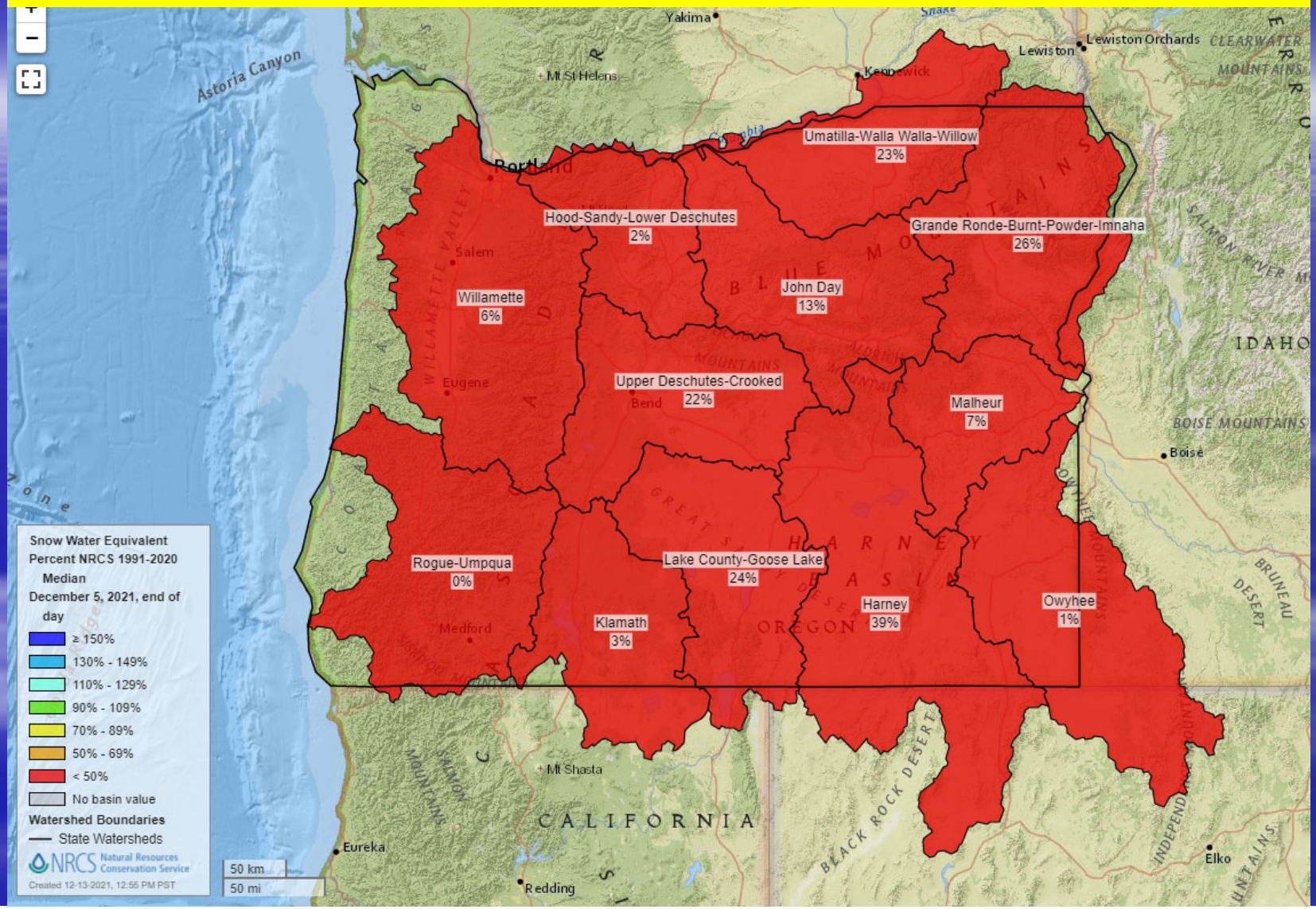
Oregon Water Supply Availability Committee
January 12, 2022

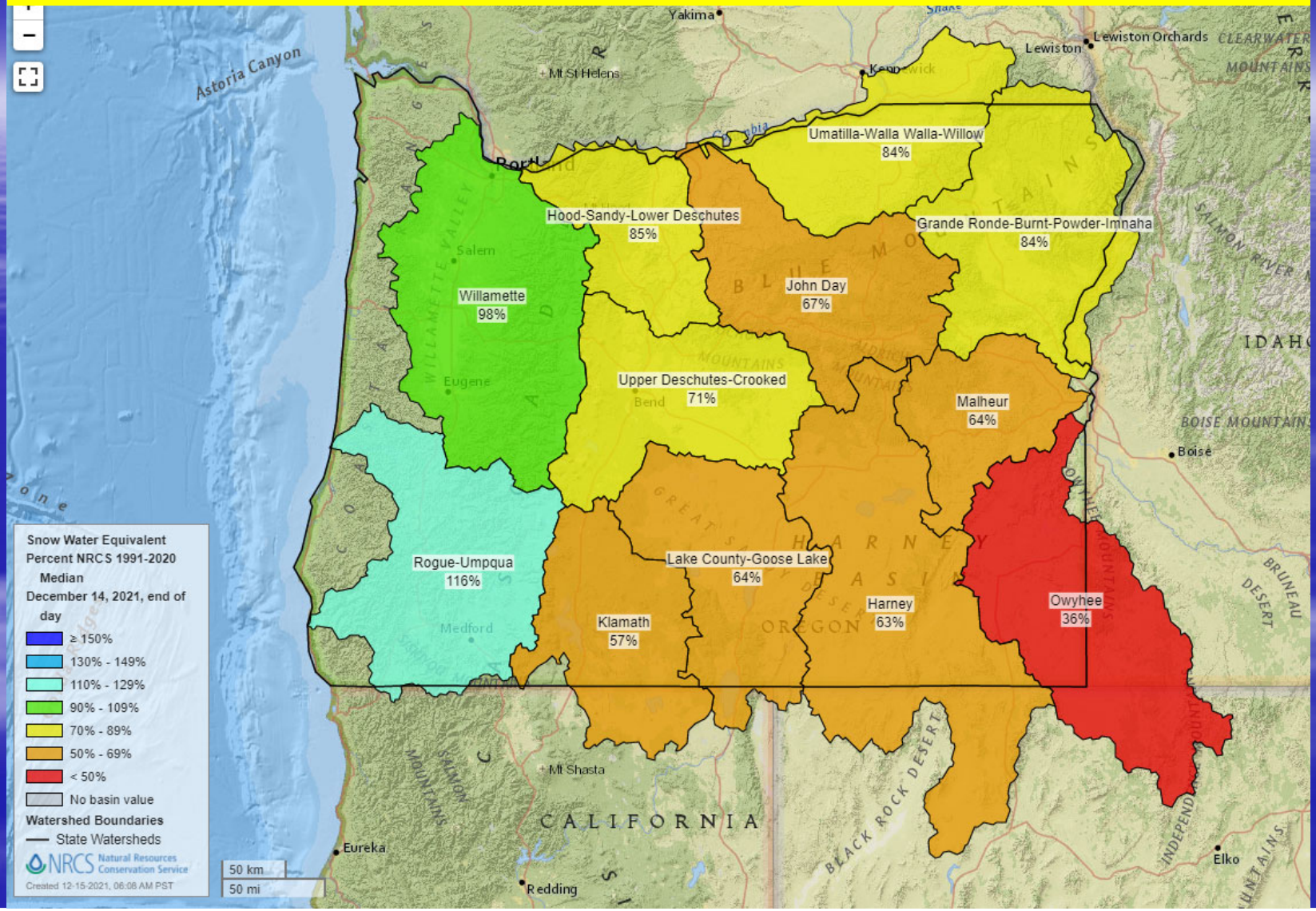
Mt. Hood Test Site SNOTEL
December 15, 2020

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

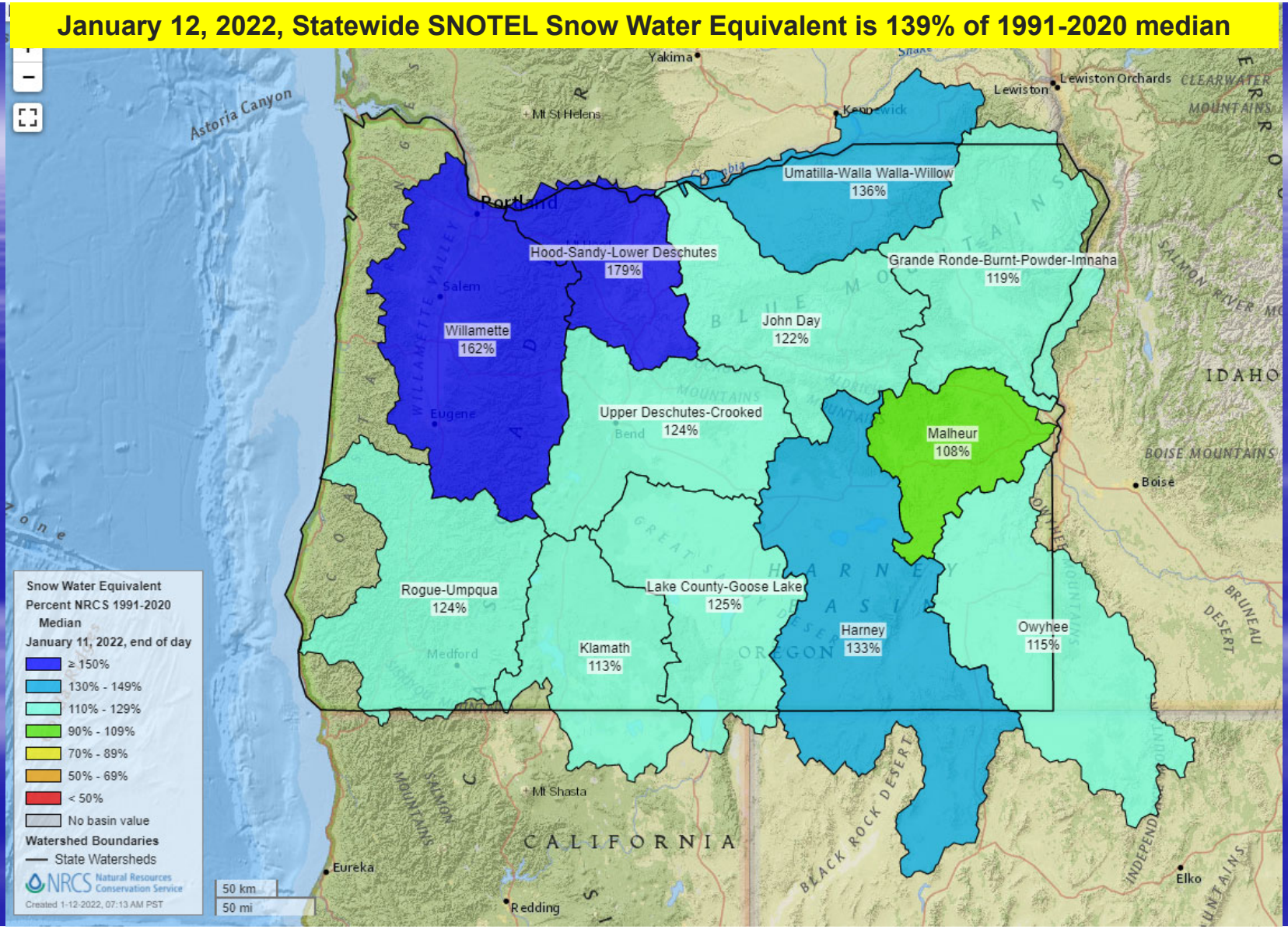
December 5, 2021, Statewide SNOTEL Snow Water Equivalent was 13% of 1991-2020 median



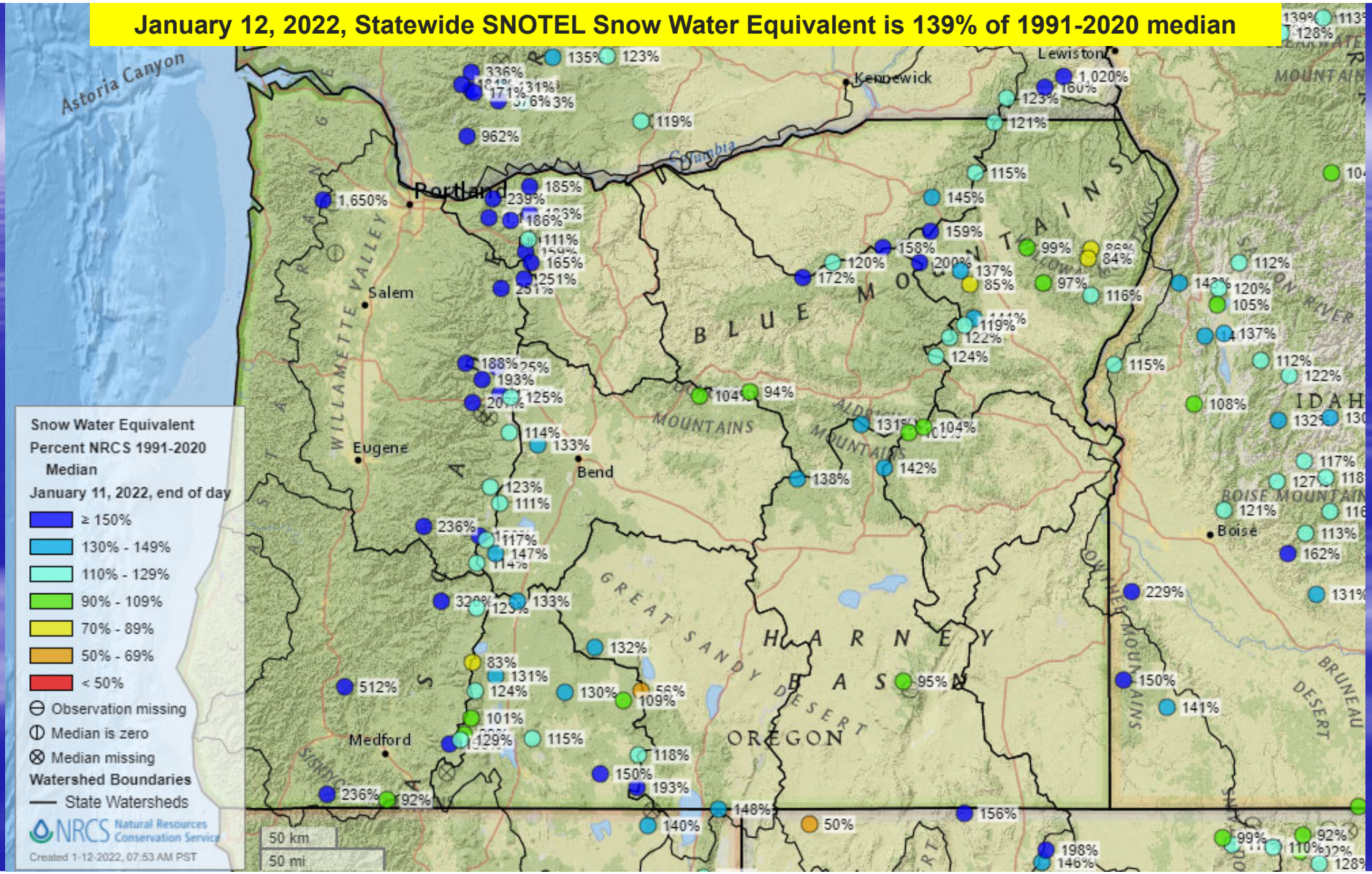
December 14, 2021, Statewide SNOTEL Snow Water Equivalent was 80% of 1991-2020 median



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

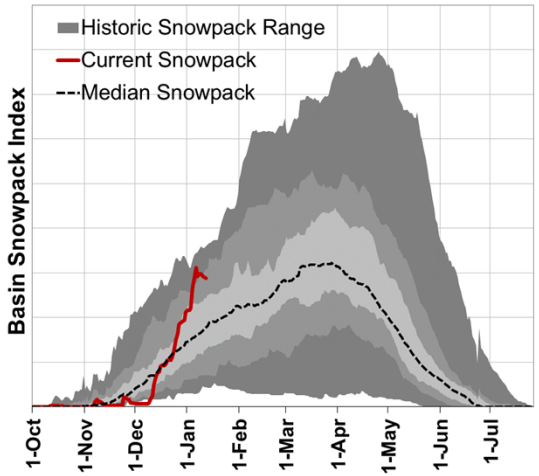


January 12, 2022, Statewide SNOTEL Snow Water Equivalent is 139% of 1991-2020 median

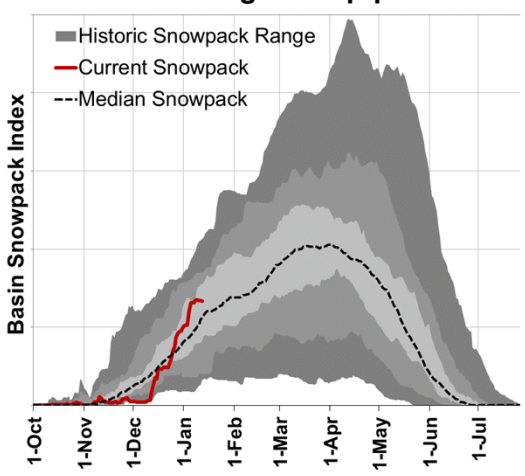


OREGON SNOWPACK GRAPHS – January 12, 2022

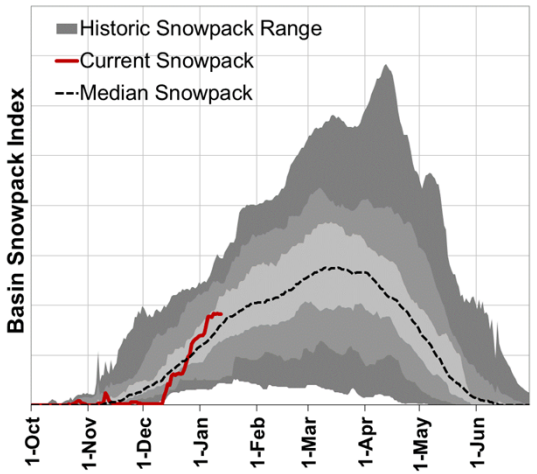
Willamette



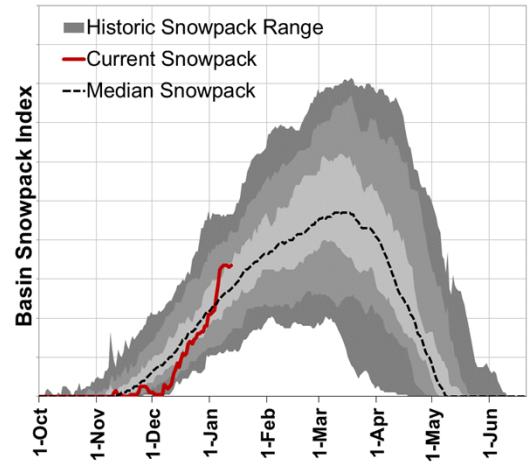
Rogue-Umpqua



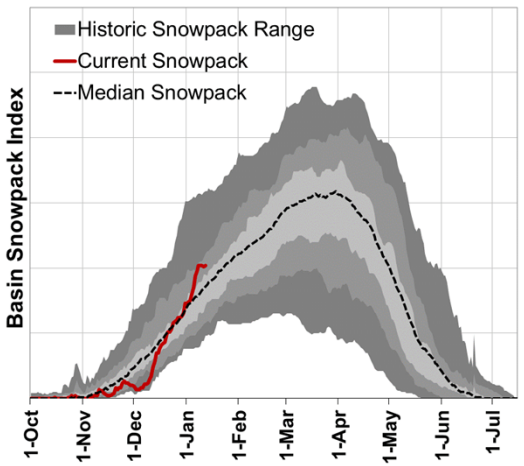
Klamath



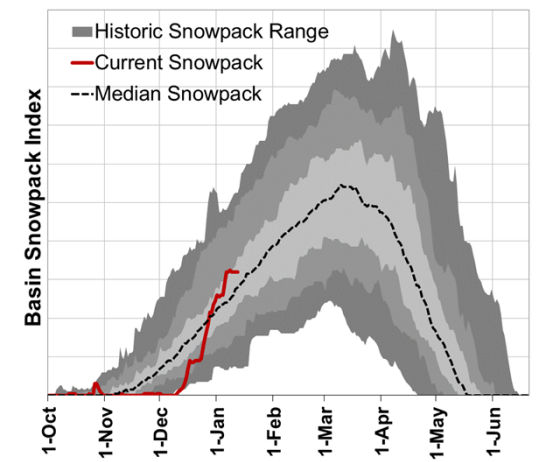
John Day



Grande Ronde-Burnt-Powder-Imnaha

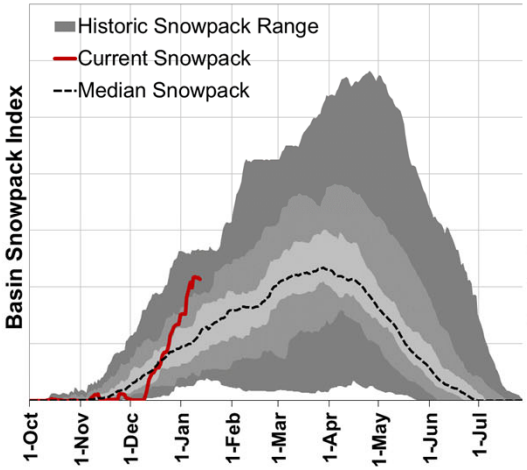


Owyhee-Malheur

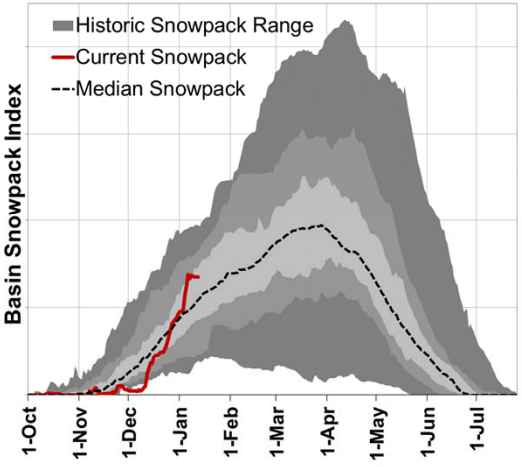


OREGON SNOWPACK GRAPHS – January 12, 2022

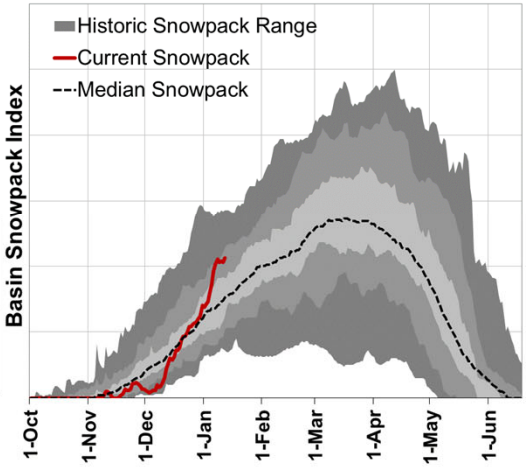
Hood-Sandy-Lower Deschutes



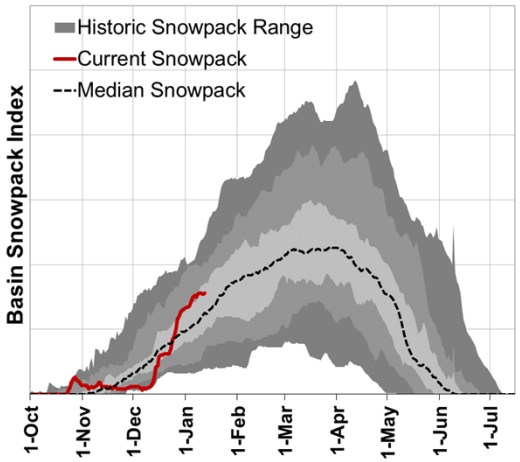
Upper Deschutes-Crooked



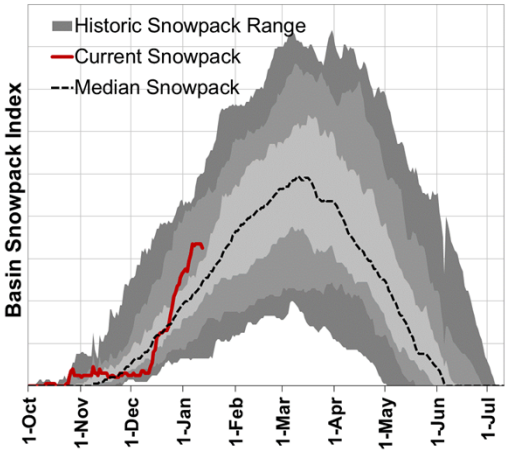
Umatilla-Walla Walla-Willow



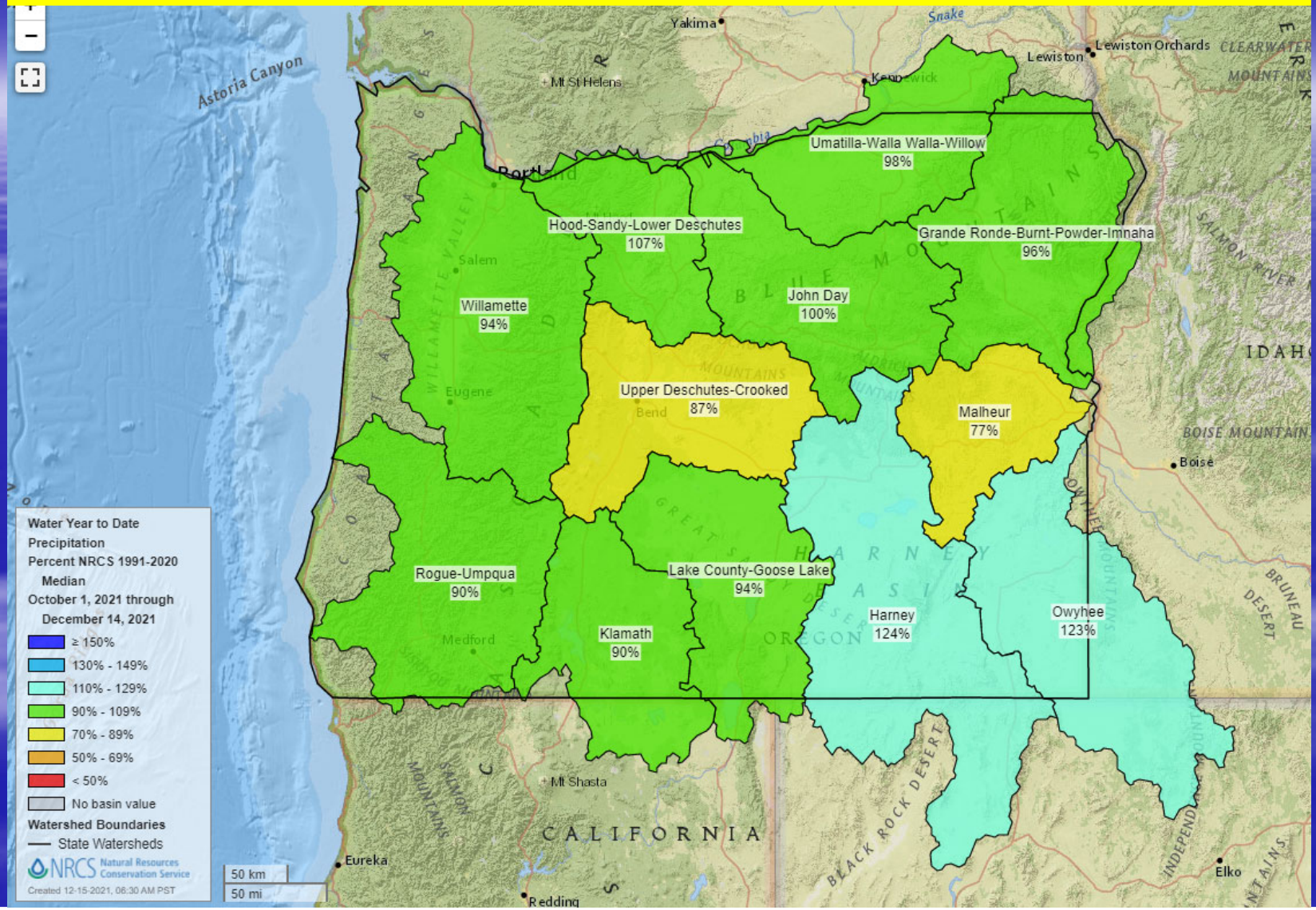
Lake County-Goose Lake



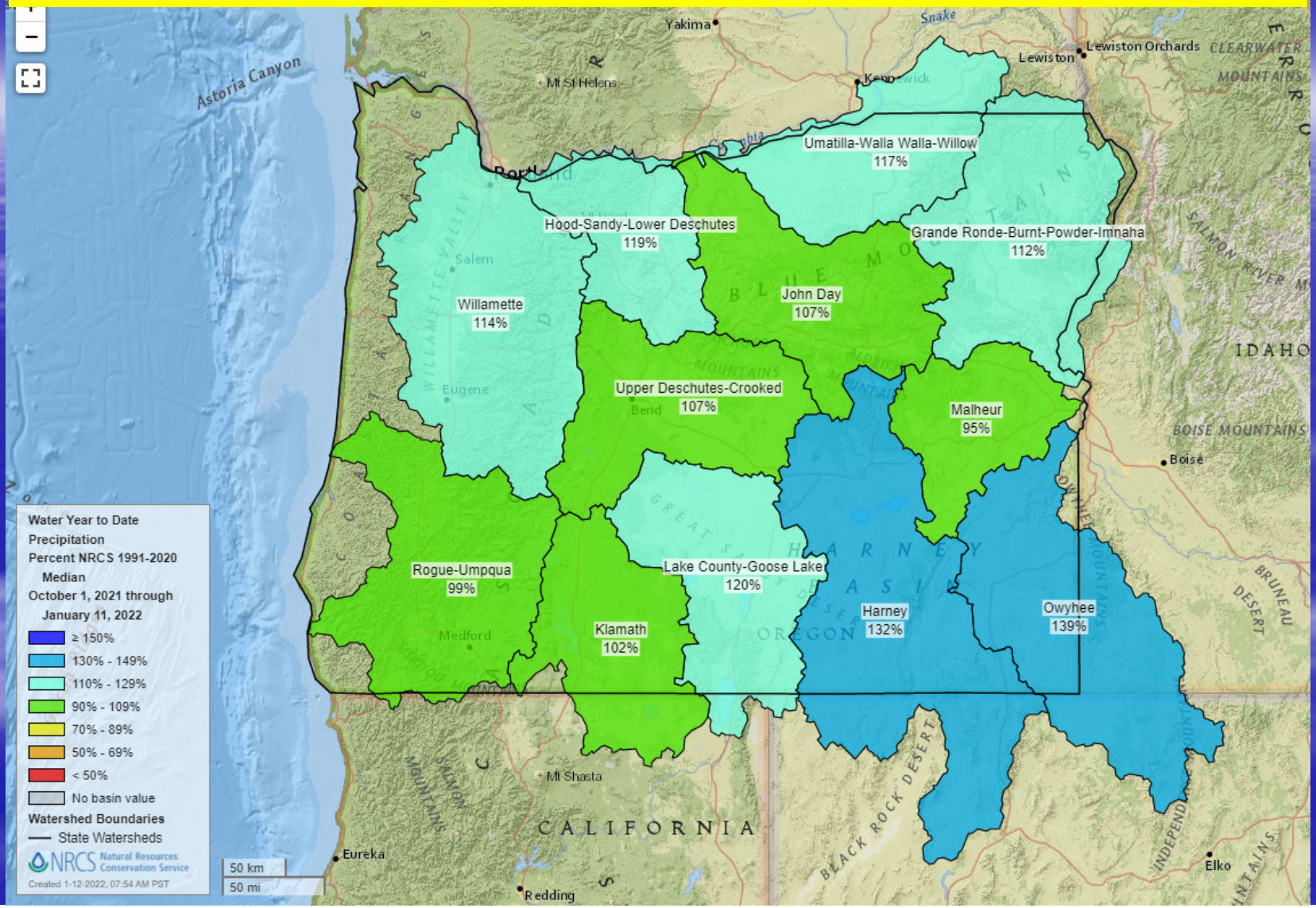
Harney



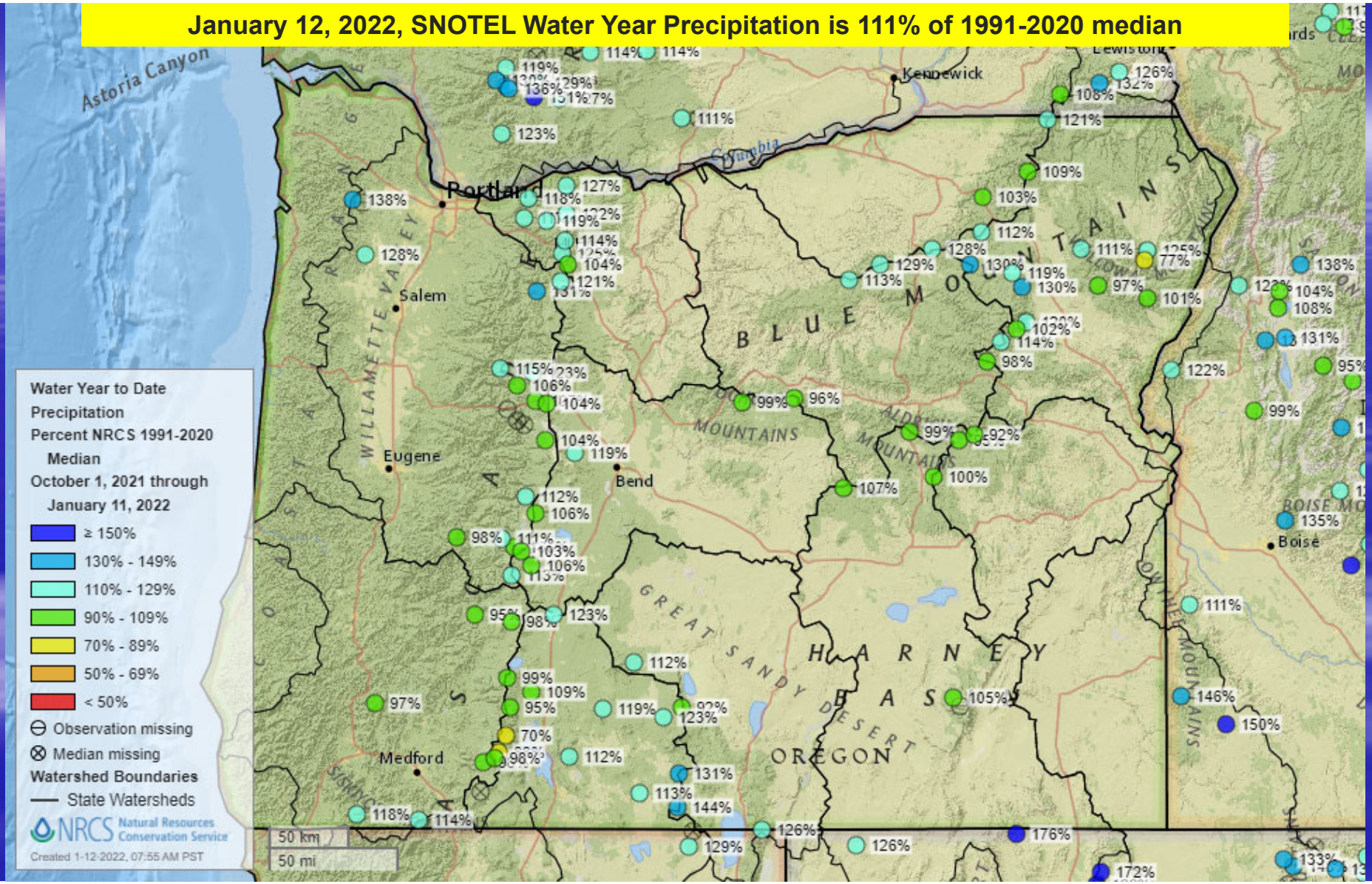
December 14, 2021, SNOTEL Water Year Precipitation was 96% of 1991-2020 median



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



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

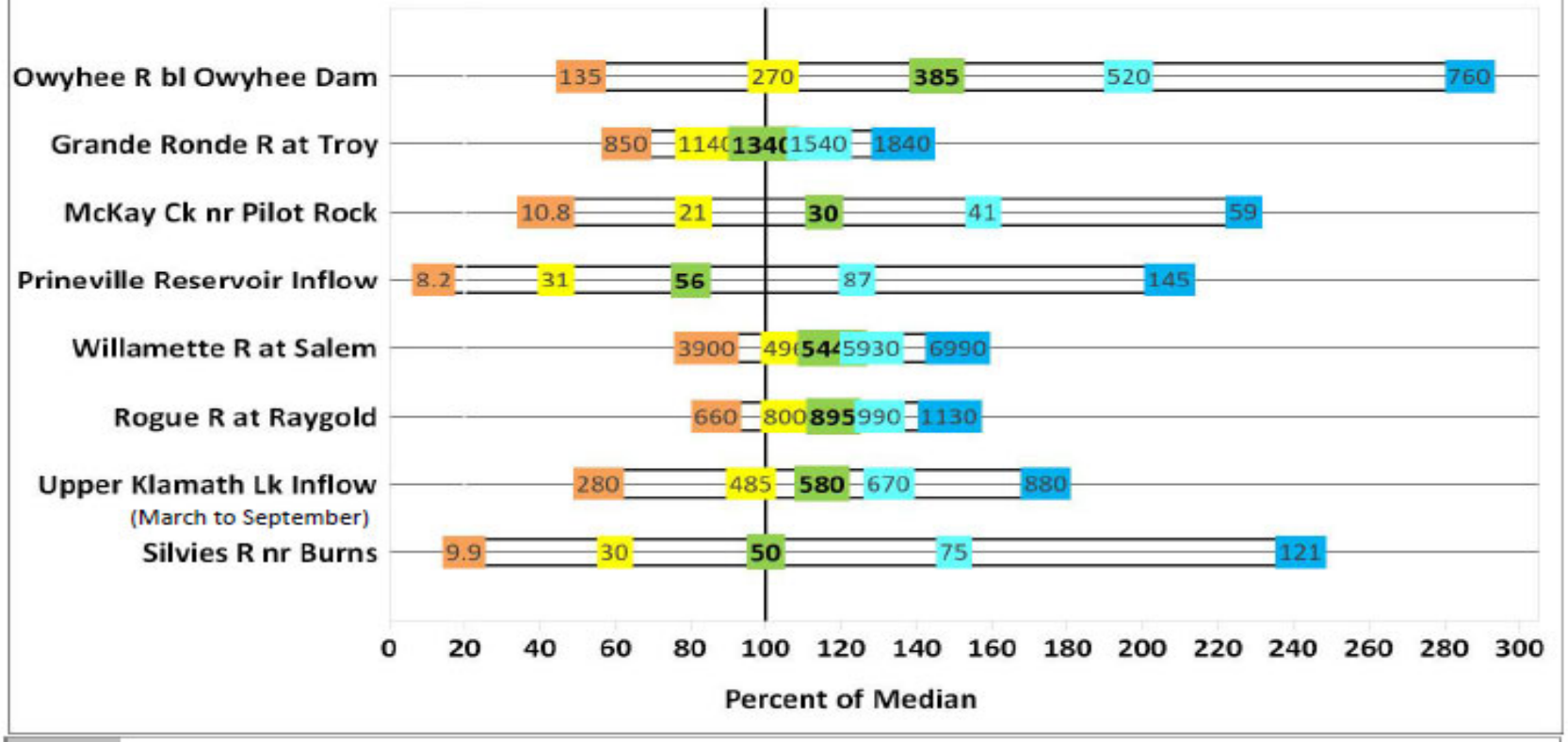


January 2022

Summary of Streamflow Forecasts across Oregon

April through September Forecast Volumes at a Selection of Streamflow Points

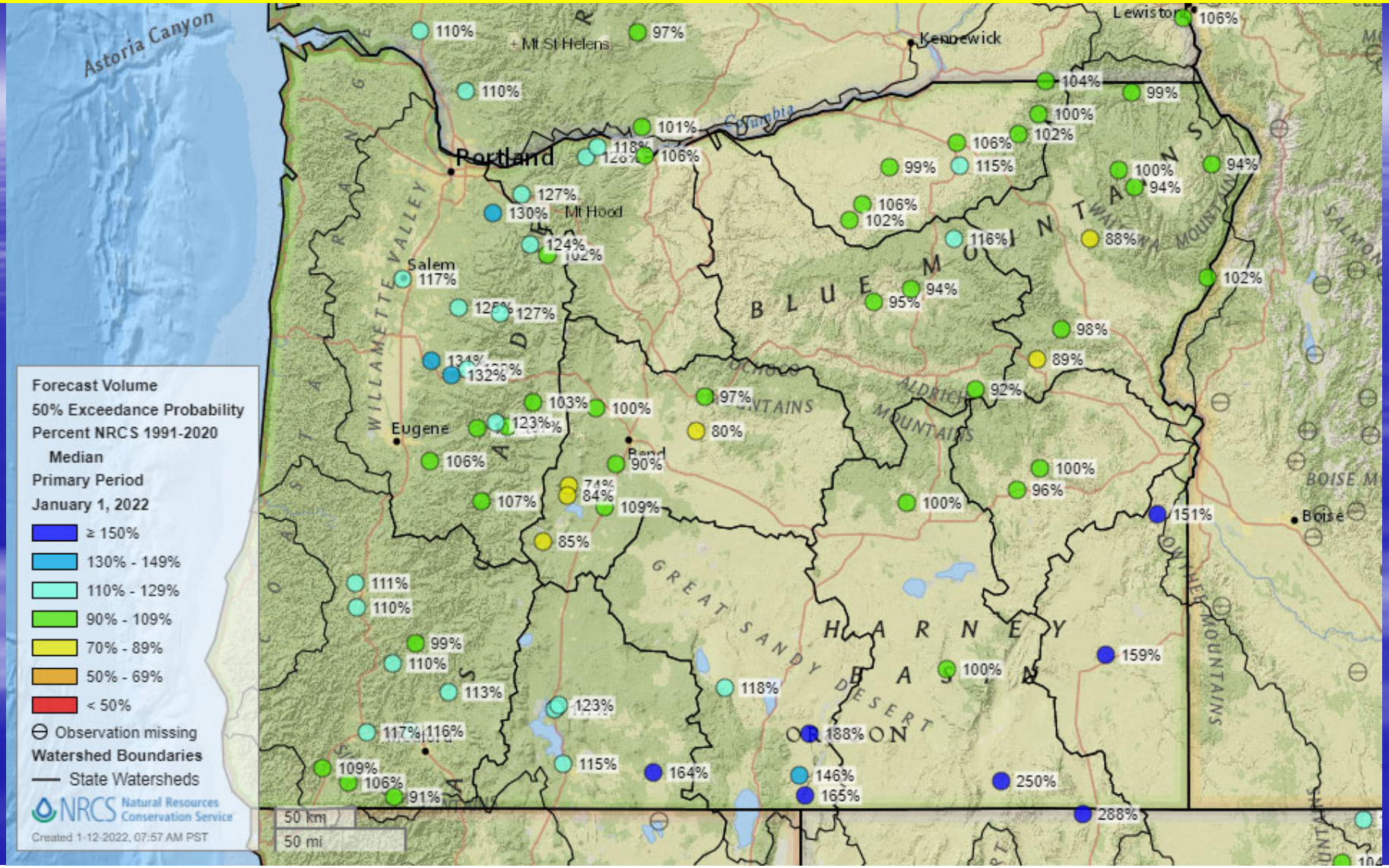
(Volumes listed in KAF)



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

90% Exceedance Forecast (KAF)	70% Exceedance Forecast (KAF)	50% Exceedance Forecast (KAF)	30% Exceedance Forecast (KAF)	10% Exceedance Forecast (KAF)
There is a 90% chance that flows will exceed this volume.	There is a 70% chance that flows will exceed this volume.	There is a 50% chance that flows will exceed this volume.	There is a 30% chance that flows will exceed this volume.	There is a 10% chance that flows will exceed this volume.

January 1, 2022, Streamflow Volume Forecast 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, audiotape, 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.

Oregon Water Supply Availability Committee
January 12, 2022

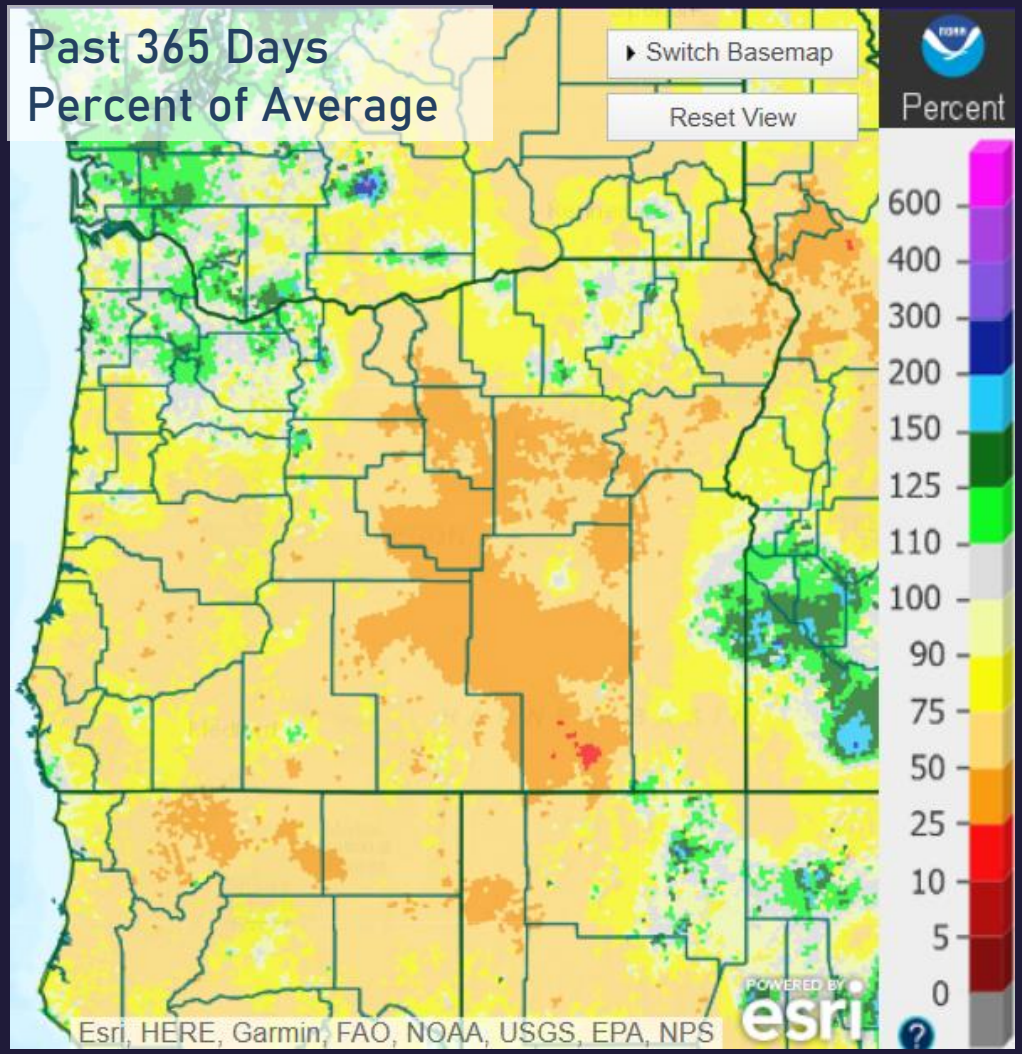
Mt. Hood Test Site SNOTEL
December 15, 2020

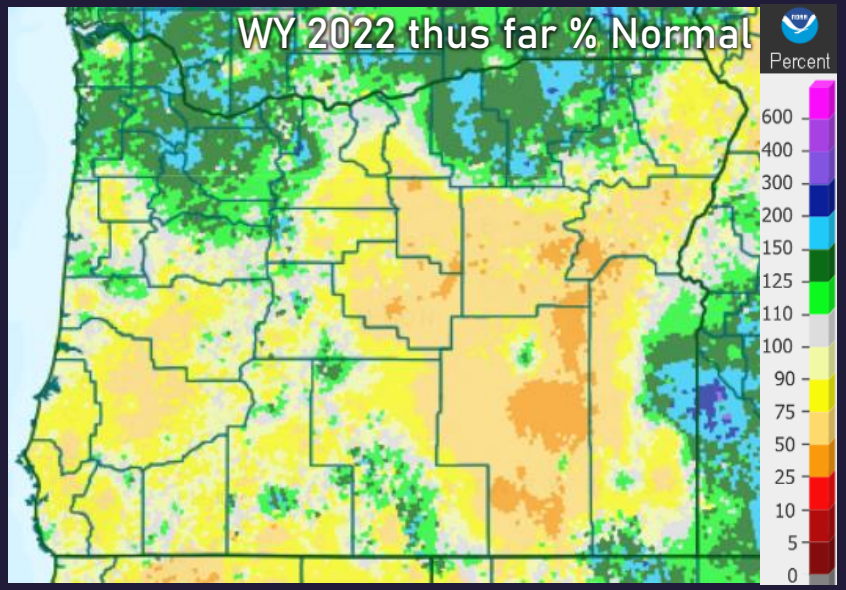
H. Scott Oviatt
USDA – Natural Resources Conservation Service
scott.oviatt@usda.gov
541-429-2359

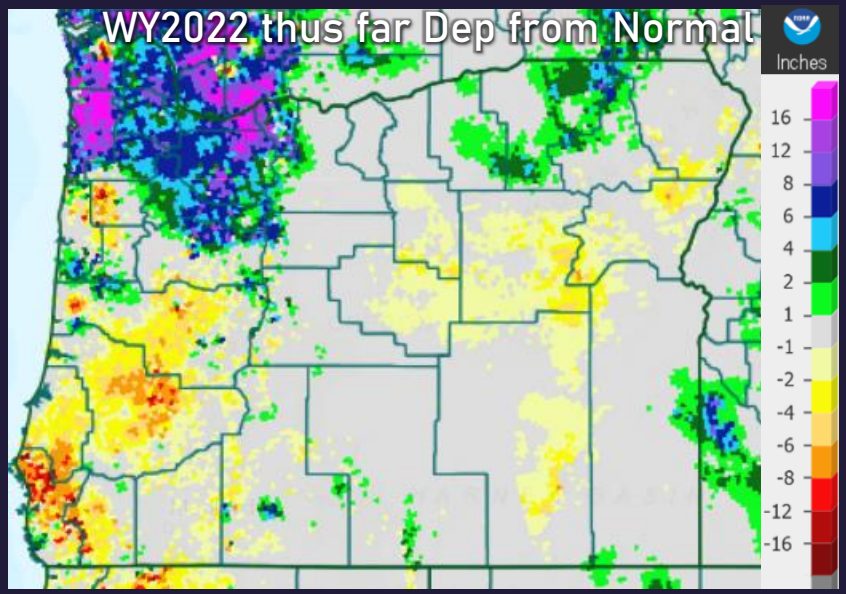
January 2022 Update for Precipitation, Temperatures, and Hydrological Conditions

Andy Bryant
Service Hydrologist
NOAA/NWS Portland
Weather Forecast Office

Precipitation





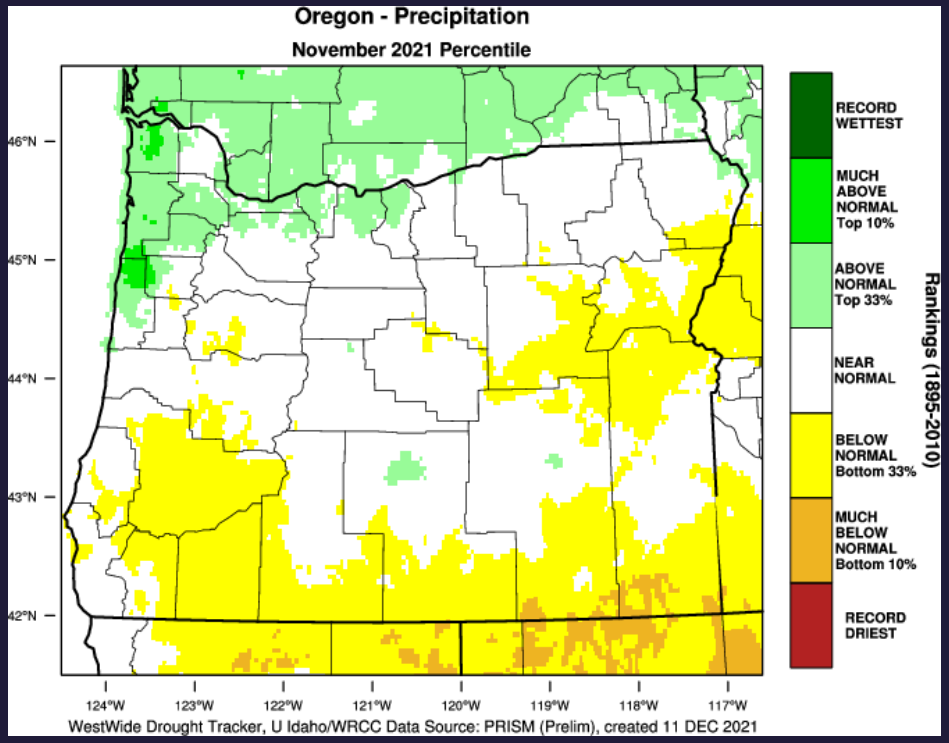


Precipitation Data as of Jan 11, 2022

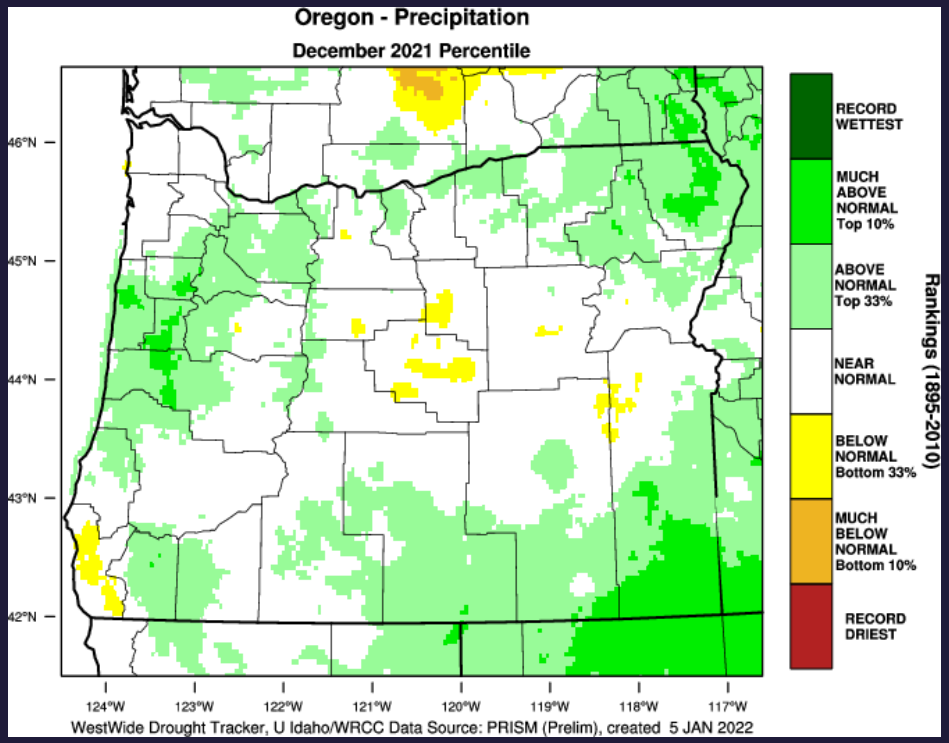
water.weather.gov/precip/index.php

Precipitation – Percentile / Ranking

November



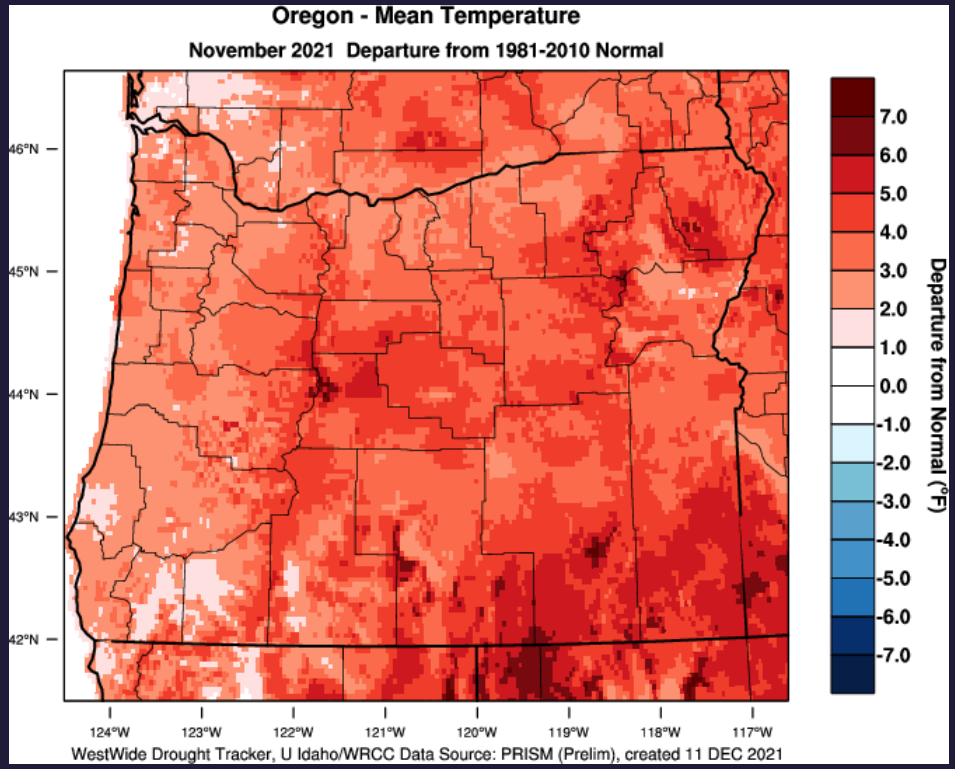
December



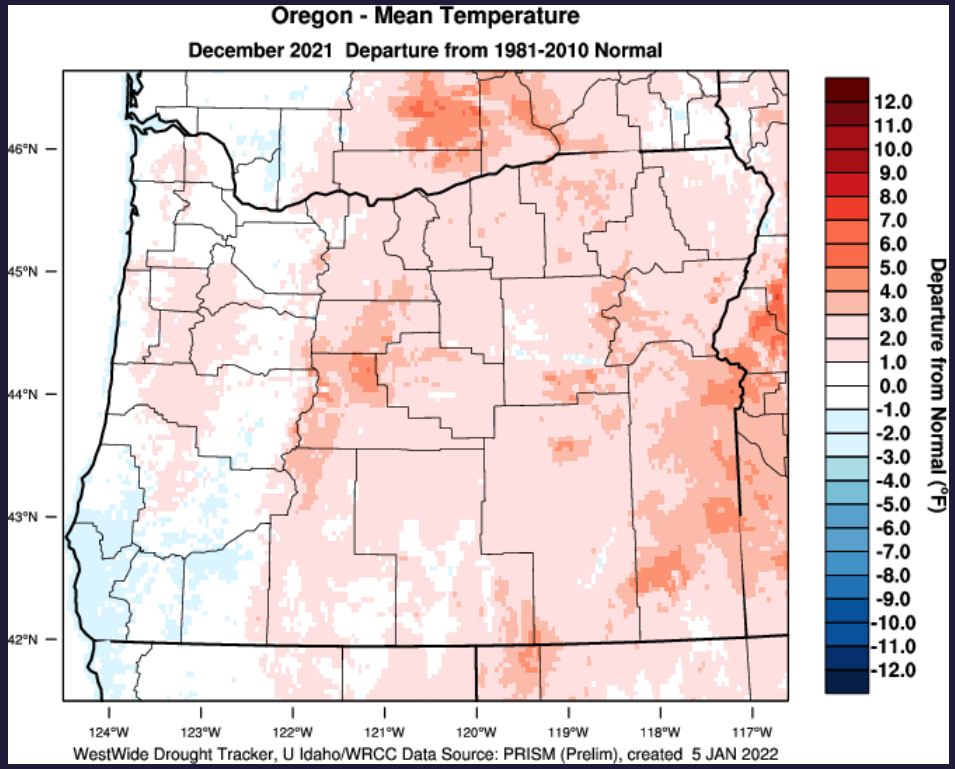
https://wrcc.dri.edu/wwdt/index.php?region=pnw

Recent Temperatures

November

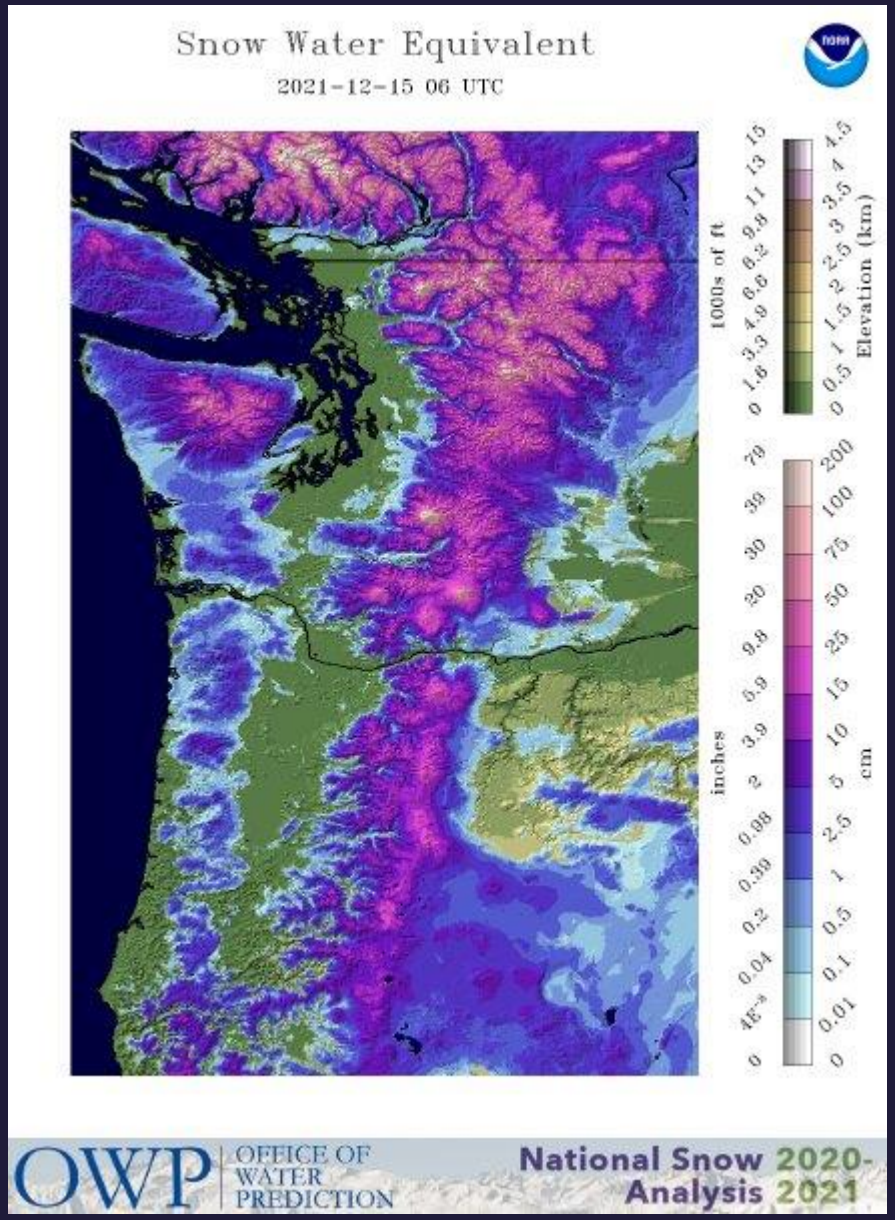


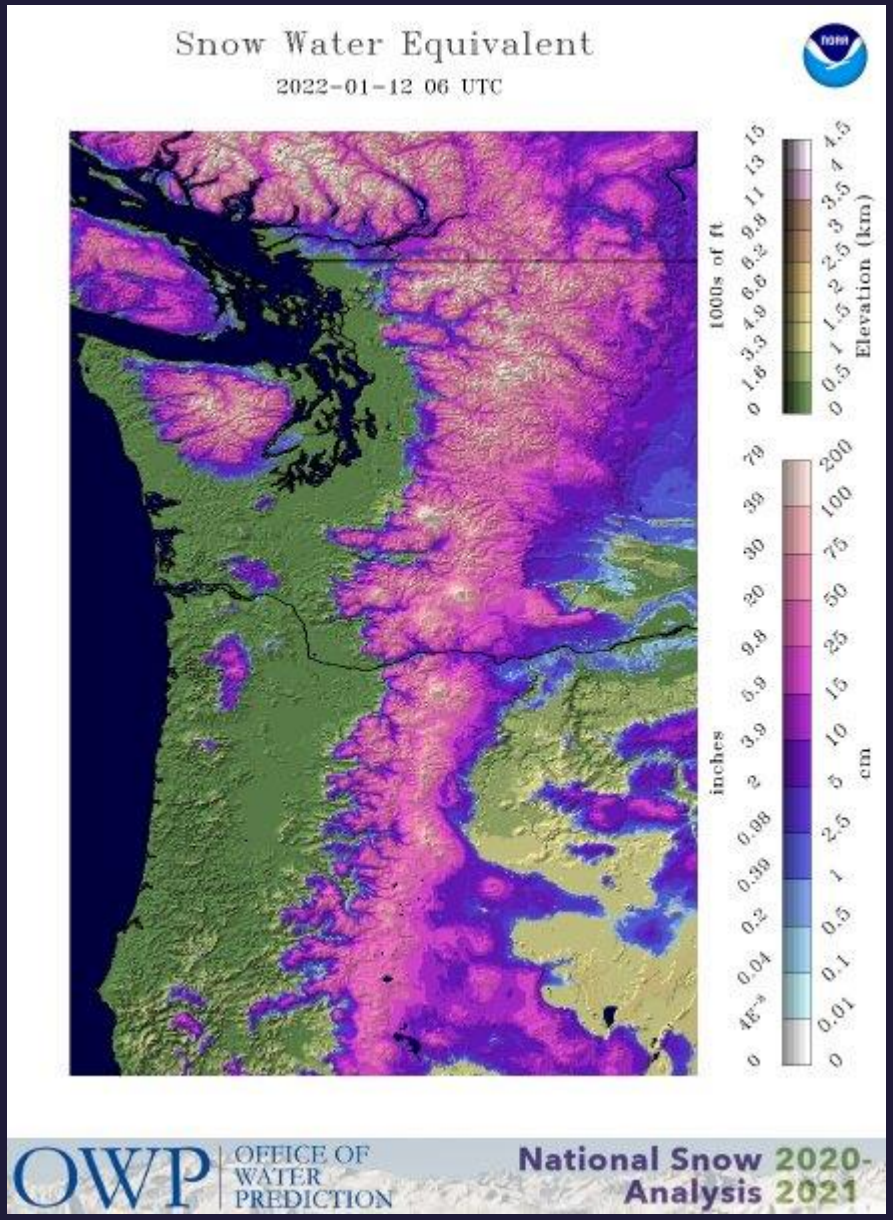
December



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

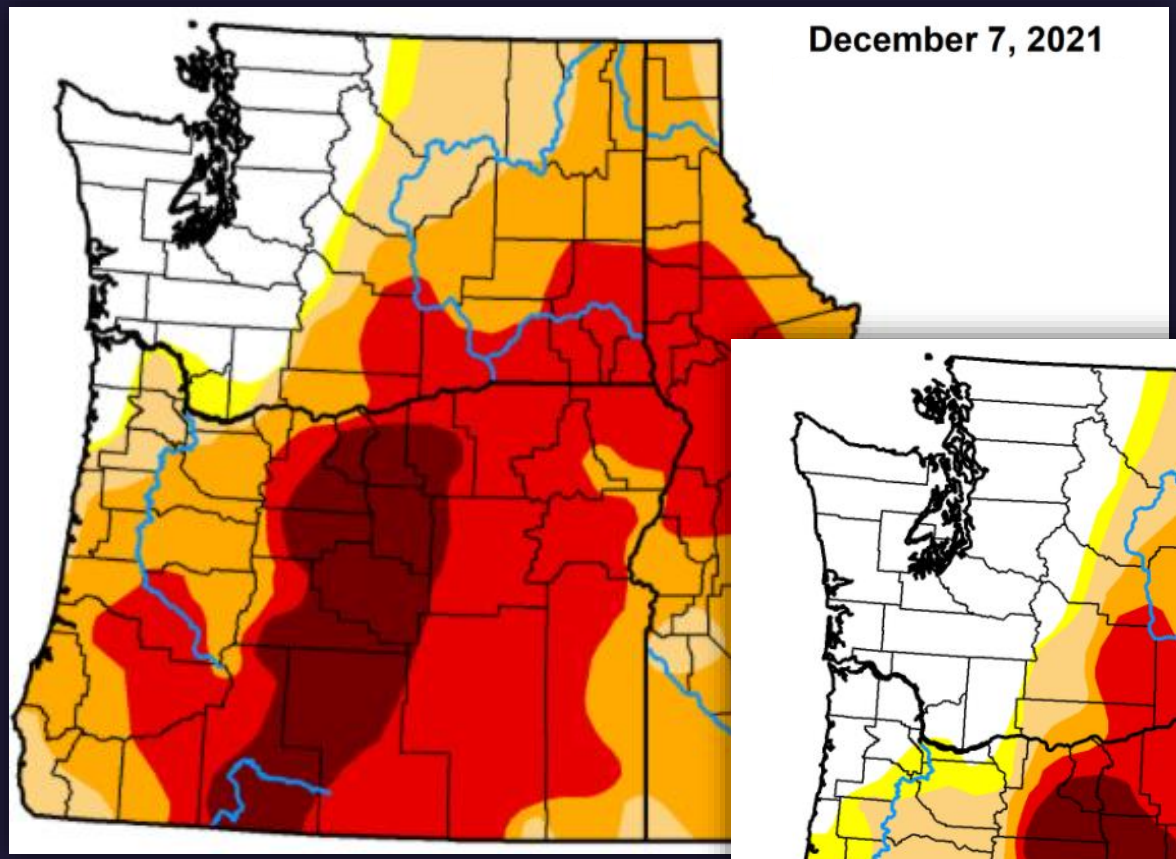
Snow Analysis from NOAA/NWS Remote Sensing Center

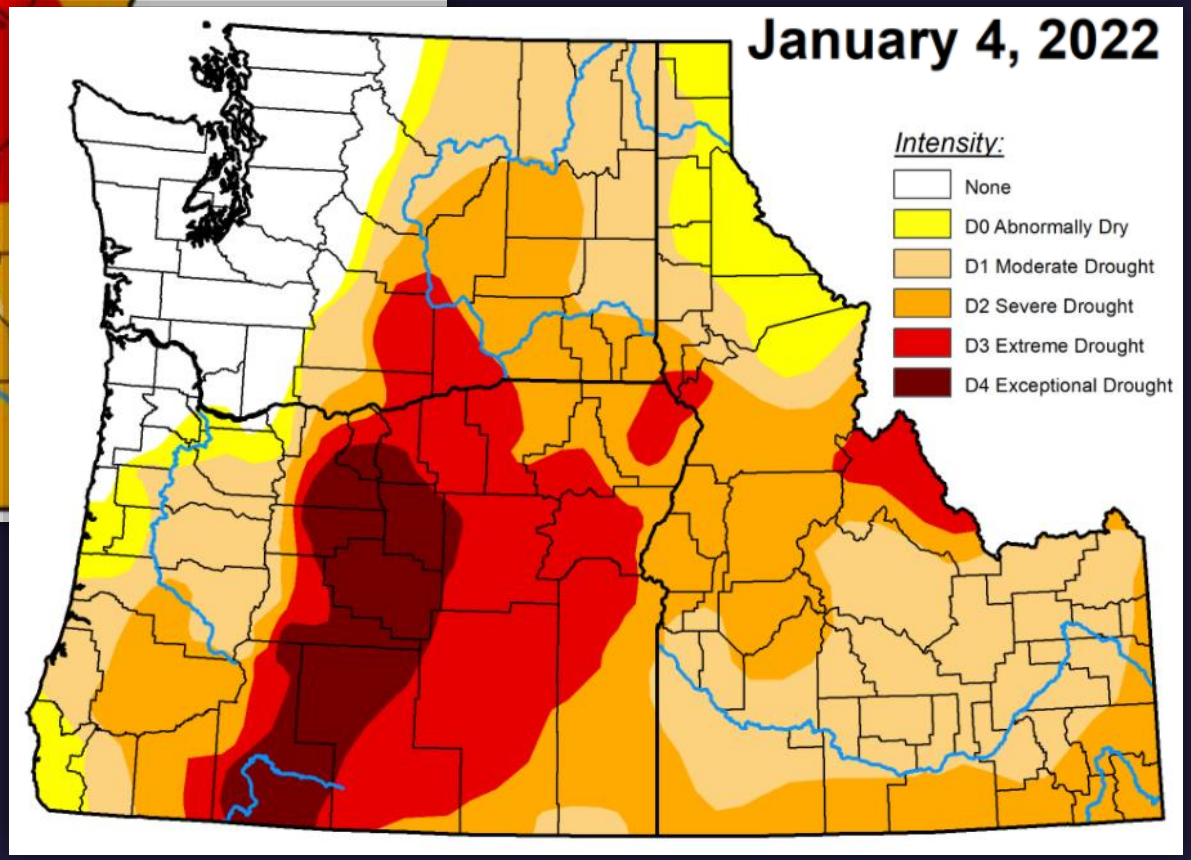




https://www.nohrsc.noaa.gov/nsa/index.html

Drought Monitor



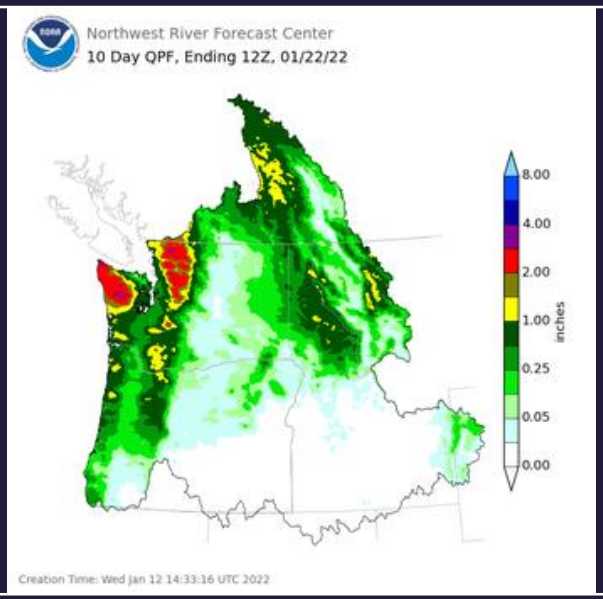


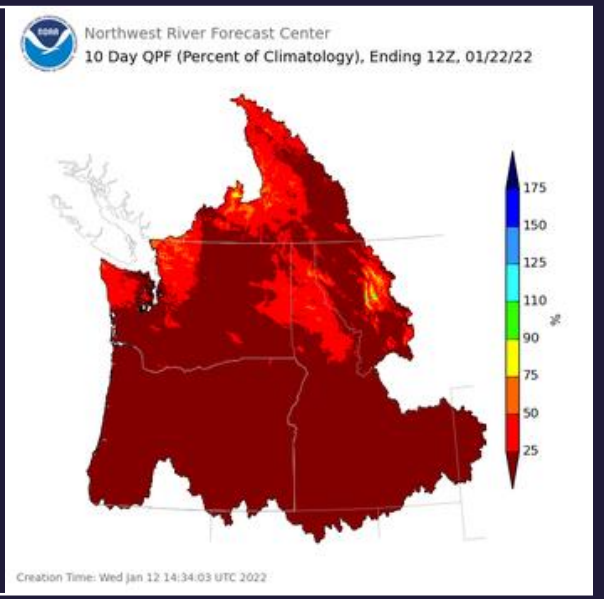
https://droughtmonitor.unl.edu

Mid January Outlook

NWRFC
10-DAY
PRECIPITATION
FORECAST

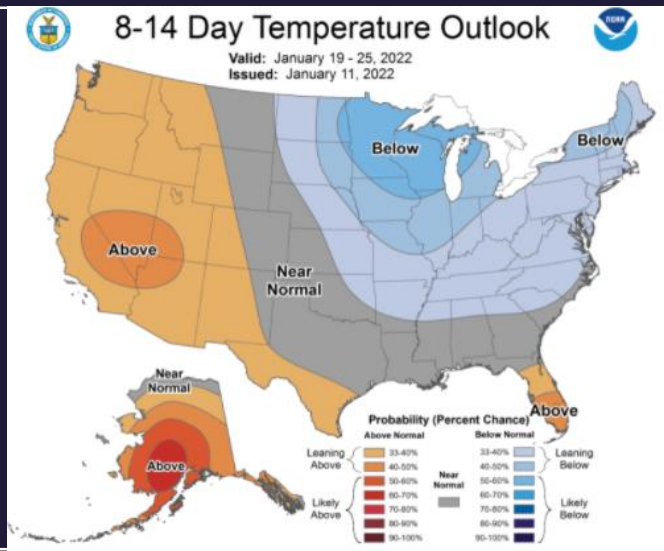
www.nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php

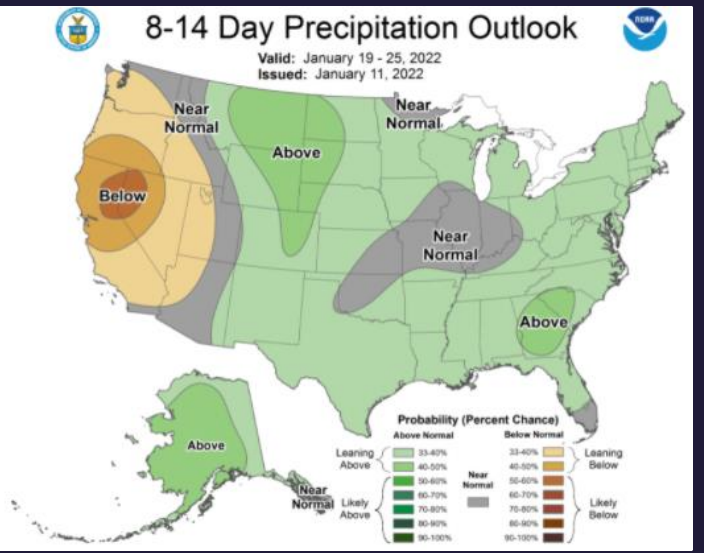




CPC
8 – 14 DAY
OUTLOOK

www.cpc.ncep.noaa.gov

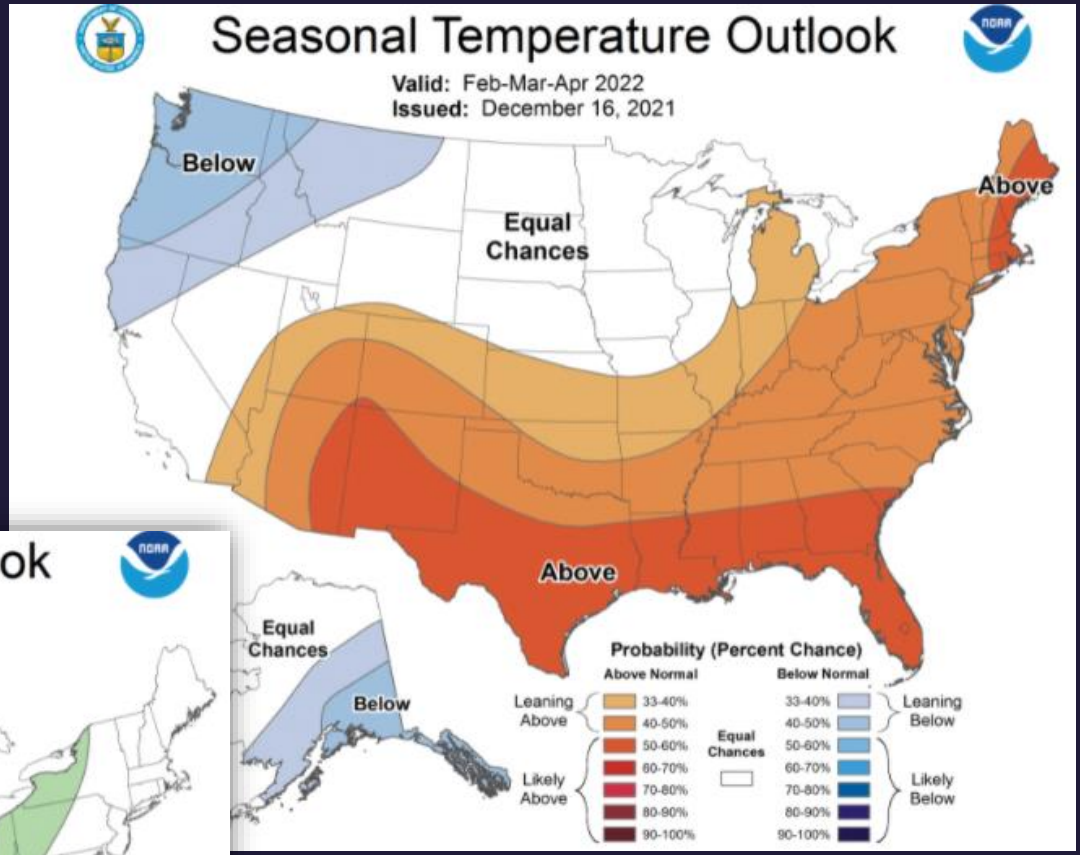


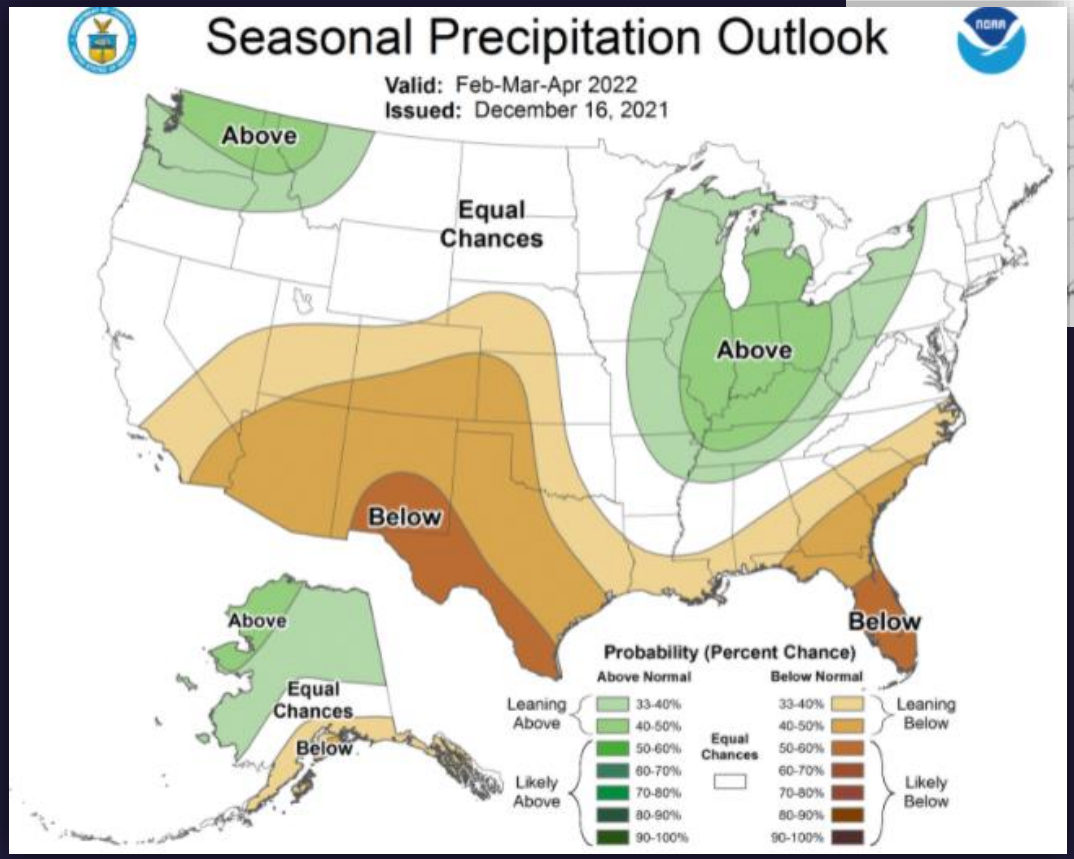


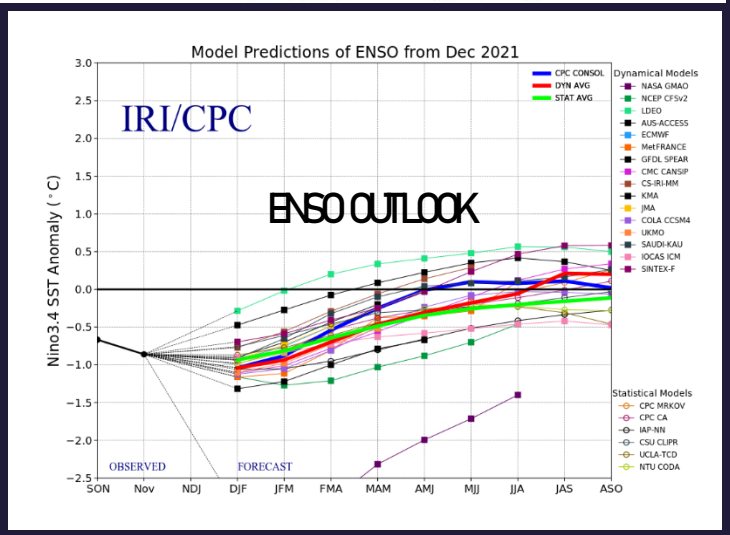
Climate Prediction Center Outlook

Feb-Mar-Apr 2022

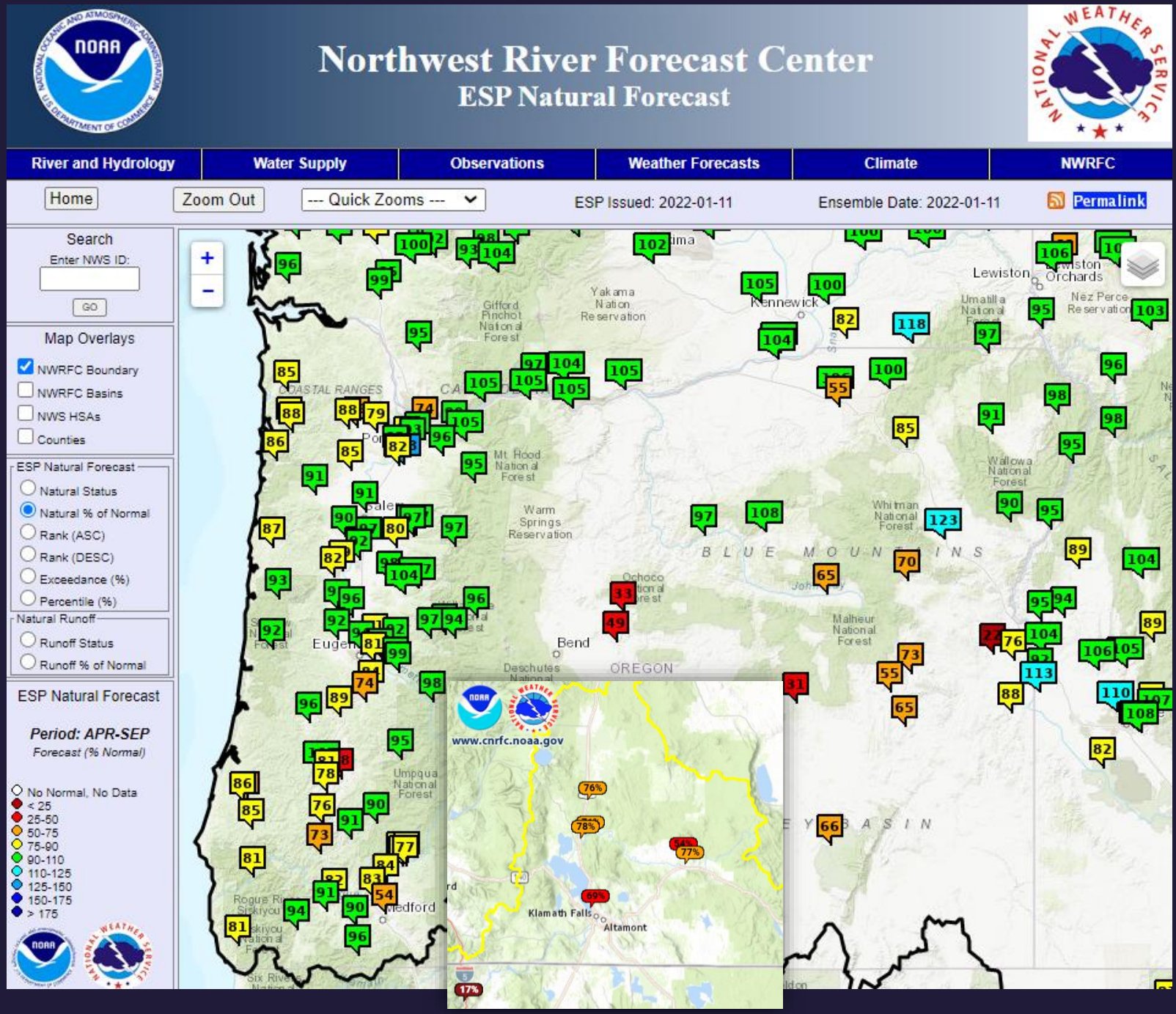
www.cpc.ncep.noaa.gov



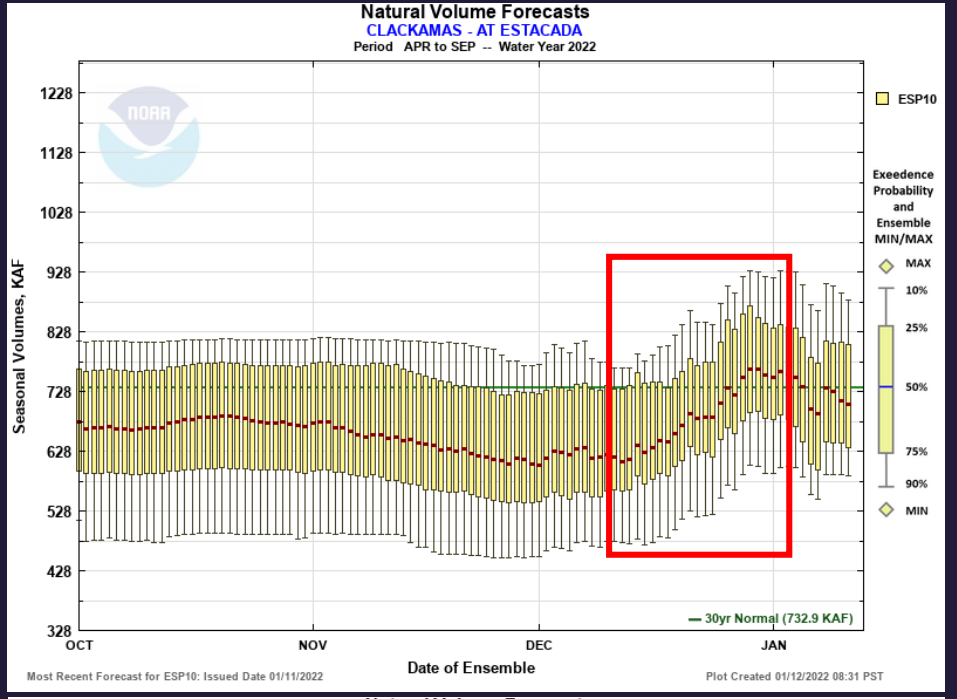


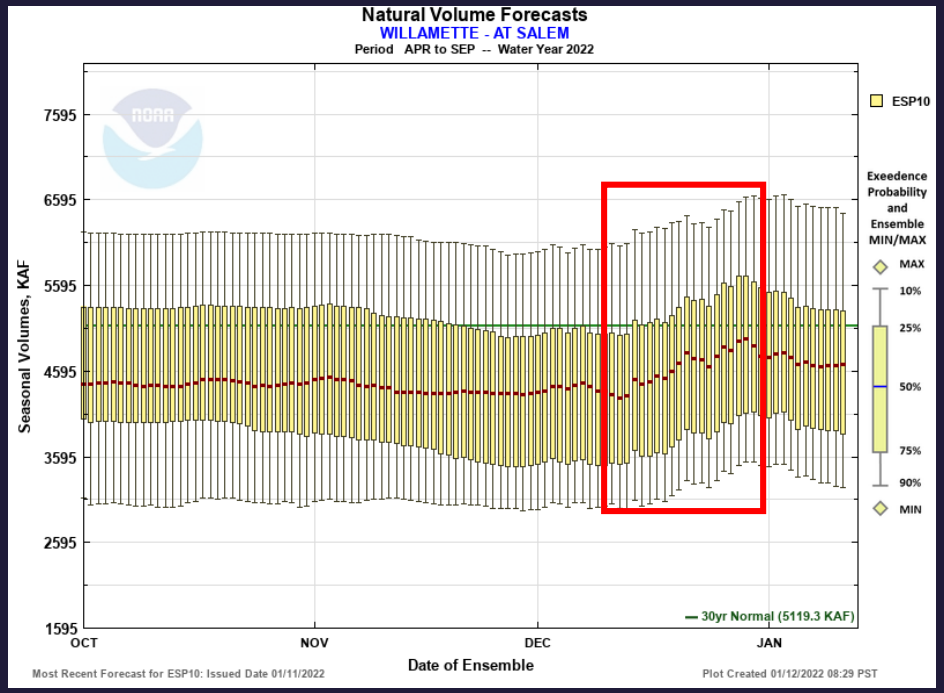


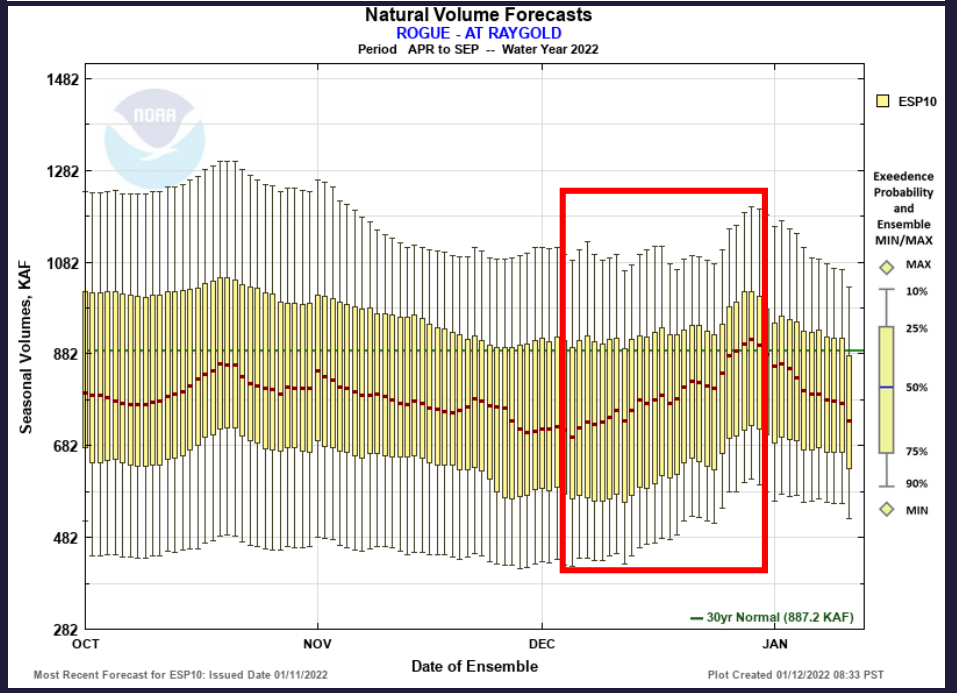
Seasonal Water Supply Forecasts



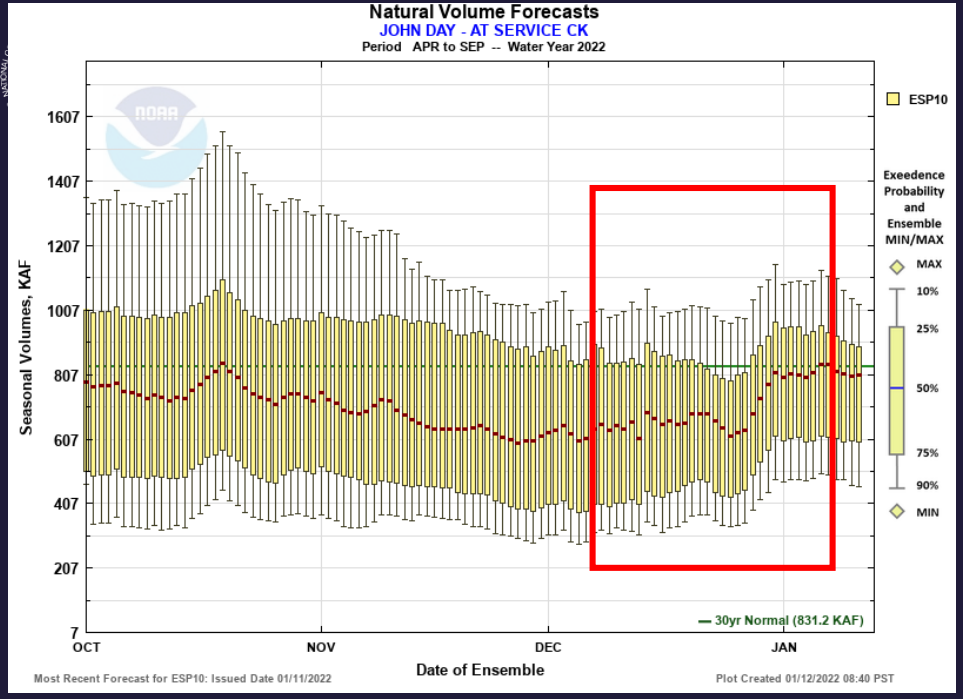
Seasonal Water Supply Forecasts – Western Oregon

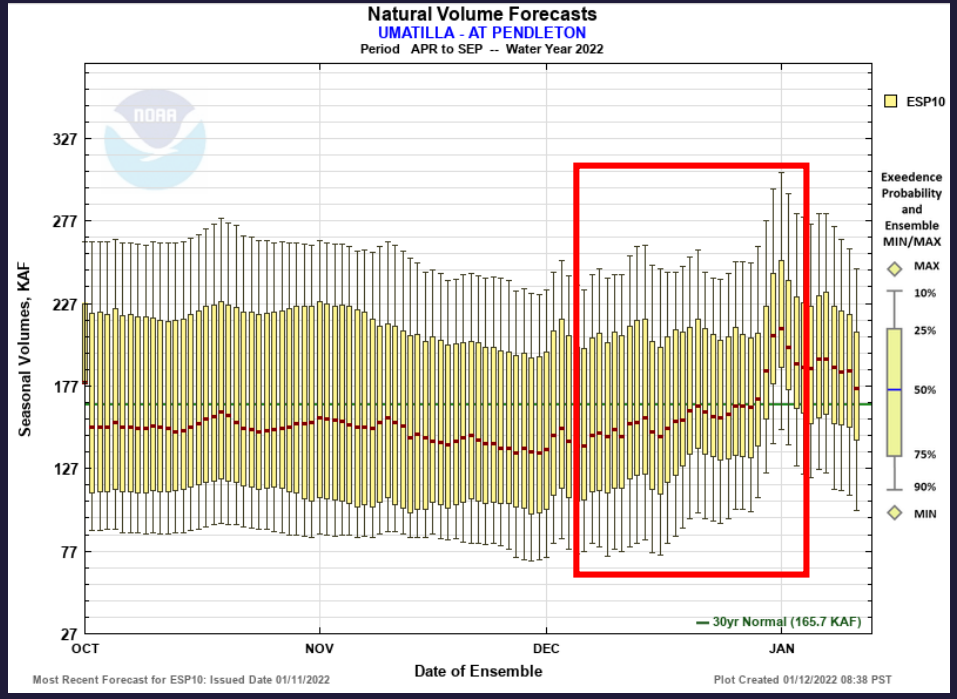


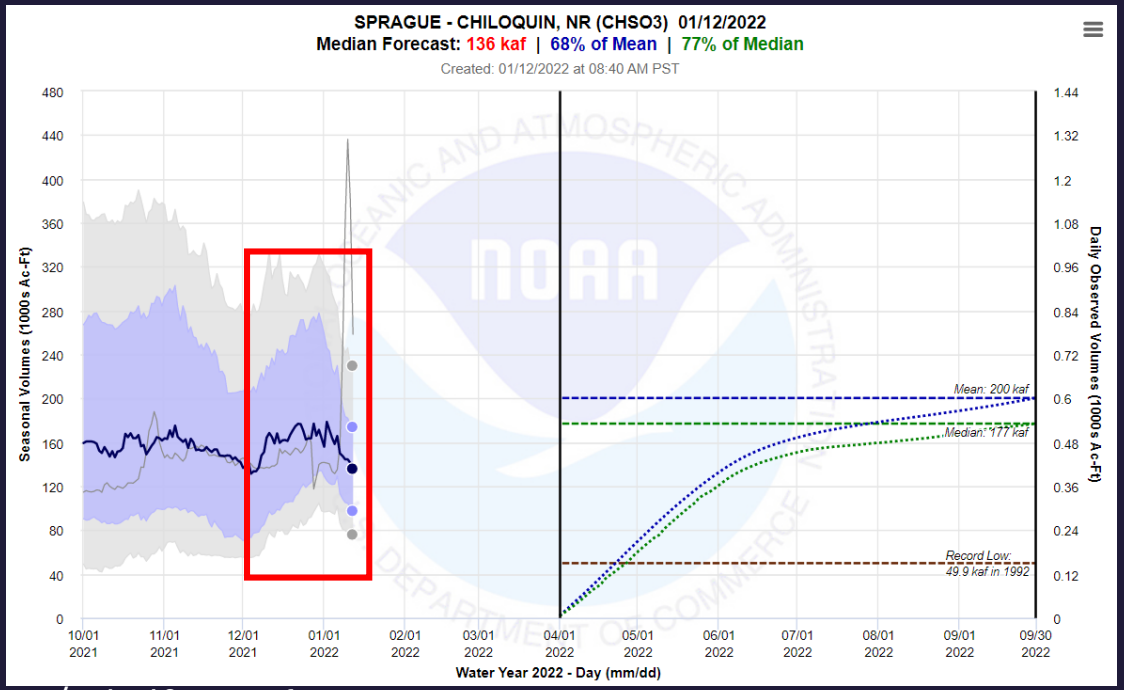




Seasonal Water Supply Forecasts – Central/Eastern Oregon







NWRFC Water Supply Forecast
Monthly Briefing Schedule

Monthly water supply briefings will be held January through late spring on the first Thursday of each month. Please refer to the schedule below for briefing dates and times. The briefings are composed of two parts, a telephone conference call and a web-based presentation. The conference call can be joined by calling the number provided below prior to start of the briefing. Enter the provided access code when prompted. To view the web-based presentations, you will need to register prior to each briefing. The briefing slides will be available from the NWRFC presentations page soon after the briefing.

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

Telephone Conference Call Number (same for all briefings):
(562) 247-8422
Pass Code:
146-348-602

USGS
science for a changing world

Oregon Water Supply Availability Meeting

January 2022

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

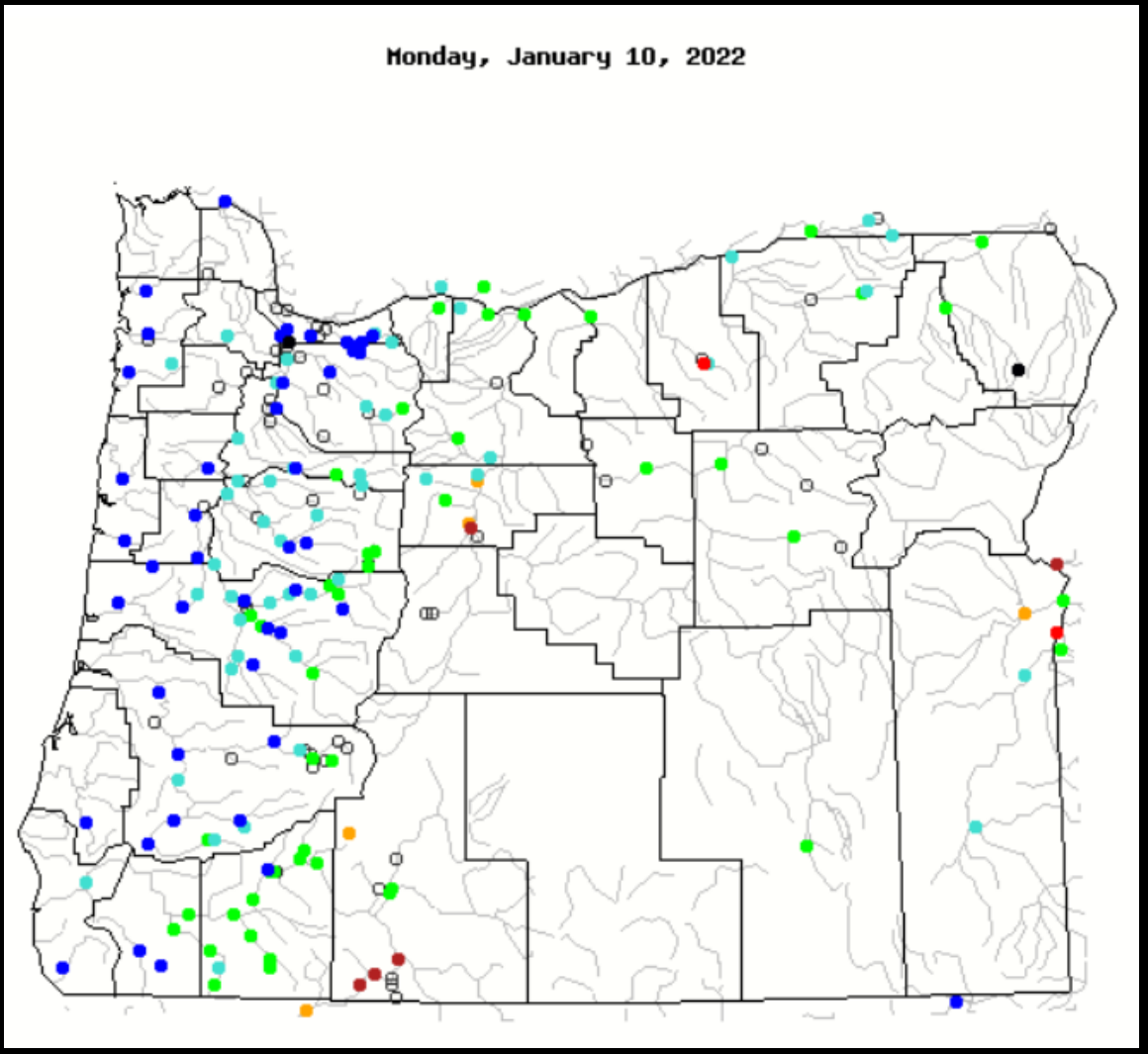
USGS Update on Surface Water Conditions

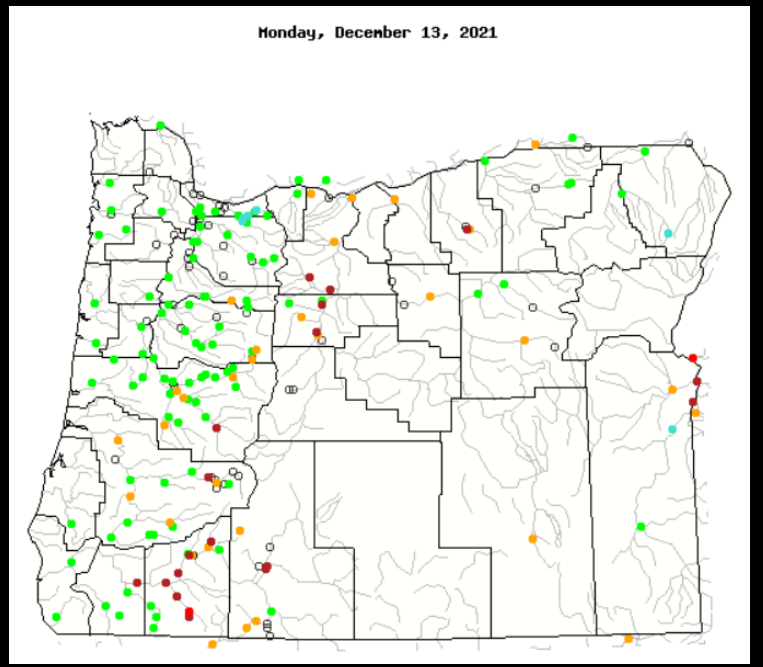
Carrie Boudreau & Marc Stewart
Oregon Water Science Center

Photo: 14182500, Heather Bragg

Streamflow Conditions

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



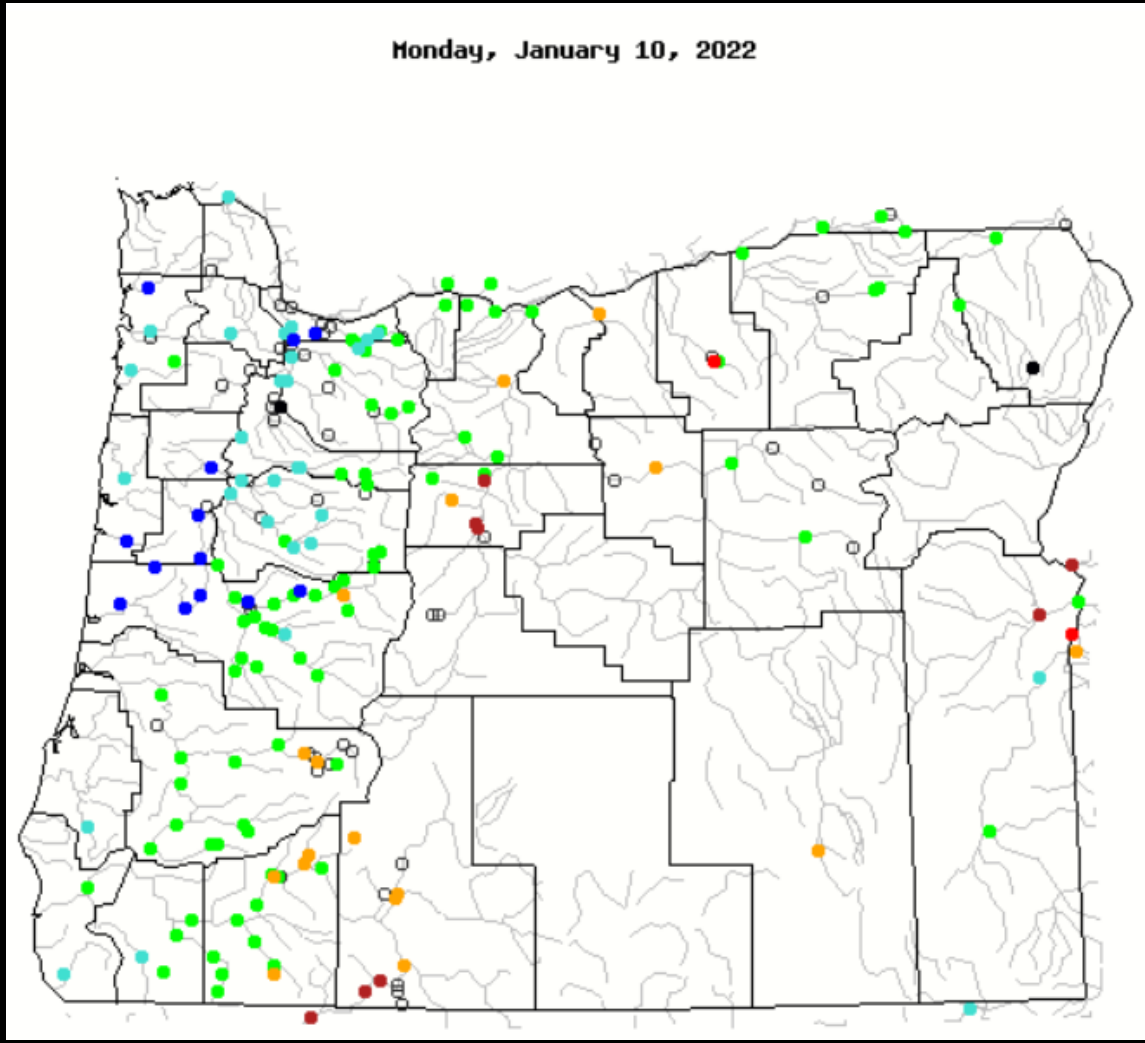


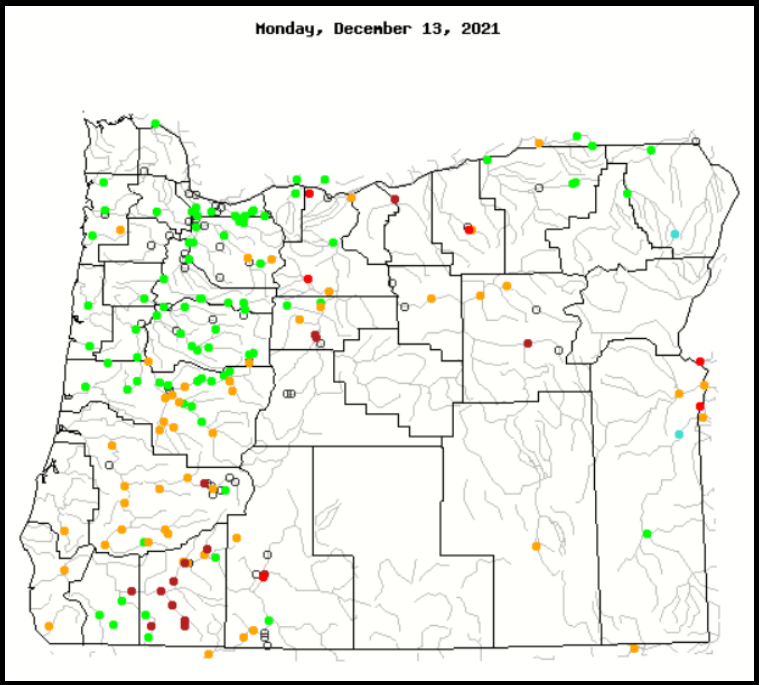
USGS

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

Streamflow Conditions

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

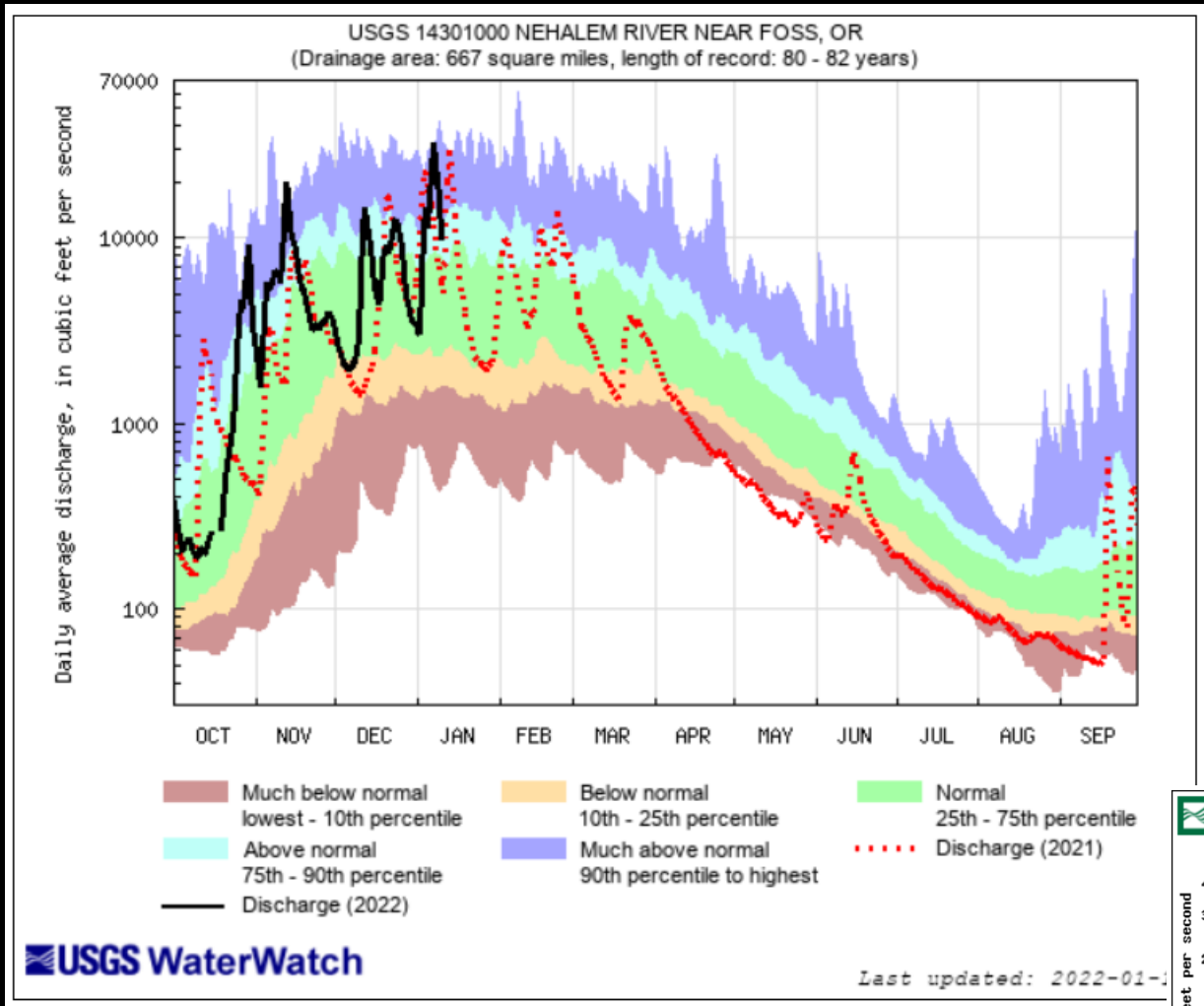


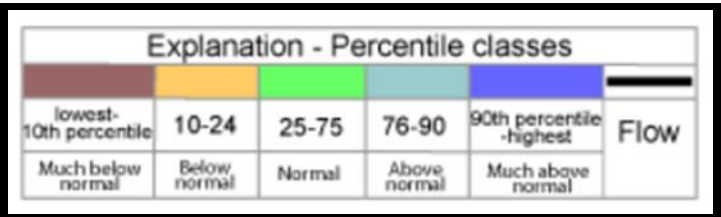


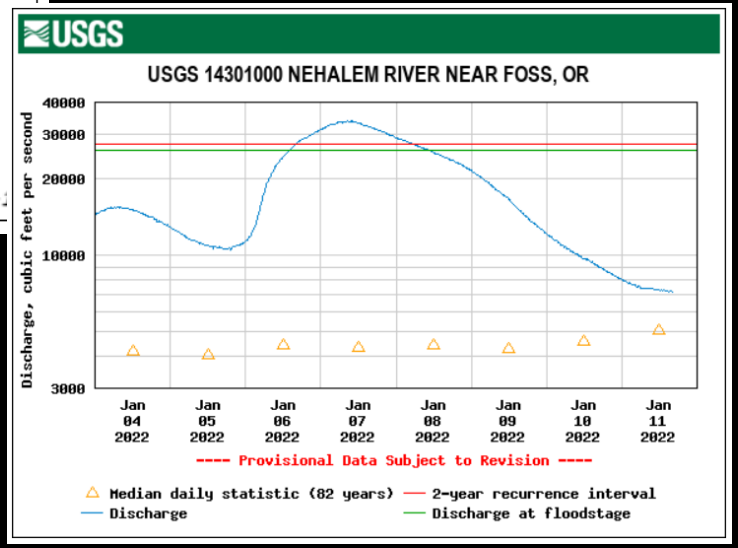
USGS

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

Northwestern OR

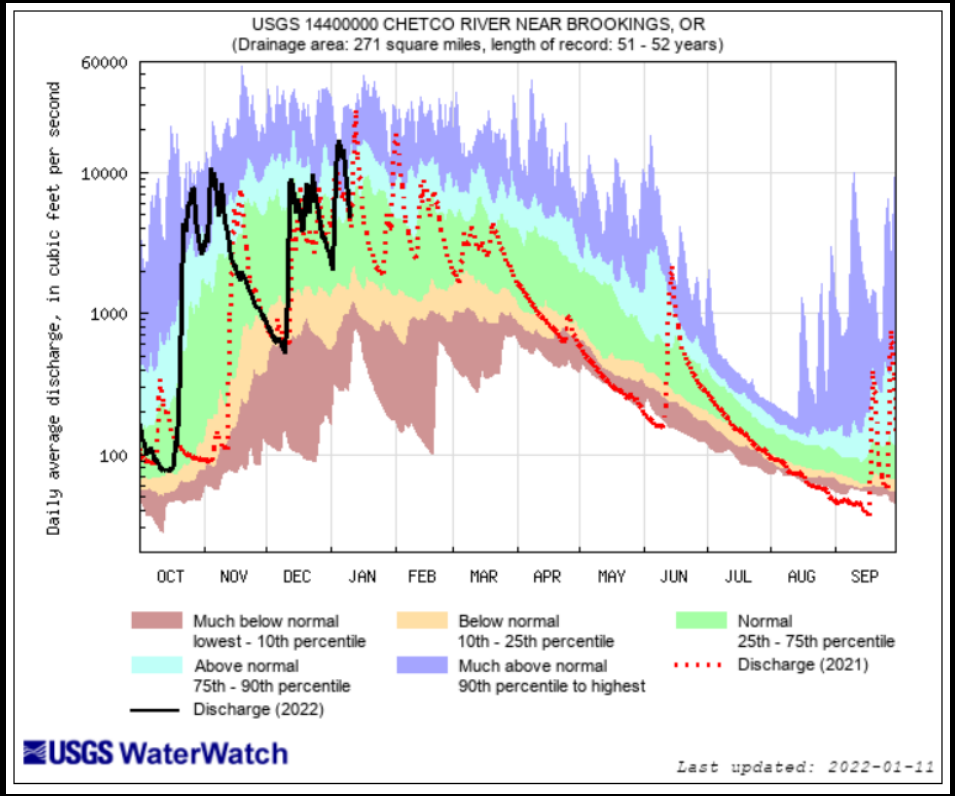


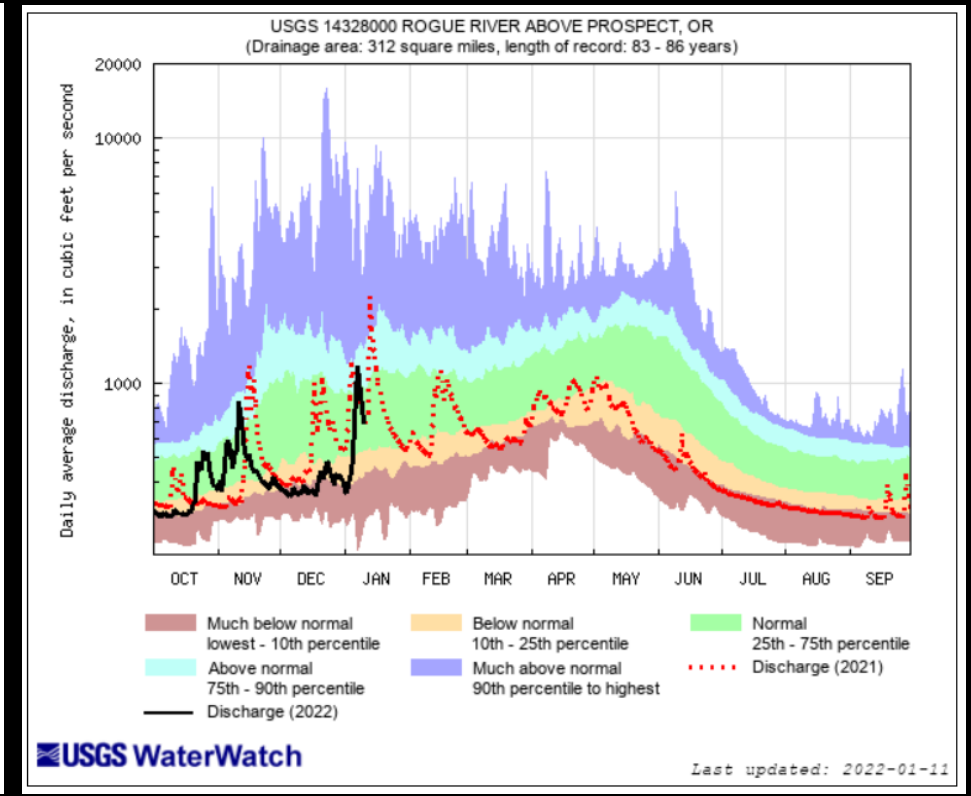


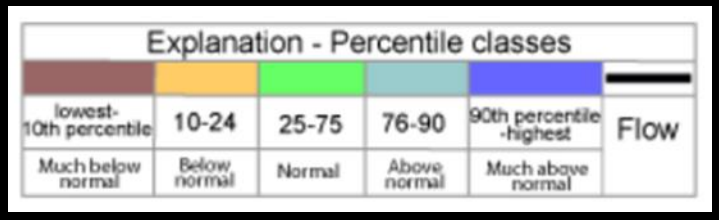


USGS

Southwestern OR

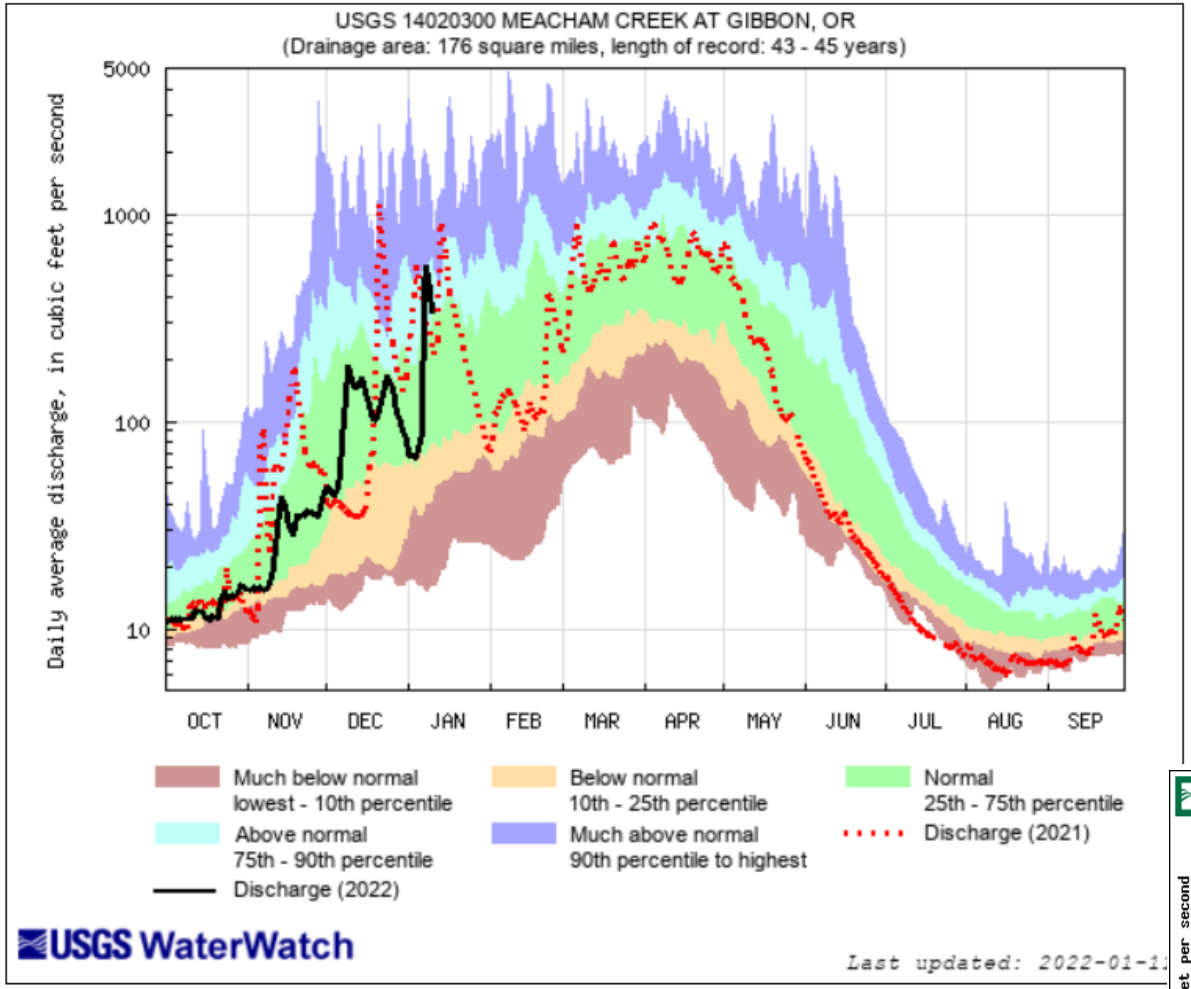


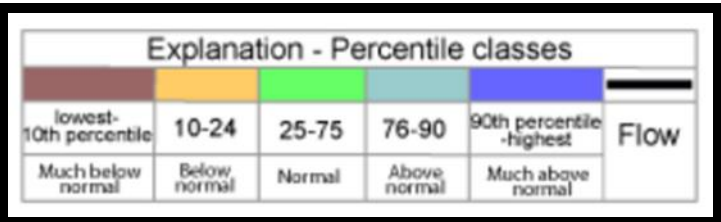


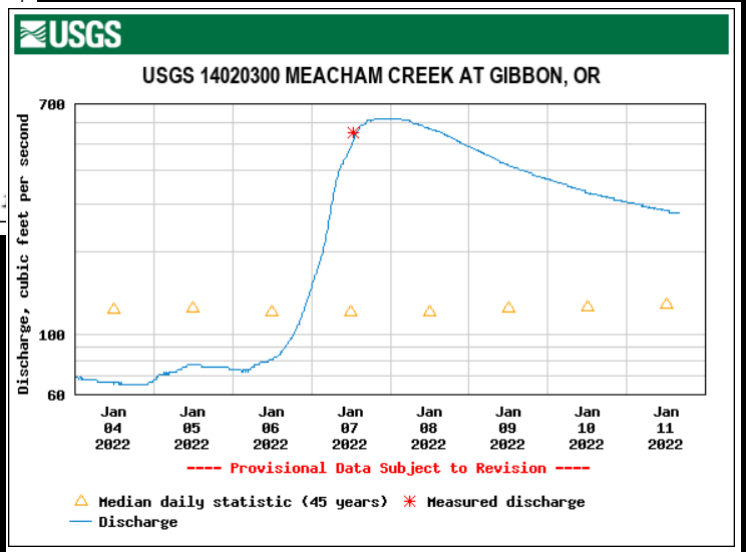


USGS

Northeastern OR

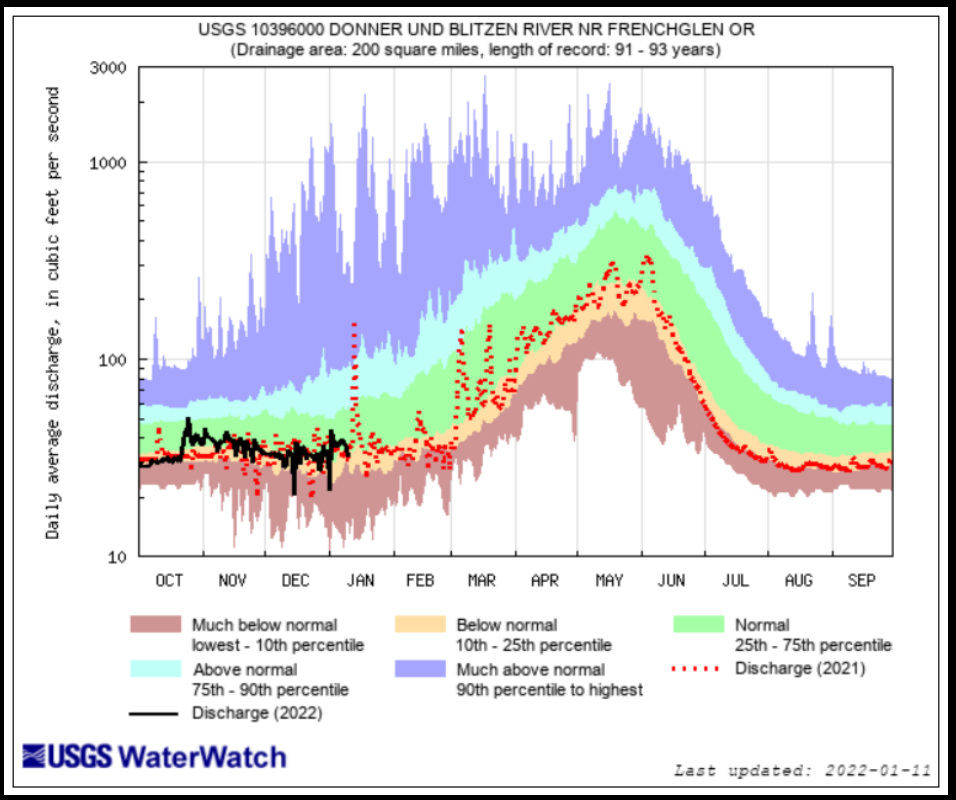


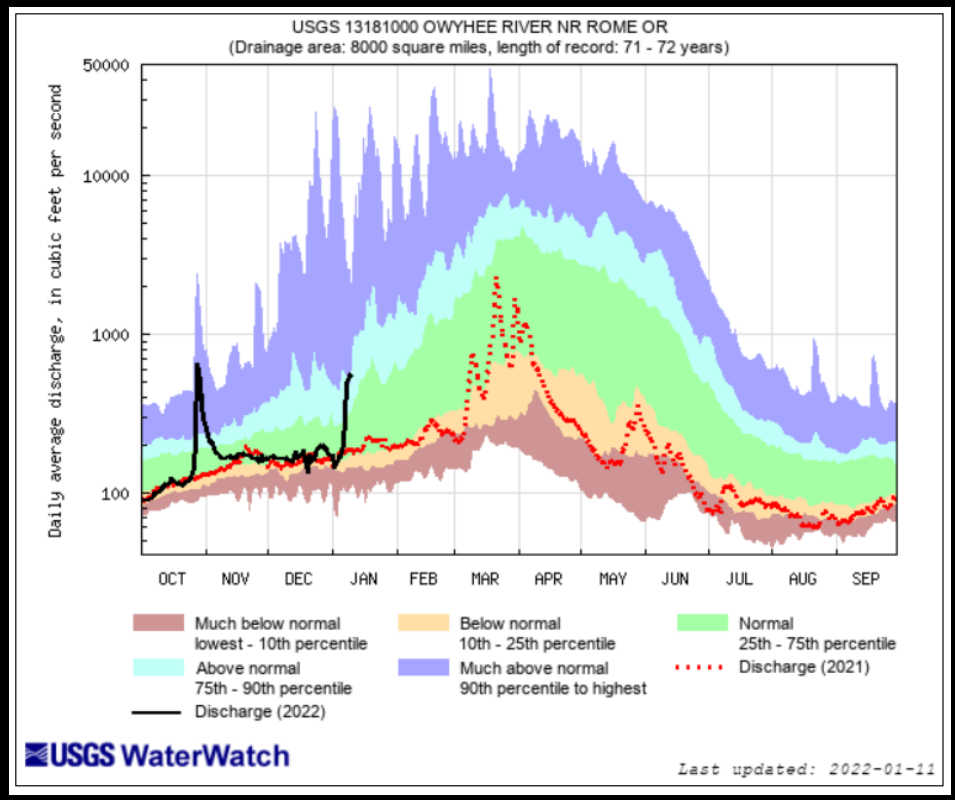


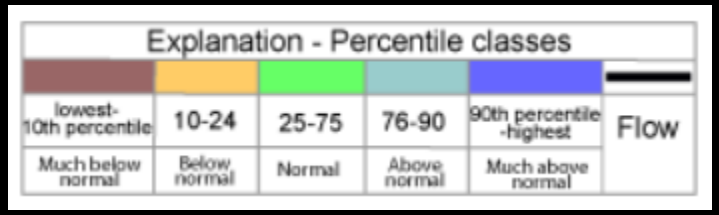


USGS

Southeastern OR

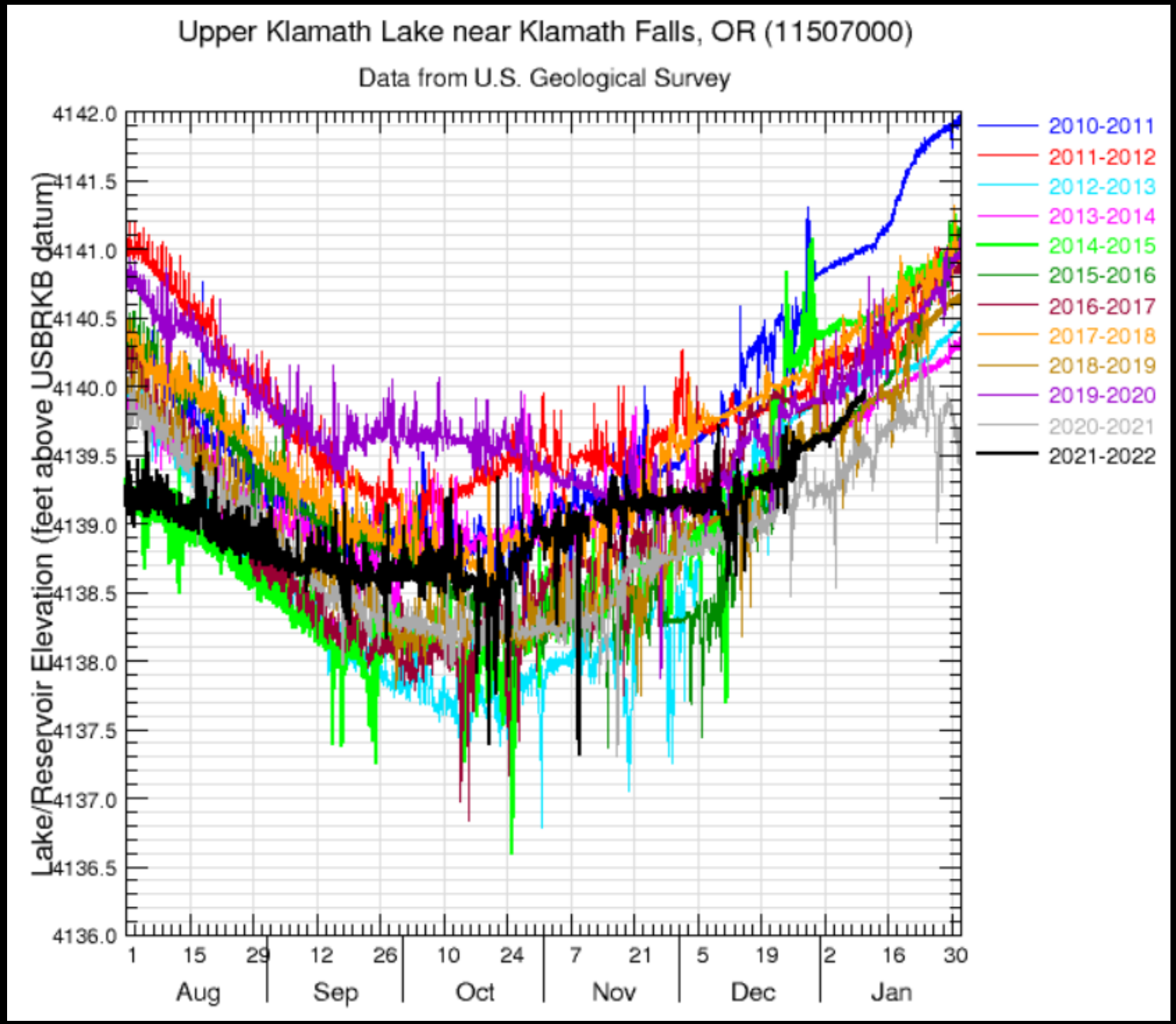




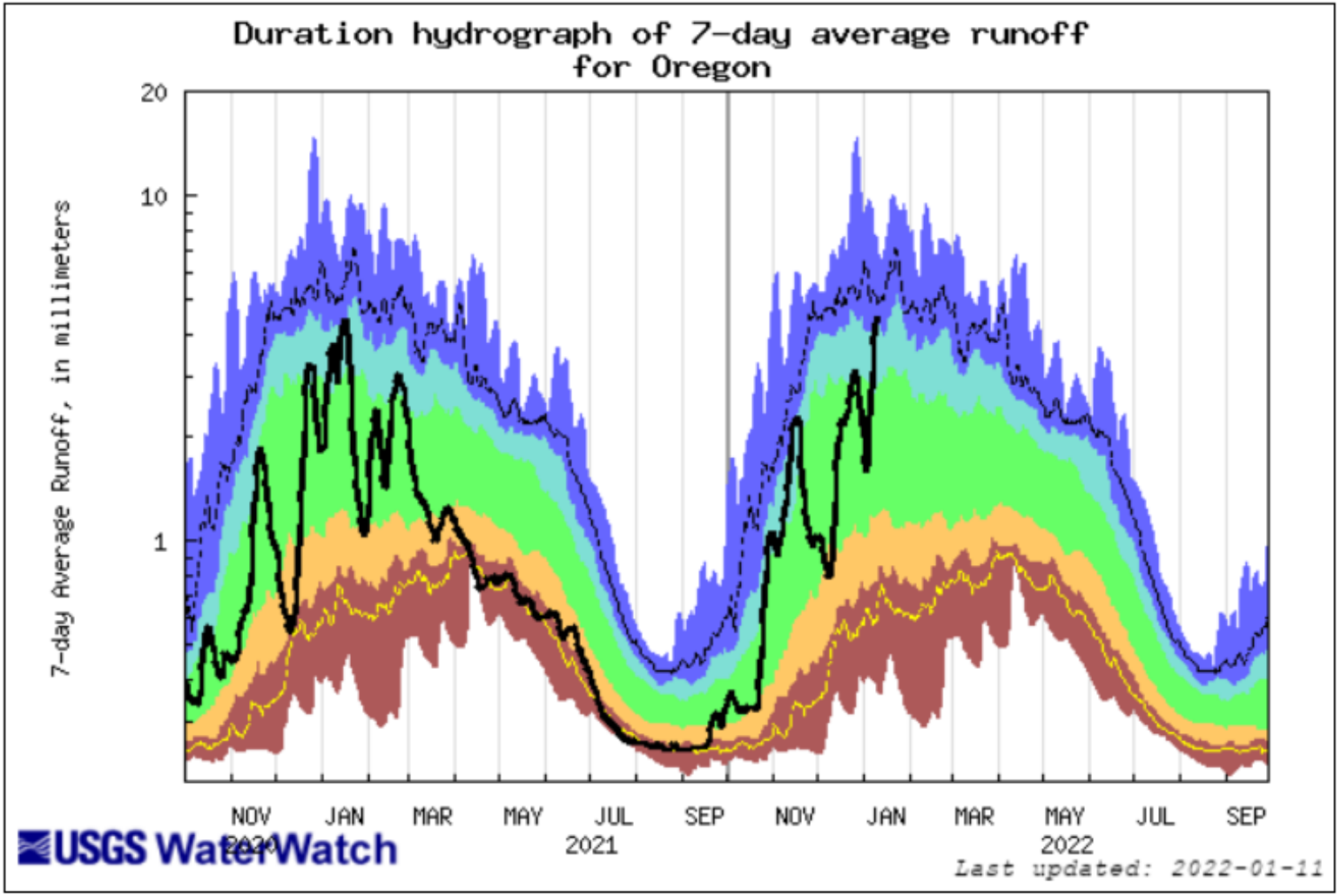


USGS

Klamath Lake



USGS



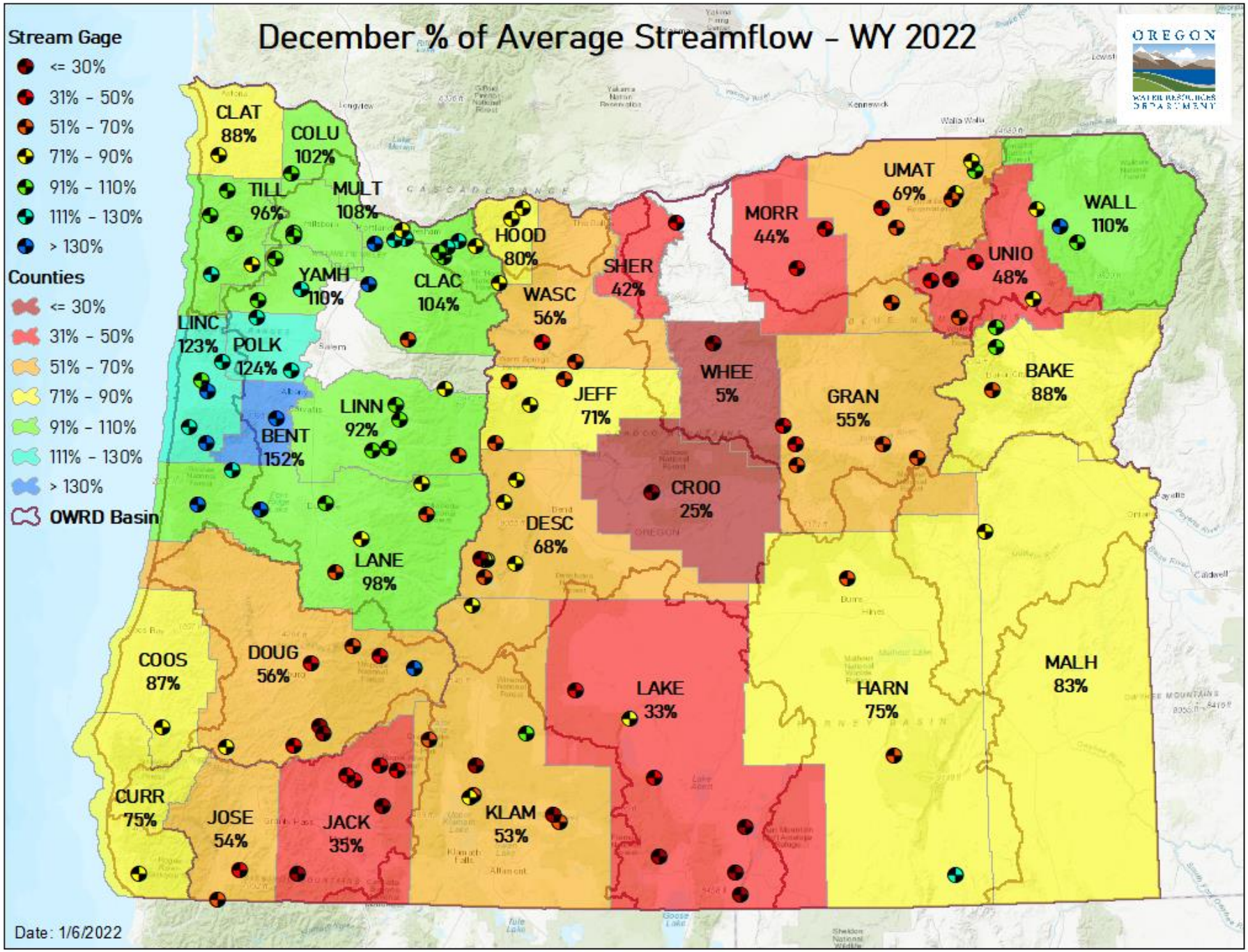
Explanation - Percentile classes							
lowest-10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below Normal		Below normal	Normal	Above normal	Much above normal		

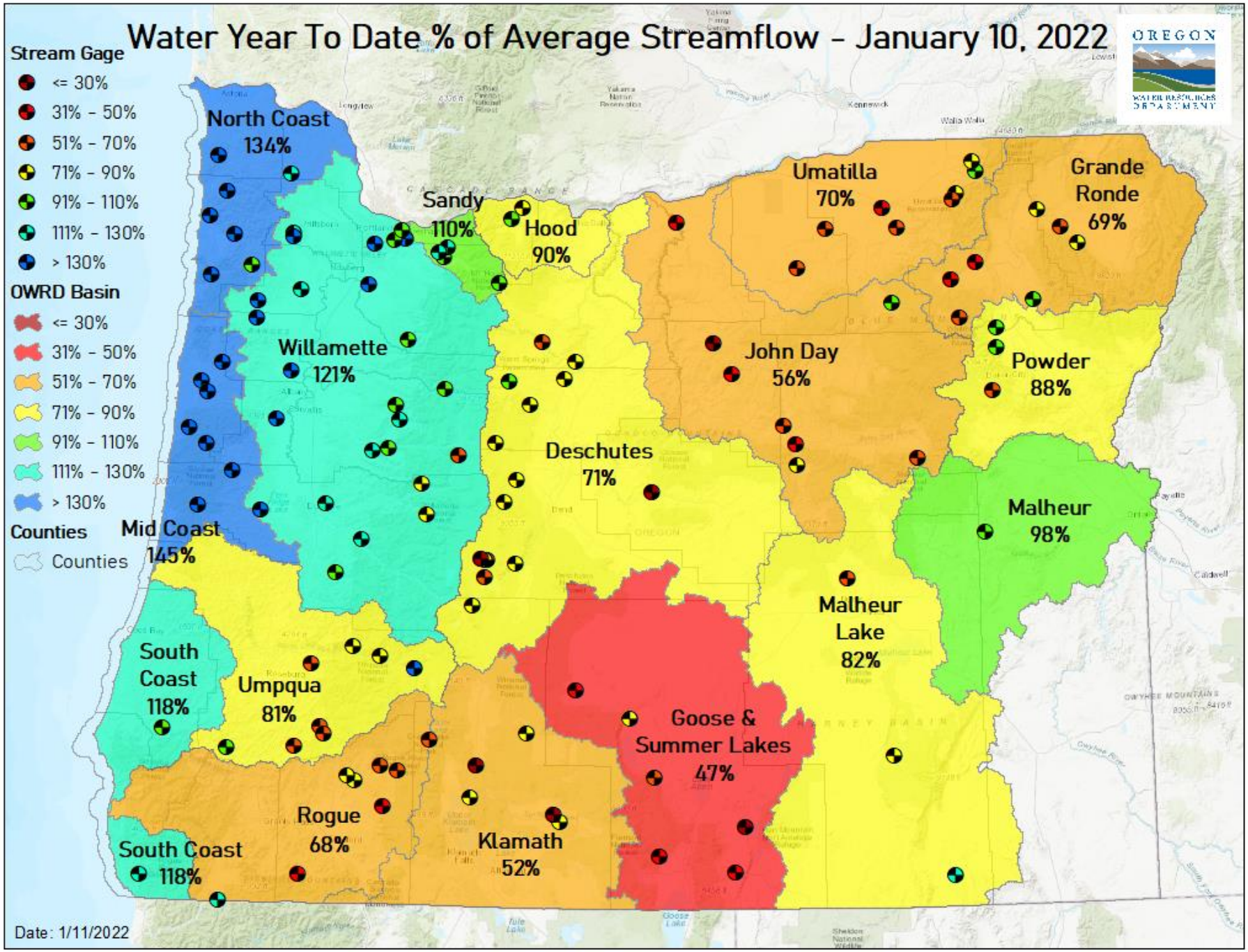
USGS

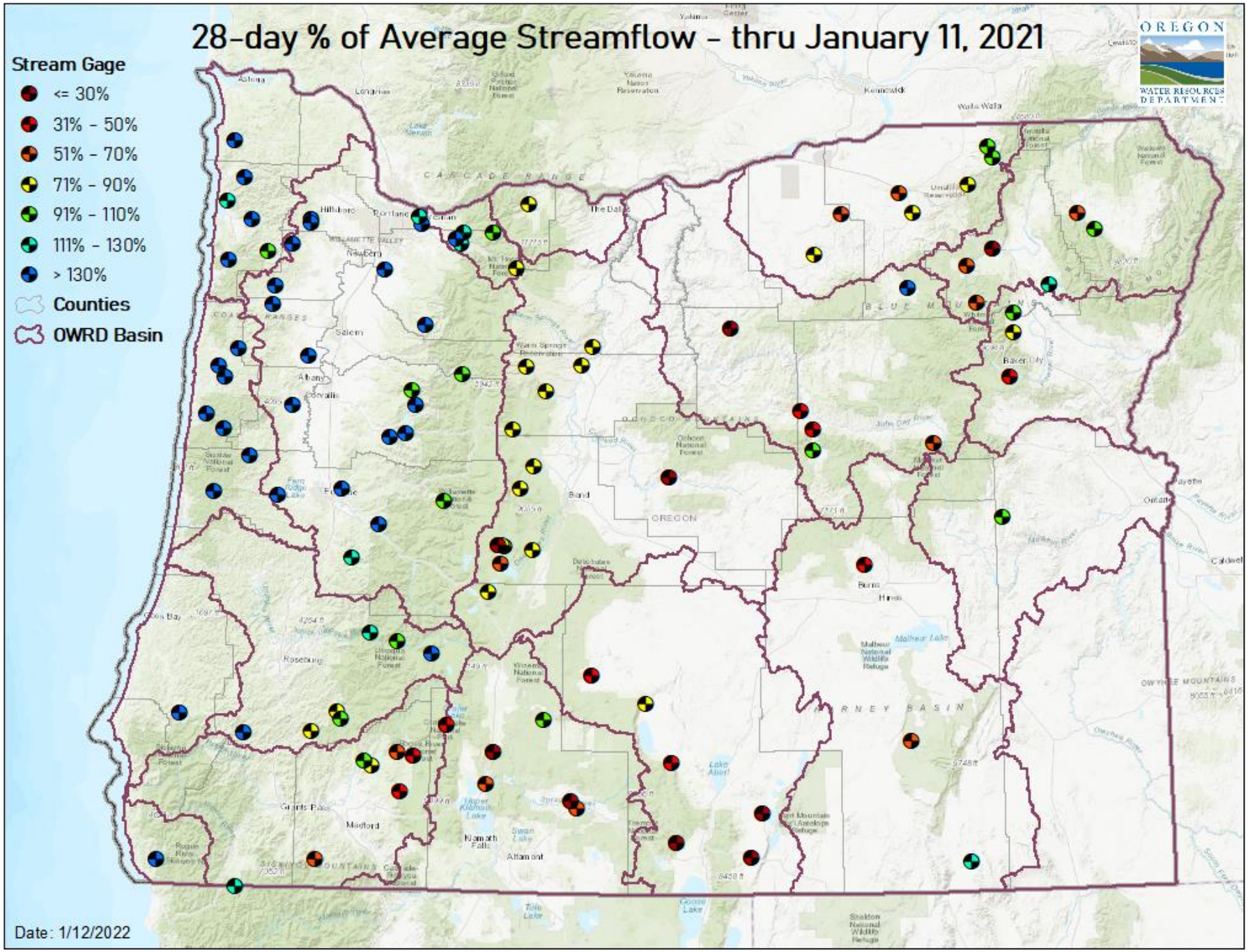
Water Supply Availability Committee
Oregon Water Resources Department

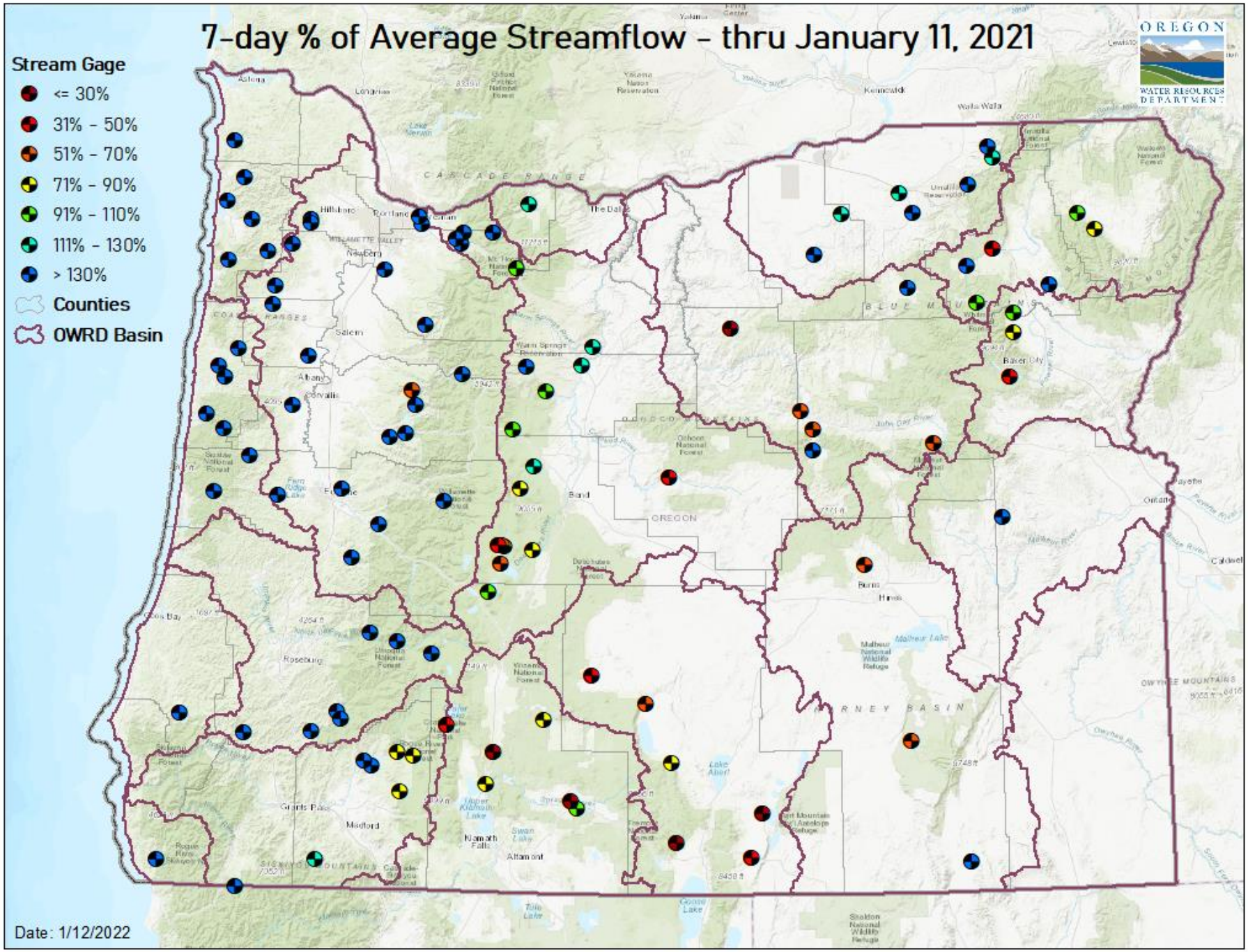
Ryan Andrews

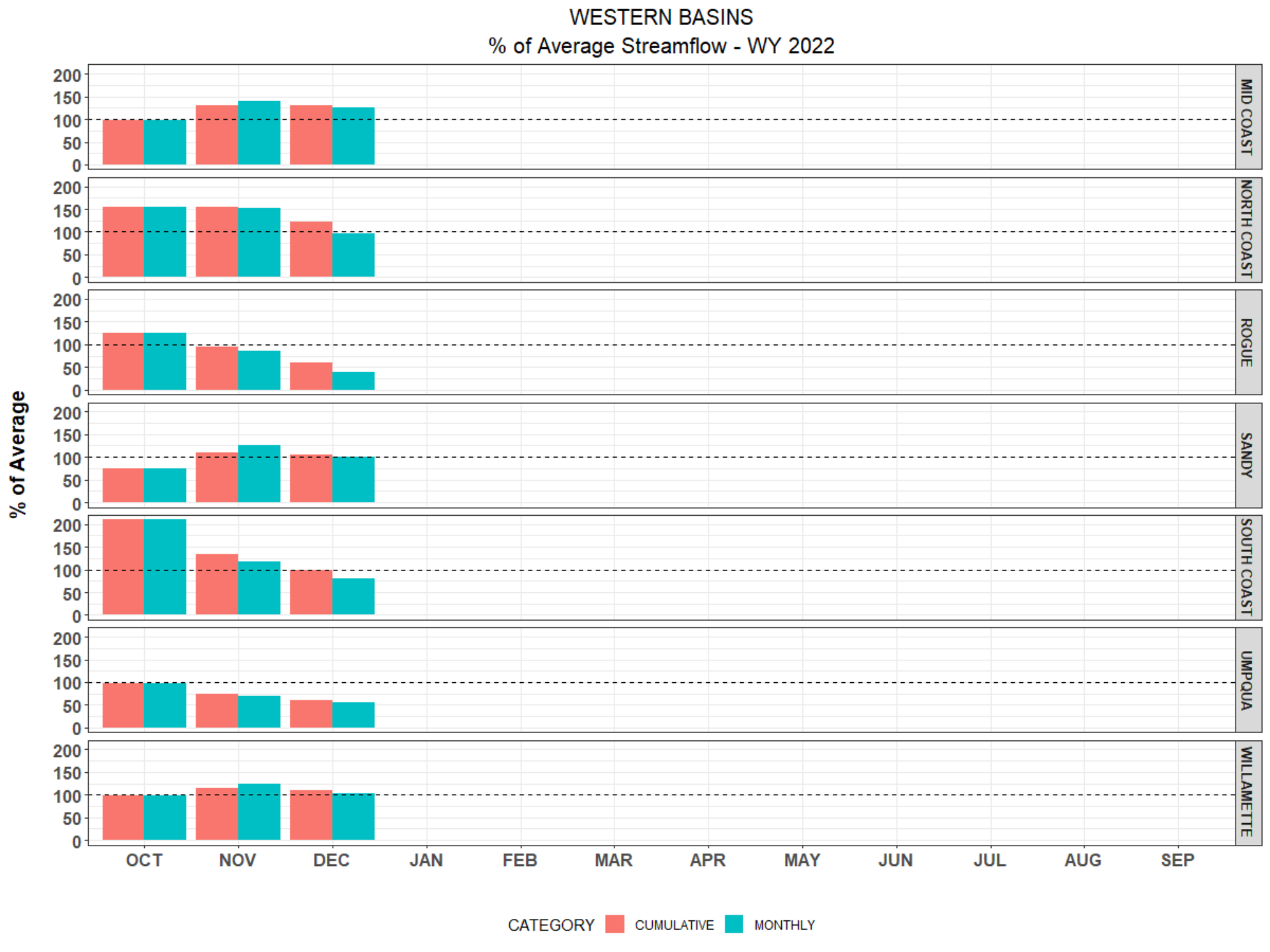
January 12th, 2022

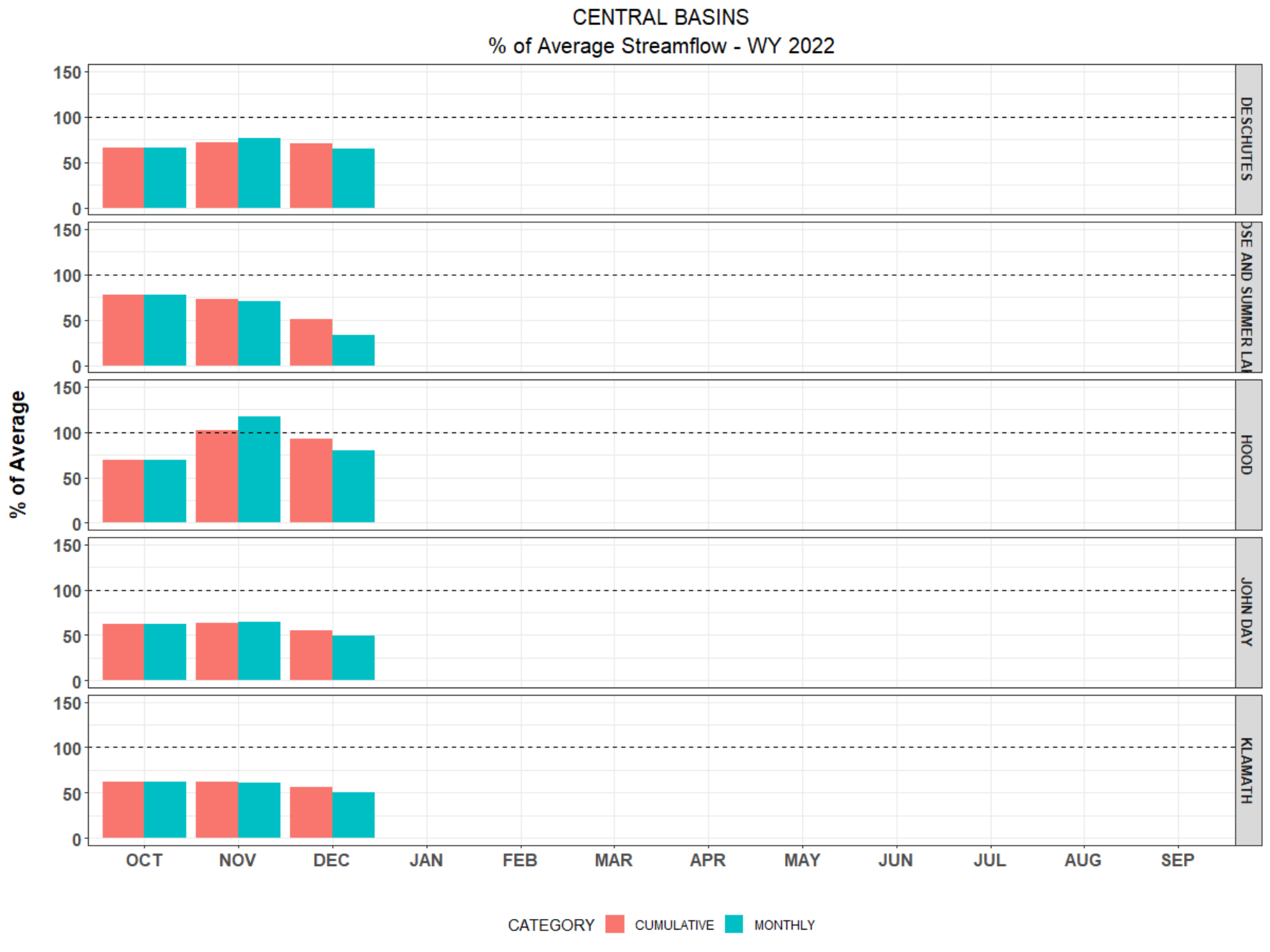

December % of Average Streamflow - WY 2022
Stream Gage
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
Counties
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
OWRD Basin
OREGON
WATER RESOURCES DEPARTMENT
CLAT 88%
COLU 102%
TILL 96%
MULT 108%
HOOD 80%
YAMH 110%
CLAC 104%
WASC 56%
SHER 42%
MORR 44%
UMAT 69%
UNIO 48%
WALL 110%
LINC 123%
POLK 124%
BENT 152%
LINN 92%
JEFF 71%
WHEE 5%
GRAN 55%
BAKE 88%
CROO 25%
DESC 68%
LANE 98%
COOS 87%
DOUG 56%
LAKE 33%
HARN 75%
MALH 83%
CURR 75%
JOSE 54%
JACK 35%
KLAM 53%
Date: 1/6/2022

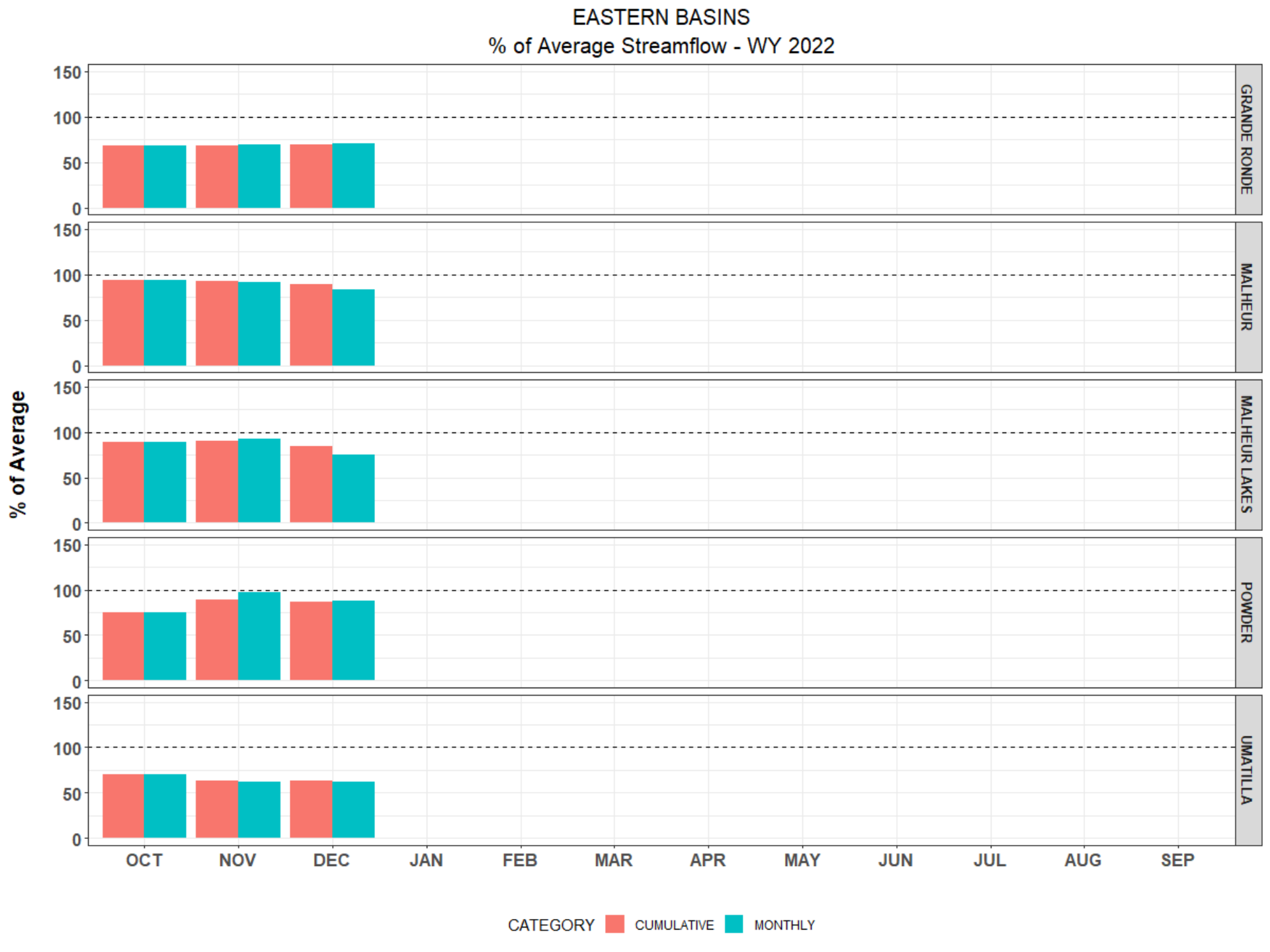

Water Year To Date % of Average Streamflow - January 10, 2022
OREGON
WATER RESOURCES DEPARTMENT
Stream Gage
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
OWRD Basin
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
Counties
Counties
North Coast 134%
Sandy 110%
Hood 90%
Willamette 121%
Mid Coast 145%
Umatilla 70%
Grande Ronde 69%
John Day 56%
Powder 88%
Deschutes 71%
Malheur 98%
Malheur Lake 82%
South Coast 118%
Umpqua 81%
Goose & Summer Lakes 47%
Rogue 68%
Klamath 52%
South Coast 118%
Date: 1/11/2022

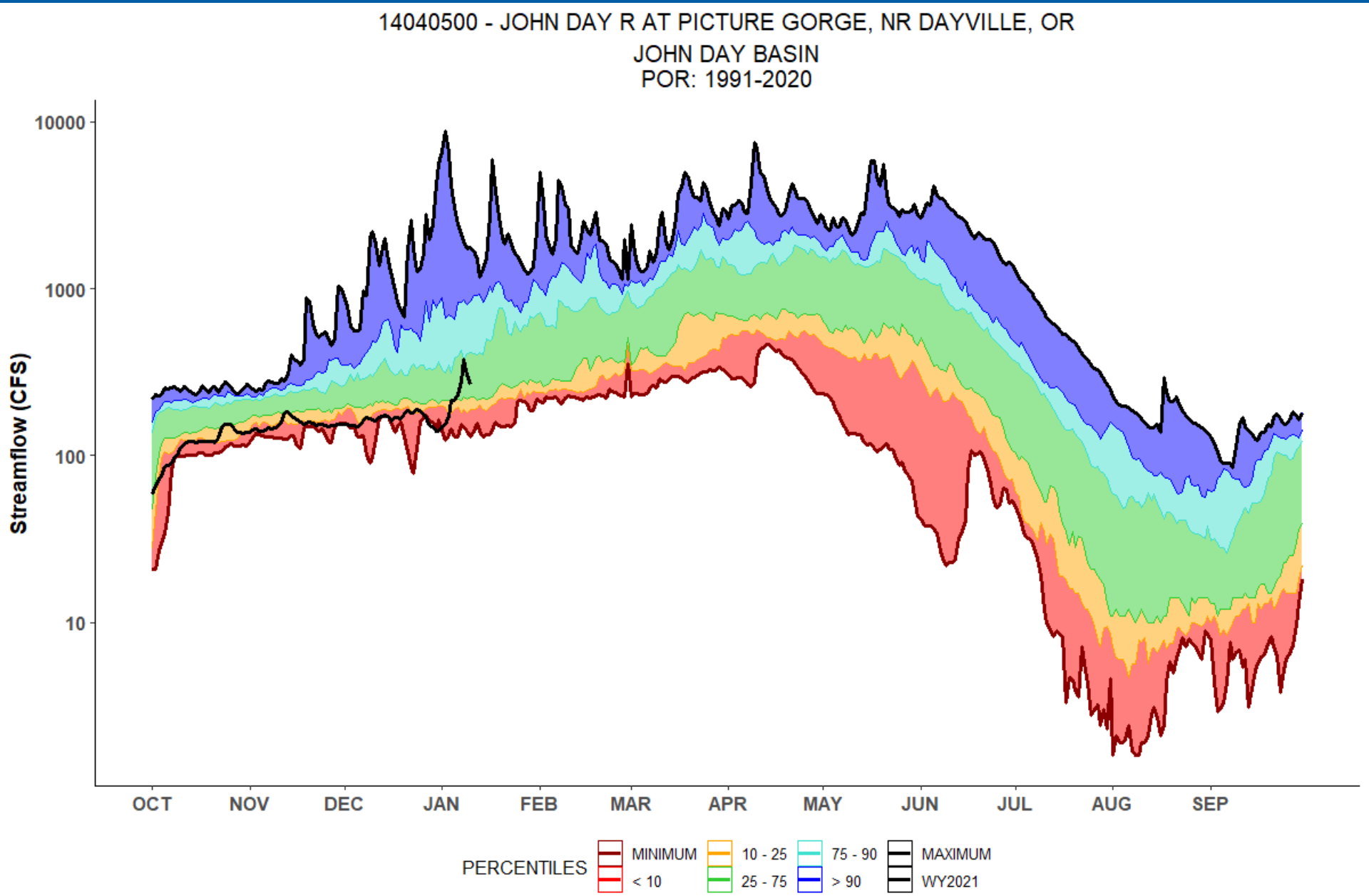

28-day % of Average Streamflow - thru January 11, 2021
OREGON
WATER RESOURCES DEPARTMENT
Stream Gage
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
Counties
OWRD Basin
Date: 1/12/2022

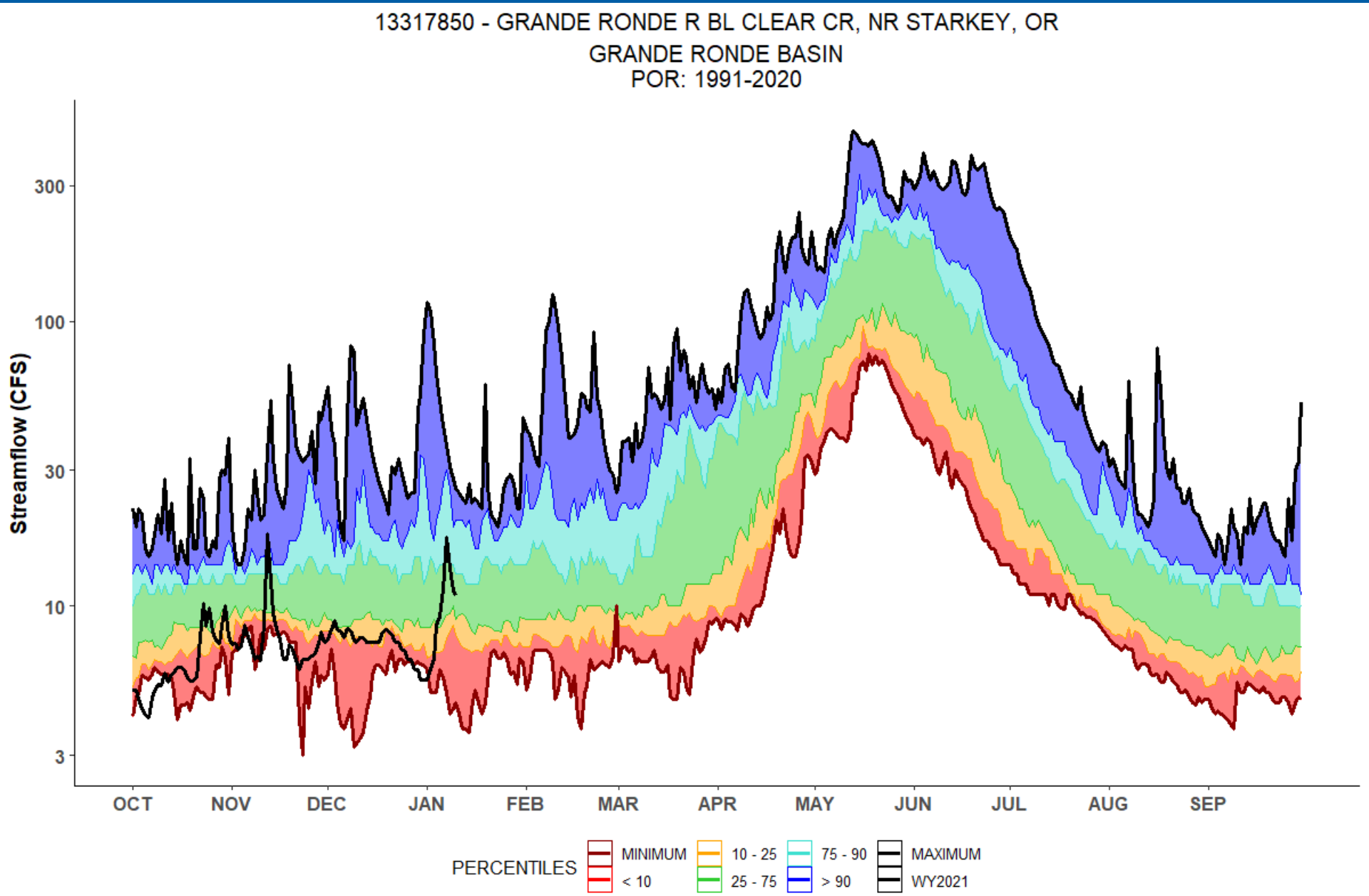

7-day % of Average Streamflow - thru January 11, 2021
Stream Gage
<= 30%
31% - 50%
51% - 70%
71% - 90%
91% - 110%
111% - 130%
> 130%
Counties
OWRD Basin
OREGON
WATER RESOURCES DEPARTMENT
Date: 1/12/2022

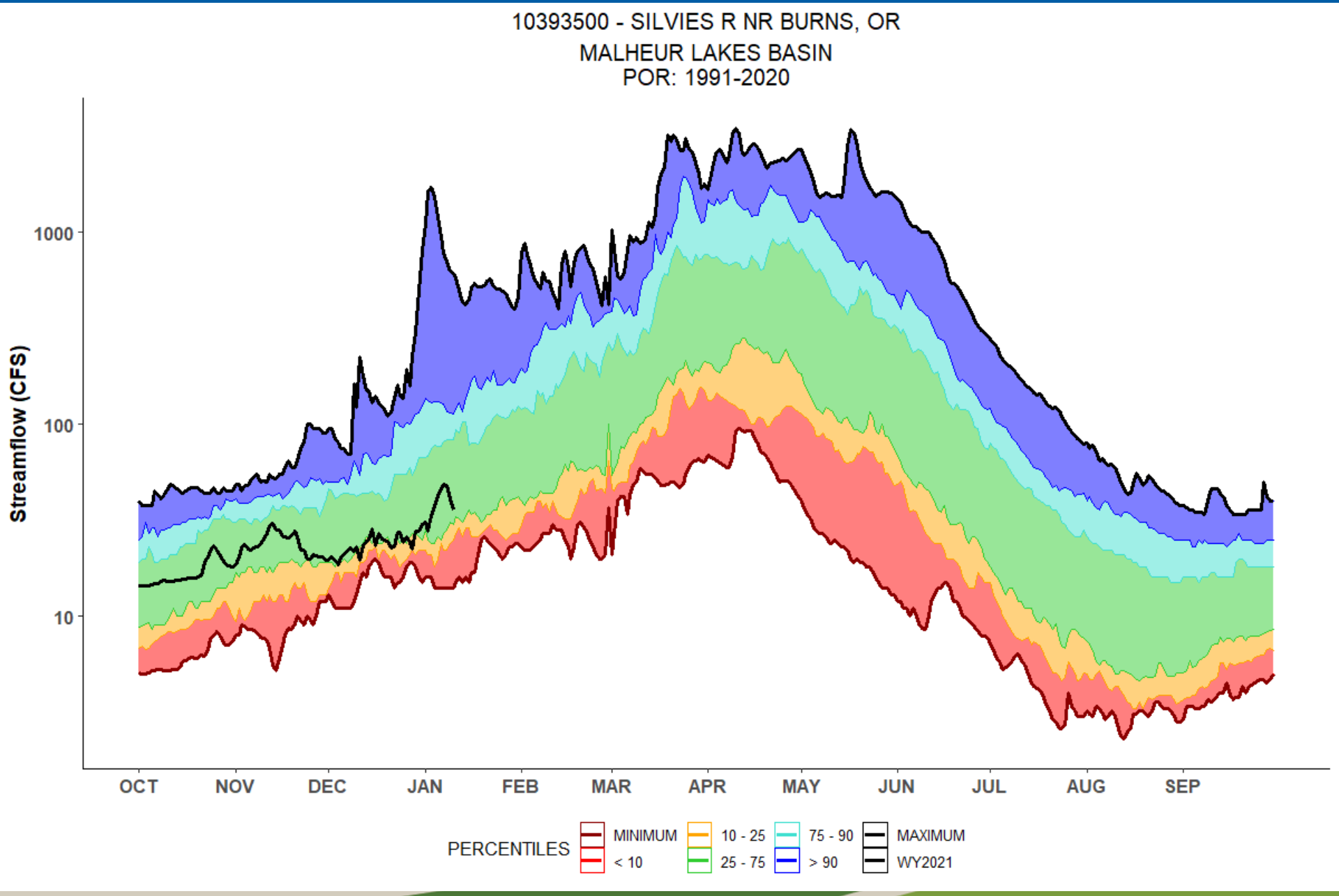

WESTERN BASINS
% of Average Streamflow - WY 2022
% of Average
MID COAST
NORTH COAST
ROGUE
SANDY
SOUTH COAST
UMPQUA
WILLAMETTE
0
50
100
150
200
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CATEGORY
CUMULATIVE
MONTHLY

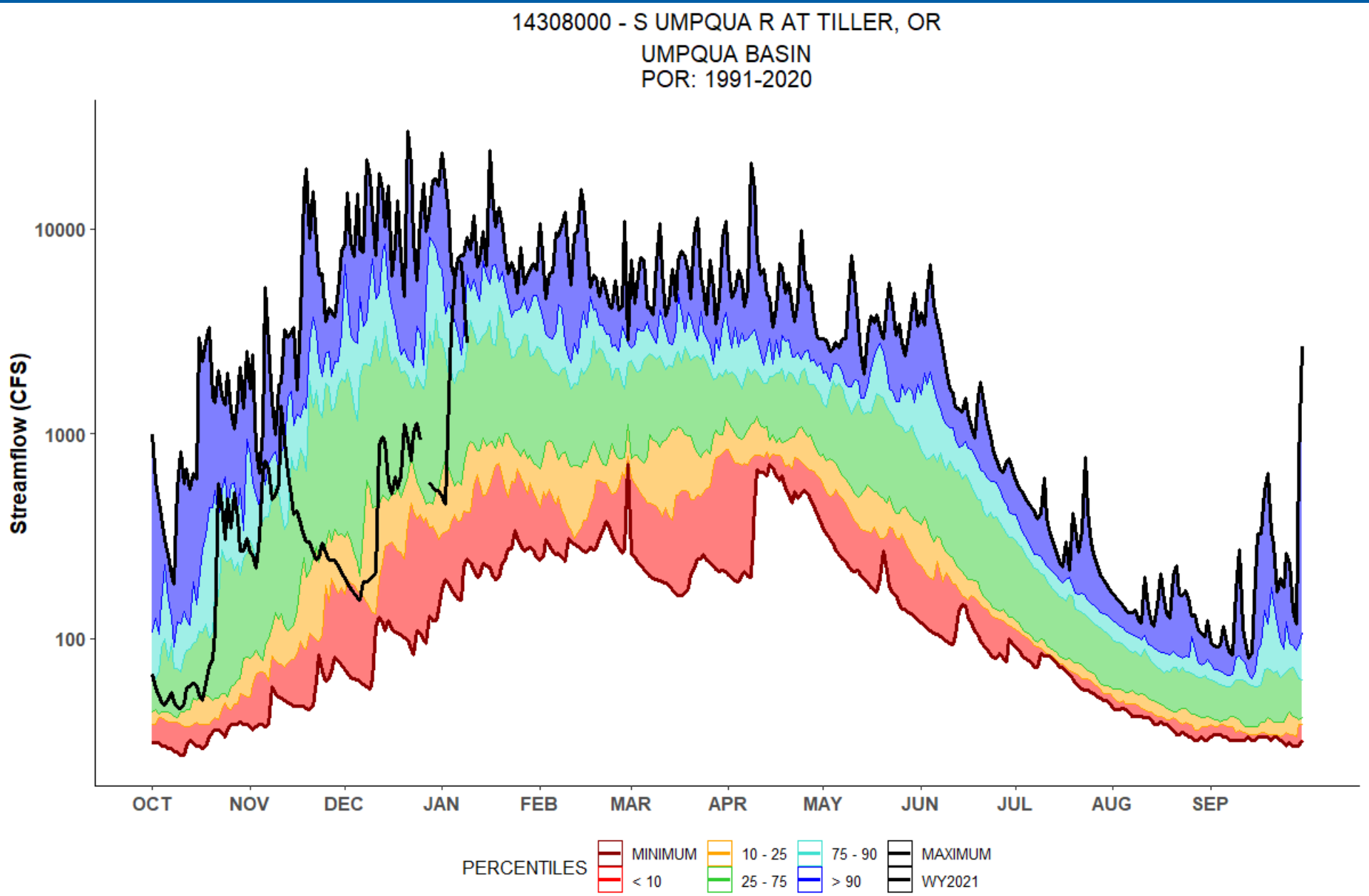

CENTRAL BASINS
% of Average Streamflow - WY 2022
% of Average
150
100
50
0
DESCHUTES
DSE AND SUMMER LA
HOOD
JOHN DAY
KLAMATH
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CATEGORY
CUMULATIVE
MONTHLY

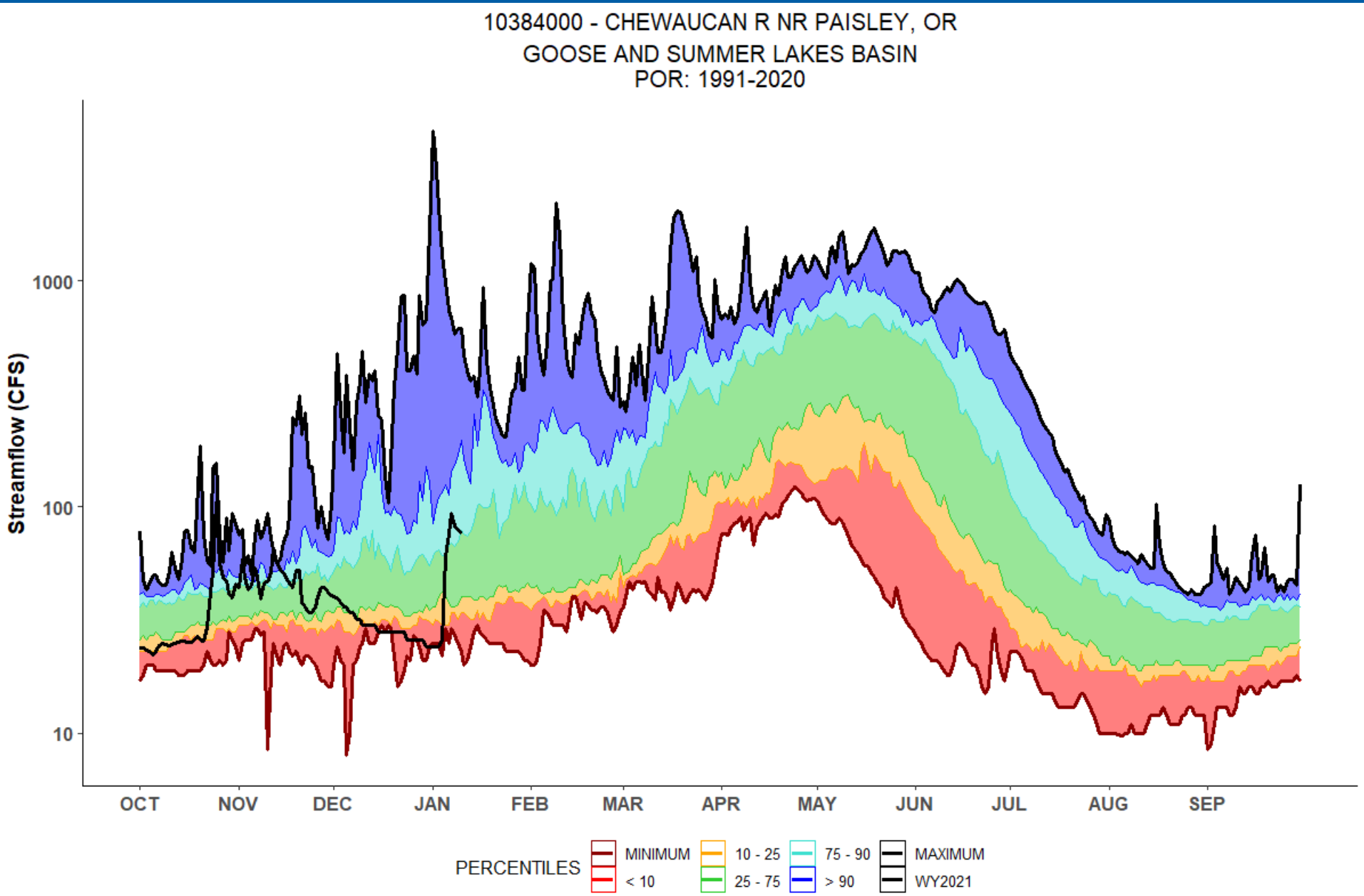

EASTERN BASINS
% of Average Streamflow - WY 2022
% of Average
150
100
50
0
GRANDE RONDE
MALHEUR
MALHEUR LAKES
POWDER
UMATILLA
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
CATEGORY
CUMULATIVE
MONTHLY


14040500 - JOHN DAY R AT PICTURE GORGE, NR DAYVILLE, OR
JOHN DAY BASIN
POR: 1991-2020
Streamflow (CFS)
10000
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2021


13317850 - GRANDE RONDE R BL CLEAR CR, NR STARKEY, OR
GRANDE RONDE BASIN
POR: 1991-2020
Streamflow (CFS)
300
100
30
10
3
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2021


10393500 - SILVIES R NR BURNS, OR
MALHEUR LAKES BASIN
POR: 1991-2020
Streamflow (CFS)
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2021


14308000 - S UMPQUA R AT TILLER, OR
UMPQUA BASIN
POR: 1991-2020
Streamflow (CFS)
10000
1000
100
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2021


10384000 - CHEWAUCAN R NR PAISLEY, OR
GOOSE AND SUMMER LAKES BASIN
POR: 1991-2020
Streamflow (CFS)
1000
100
10
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
PERCENTILES
MINIMUM
< 10
10 - 25
25 - 75
75 - 90
> 90
MAXIMUM
WY2021

OREGON
WATER RESOURCES DEPARTMENT

QUESTIONS?

BUREAU OF RECLAMATION

Reclamation Storage Update

Oregon Water Supply Availability Committee Meeting

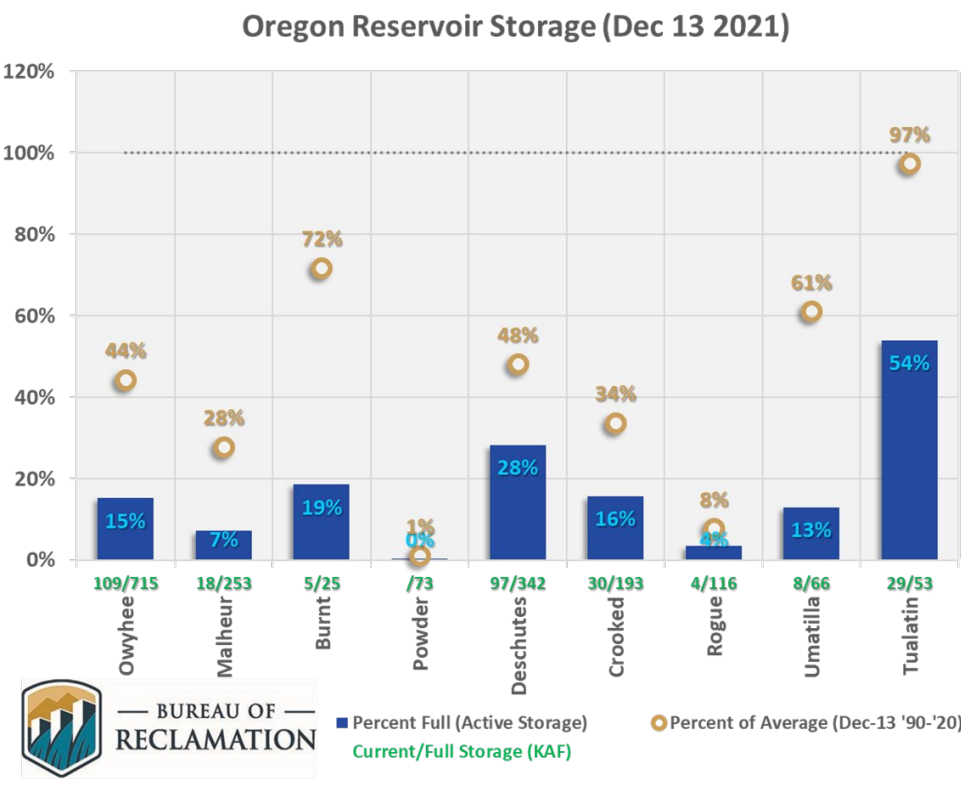
January 12, 2022

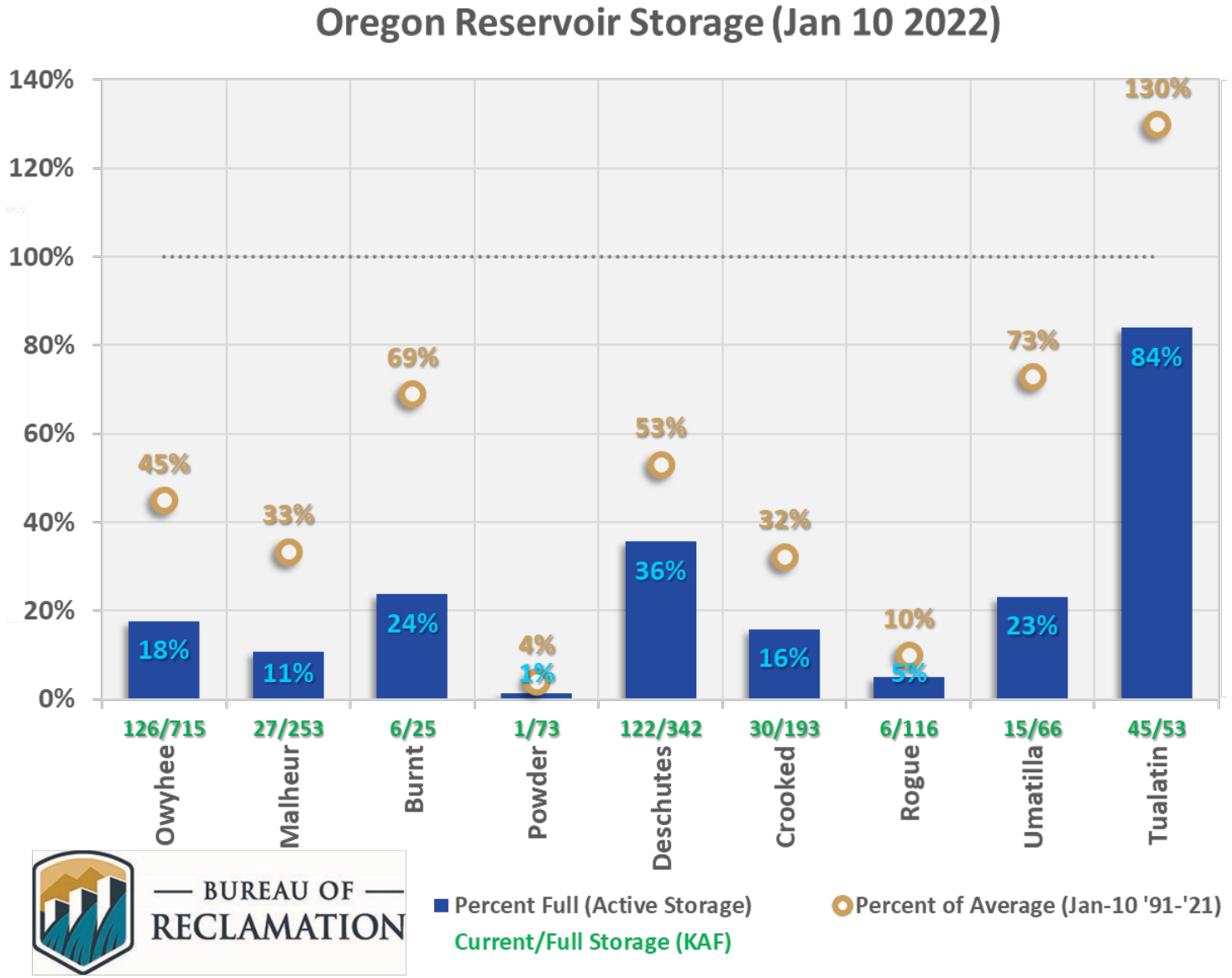
Basin Operations Summary

- Operations Activities:
  - Reclamation storage reservoirs in Oregon continue with typical winter fill operations
  - Flood Risk Management operations occurring at Scoggins

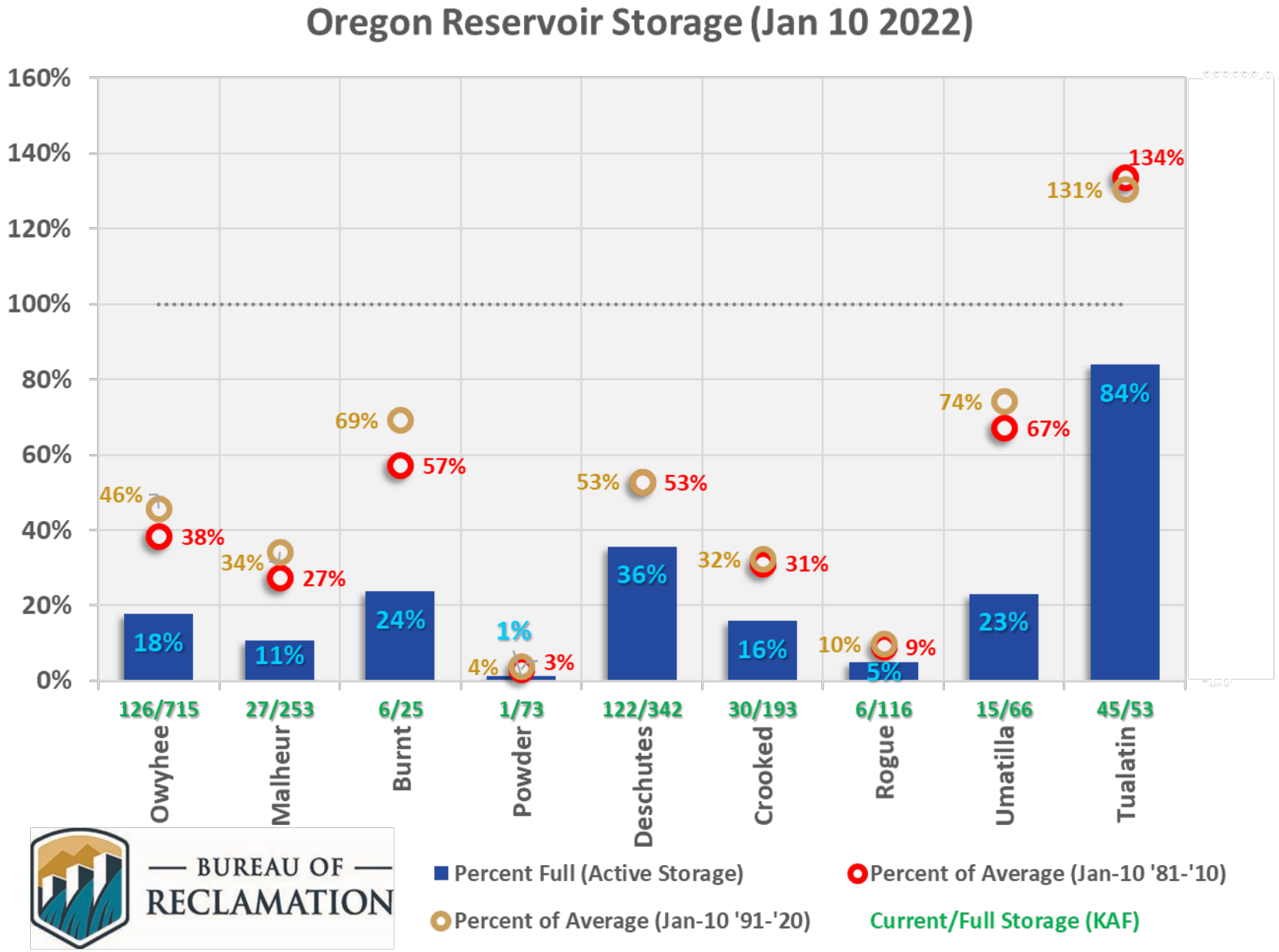
- Water Supply Notes
  - Below Average reservoir content continues at Reclamation Oregon reservoirs (except Scoggins)
  - Need wet conditions to continue, particularly in the central/eastern/southern Oregon basins
  - Most river basins will need above to much above normal runoff this WY to refill

Storage Conditions

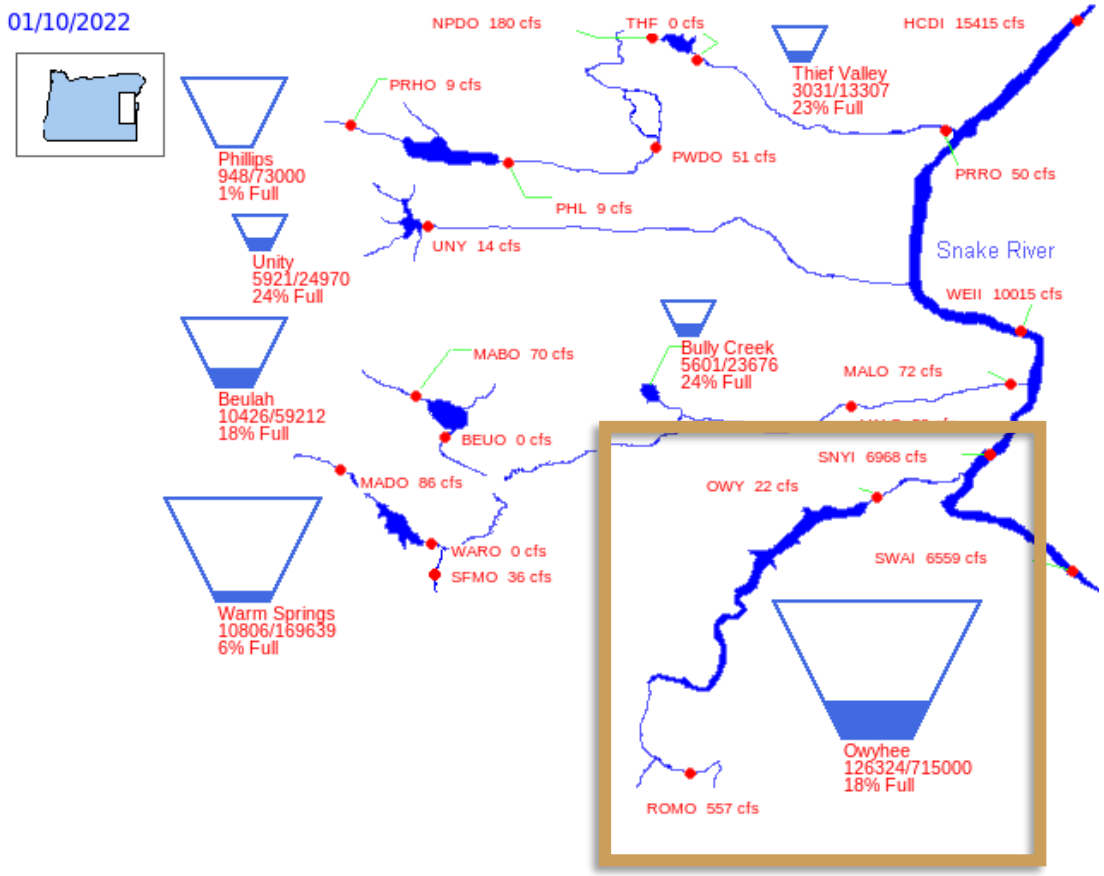


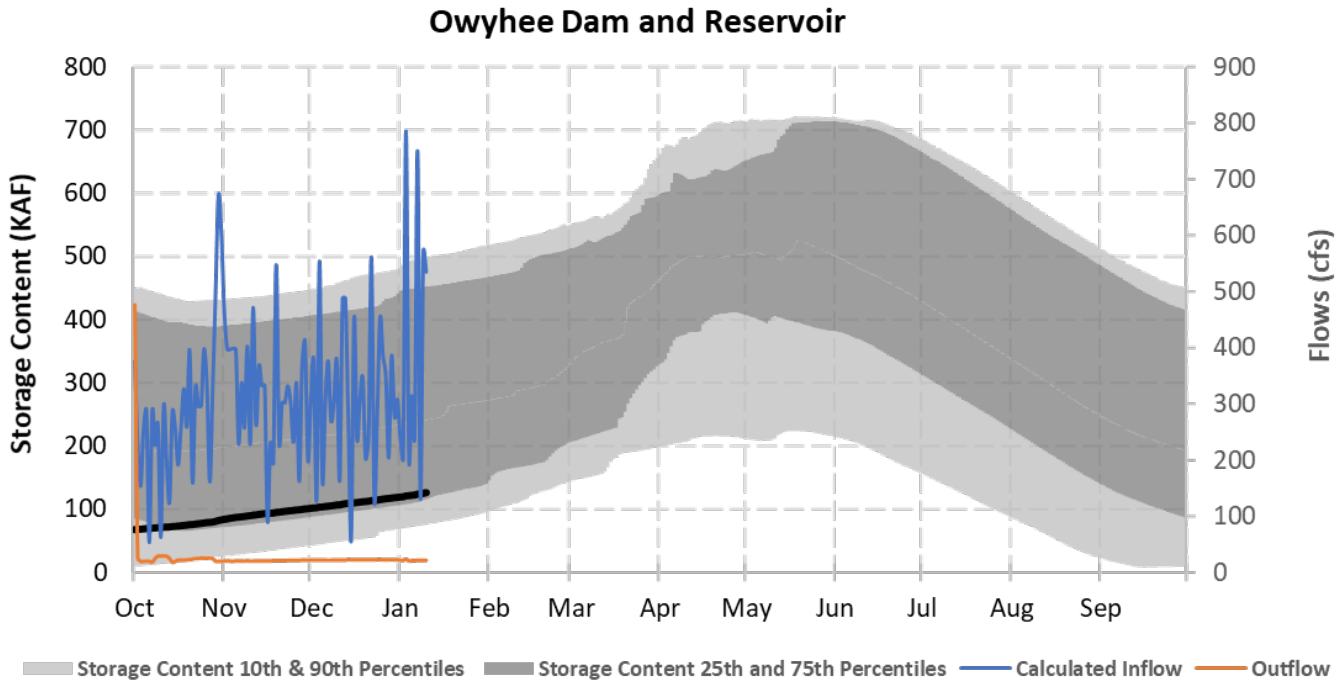


1981-2010 vs. 1991-2020 Average Comparison



Owyhee River Basin

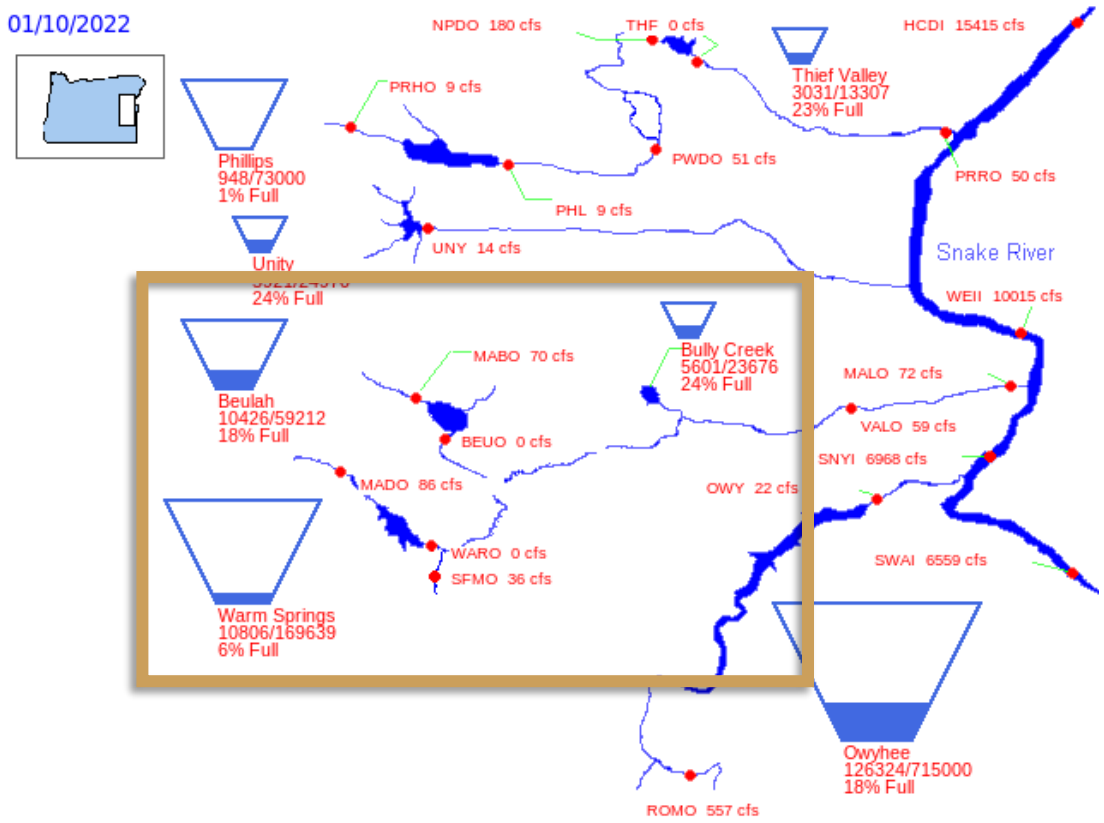


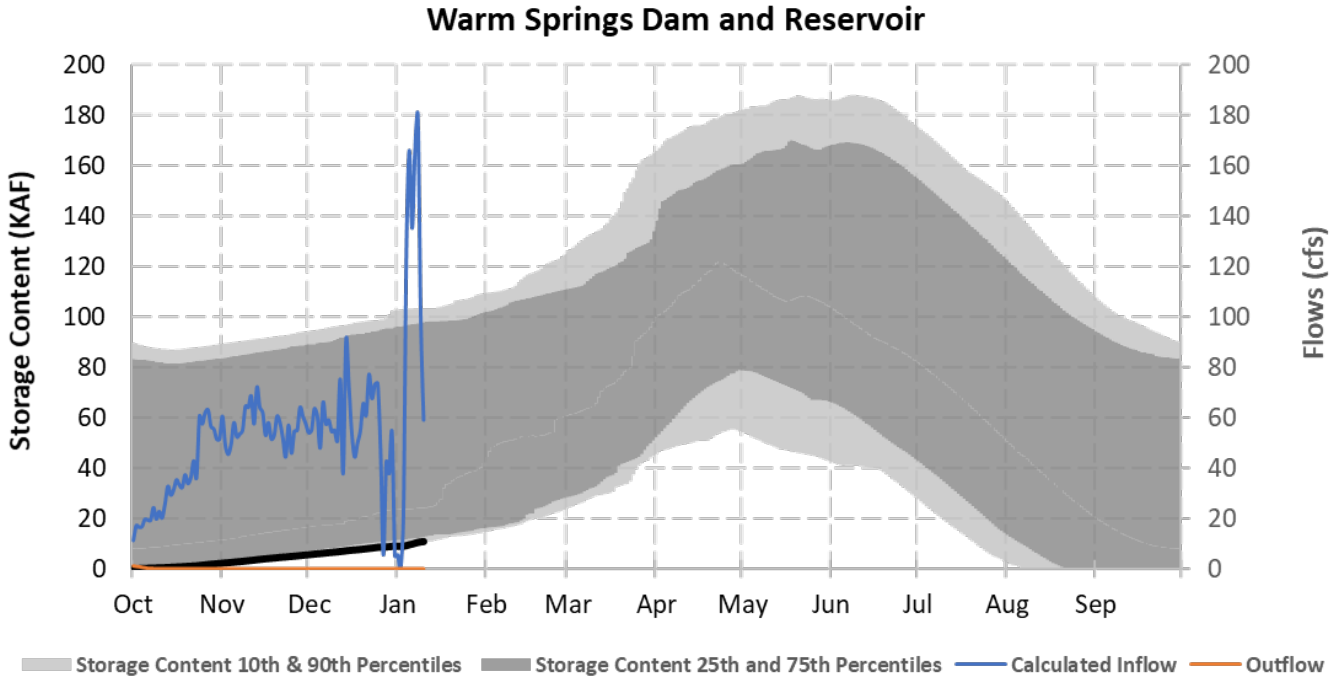


Reclamation January 1 Runoff Forecast
Jan-Jun: 610 kaf (115% 91-20 Ave)

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

Malheur River Basin

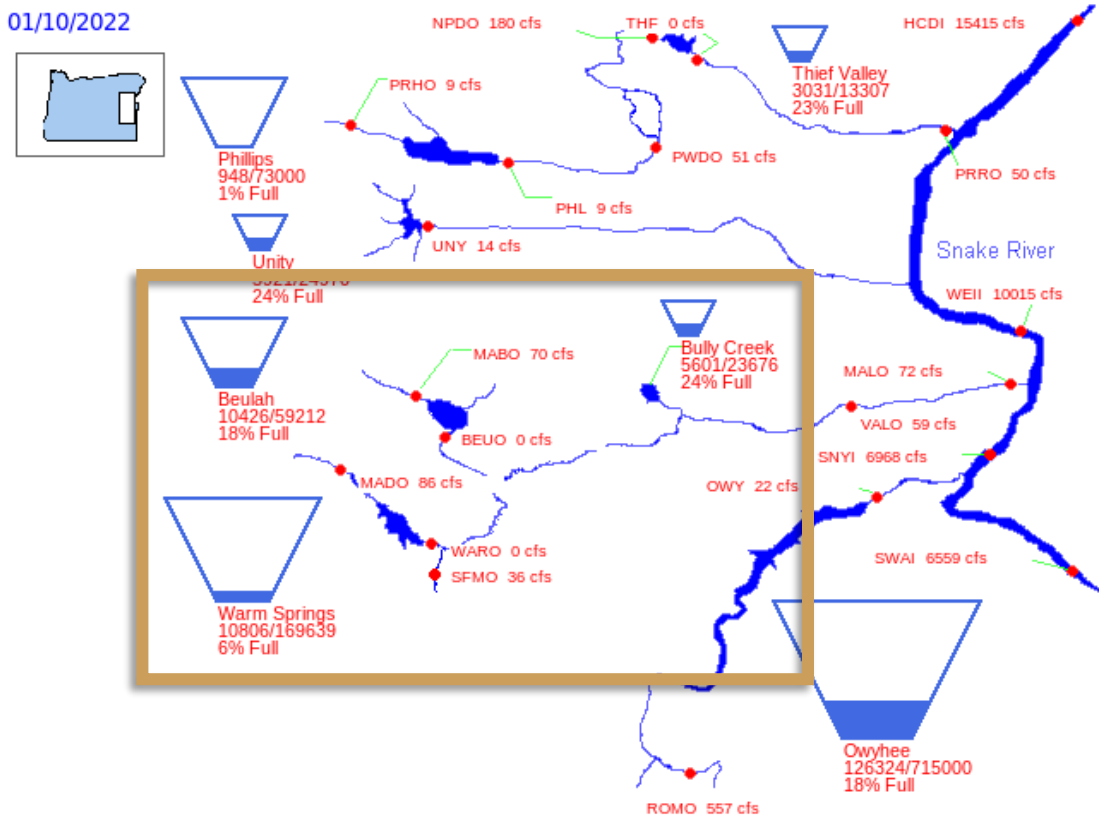


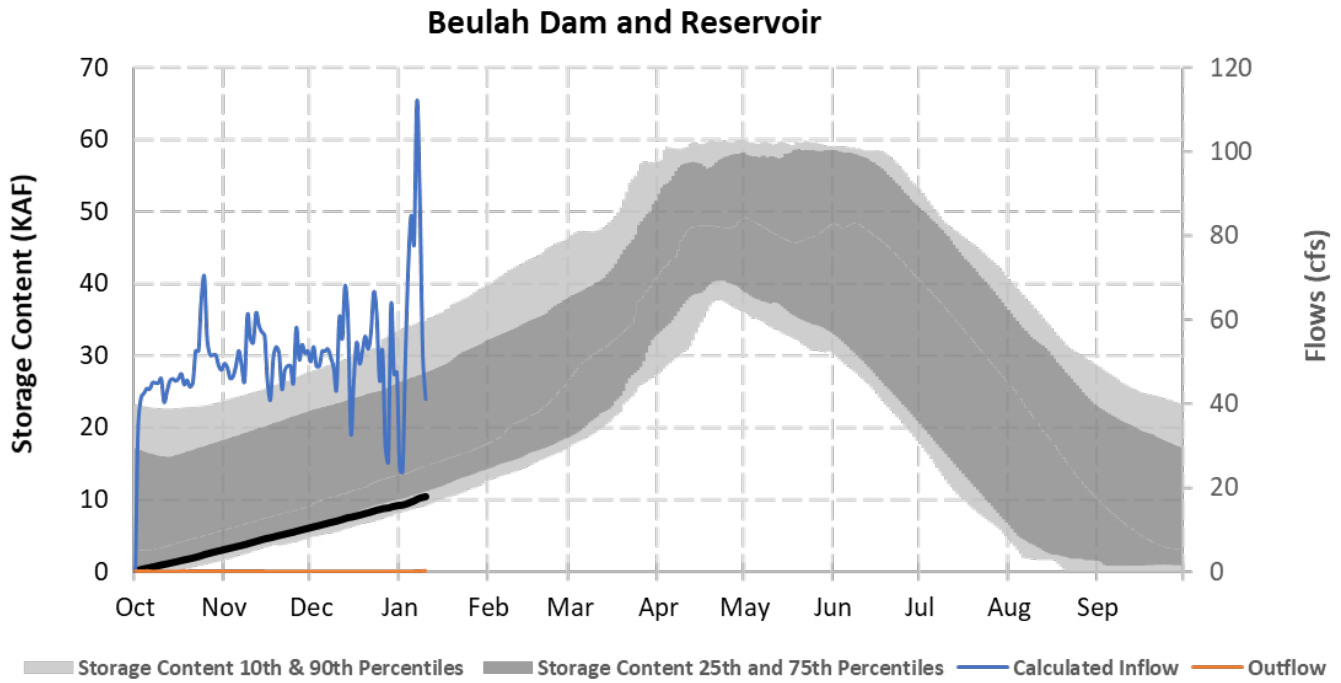


Reclamation January 1 Runoff Forecast
Jan-Jun: 100 kaf (86% 91-20 Ave)

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

Malheur River Basin

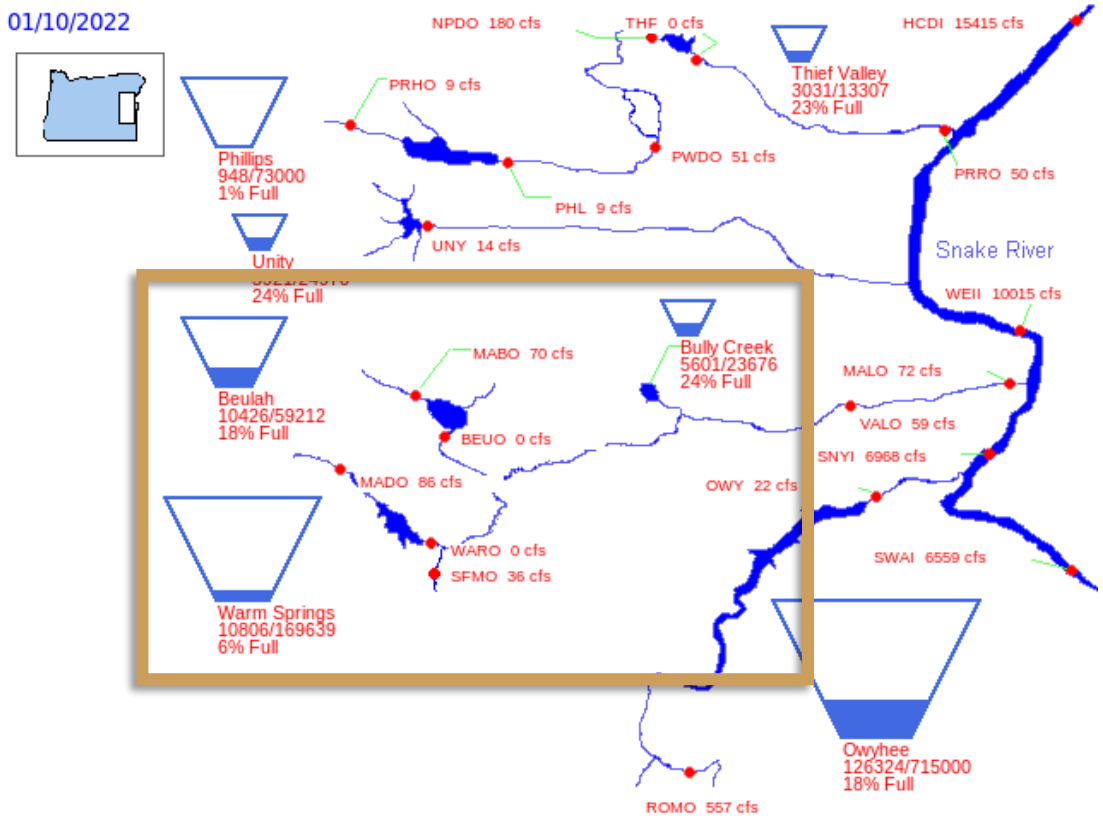


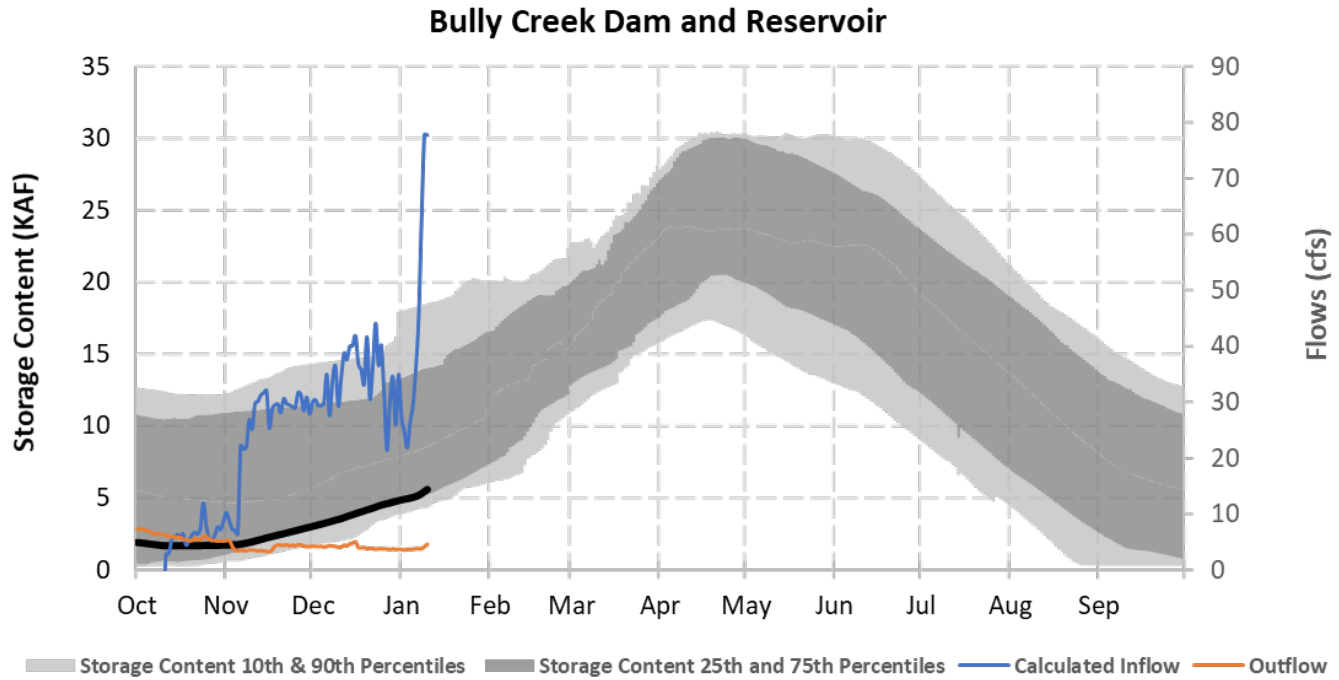


Reclamation January 1 Runoff Forecast
Jan-Jun: 70 kaf (88% 91-20 Ave)

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

Malheur River Basin

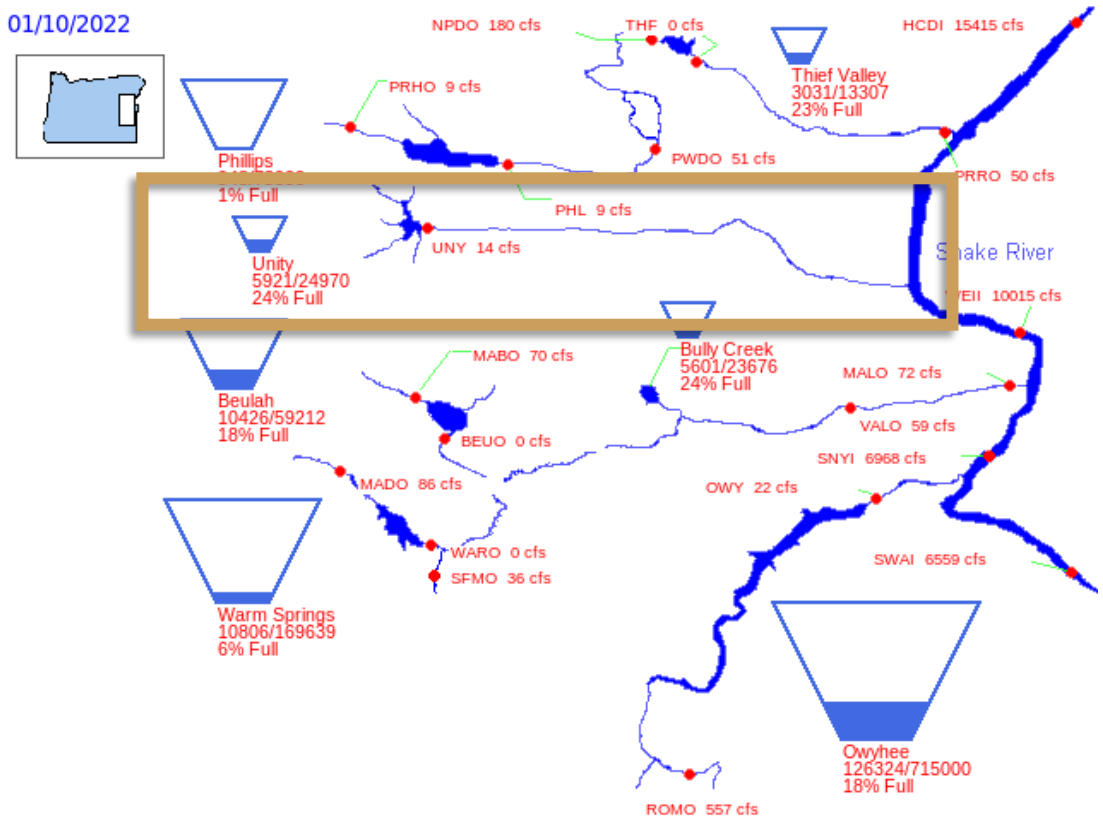


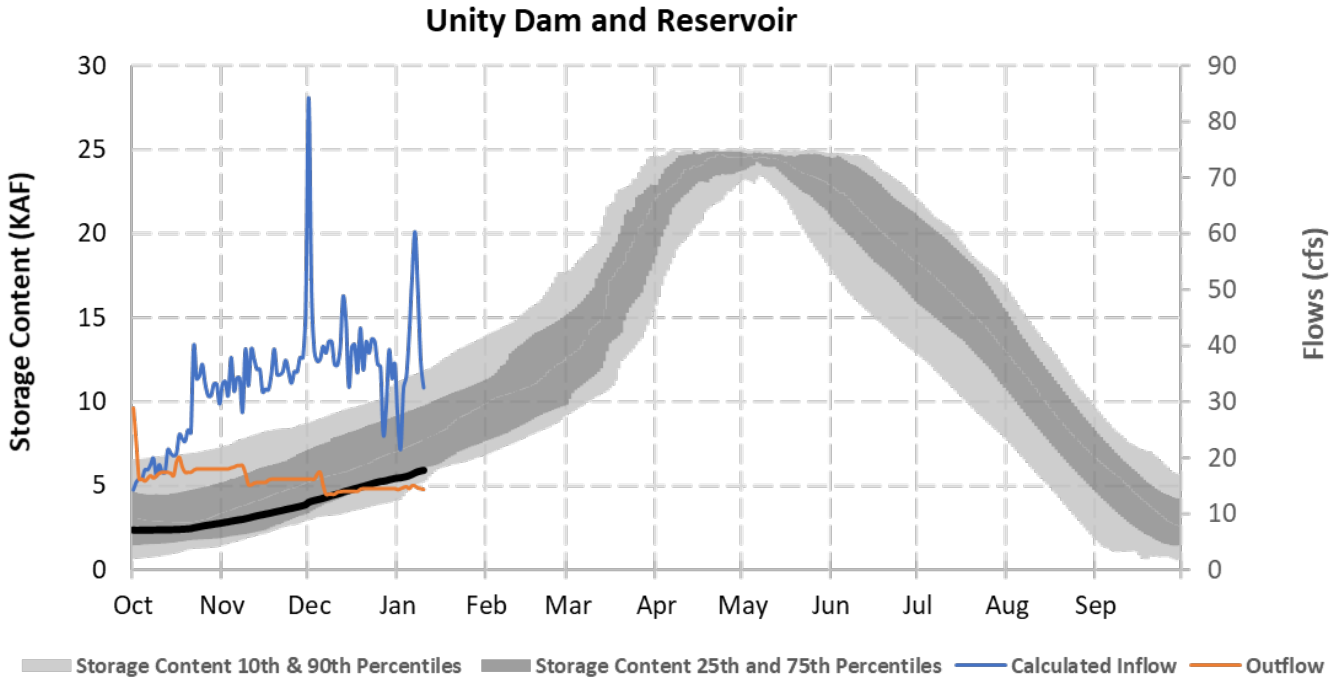


Reclamation January 1 Runoff Forecast
Jan-Jun: 24 kaf (81% 91-20 Ave)

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

Burnt River Basin

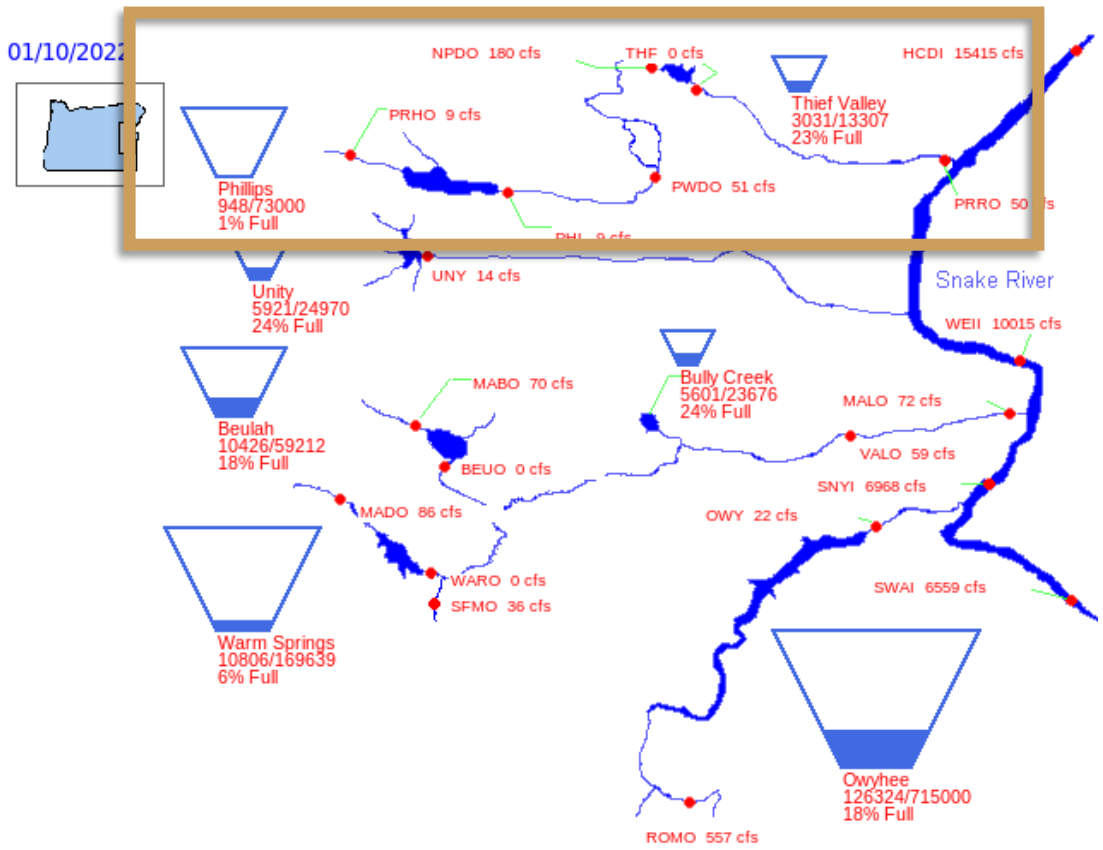


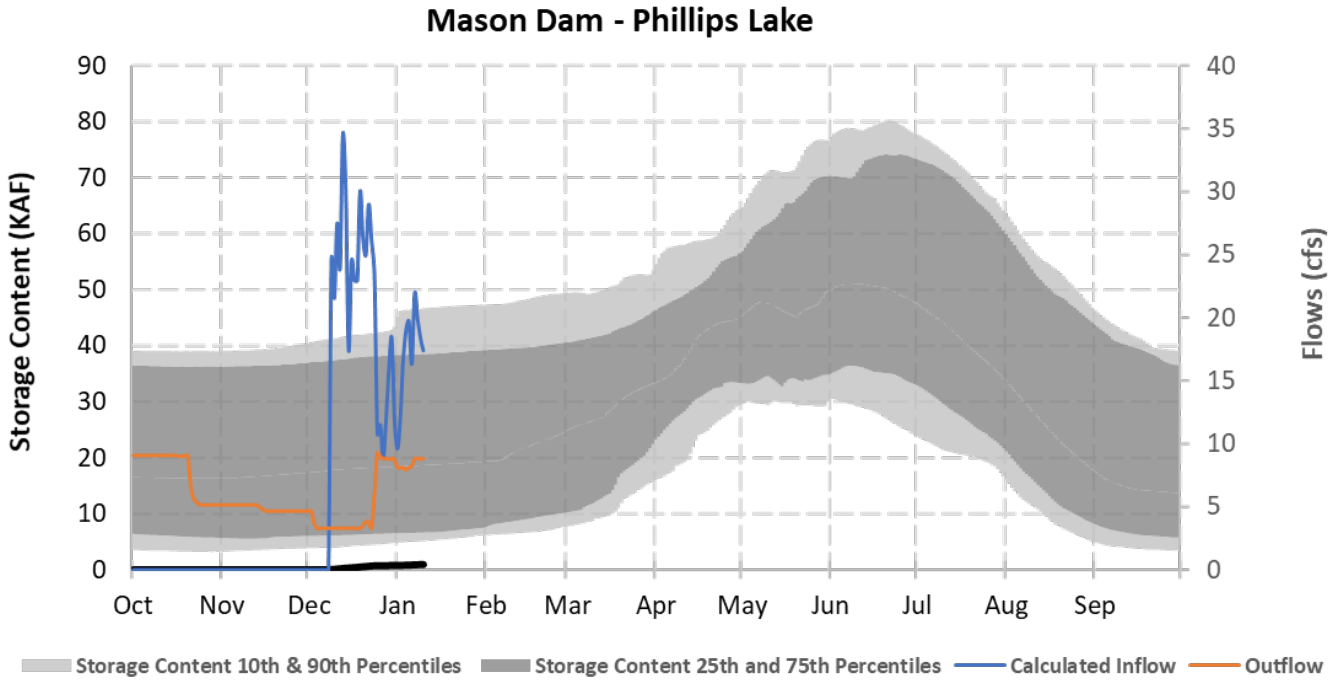


Reclamation January 1 Runoff Forecast
Jan-Jun: 45 kaf (89% 91-20 Ave)

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

Powder River Basin

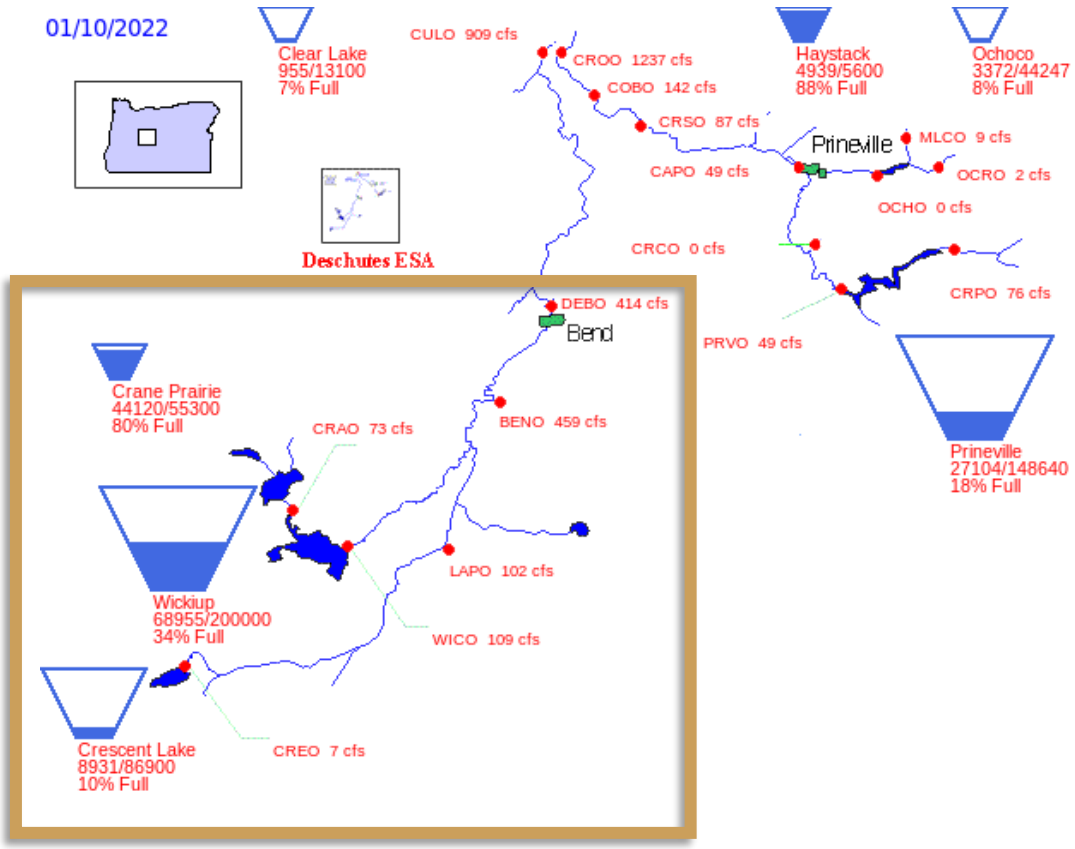


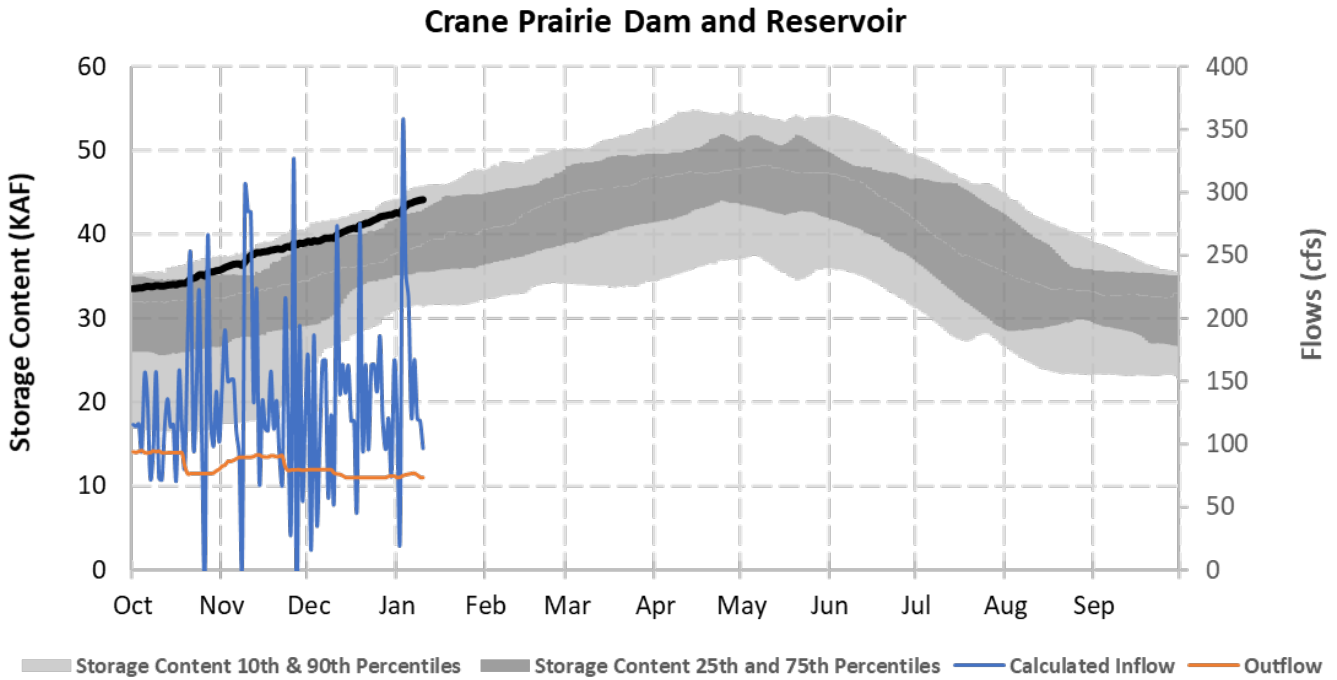


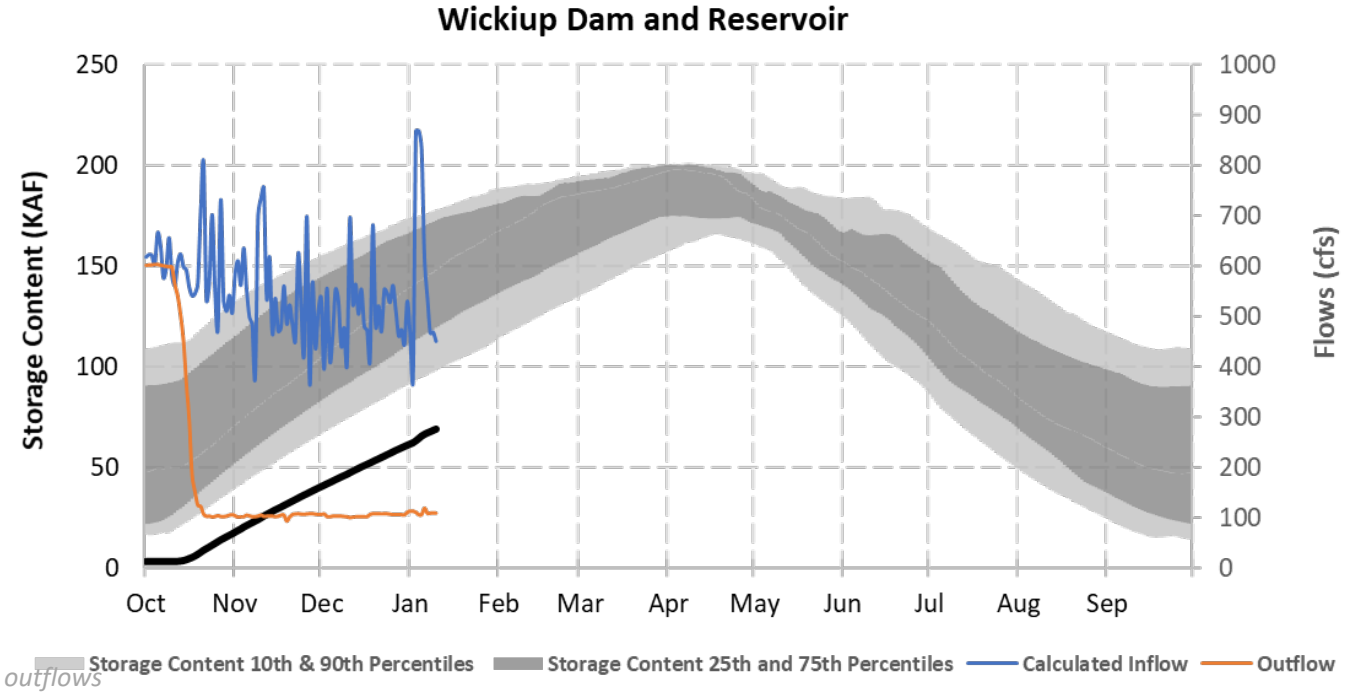
Reclamation January 1 Runoff Forecast
Jan-Jul: 69 kaf (97% 91-20 Ave)

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

Deschutes River Basin

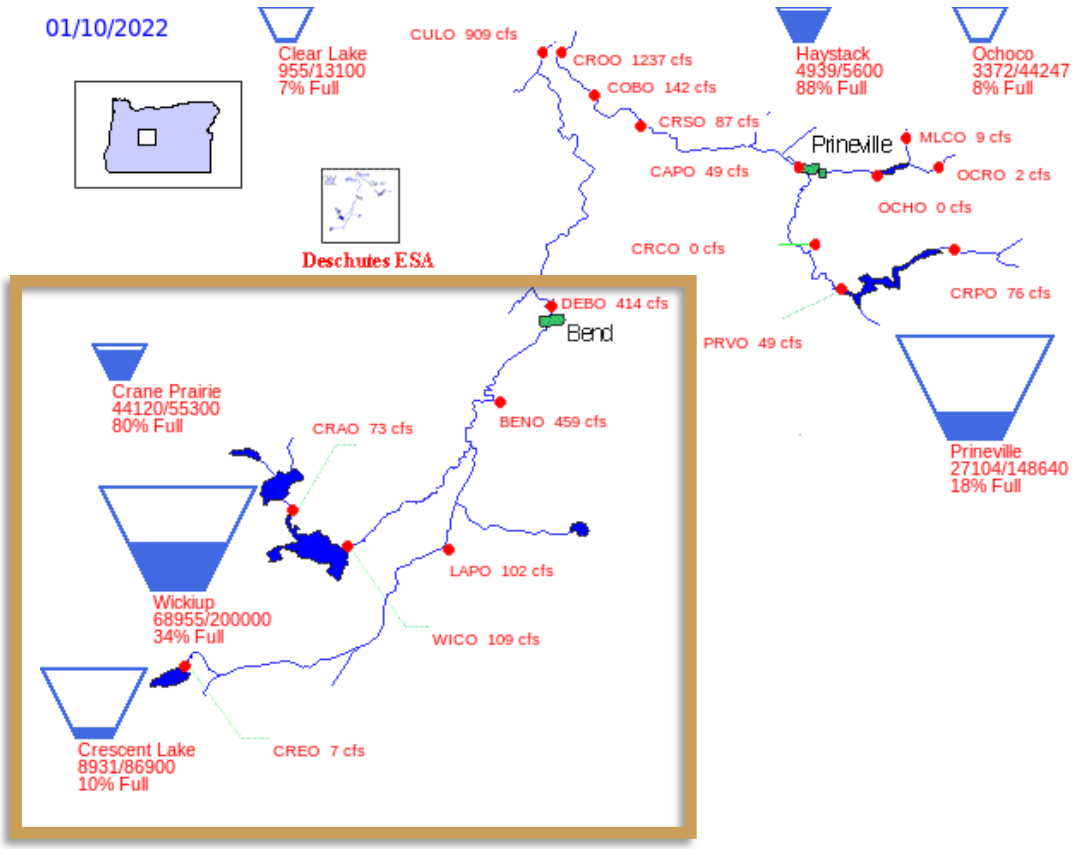


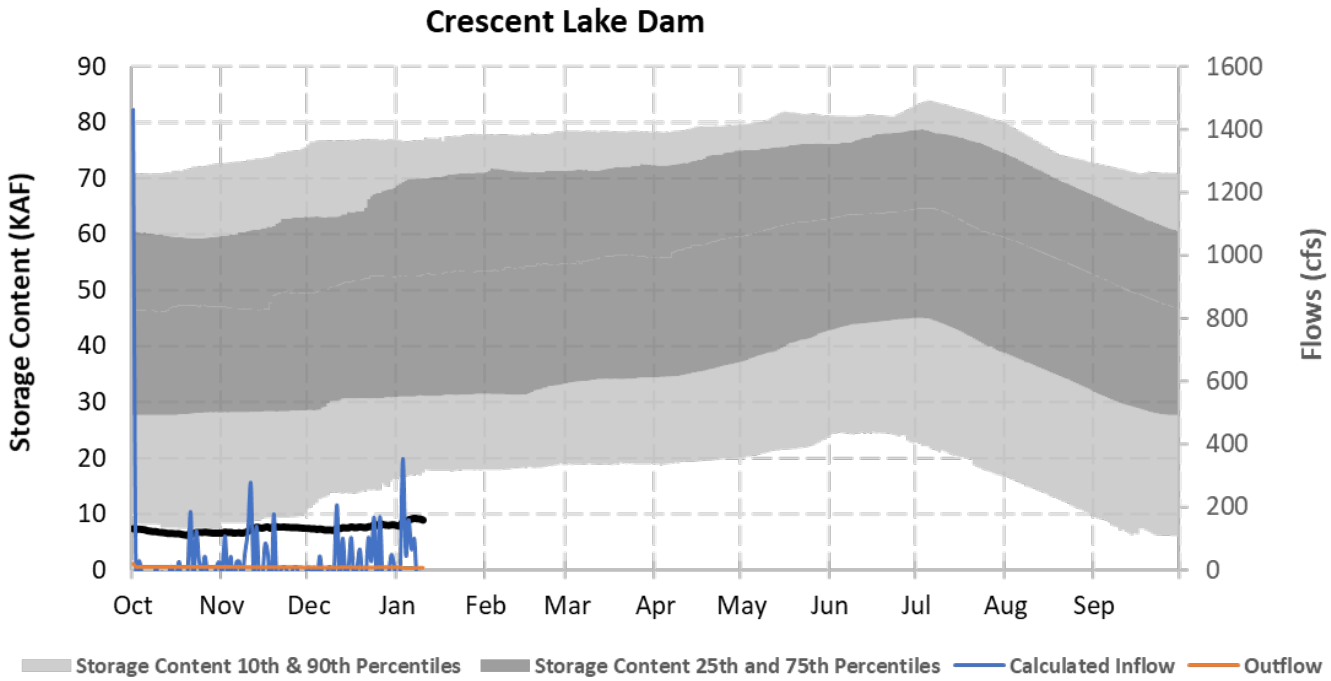




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

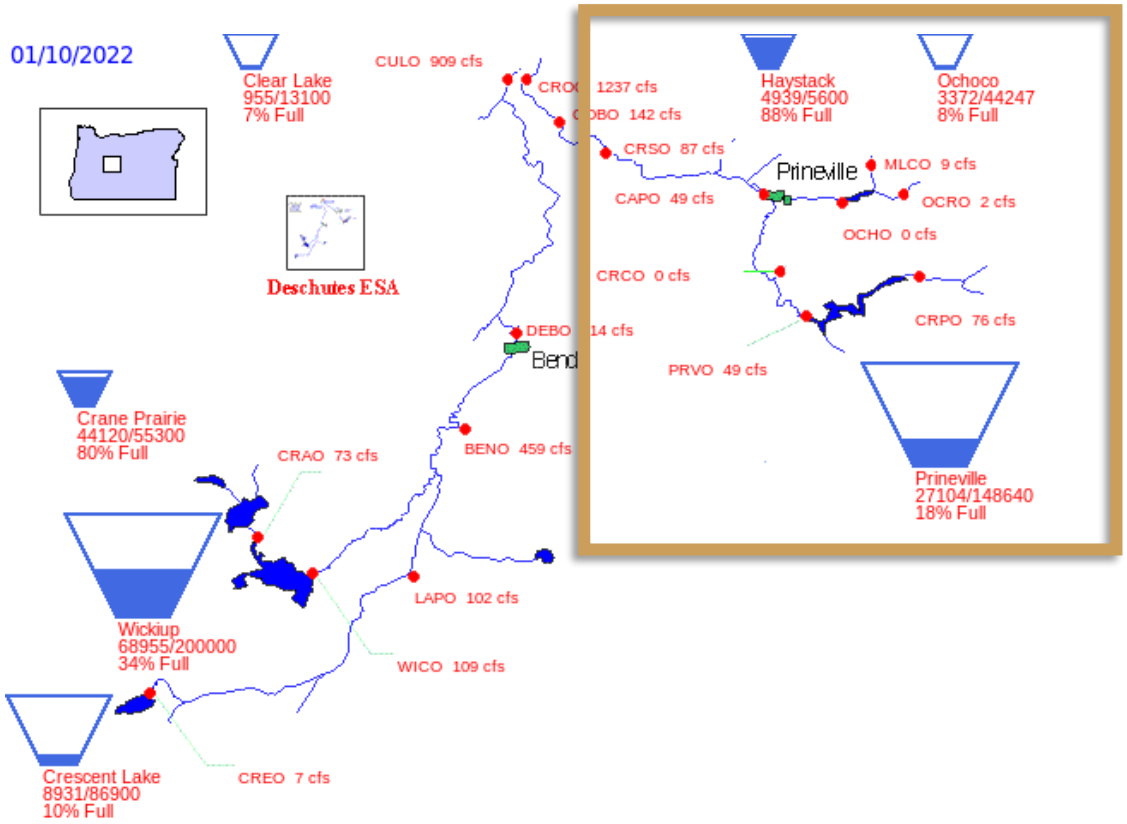
Deschutes River Basin

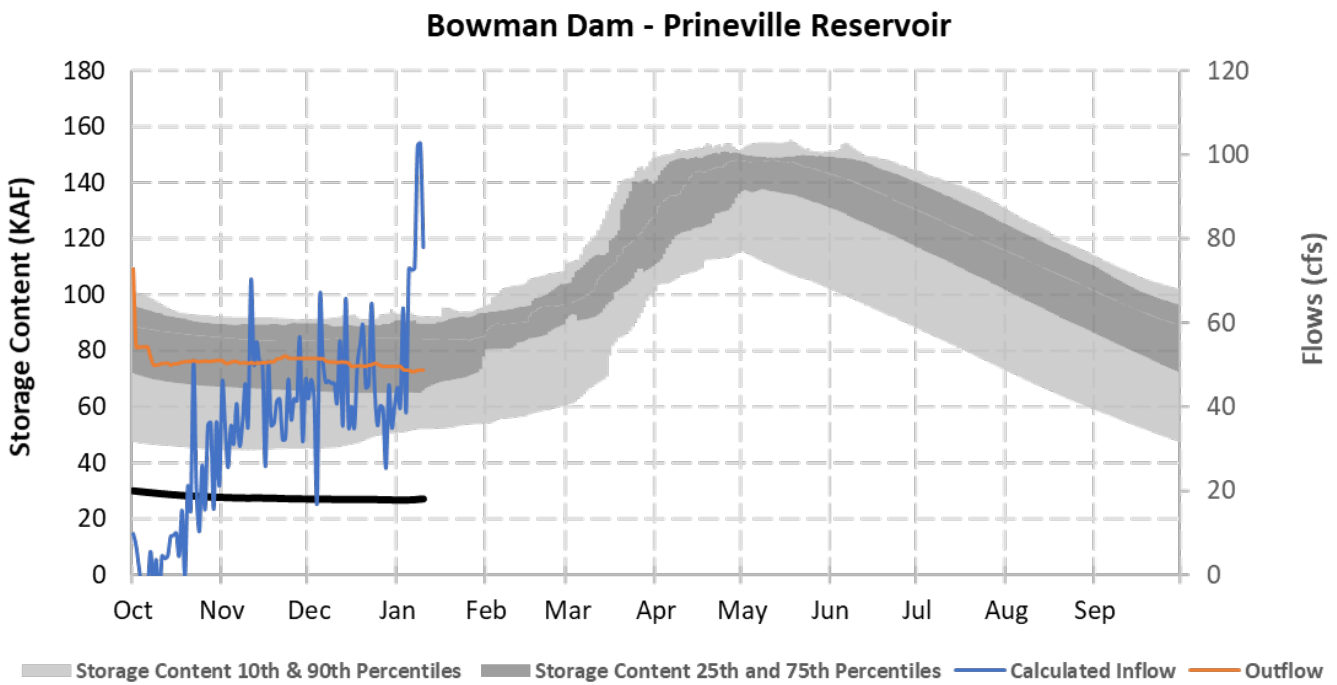




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Crooked River Basin

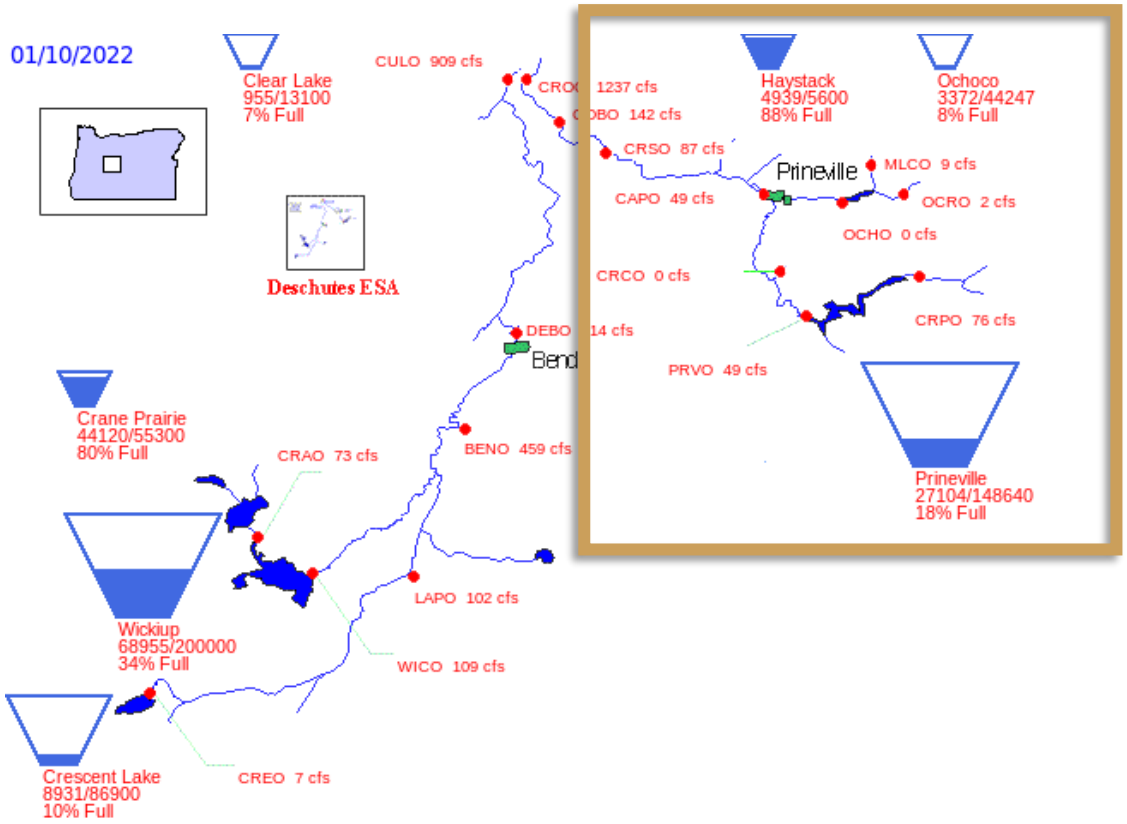


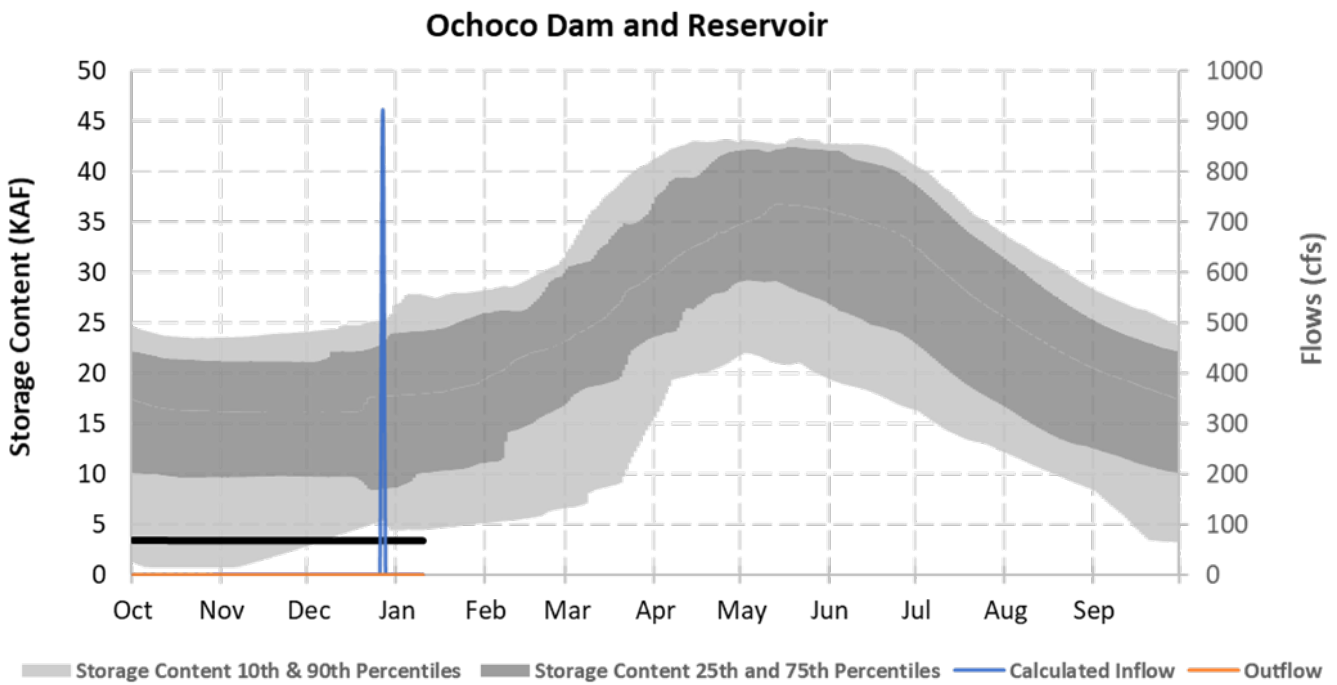


Reclamation January 1 Runoff Forecast
Jan-Aug: 166 kaf (91% 91-20 Ave)

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

Crooked River Basin

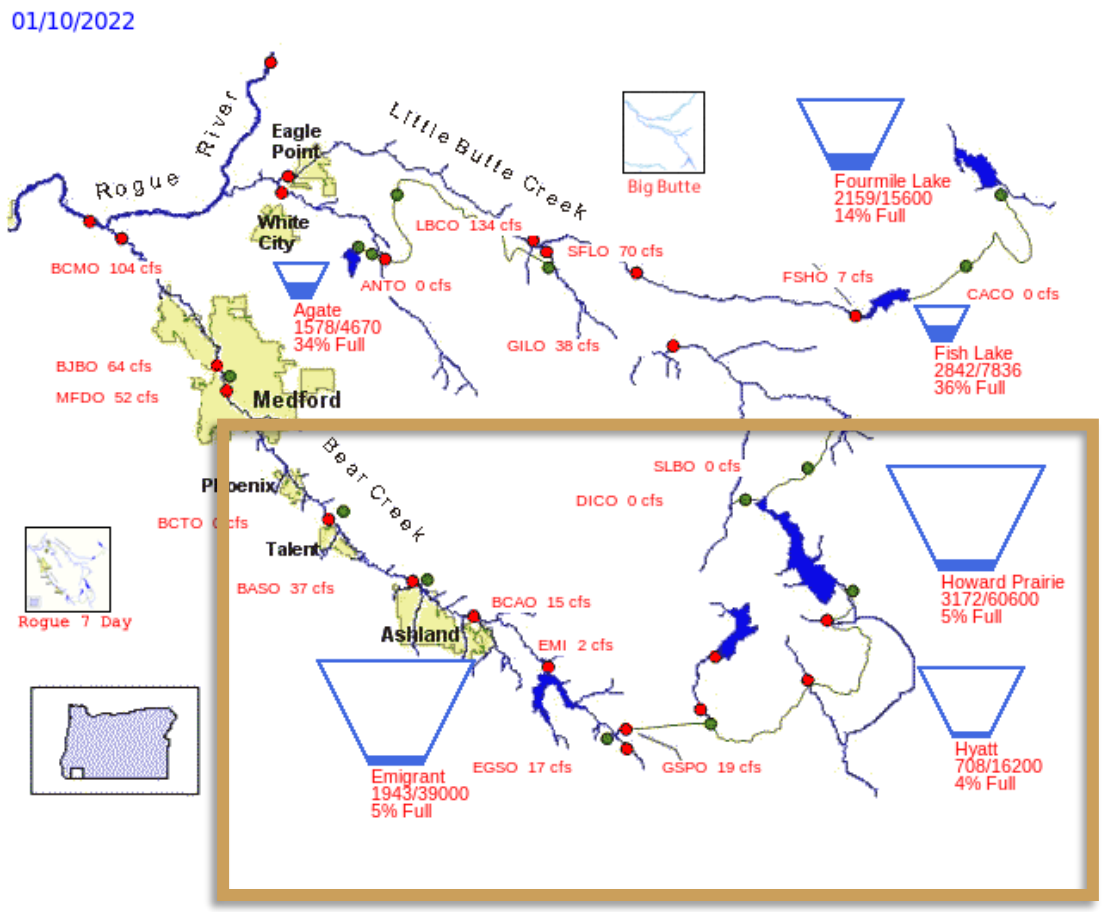


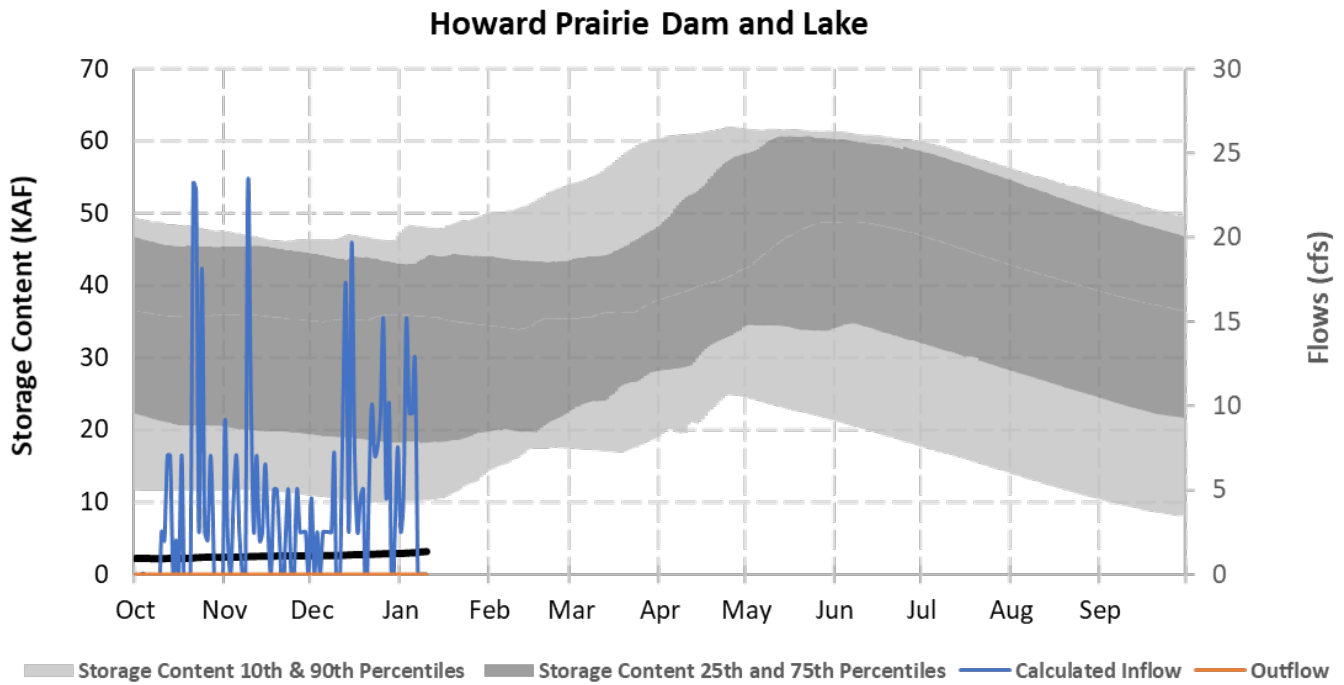


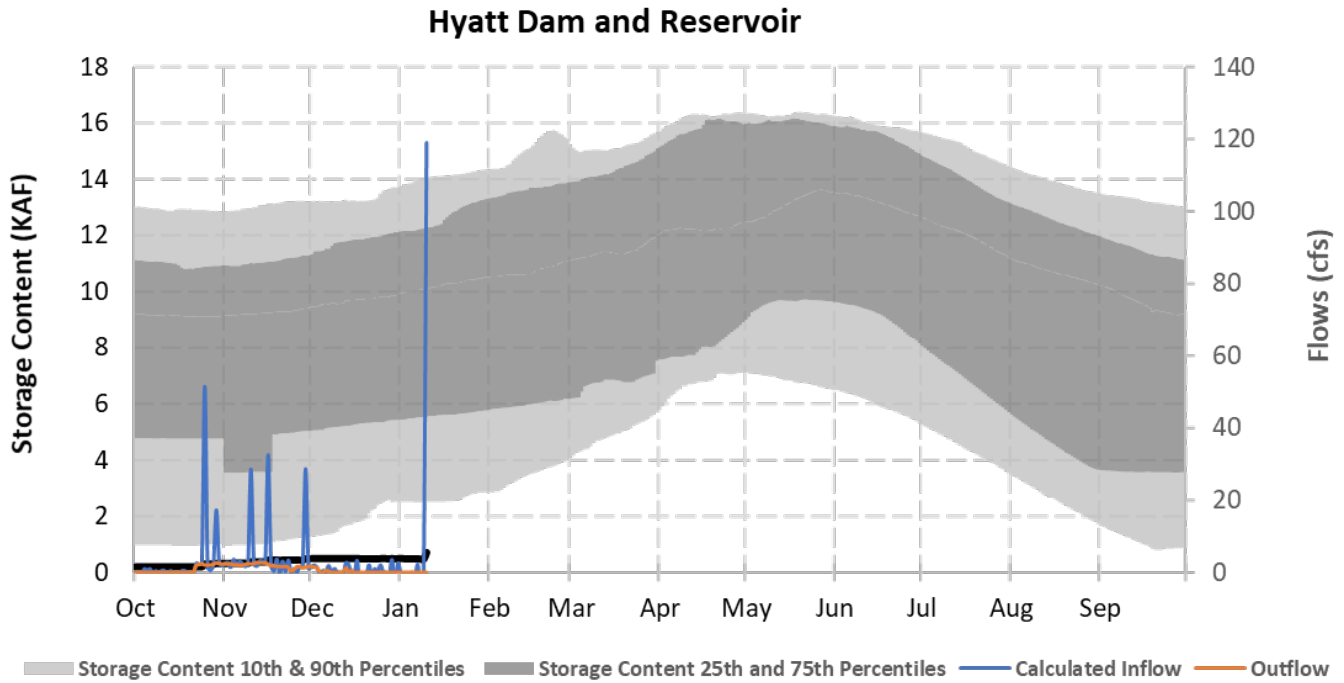
Reclamation January 1 Runoff Forecast
Jan-Jun: 35 kaf (88% 91-20 Ave)

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

Rogue River Basin



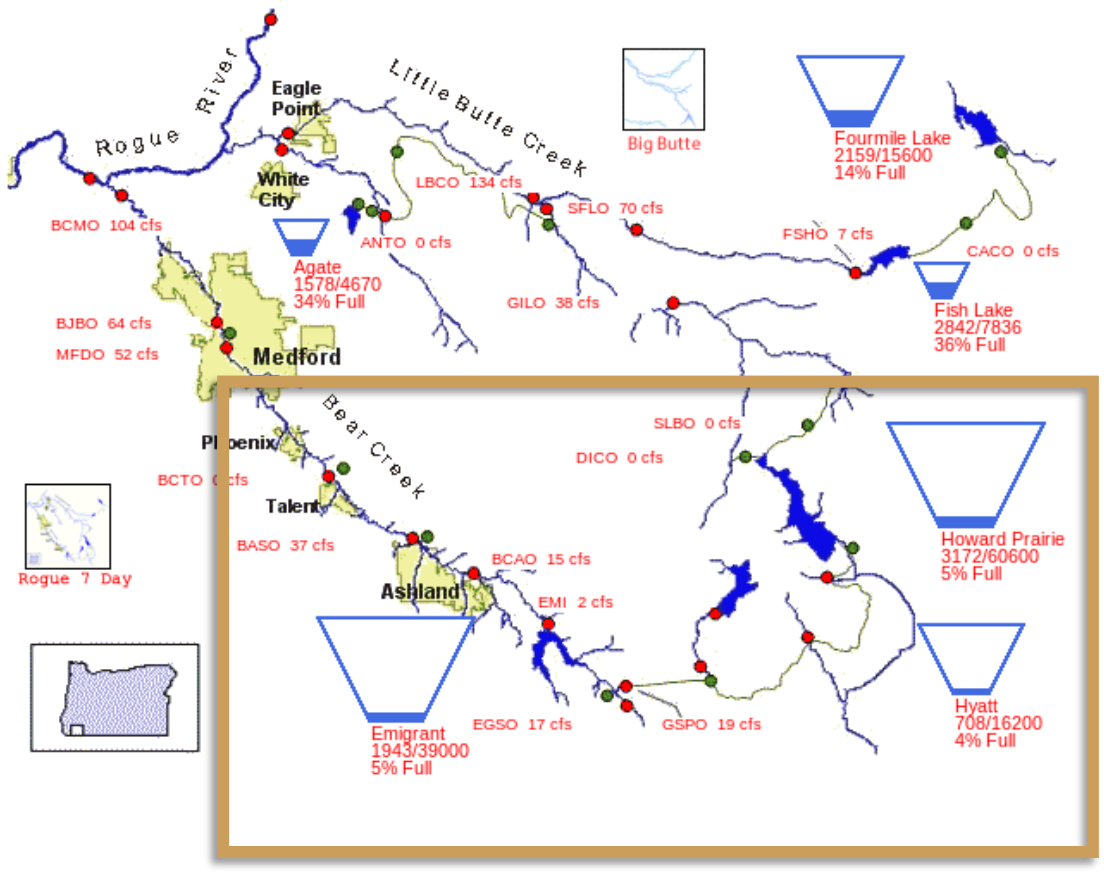


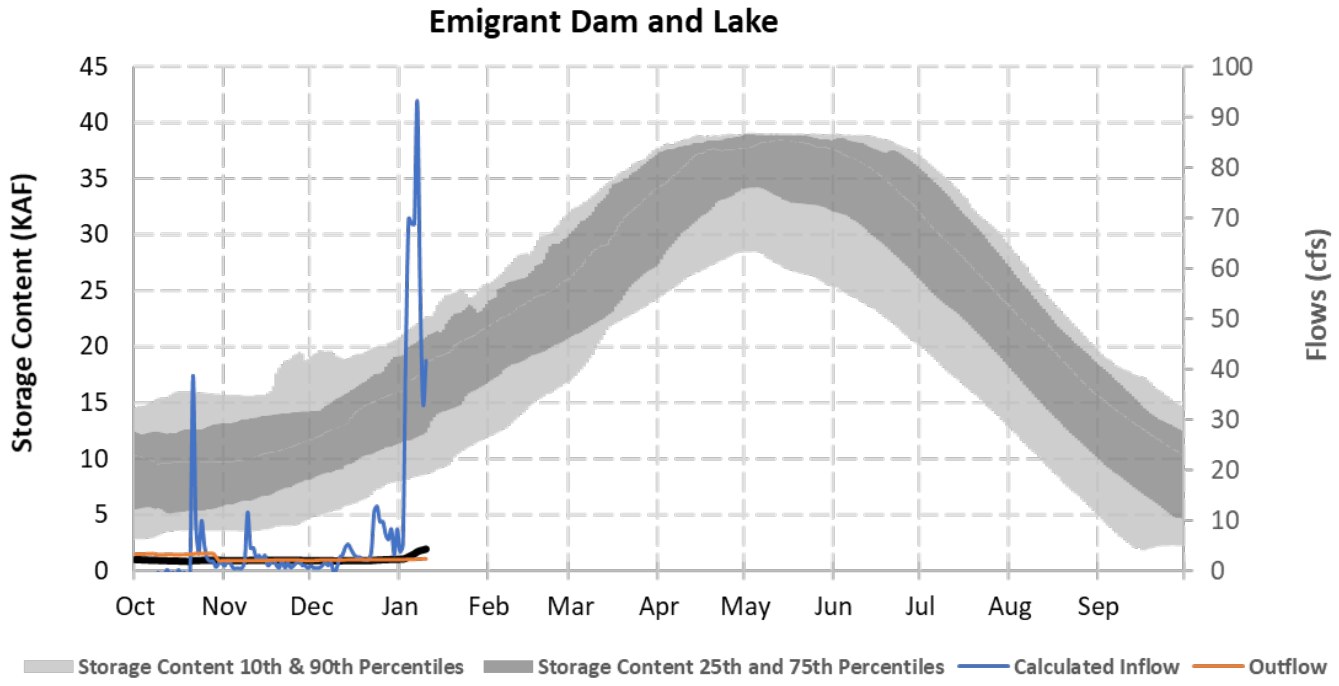


*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Rogue River Basin

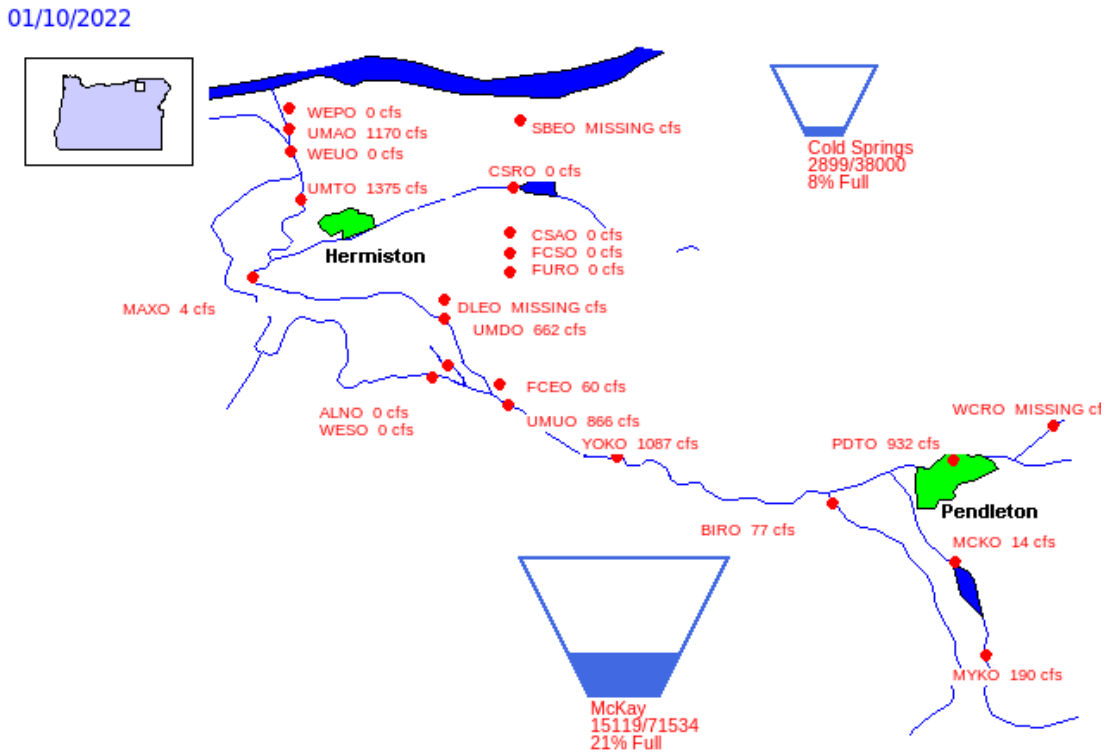
01/10/2022

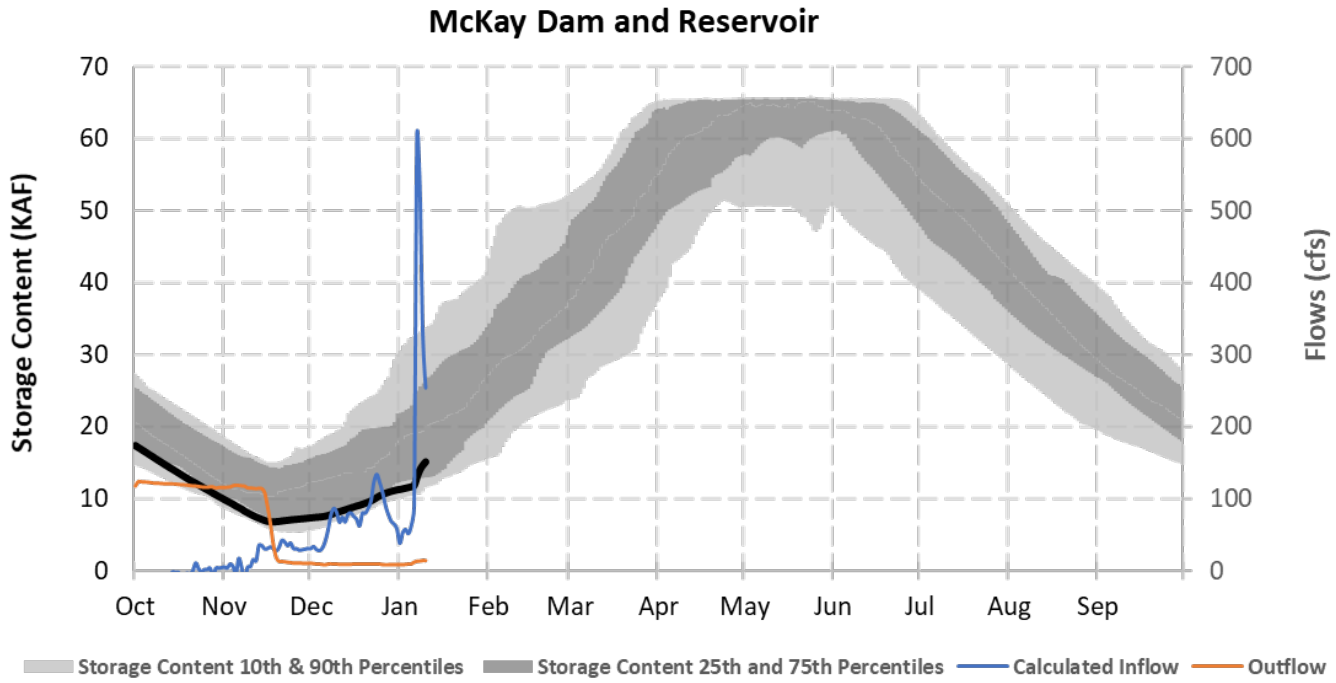




*Graphed projections are the 10th, 50th, and 90th percentile storage values based on historical inflows and outflows

Umatilla River Basin

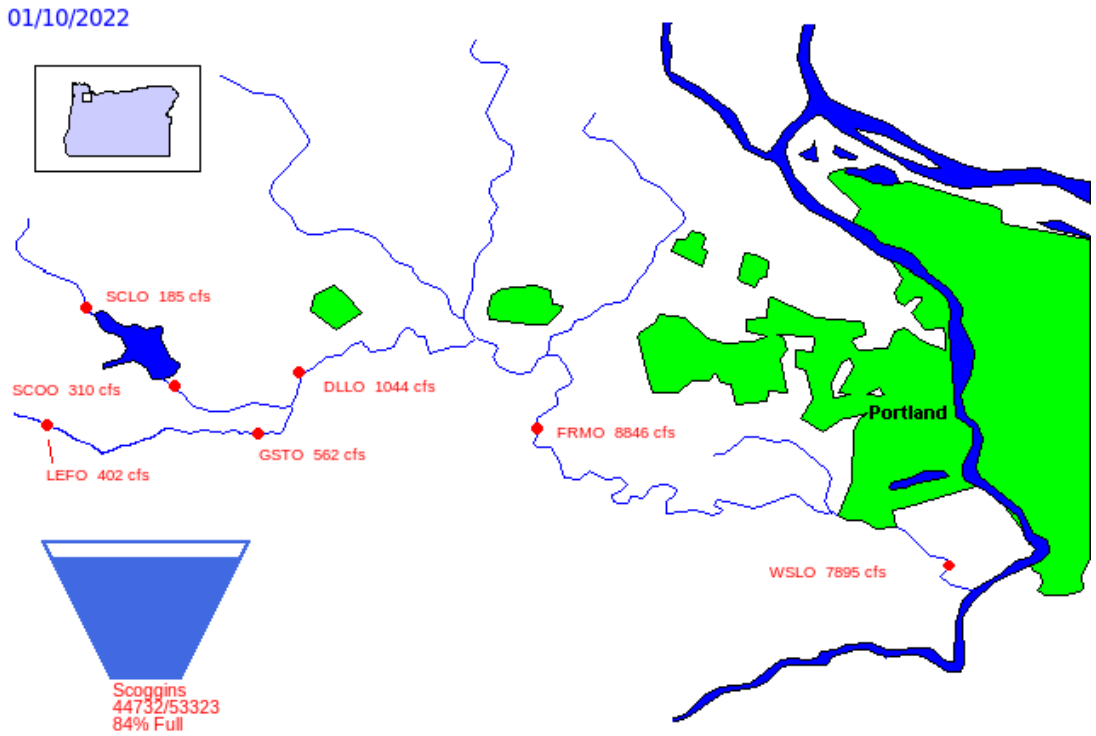


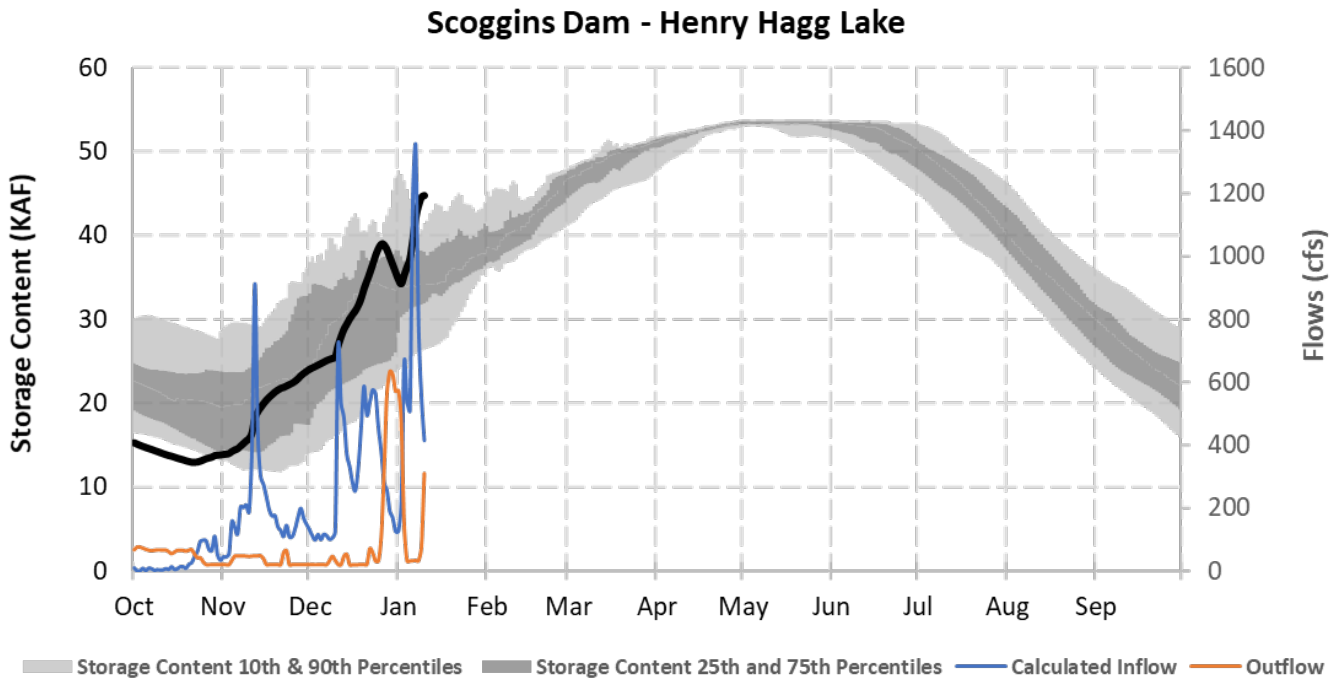


Reclamation January 1 Runoff Forecast
Jan-Jun: 75 kaf (107% 91-20 Ave)

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

Tualatin River Basin





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

Peter Cooper – Columbia Pacific Northwest Regional Office

pcooper@usbr.gov

208.378.5037

BUREAU OF RECLAMATION