

Northwest River Forecast Center June 2024 Water Supply Briefing

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

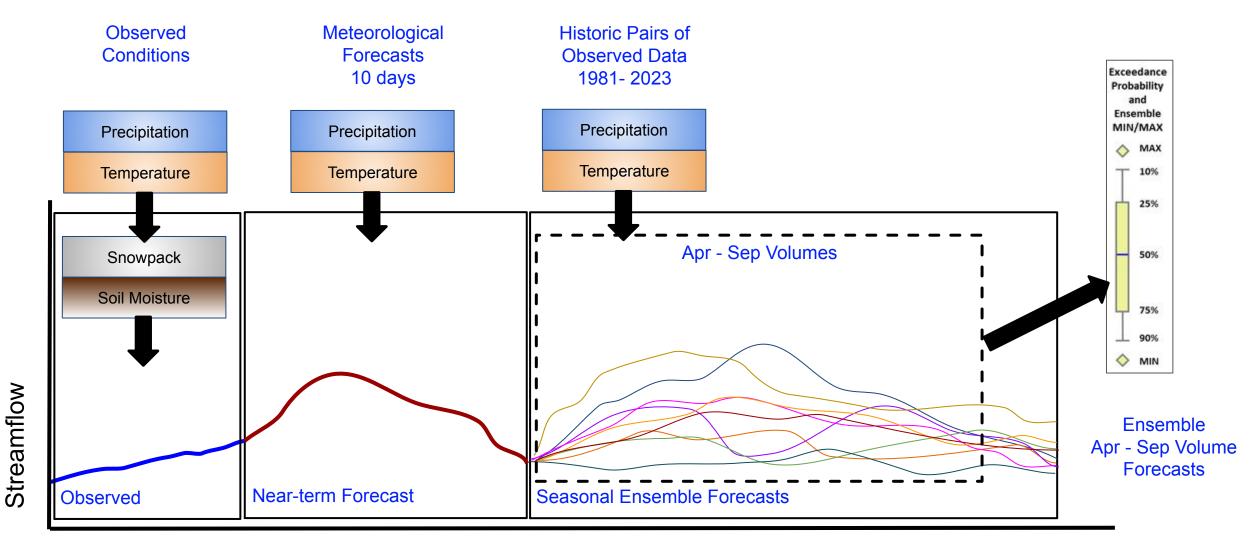
June 6, 2024





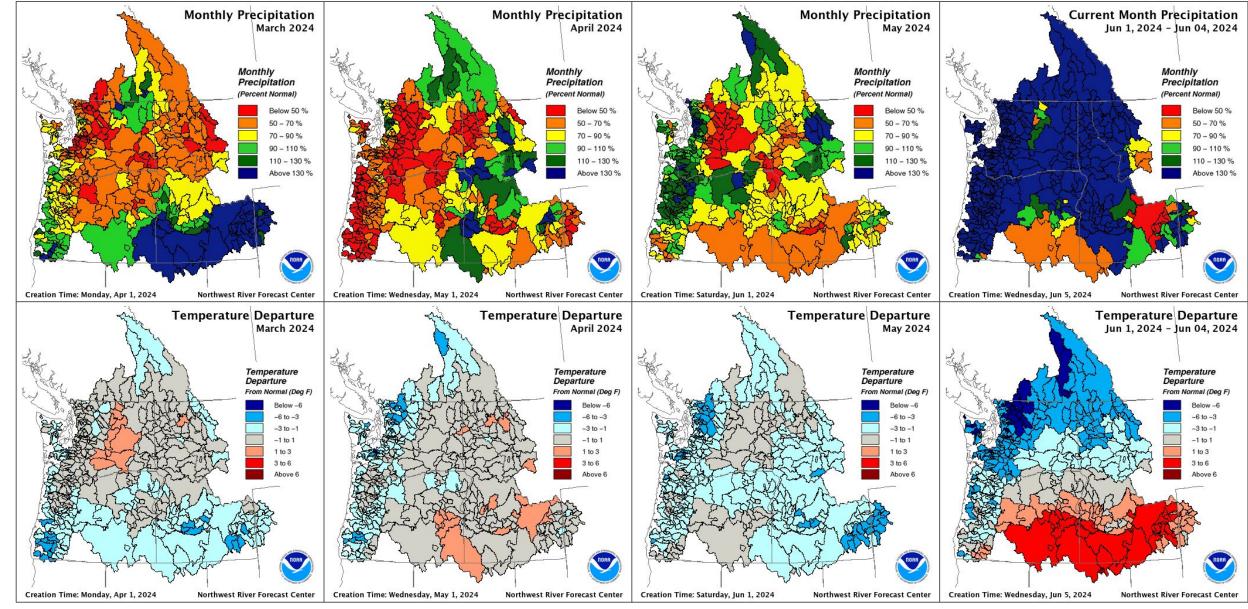
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- May was overall cooler than normal with a couple of warming periods.
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- Water year total precipitation and runoff were below normal in the north and above normal in the south.
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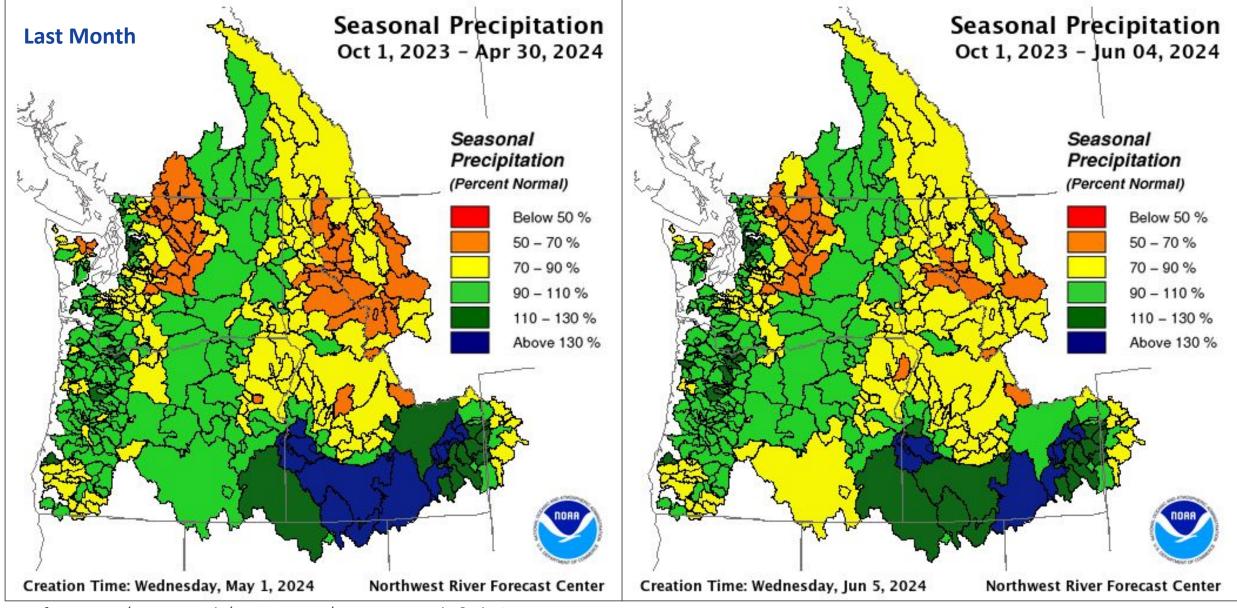
Observed Monthly Precipitation and Temperature



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

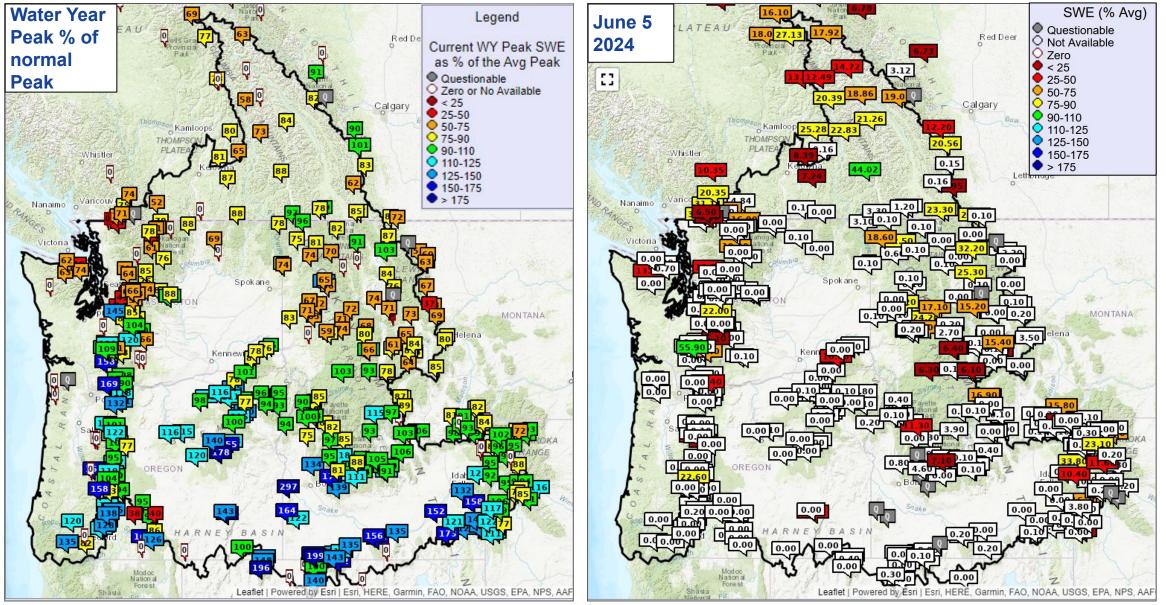


Water Year to Date Precipitation

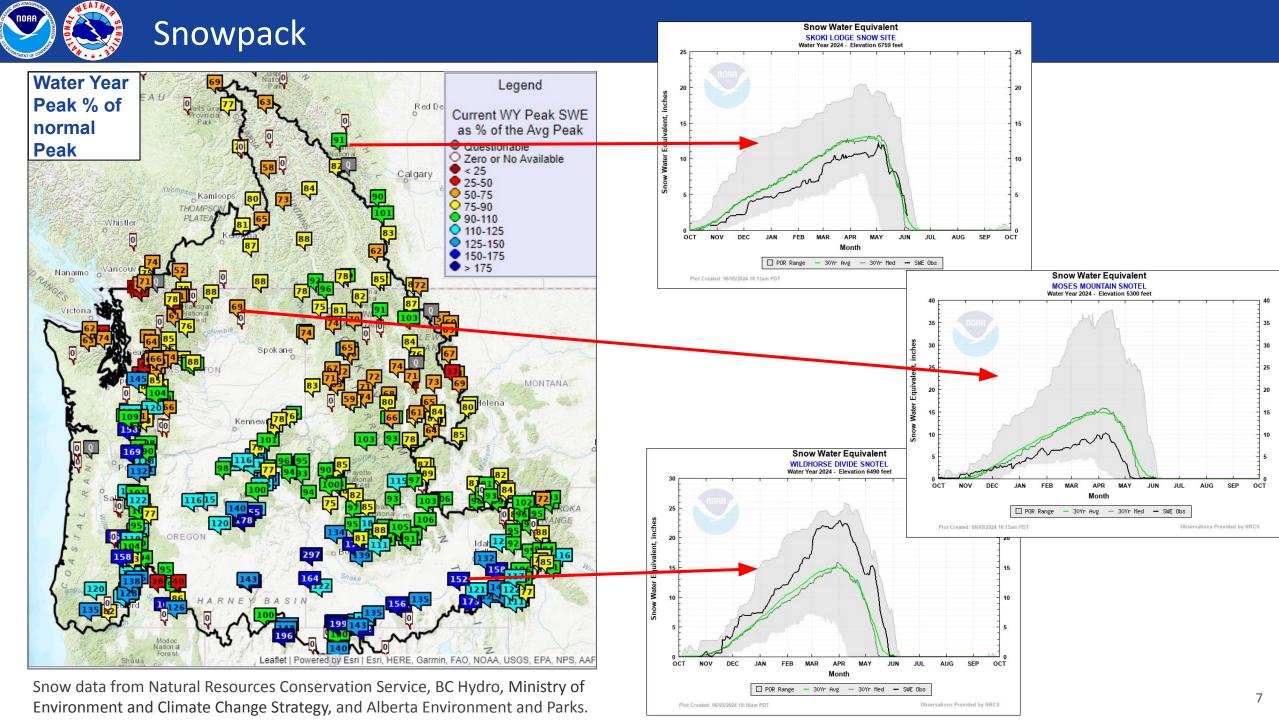


nwrfc.noaa.gov/water_supply/wy_summary/wy_summary.php?tab=2



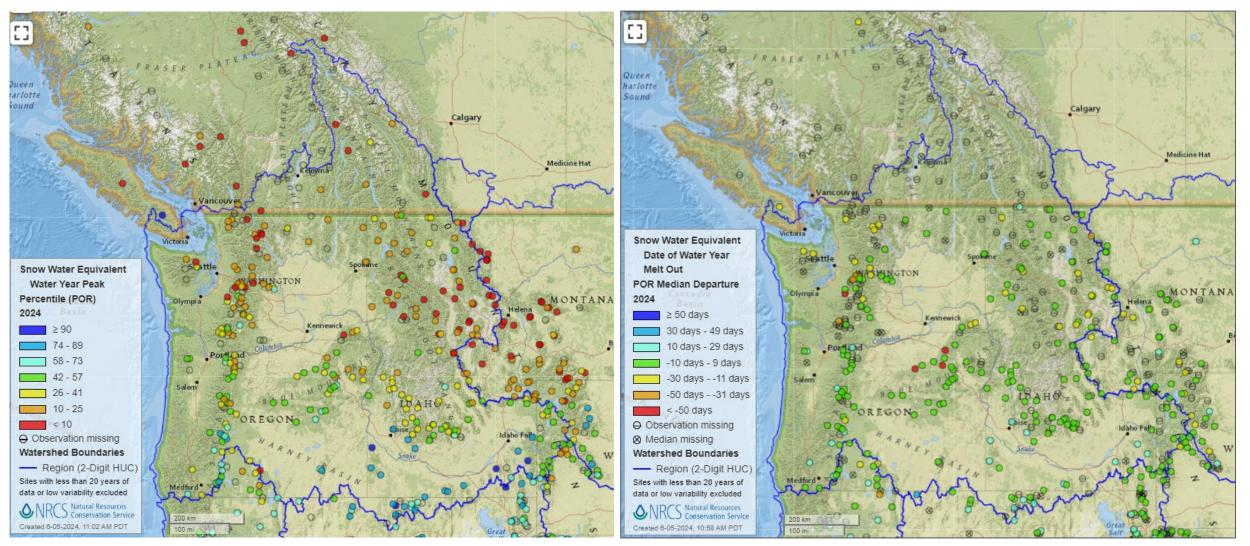


Snow data from Natural Resources Conservation Service, BC Hydro, Ministry of Environment and Climate Change Strategy, and Alberta Environment and Parks.





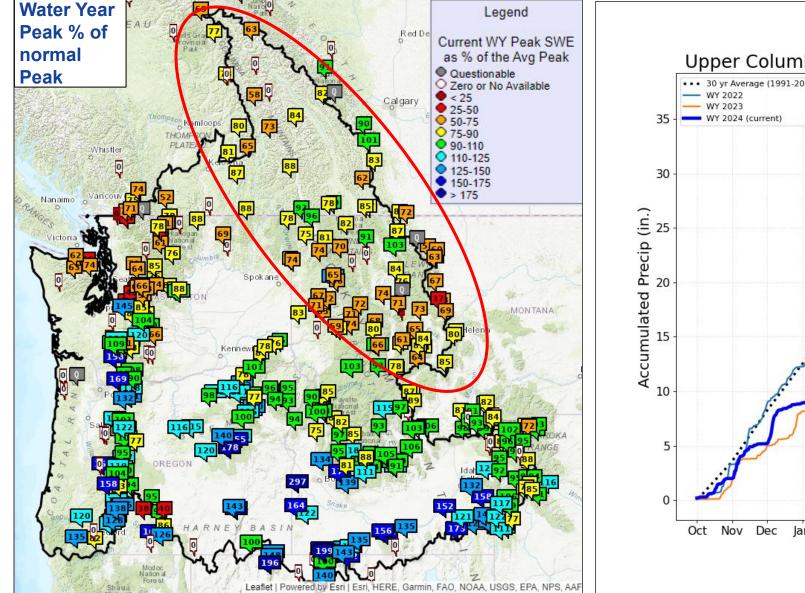
Peak SWE and melt timing



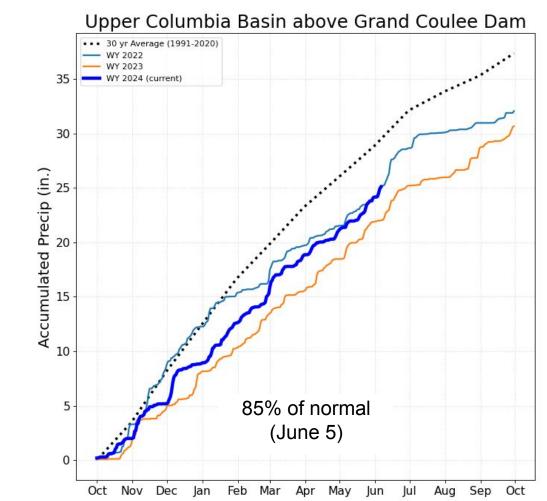
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Snowpack and Precipitation



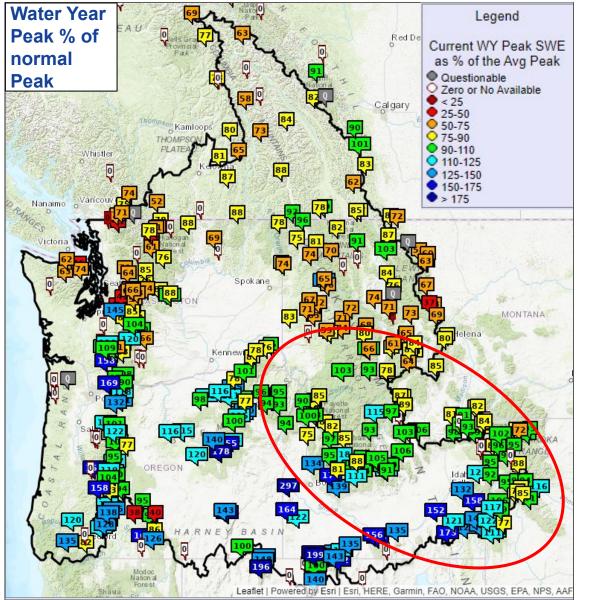
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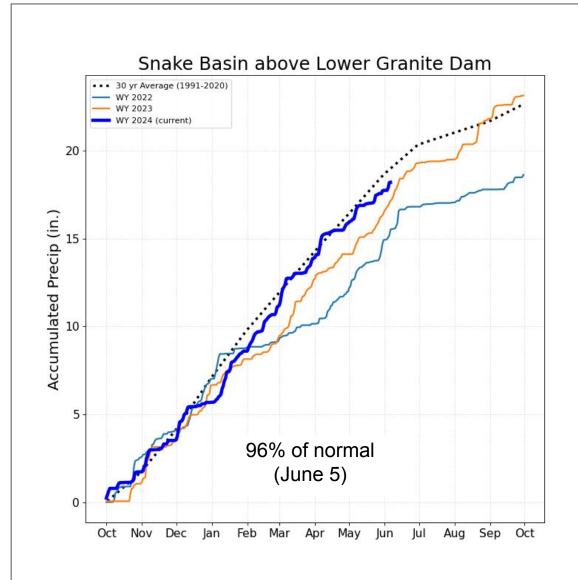
Precip averages from PRISM, OSU and PCIC.



Snowpack and Precipitation



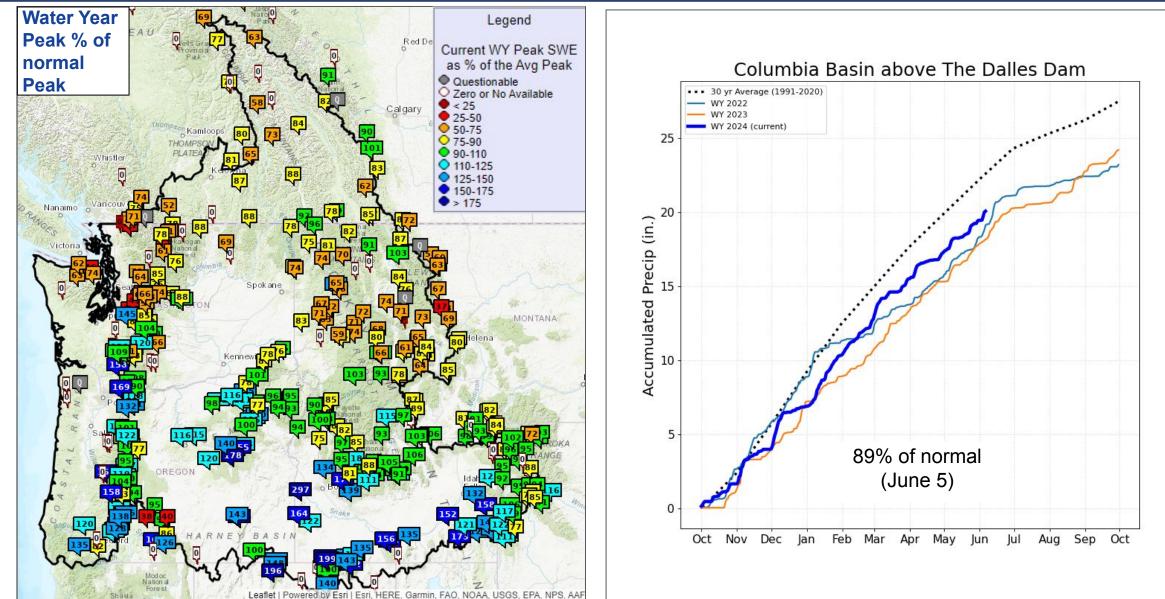
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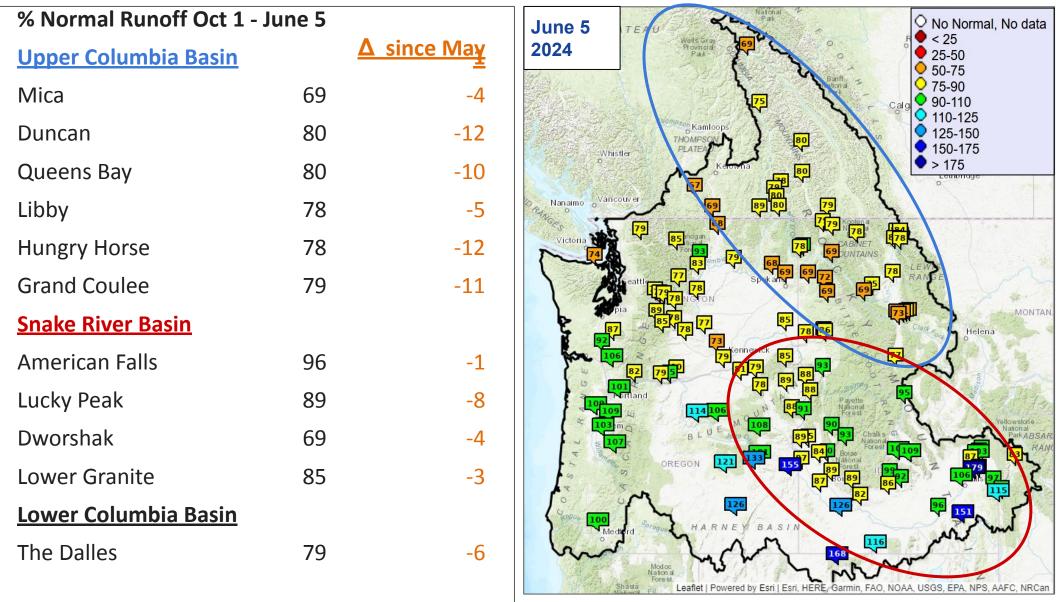
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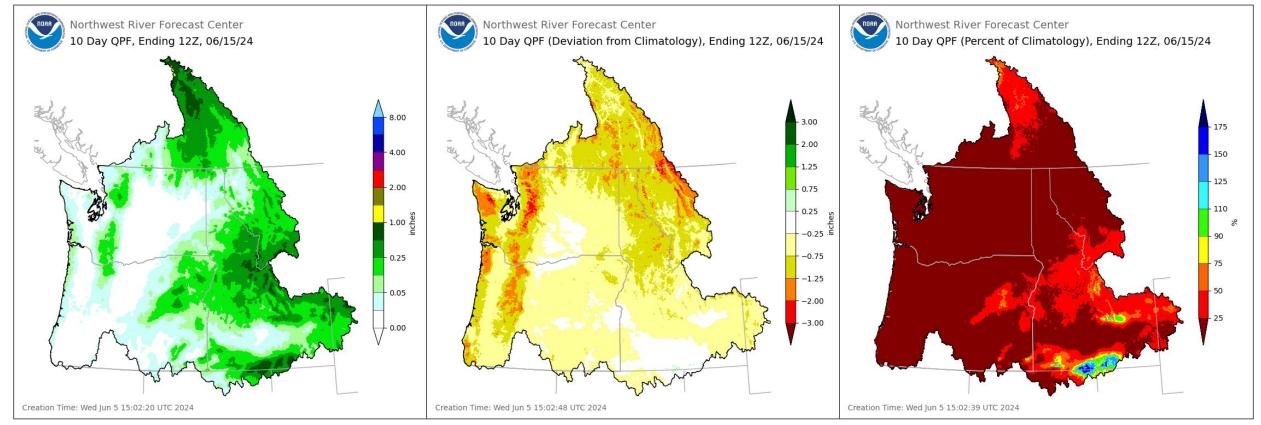
nwrfc.noaa.gov/ws/index.html?version=20190313v1

Water Year to Date Natural Observed Runoff

NOAF

% Normal Runoff Oct 1 - May 1		
<u>Washington</u>		<u>Δ since May 1</u>
Skagit near Mt Vernon	77	-3
Dungeness near Sequim	73	-4
Chehalis at Porter	88	1
Okanogan at Malott	68	-11
Methow near Pateros	92	-30
Yakima at Parker	78	-6
Walla Walla near Touchet	75	-2
Oregon		
Willamette at Salem	99	2
Rogue at Raygold	101	1
Umatilla at Pendleton	82	-1
Grande Ronde at Troy	84	-6
Crooked near Prineville	141	-6
Owyhee Dam	155	-4



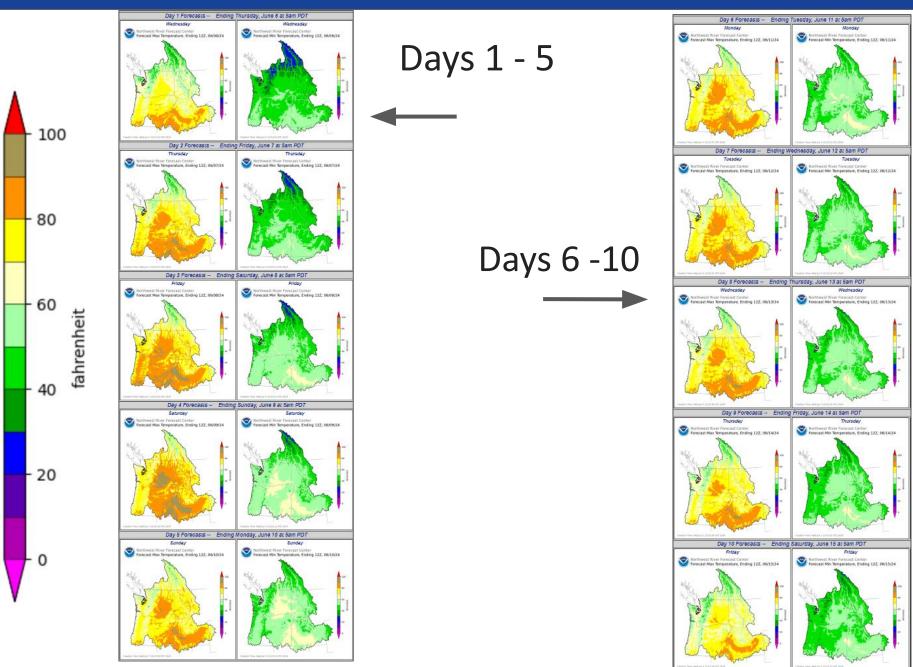


Quantitative Precipitation Forecast (QPF) Sources:

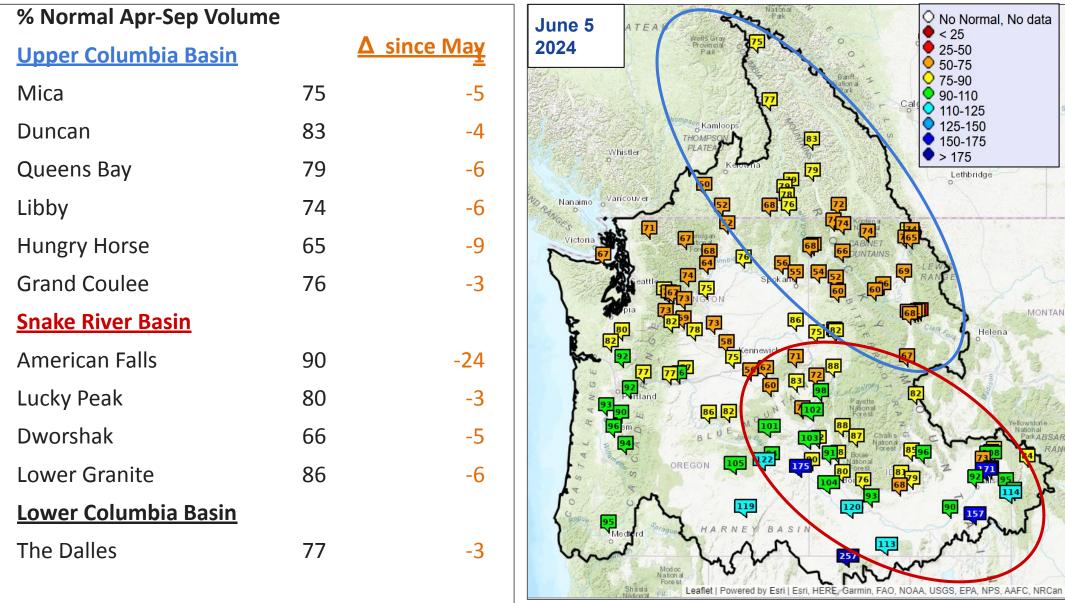
- Days 1 2 NWS Weather Forecast Offices (WFO) in the US, WPC in BC. Days 3 7 NWS Weather Prediction Center (WPC).
- Days 8 10 NWS National Blend of Models (NBM).



10 Day Temperature Forecast used in ESP10



ESP10 Water Supply Forecasts



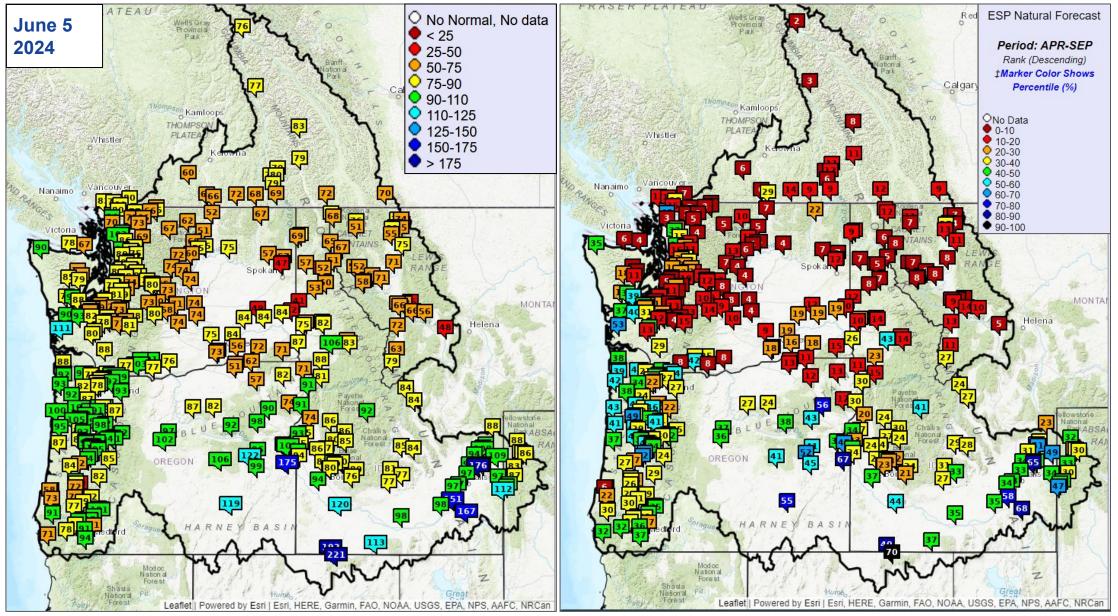
nwrfc.noaa.gov/ws/index.html?version=20190313v1



Natural Water Supply Forecasts

% Normal Apr-Sep Volume			June 5
<u>Washington</u>	Δ :	since May 1	2024 Penticon 0 < 25 205-50 50-75
Skagit near Mt Vernon	70	-1	Onanimo Richmond Grand Forks Orall 75-90 Duncan Marking Duncan Dunca
Dungeness near Sequim	67	-7	Victoria Victoria UB Réservator
Chehalis at Porter	88	3	VAPIC POLYTATION PROTA
Okanogan at Malott	51	-2	The server of th
Methow near Pateros	68	2	Laced Variation Reput
Yakima at Parker	74	-8	Vakana Natona Natona Natona
Walla Walla near Touchet	56	0	CASCADE QUOE
<u>Oregon</u>			Allow Wathing Wathing Wathing Sanch Haron
Willamette at Salem	87	0	Springs Pacetrabin Pacetrabi
Rogue at Raygold	97	-4	Sudan Interesting Control Bend Solution
Umatilla at Pendleton	60	-8	
Grande Ronde at Troy	71	-7	A R N EY BASIN
Crooked near Prineville	102	-1	Rease Floer Total Floer
Owyhee Dam	175	-12	National Madeina Leaflet Powered by Esri Esri, HERE, Garmin, FAO, NOAA, USGS, EF

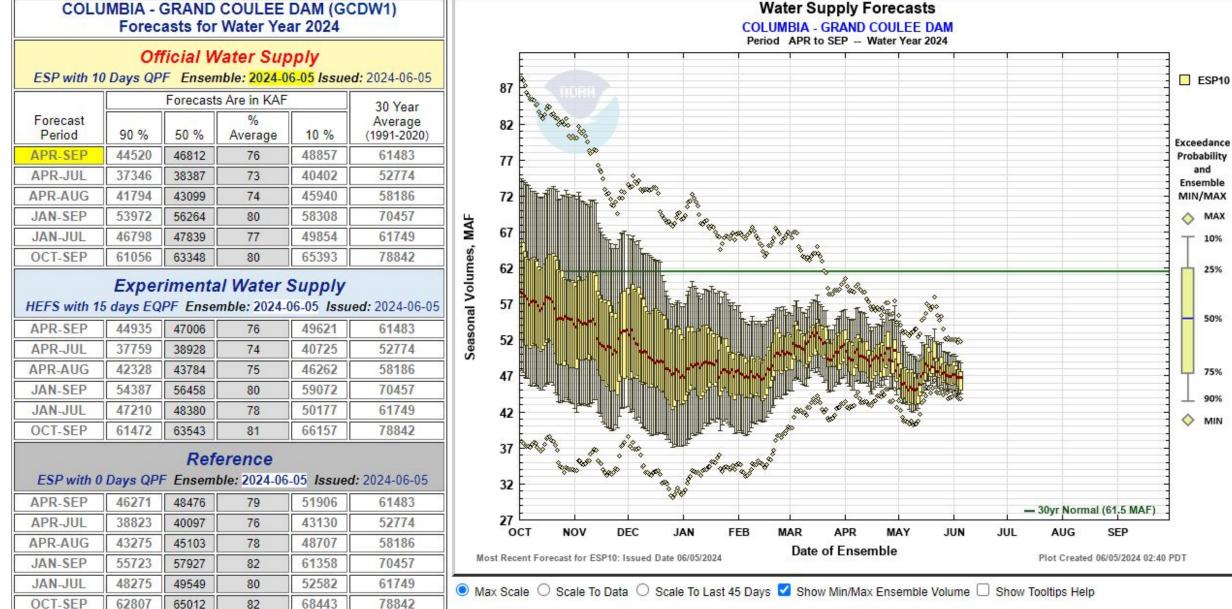
Natural Water Supply Forecasts - Ranked



nwrfc.noaa.gov/natural/index.html?version=20190313v1

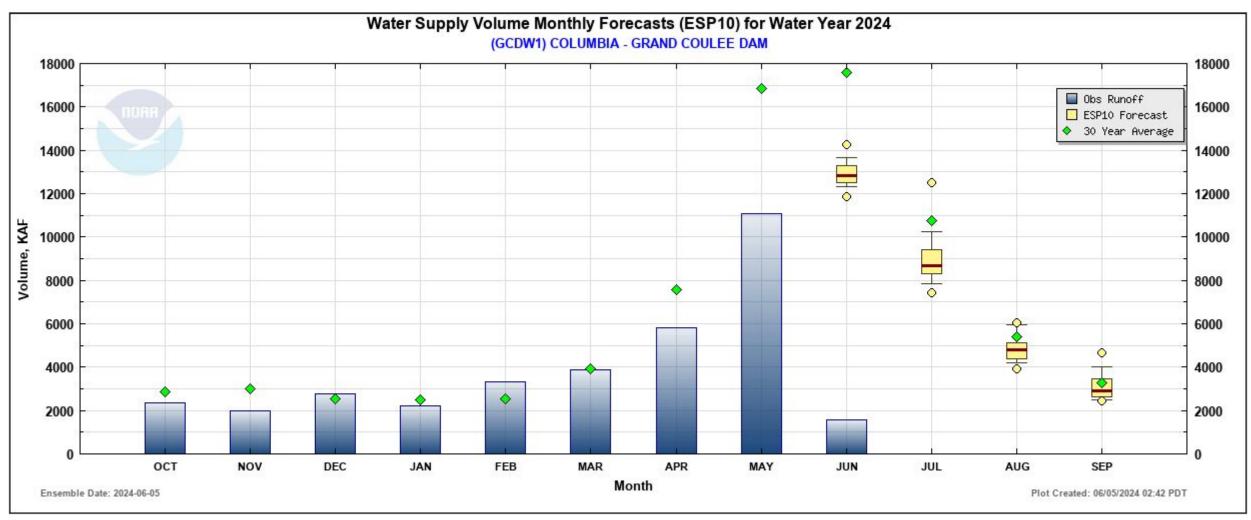


ESP10 Water Supply Forecast



nwrfc.noaa.gov/water_supply/ws_forecasts.php?id=GCDW1

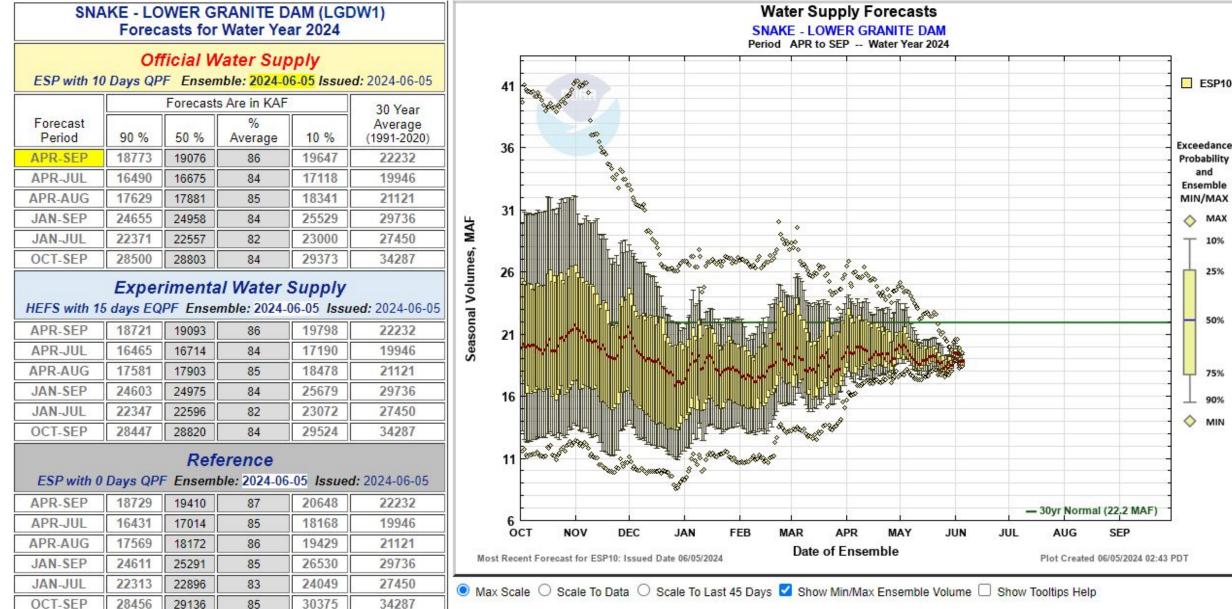




nwrfc.noaa.gov/water_supply/monthly/monthly_forecasts.php?id=GCDW1

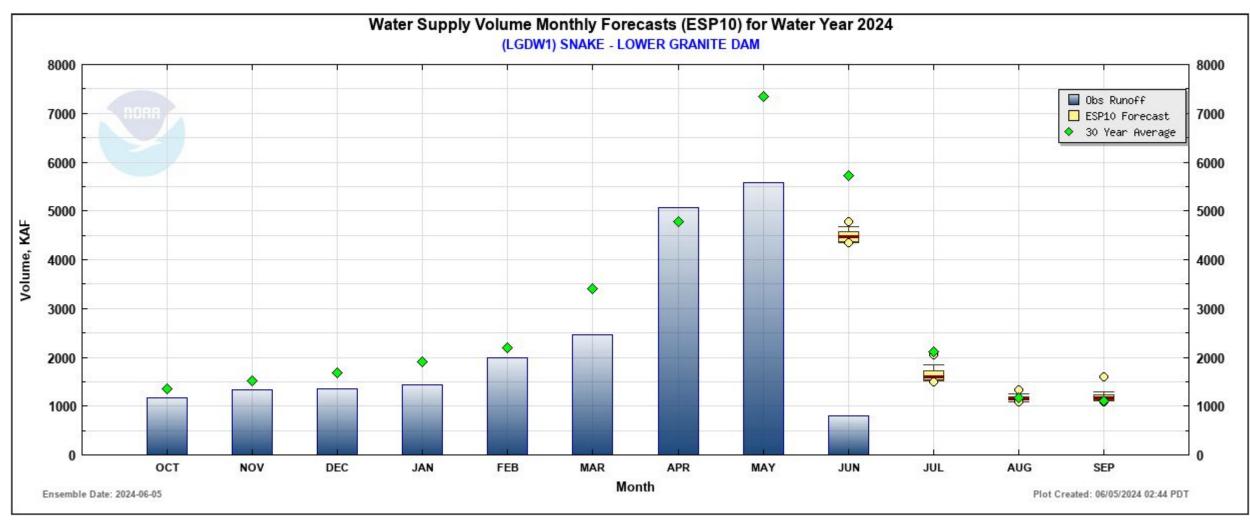


ESP10 Water Supply Forecast



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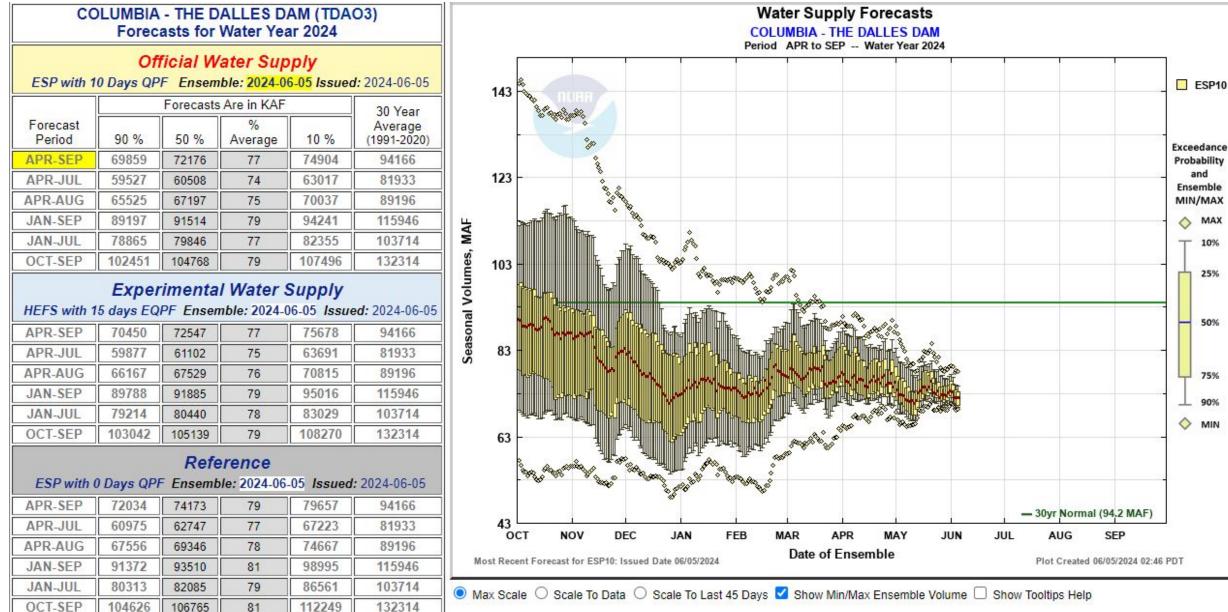




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ESP10 Water Supply Forecast

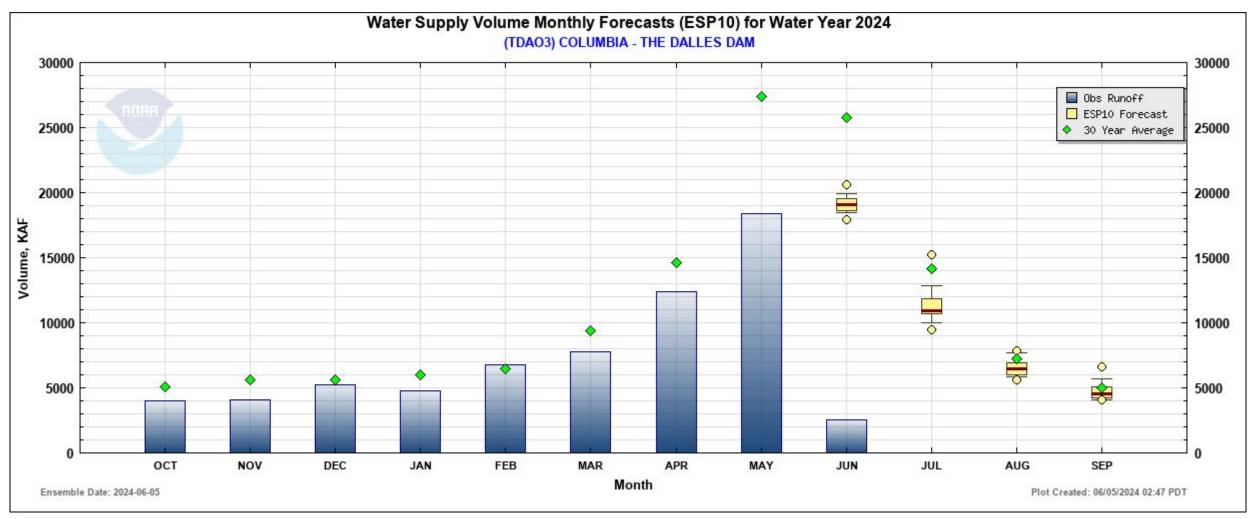


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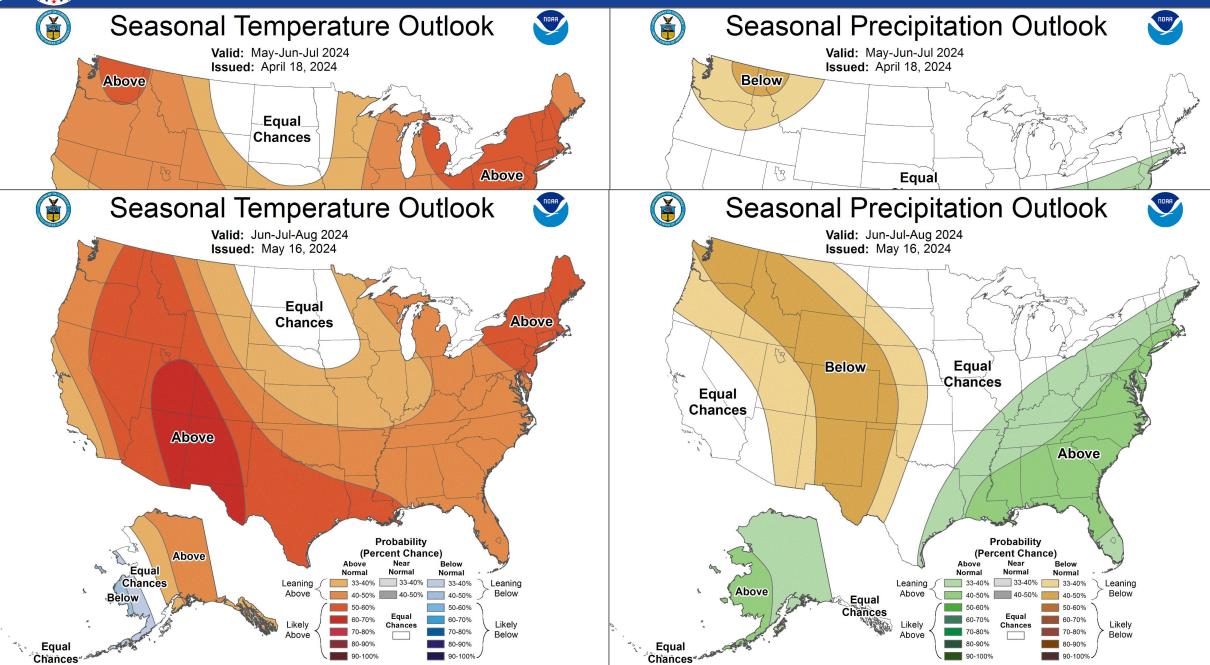
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nwrfc.noaa.gov/water_supply/monthly/monthly_forecasts.php?id=TDAO3

Climate Prediction Center Seasonal Outlook





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

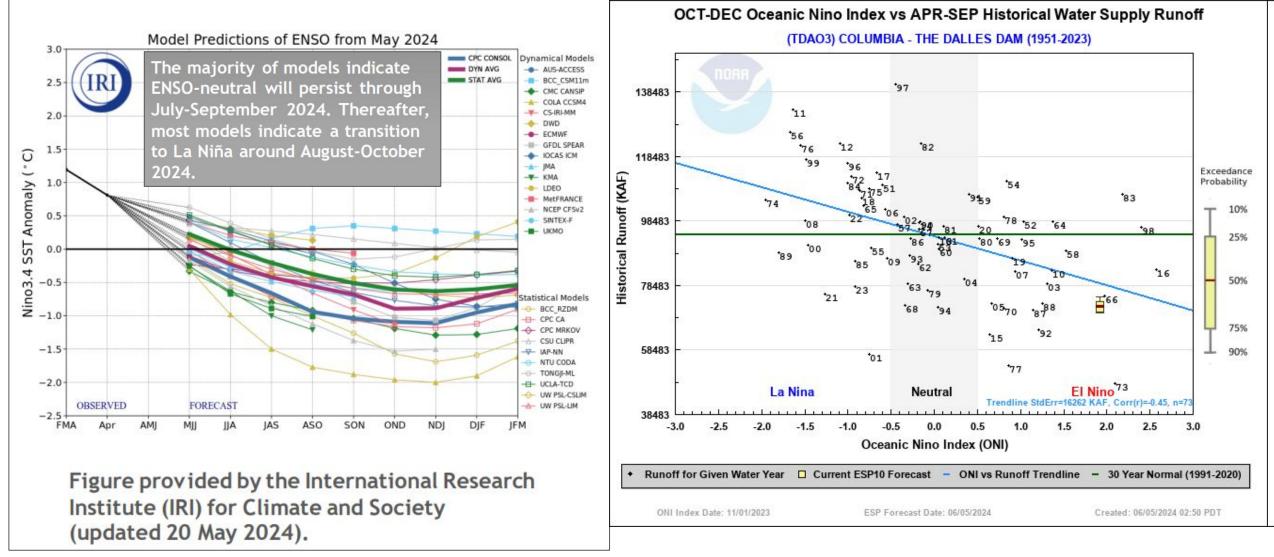








ENSO prediction for beyond this water year



cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf