# nofi: <br> NEATH <br> Northwest River Forecast Center <br> January 2024 Water Supply Briefing 

Amy Burke, Senior Hydrologist
NWRFC.watersupply@noaa.gov

Webinar Phone Number: (631) 992-3221
Audio Access Code: 966-003-112\#
Audio PIN is provided when logging into the webinar


- Water year 2024 has been drier and warmer than normal
- Early season snowpacks are below normal
- Runoff volumes since October 1 are a mix of below and above normal
- Water supply forecasts are a mix of normal to below normal
- Precipitation and temperature 30 year normals updated to 1991-2020



## Monthly Precipitation and Temperature Departure


nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=2

Water Year to Date Precipitation



Snow data from Natural Resources Conservation Service, BC Hydro, Ministry of Environment and Climate Change Strategy, and Alberta Environment and Parks.
 Environment and Climate Change Strategy, and Alberta Environment and Parks.

## Snowpack and Precipitation



Snow data from Natural Resources Conservation Service, BC Hydro, Ministry of Environment and Climate Change Strategy, and Alberta Environment and Parks.

Upper Columbia Basin above Grand Coulee Dam


## Snowpack and Precipitation



Snow data from Natural Resources Conservation Service, BC Hydro, Ministry of Environment and Climate Change Strategy, and Alberta Environment and Parks.

Snake Basin above Lower Granite Dam


## Snowpack and Precipitation



Snow data from Natural Resources Conservation Service, BC Hydro, Ministry of
Precip averages from PRISM OSU and PCIC.
Environment and Climate Change Strategy, and Alberta Environment and Parks.

## Water Year to Date Adjusted Runoff



## Water Year to Date Natural Runoff



Northwest River Forecast Center
10 Day QPF, Ending 12Z, 01/13/24



Northwest River Forecast Center
10 Day QPF (Deviation from Climatology), Ending 12Z, 01/13/24



10 Day QPF (Percent of Climatology), Ending 12Z, 01/13/24


ESP10 Water Supply Forecasts


## Natural Water Supply Forecasts



Adjusted Runoff and Water Supply Forecasts

nwrfc.noaa.gov/ws/index.htmI?version=20190313v1

## ESP10 Water Supply Forecast



nwrfc.noaa.gov/water_supply/monthly/monthly_forecasts.php?id=TDAO3

(1) Seasonal Precipitation Outlook



The majority of models indicate El
Niño will persist through March-
May 2024 and then transition to
ENSO-neutral.

Figure provided by the International Research
Institute (IRI) for Climate and Society
(updated 19 December 2023).


- New 30 year normals for 1991-2020 calculated with PRISM- Parameter-elevation Regression on Independent Slopes Model.
- US area produced by the PRISM Climate Group at Oregon State University prism.oregonstate.edu/
- Canadian area produced by the Pacific Climate Consortium (PCIC) at the University of Victoria pacificclimate.org/data/prism-climatology-and-monthly-timeseries
- Monthly normals were calculated, daily normals are interpolated from monthly normals.


## Schedule for Live Water Supply Briefings

| Jan | Feb | Mar | Apr | May | Jun |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 1 | 7 | 4 | 2 | TBD |

All presentations held at 10:00 am Pacific Time unless noted otherwise

## Click here for Registration

NWRFC Hydrologist Job Opening<br>(Posted: Friday, December 29, 2023 to Friday, January 12, 2024)<br>The Northwest River Forecast Center is advertising a job opening for a Hydrologist.<br>Hydrologist, GS-1315-07/09/11/12 (current and former federal employees)<br>Hydrologist, GS-1315-07/09/11/12 (general public)<br>Applications close January 12, 2024

<
<
Type message here]
Type message here]
To: All - Entire Audience
To: All - Entire Audience
NWRFC Water Supply Briefing
NWRFC Water Supply Briefing
Webinar ID: 735-840-363
Webinar ID: 735-840-363
(%)}\mathrm{ GoToWebinar
(%)}\mathrm{ GoToWebinar

Type questions in the webinar chat box or use the 'Raise
Hand' function.

To ask a question using your phone, enter the AUDIO PIN followed by the \# sign.

The AUDIO PIN was provided when you logged into the webinar. If you need to enter the PIN after you are
connected, try \#PIN\#.


