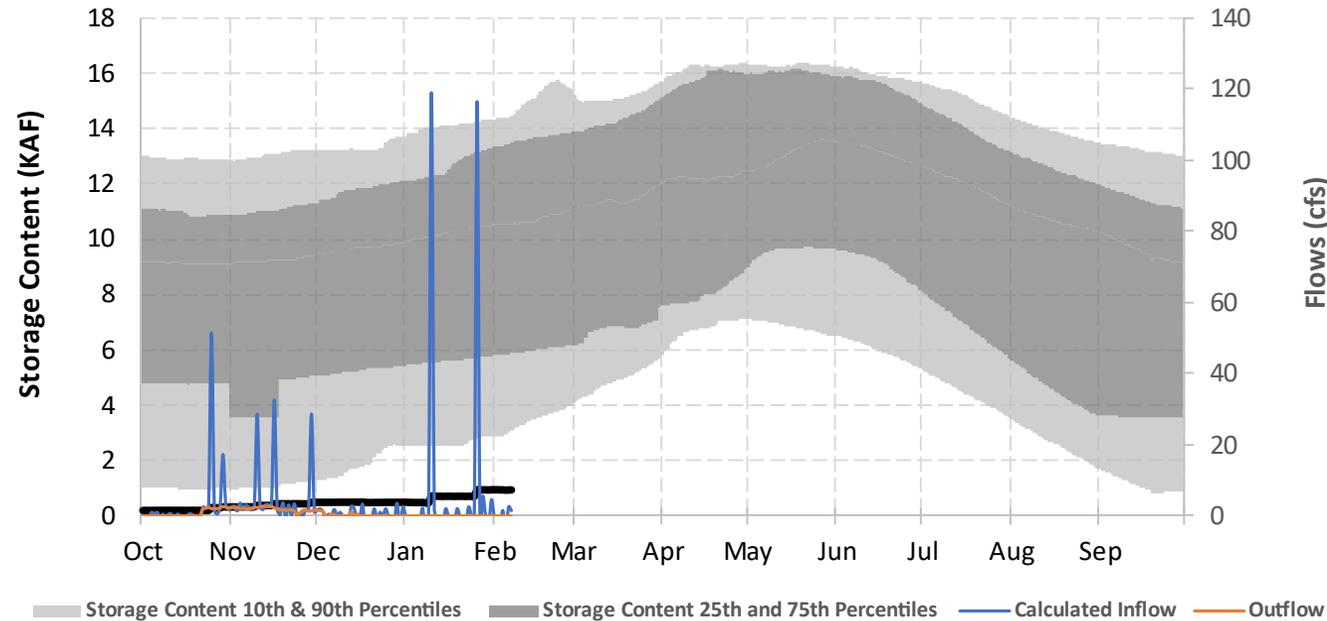
02/07/2022



Howard Prairie Dam and Lake



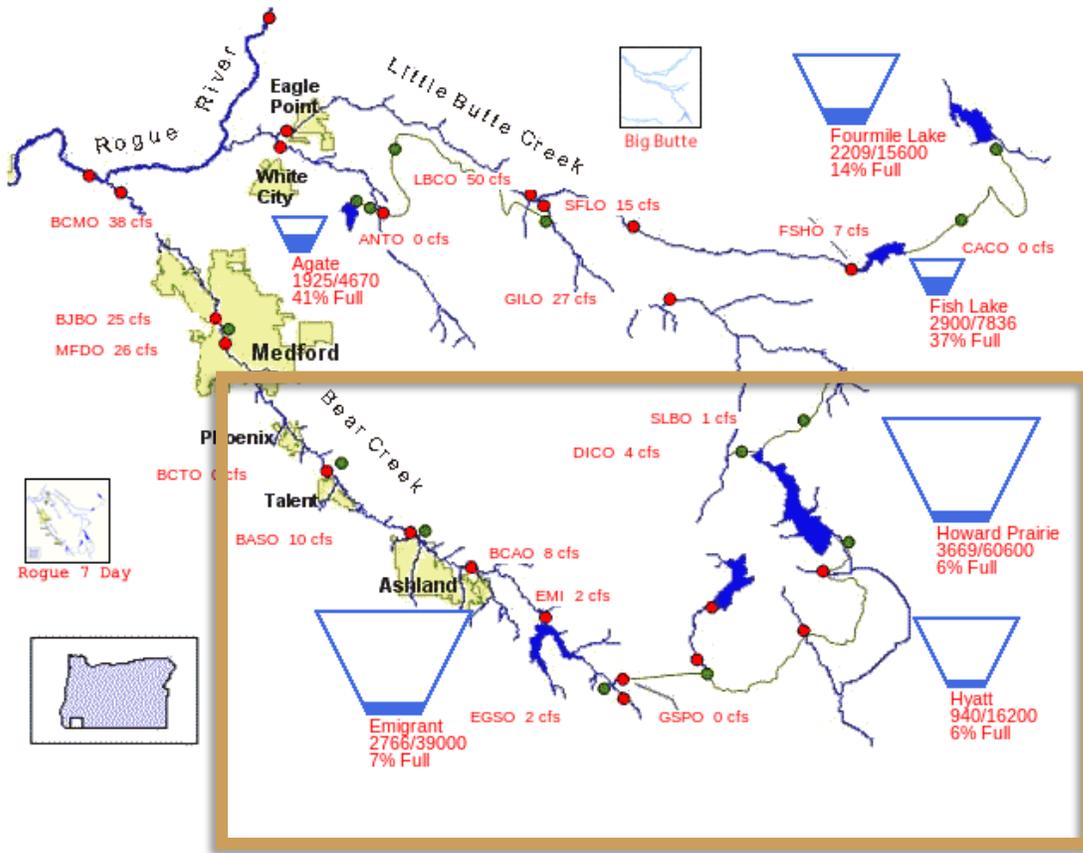
Hyatt Dam and Reservoir



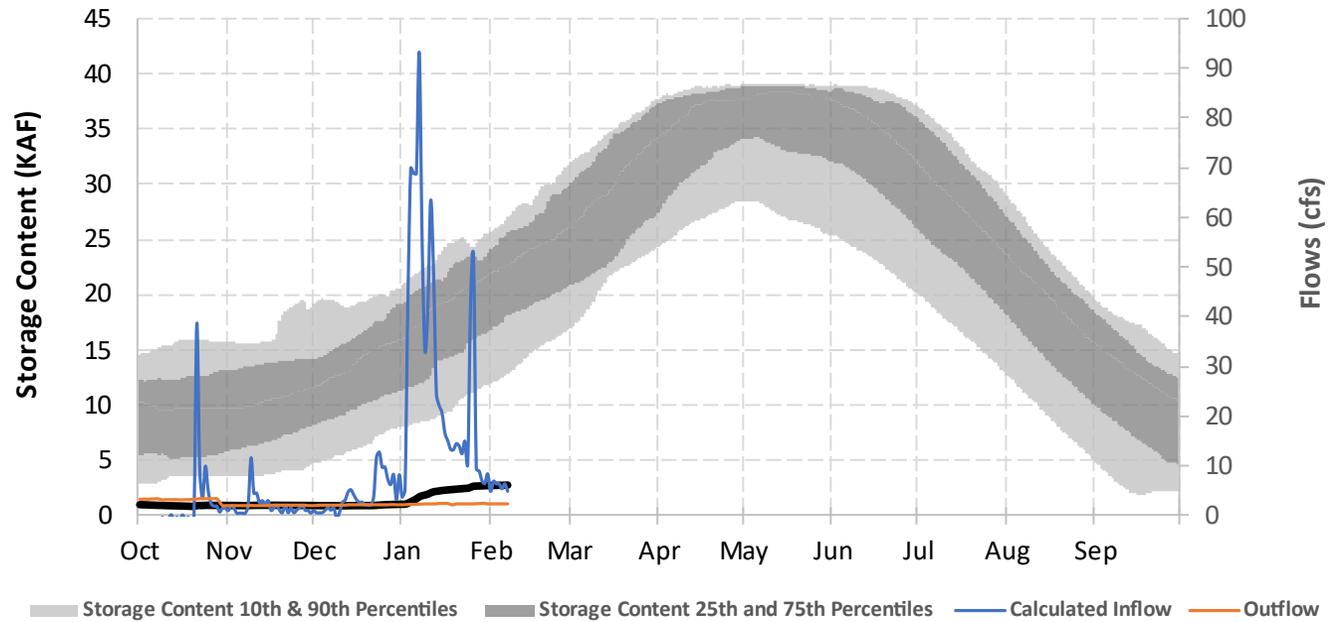
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin

02/07/2022



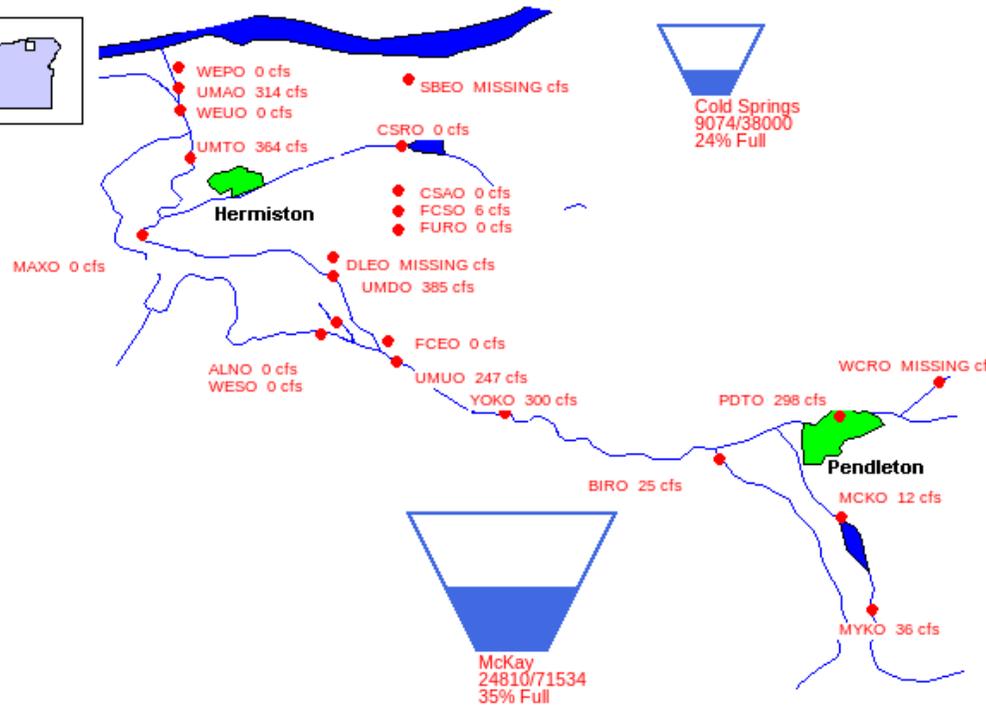
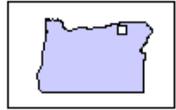
Emigrant Dam and Lake



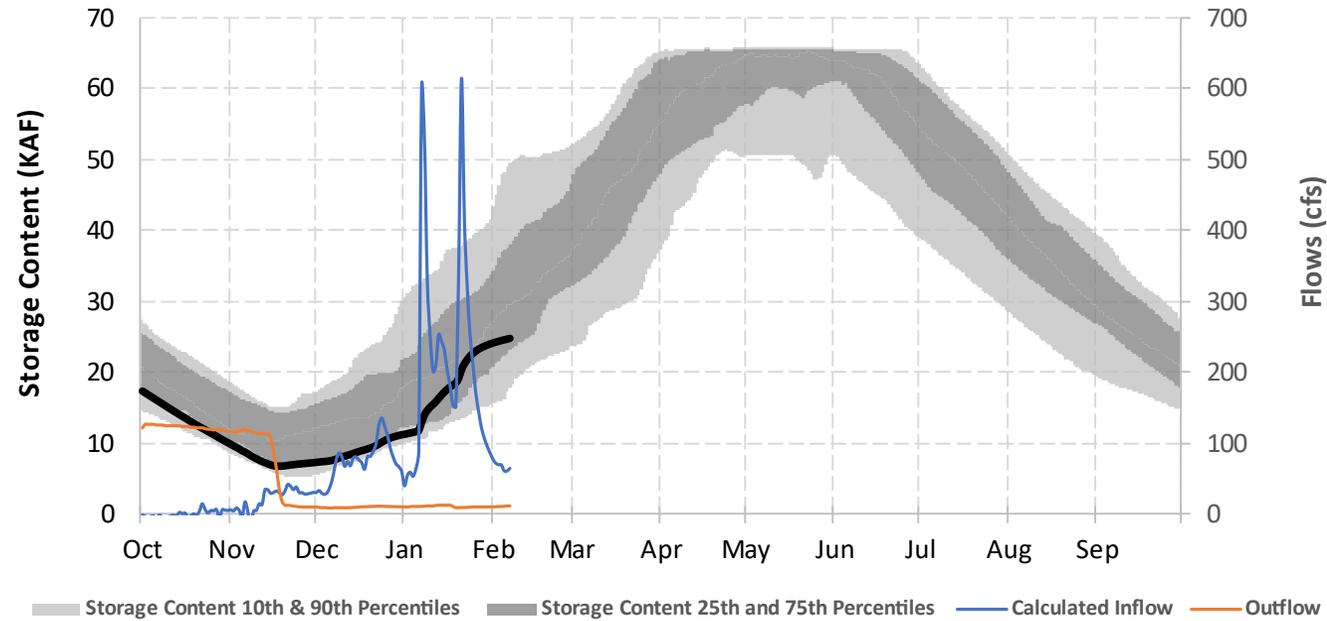
*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Umatilla River Basin

02/07/2022



McKay Dam and Reservoir



Reclamation January 1 Runoff Forecast

Jan-Jun: 75 kaf (107% 91-20 Ave)

Reclamation February 1 Runoff Forecast

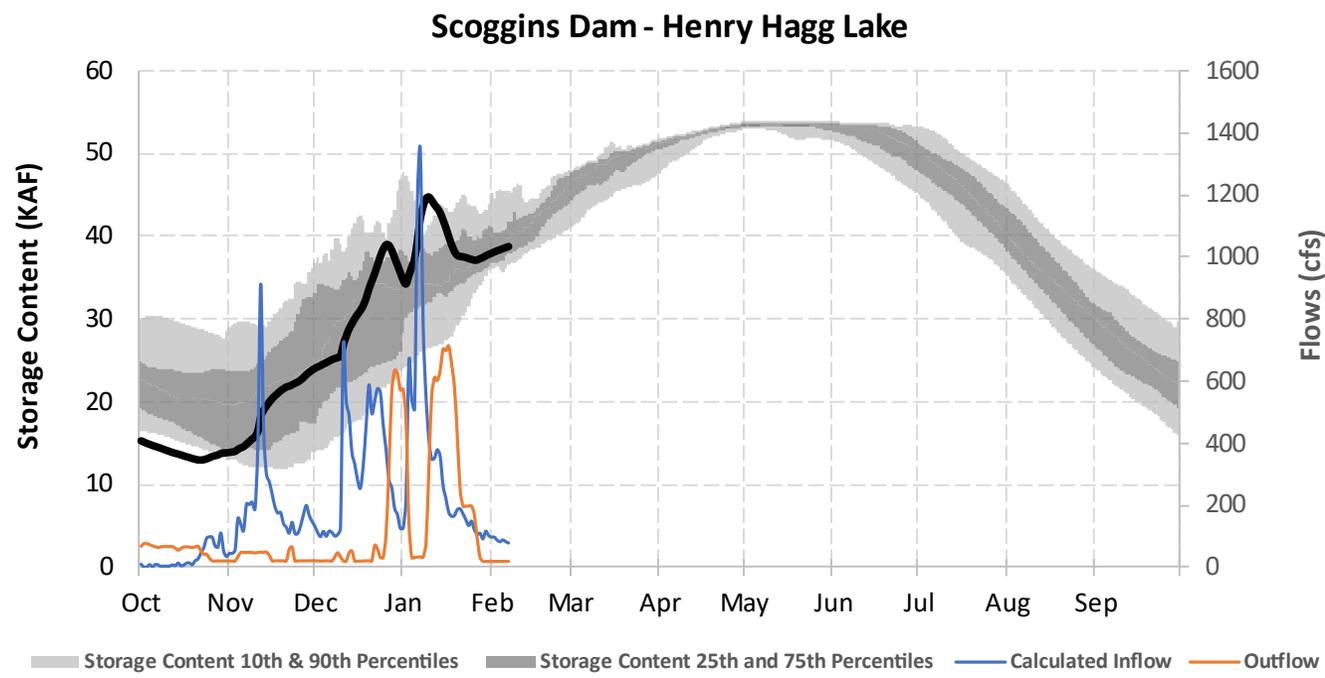
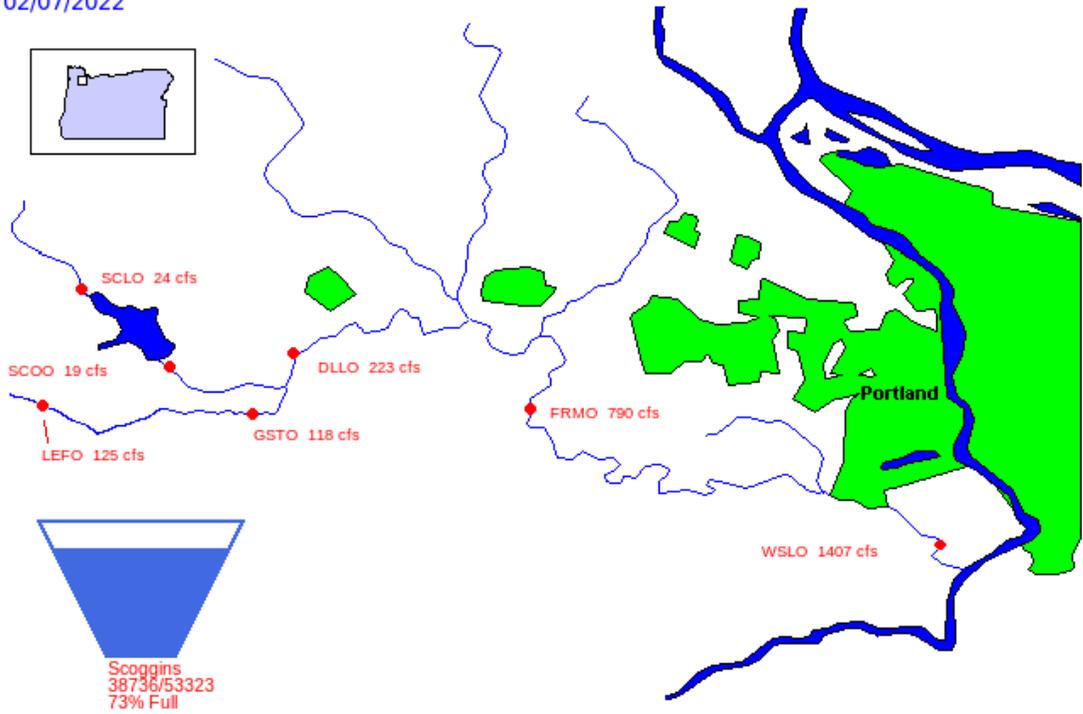
Feb-Jun: 61 kaf (103% 91-20 Ave)



*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Tualatin River Basin

02/07/2022



*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

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— BUREAU OF —
RECLAMATION