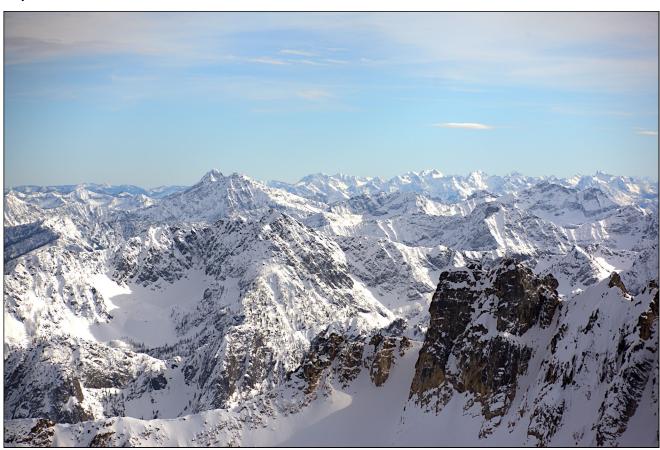




Washington Water Supply Outlook Report

April 1, 2024



Reynolds Peak (left of center) stands out among striking views in the North Cascades. Snowpack is well-below to below normal across this region as of April 1.

Photo taken by Willie Webster, Northwest Avalanche Center (March 31, 2024)

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Conditions Overview

Summary

The normal timing for peak snow accumulation has passed or is near for all major basins in Washington. Snow drought conditions, in some cases severe, persist across much of Washington, notably in the Puget Sound Basin, Olympic Peninsula, portions of the Lower Yakima, and across much of northern Washington and into the Idaho panhandle. Several snow courses and SNOTEL stations from the central Cascades and across northern Washington have record or near record low snowpack as of April 1. Drier conditions for these regions in March, with the exception for parts of the Upper Columbia, has exasperated deficits in water year-to-date precipitation at several stations, including for parts of the Lower Yakima. Poor conditions in these areas have led a belownormal water supply outlook for the late spring-early summer, with 50%-exceedance forecasts generally calling for below normal streamflows as of April 1. If drier conditions continue to prevail in these regions over the next few weeks, water resource managers may consider using the lower exceedance forecasts.



Kevin Johnson, Watershed Inspector, groundtruths the snow pillow at Meadows Pass SNOTEL station, located in the Cedar River watershed. Snowpack here is 75% of normal as of April 1.

Photo taken by Mark Hopf, Seattle Public Utilities (April 1, 2024)

WSFs generally reflect a winter that has trended close to the expected precipitation pattern based on past El Niños, with slight departures in some areas, such as wetter conditions in the southern Cascades in Washington.

*Note that basin conditions outlined in this report include data from stations within the SNOTEL and SNOLITE network, and/or cooperator weather stations.

Winter 2023-2024

Dec-Feb minus 1991–2020 average

Pattern expected based on past El Niños



3.0

difference from average (mm/day)

The difference in winter 2023-2024 precipitation from the expected precipitation based on past El Niño. (NOAA climate.gov)

1.5

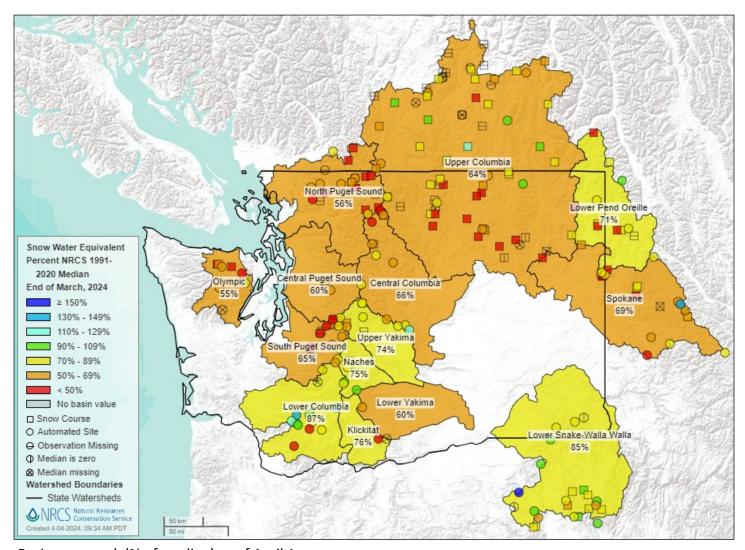
-3.0

-1.5

Data: ERA5

Snowpack

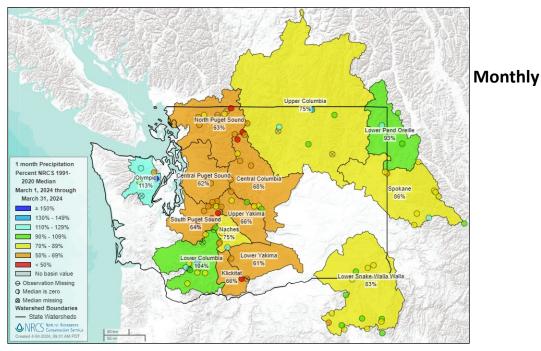
As of April 1, statewide snowpack is 69% of normal. Despite some additional snow accumulation in early March, nearly all SNOTEL stations are experiencing a significant snowpack deficit. One notable exception is near Mt. St. Helens where snowpack improved and is near to above normal. Areas experiencing more severe snowpack deficits are the Lower Yakima, Olympic Peninsula, northern Cascades, northeastern Washington, and basins along the western front of the central Cascades. Snowpack at several snow courses and SNOTEL stations across northern Washington and a portion of the central Cascades are at or near record lows.



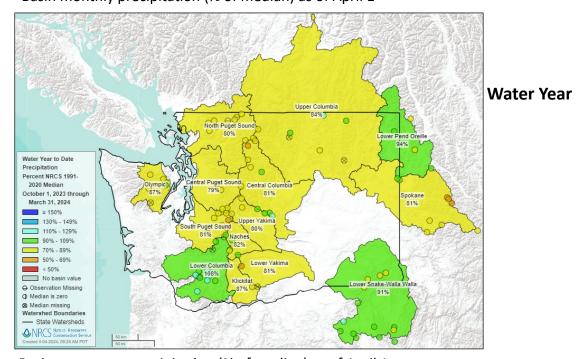
Basin snowpack (% of median) as of April 1

Precipitation

March precipitation across much of the state was below normal, with notable exceptions in parts of the Upper Columbia Basin, near Mt. St. Helens, and parts of the Olympic Peninsula. In the Cascades, 6 SNOTEL stations recorded their <u>second-lowest precipitation</u> for March on record. Drier conditions in March across much of the Cascades has increased persistent deficits in WYTD precipitation at several SNOTEL stations, notably those north of Mt. Rainier. MF Nooksack and Park Creek Ridge SNOTEL stations in the northern Cascades and Lost Horse SNOTEL in the Toppenish Basin are at record or near record lows for WYTD precipitation. WYTD precipitation at most stations south of Mt. Rainier, in the western Wenatchee Mountains, and in northeastern Washington is near to above normal. Statewide, WYTD precipitation is 88% of normal.



Basin monthly precipitation (% of median) as of April 1

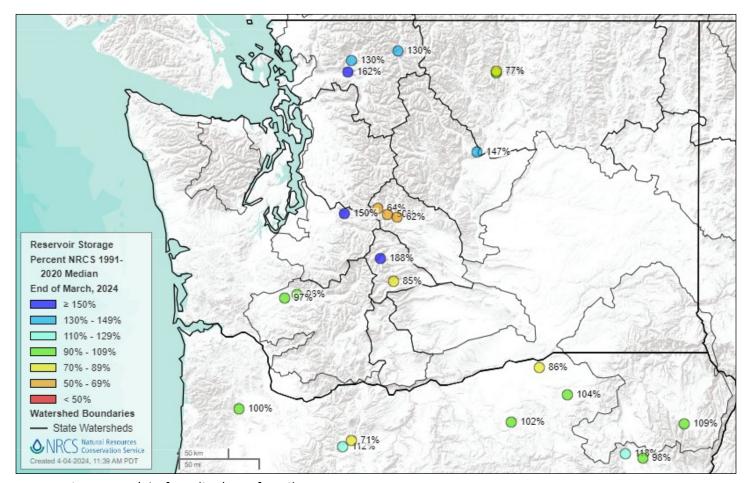


Basin water-year precipitation (% of median) as of April 1

Reservoirs

Volumetric storage at reservoirs in WA is generally near to above normal with few exceptions. Reservoirs along the I-90 corridor, including Cle Elum, Little Kachess, and Keechelus, in addition to Rimrock Lake, are storing volumes below normal.

Reservoir storage values aren't necessarily reflective of water supply conditions. Reservoir operators control for a variety of factors when choosing to store or release water, including flooding, irrigation, fisheries, and other water needs. These management needs may impact storage values for a reservoir.



Reservoir storage (% of median) as of April 1

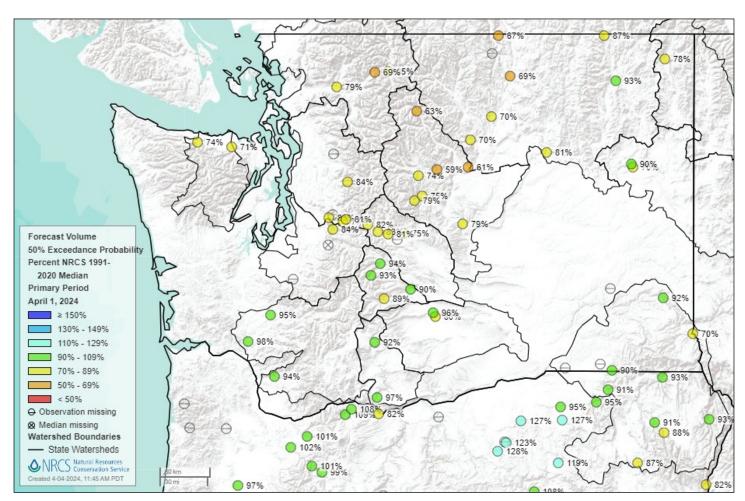
Streamflow and Forecasts

Volumetric streamflow in Washington varies, with most streamflow along the leeward side of the Cascades above normal. In the Upper Columbia across into the Idaho panhandle, streamflows vary from below to well-above normal, while flows in the Lower Snake Basin range from near to below normal. Along the windward side of the Cascades and on the Olympic Peninsula, streamflows are below to slightly above normal.

Water supply forecasts (WSF) for April 1 mostly decreased or were similar from March-1 WSF. The former is especially true for forecasts in central Washington and the northern Cascades, where March precipitation was below normal and more severe deficits in snowpack persists. WSFs in southern Washington in basins near the Oregon border are mostly near normal.

Predictive skill for WSFs has generally improved since March 1. However, in basins that are rain-dominated (ex., several watersheds along the western front of the Cascades), skill may still be sufficiently low. Forecast product-users should bear this and any model uncertainty (quantitatively captured by exceedance intervals) in mind when interpreting WSFs for decision making.

View the map for March observed streamflow <u>here</u>.

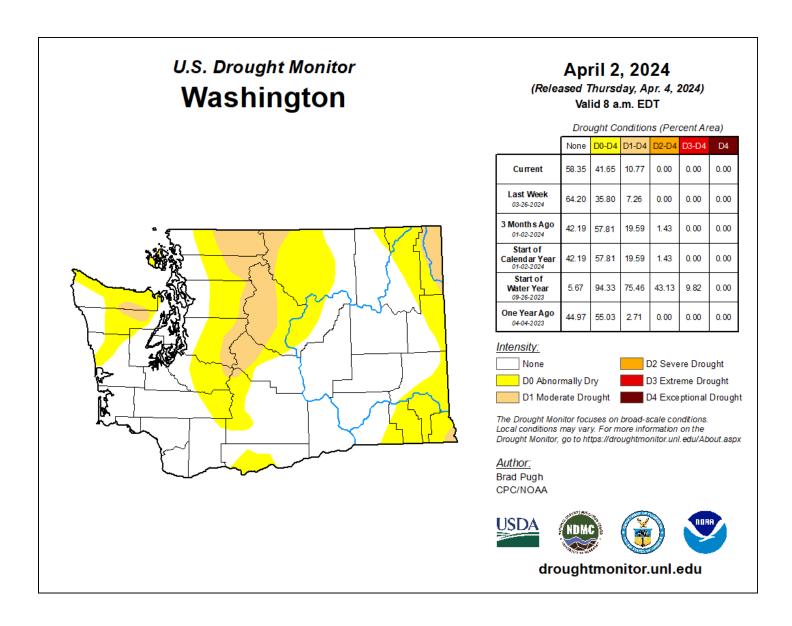


Streamflow forecasts (% of normal) for the primary period as of April 1

Drought

As of April 4, nearly 11% of Washington is in moderate drought (D1). Drought is primarily distributed from eastern Whatcom County down into Kittitas County, with additional designations in parts of the Olympic peninsula, northeastern, and southeastern corners of the state.

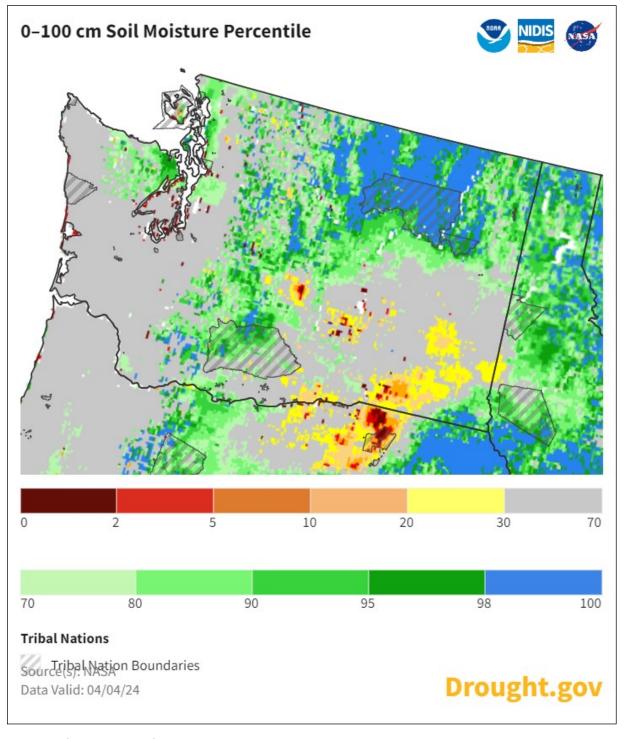
At the beginning of the water year, 75% of the state was in some drought category (D1-D4), with 10% of the state in severe to extreme drought.



Soils

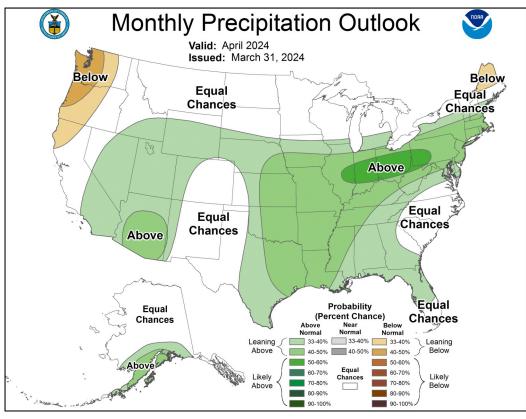
The NASA SPORT-LIS product for soil moisture (0-100 cm depth) indicates drier soil moisture profiles in south-eastern Washington and portions of the Yakima Basin.

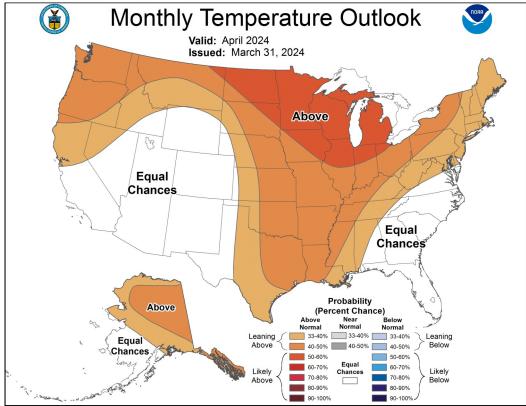
Soil moisture conditions can be useful in assessing current drought and future drought potential. In addition, soil moisture is generally a good indicator in some regions of the potential efficiency of snowmelt runoff into streamflow in the spring. Drier soils tend to absorb more water from snowmelt than wetter soils, thus less melt is translated into streamflow (i.e. low efficiency).



1-Month Outlook

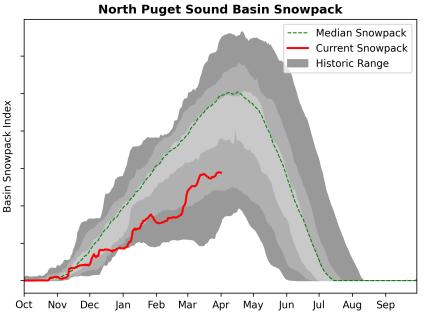
The Climate Prediction Center 1-month climatic outlook calls for higher chances of above-normal temperatures, and higher chances of below-normal precipitation for much of the state. Chances are equal for above and below-normal precipitation for far eastern Washington.





North Puget Sound Basin Summary

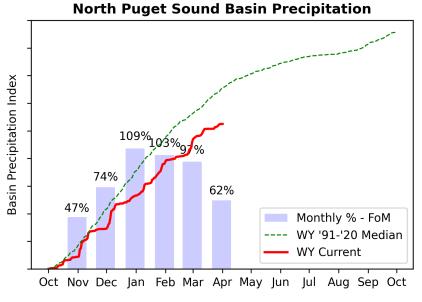
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 56% of median. This is slightly lower than March 1 when the basin snowpack was 60% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

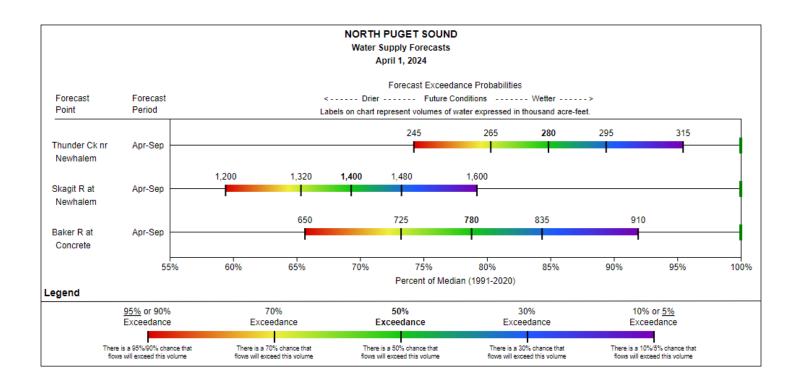
March precipitation is below normal at 62% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 80% of median.

As of April 1, storage at Upper Baker and Ross Reservoirs is above normal at 130% of median. Volumetric storage at Lake Shannon is also above normal at 162% of median.

	North Puget Sound	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Upper Baker		136.3	88.5	104.6					130%	85%
Ross		915.2	591.5	703.5	1434.7	64%	41%	49%	130%	84%
Lake Shannon		102.8	42.7	63.3					162%	67%
	Basin II	ndex				64%	41%	49%	132%	83%
	# of reser	voirs				1	1	1	3	3

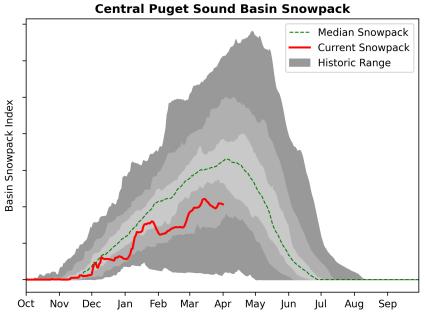
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 69% to 85% of median.



Central Puget Sound Basin Summary

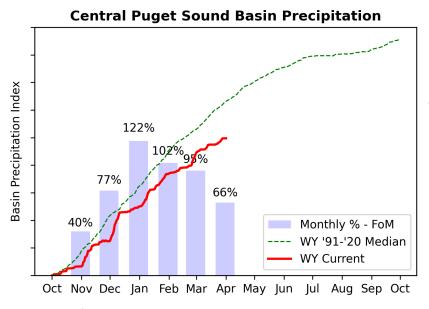
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 60% of median. This is slightly lower than March 1 when the basin snowpack was 62% of median.

PRECIPITATION



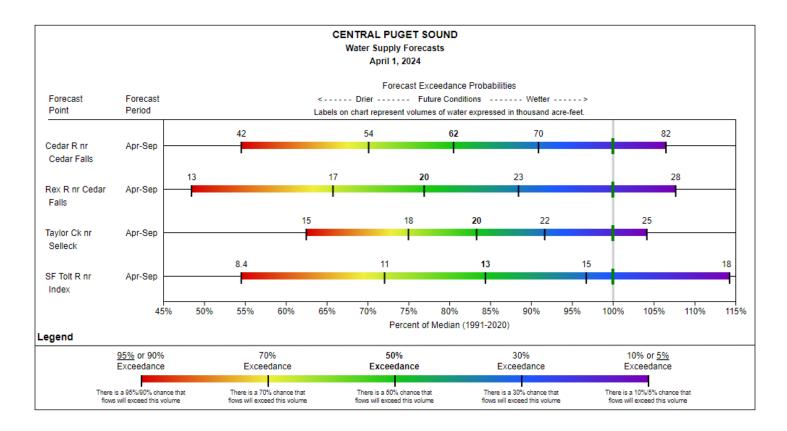
► View precipitation for individual sites by accessing the basin data report <u>here</u>.

FoM = First of Month

March precipitation is below normal at 66% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 79% of median.

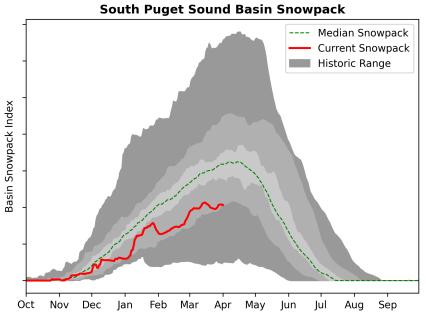
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 77% to 84% of median.



South Puget Sound Basin Summary

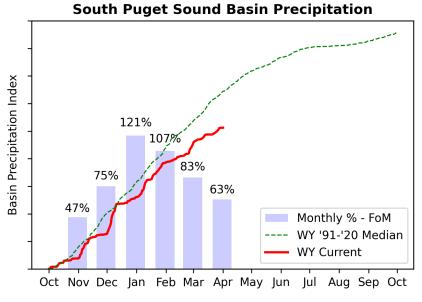
SNOWPACK



► View snowpack for individual sites by accessing the basin data report <u>here</u>.

As of April 1, the basin snowpack is 65% of median. This is slightly lower than March 1 when the basin snowpack was 69% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

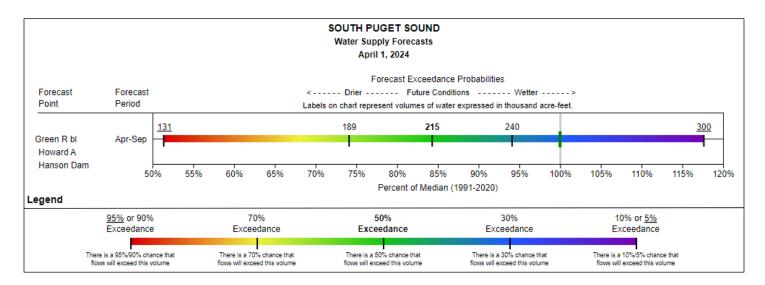
March precipitation is below normal at 63% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 81% of median.

As of April 1, volumetric storage at Howard Hansen Reservoir is above normal at 150% of median.

South Durant Sound	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
South Puget Sound	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Howard Hansen	20.8	11.1	13.9	106.0	20%	10%	13%	150%	80%
Basin Inde	(20%	10%	13%	150%	80%
# of reservoir	5				1	1	1	1	1

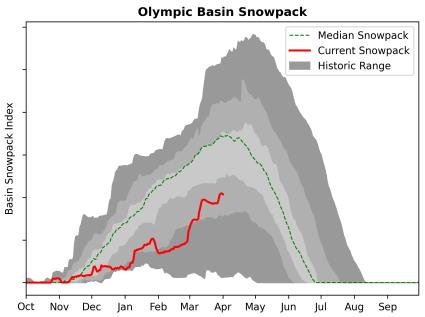
STREAMFLOW FORECAST

The April through September streamflow forecast for Green R bl Howard Hanson Dam is below normal at 84% of median.



Olympic Basin Summary

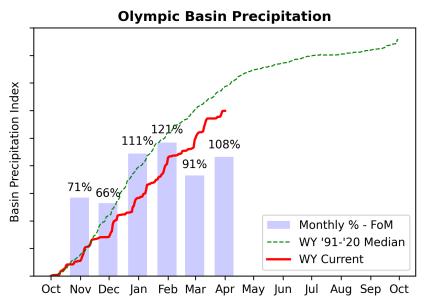
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 55% of median. This is higher than March 1 when the basin snowpack was 42% of median.

PRECIPITATION



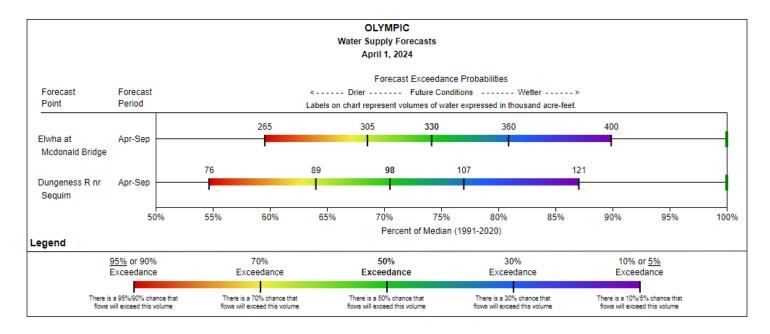
► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

March precipitation is slightly above normal at 108% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 87% of median.

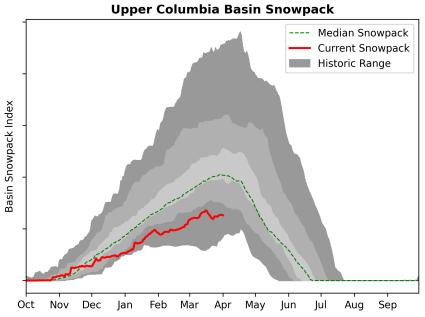
STREAMFLOW FORECAST

The April through September streamflow forecast for Elwha at Mcdonald Bridge is below normal at 74% of median. The April through September streamflow forecast for Dungeness R nr Sequim is also below normal at 71% of median.



Upper Columbia Basin Summary

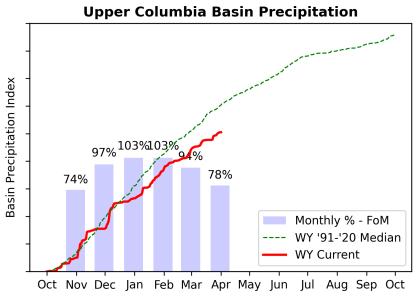
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 64% of median. This is slightly lower than March 1 when the basin snowpack was 70% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

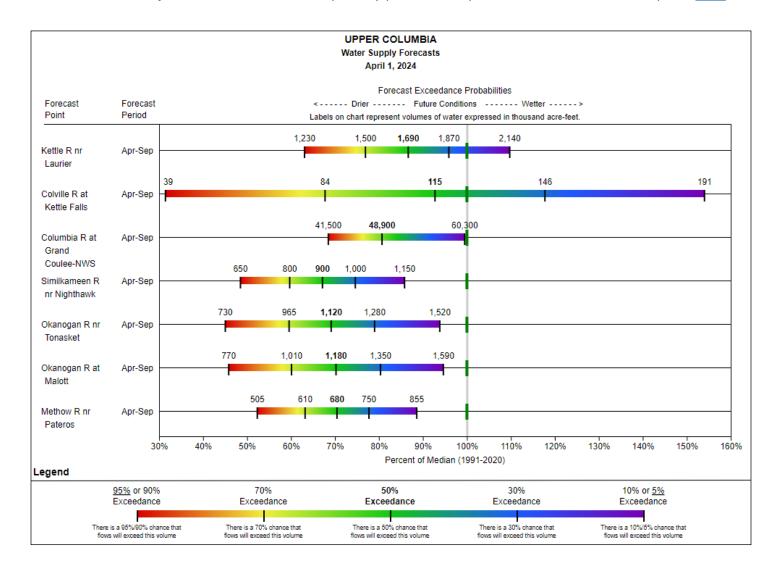
March precipitation is below normal at 78% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 84% of median.

As of April 1, storage at Conconully Reservoir is slightly below normal at 98% of median. Volumetric storage at Conconully Lake (Salmon Lake Dam) is 77% of median.

Hamas Calumbia	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Upper Columbia	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Conconully Lake (Salmon Lake Dam)	6.1	6.6	7.9	10.5	58%	63%	75%	77%	83%
Conconully Reservoir	8.6	6.8	8.8	13.0	66%	52%	68%	98%	77%
Ba	sin Index				63%	57%	71%	88%	80%
# of	reservoirs				2	2	2	2	2

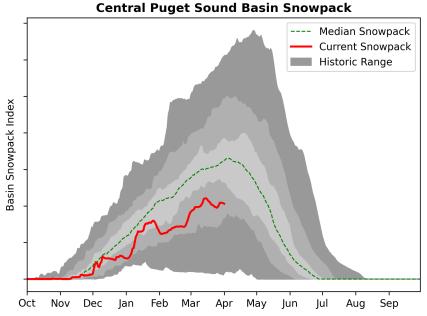
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 67% to 93% of median.



Central Columbia Basin Summary

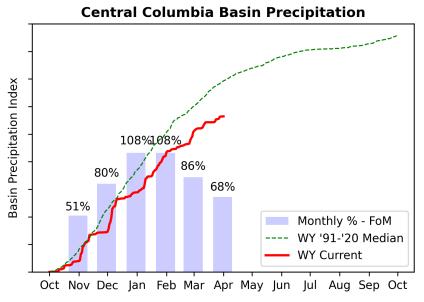
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 66% of median. This is slightly lower than March 1 when the basin snowpack was 72% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

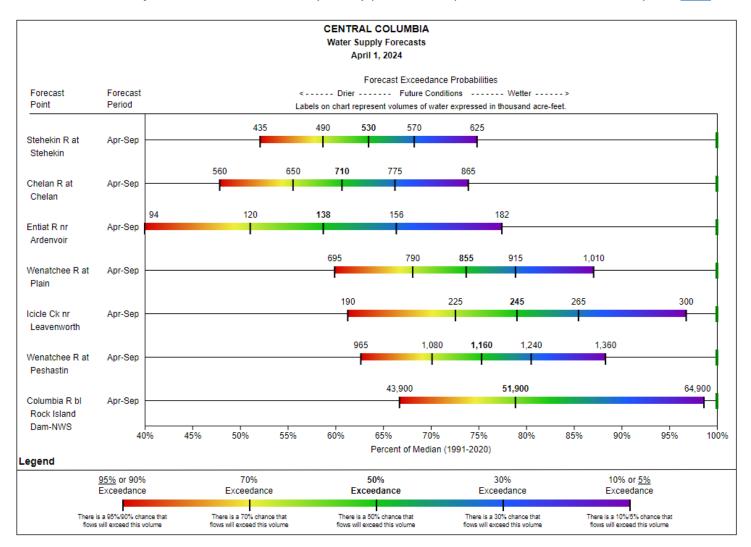
March precipitation is below normal at 68% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 81% of median.

As of April 1, volumetric storage at Lake Chelan is above normal at 147% of median.

	Central Columbia	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
		(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Lake Chelan		335.2	183.9	228.8	676.1	50%	27%	34%	147%	80%
	Basin Inde	x				50%	27%	34%	147%	80%
	# of reservoi	rs				1	1	1	1	1

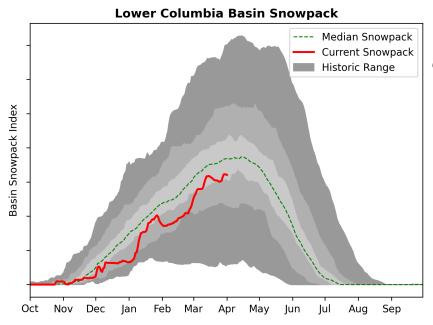
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 59% to 79% of median.



Lower Columbia Basin Summary

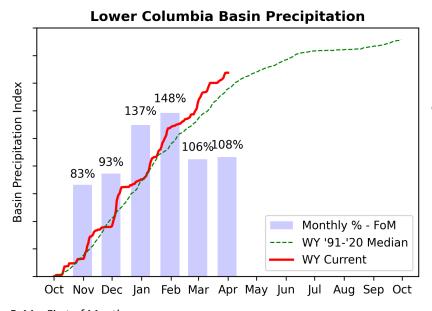
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 87% of median. This is slightly higher than March 1 when the basin snowpack was 81% of median.

PRECIPITATION



View precipitation for individual sites by accessing the basin data report <u>here</u>.

FoM = First of Month

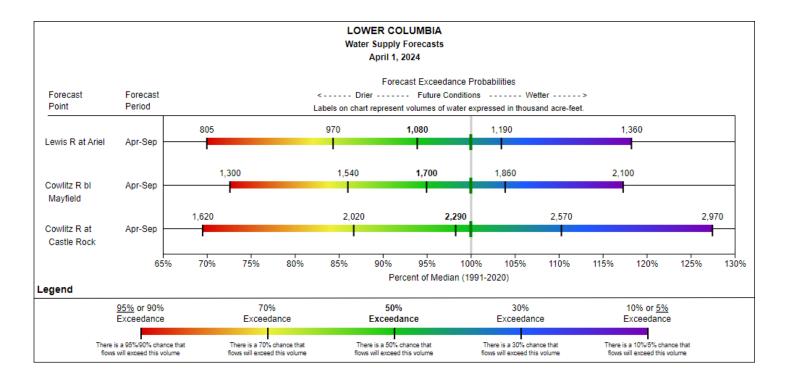
March precipitation is slightly above normal at 108% of median. Precipitation since the beginning of the water year (October 1 - April 1) is also 108% of median.

As of April 1, storage at Mossyrock Dam (Riffe Lake) is slightly below normal at 96% of median. Volumetric storage at Mayfield Lake is 97% of median.

Lower Columbia	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Lower Columbia	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Mossyrock Dam (Riffe Lk)	883.2	321.5	917.0	1298.0	64%	25%	71%	96%	35%
Mayfield	124.3	126.3	127.8	133.7		94%	96%	97%	99%
Basir	ı Index				64%	31%	73%	96%	43%
# of res	servoirs				1	2	2	2	2

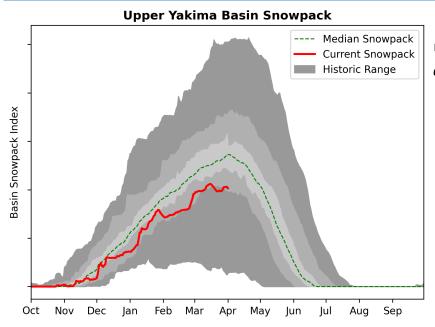
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are near normal and range from 94% to 98% of median.



Upper Yakima Basin Summary

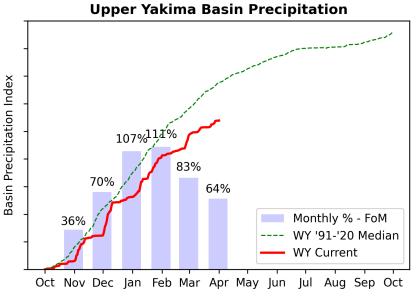
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 74% of median. This is lower than March 1 when the basin snowpack was 81% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report <u>here</u>.

FoM = First of Month

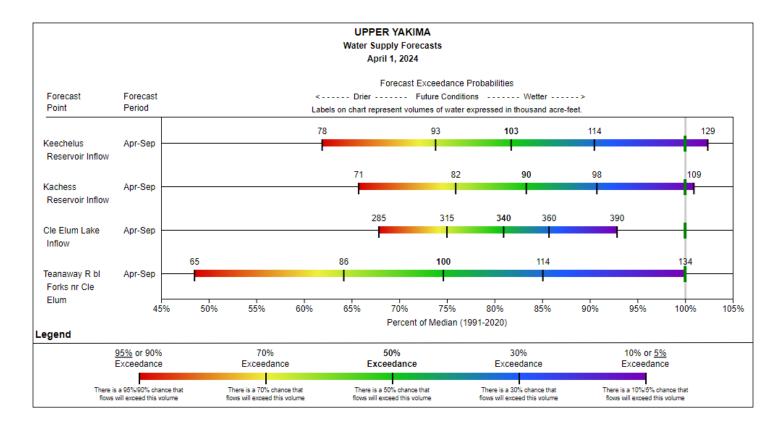
March precipitation is below normal at 64% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 80% of median.

As of April 1, storage at Keechelus Reservoir is below normal at 64% of median. Volumetric storage at Cle Elum Reservoir is 62% of median, and 50% of median at Kachess Reservoir.

	Upper Yakima	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
	Оррег такіта		(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Kachess		86.0	145.6	172.4	239.0	36%	61%	72%	50%	84%
Cle Elum		173.5	184.5	277.7	436.9	40%	42%	64%	62%	66%
Keechelus		75.2	63.4	118.1	157.8	48%	40%	75%	64%	54%
	Basin Ir	ndex				40%	47%	68%	59%	69%
	# of reserv	voirs				3	3	3	3	3

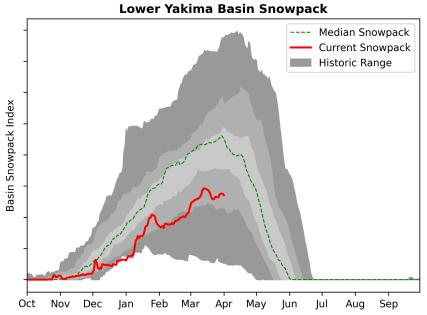
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 75% to 83% of median.



Lower Yakima Basin Summary

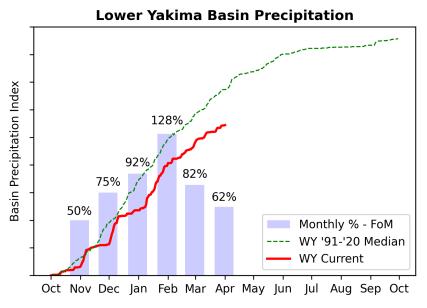
SNOWPACK



► View snowpack for individual sites by accessing the basin data report <u>here</u>.

As of April 1, the basin snowpack is 60% of median. This is slightly higher than March 1 when the basin snowpack was 59% of median.

PRECIPITATION



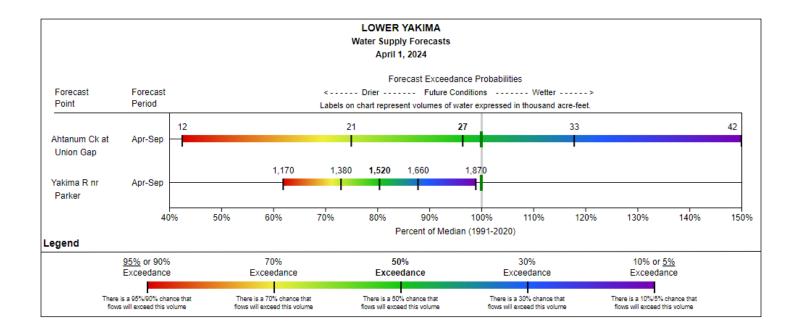
► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

March precipitation is below normal at 62% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 81% of median.

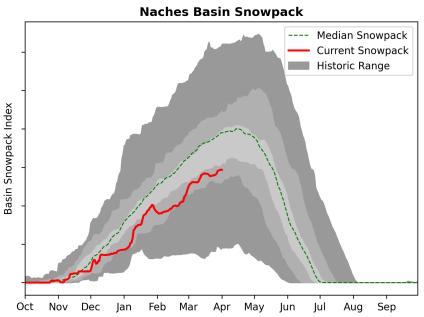
STREAMFLOW FORECAST

The April through September streamflow forecast for Ahtanum Ck at Union Gap is near normal at 96% of median. The April through September streamflow forecast for Yakima R nr Parker is below normal at 80% of median.



Naches Basin Summary

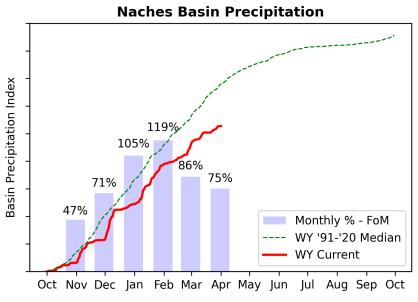
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 75% of median. This is slightly lower than March 1 when the basin snowpack was 77% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report <u>here</u>.

FoM = First of Month

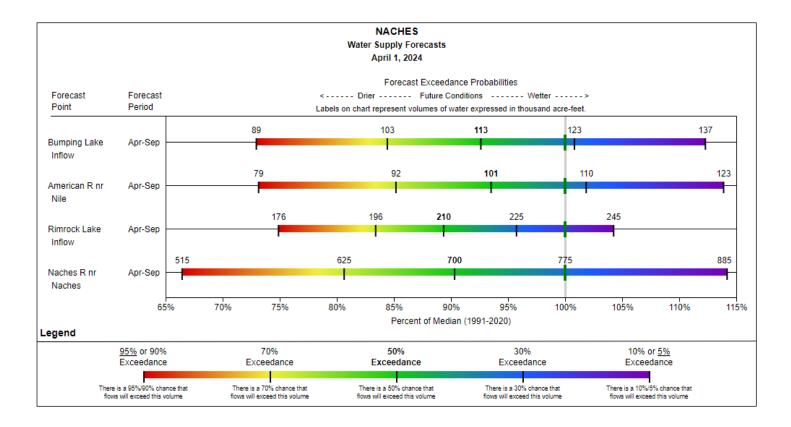
March precipitation is below normal at 75% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 82% of median.

As of April 1, storage at Bumping Lake is above normal at 188% of median. Volumetric storage at Rimrock Lake is below normal at 85% of median.

	Naches	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Nacnes		(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Rimrock		130.4	127.9	153.5	198.0	66%	65%	78%	85%	83%
Bumping Lake		27.4	11.6	14.6	33.7	81%	34%	43%	188%	80%
	Basin Index					68%	60%	73%	94%	83%
	# of reservoirs					2	2	2	2	2

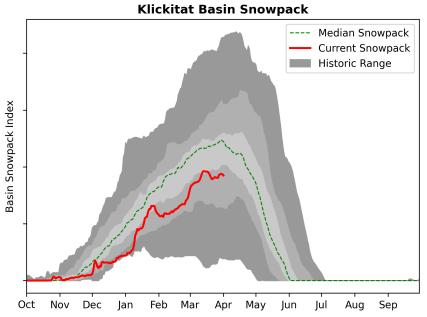
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 89% to 94% of median.



Klickitat Basin Summary

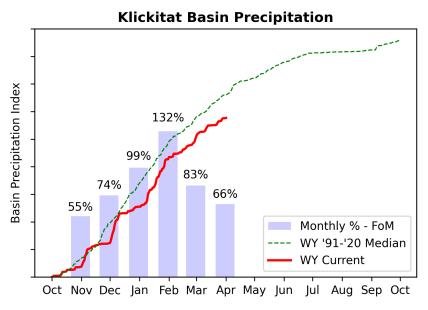
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 76% of median. This is slightly higher than March 1 when the basin snowpack was 74% of median.

PRECIPITATION



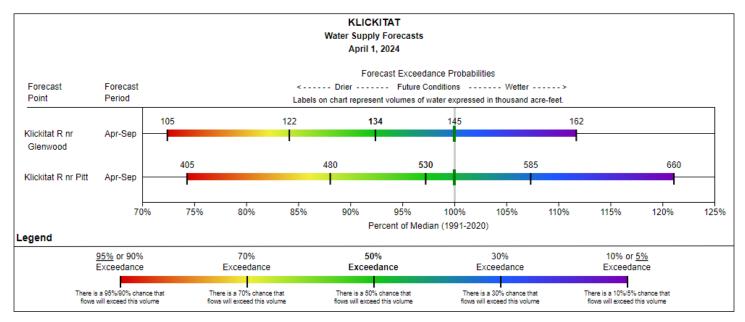
► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

March precipitation is below normal at 66% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 87% of median.

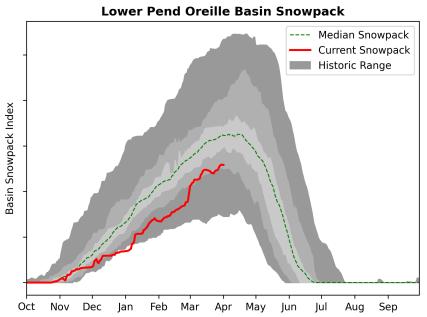
STREAMFLOW FORECAST

The April through September streamflow forecast for Klickitat R nr Glenwood is slightly below normal at 92% of median. The April through September streamflow forecast for Klickitat R nr Pitt is near normal at 97% of median.



Lower Pend Oreille Basin Summary

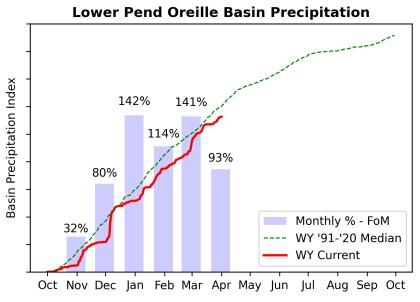
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 71% of median. This is slightly lower than March 1 when the basin snowpack was 65% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

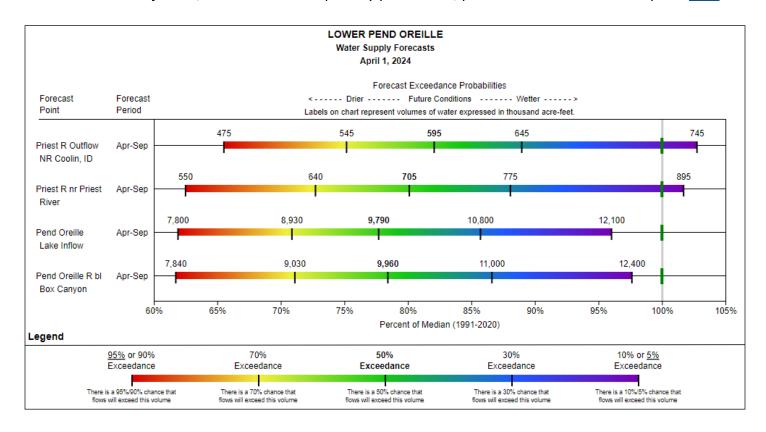
March precipitation is below normal at 93% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 94% of median.

As of April 1, storage at Priest Lake is above normal at 134% of median. Volumetric storage at Lower Pend Oreille Lake is below normal at 76% of median.

Lower Pend Oreille	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Lower Pend Oreille	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Priest Lake	86.5	53.9	64.4	119.3	72%	45%	54%	134%	84%
Lake Pend Oreille	570.9	591.0	755.3	1561.3	37%	38%	48%	76%	78%
Basin Inde	x				39%	38%	49%	80%	79%
# of reservoir	S				2	2	2	2	2

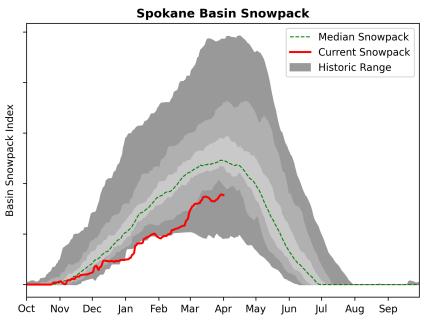
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin are below normal and range from 78% to 82% of median.



Spokane Basin Summary

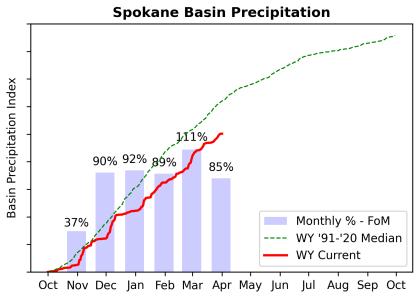
SNOWPACK



► View snowpack for individual sites by accessing the basin data report here.

As of April 1, the basin snowpack is 69% of median. This is higher than March 1 when the basin snowpack was 62% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

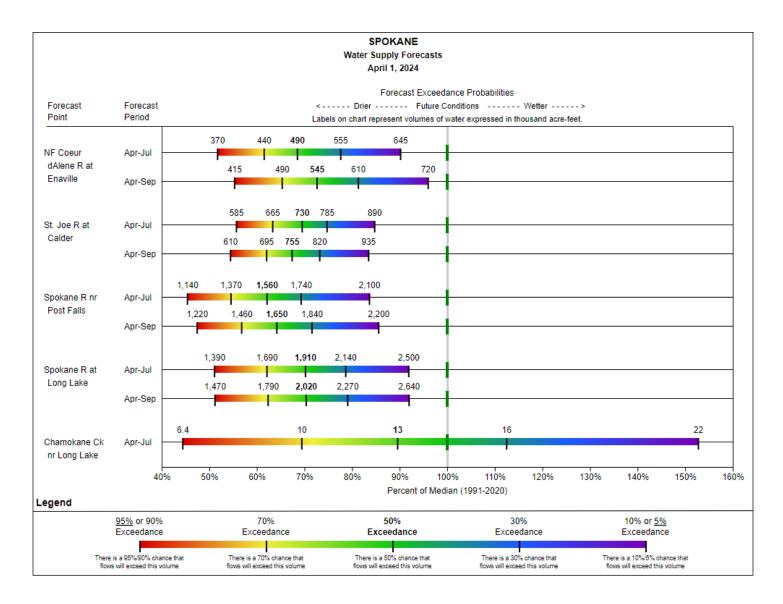
March precipitation is below normal at 85% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 81% of median.

As of April 1, volumetric storage at Lake Coeur d' Alene is slightly below normal at 97% of median.

	Spokane	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Spokane		(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Lake Coeur d' Alene		149.7	68.8	153.8	238.5	63%	29%	64%	97%	45%
	Basin Index					63%	29%	64%	97%	45%
	# of reservoirs					1	1	1	1	1

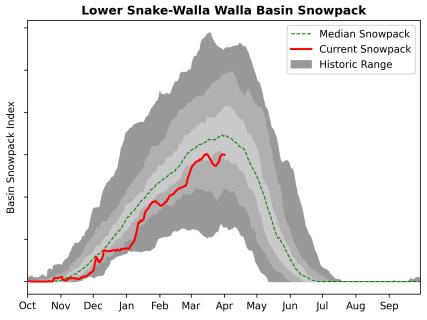
STREAMFLOW FORECAST

The streamflow forecasts for the primary period in the basin are below normal and range from 64% to 90% of median.



Lower Snake-Walla Walla Basin Summary

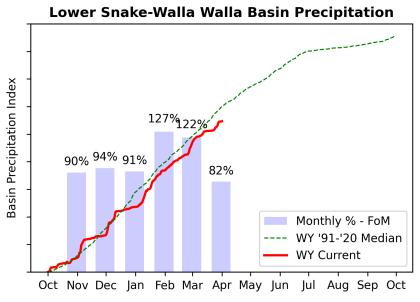
SNOWPACK



► View snowpack for individual sites by accessing the basin data report <u>here</u>.

As of April 1, the basin snowpack is 85% of median. This is slightly higher than March 1 when the basin snowpack was 84% of median.

PRECIPITATION



► View precipitation for individual sites by accessing the basin data report here.

FoM = First of Month

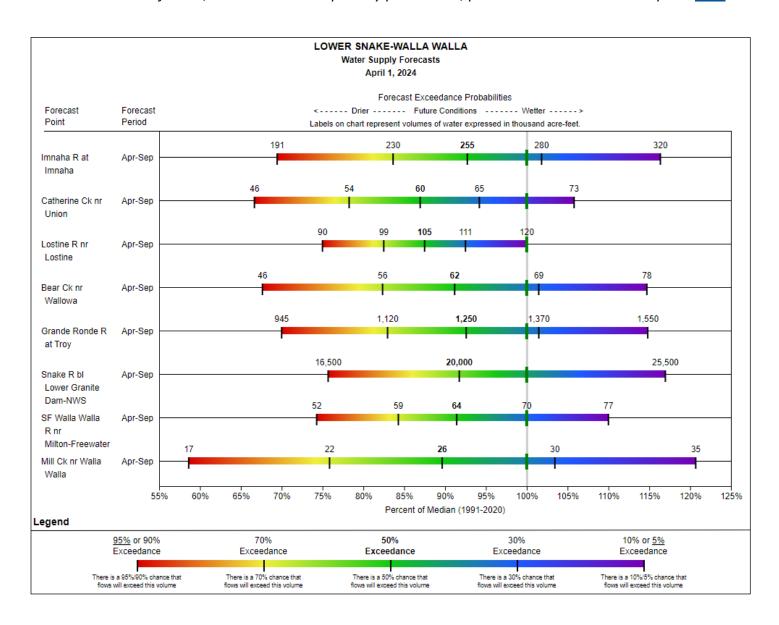
March precipitation is below normal at 82% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 91% of median.

As of April 1, volumetric storage at Wallowa Lake is above normal at 109% of median.

Lower Snake-Walla Walla		Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
		(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Wallowa Lake	20.0	17.3	18.4	37.5	53%	46%	49%	109%	94%
Basin Index					53%	46%	49%	109%	94%
# of reservoirs					1	1	1	1	1

STREAMFLOW FORECAST

The streamflow forecasts for the primary period in the basin are below normal and range from 70% to 93% of median.

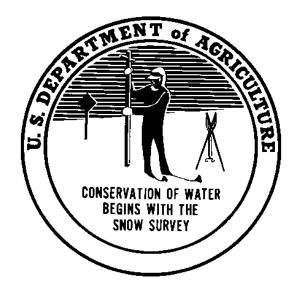


Additional Links

<u>Development and Interpretation of Water Supply Forecasts</u>
User Guide to Forecast Charts

For more water supply and resource management information, contact:

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