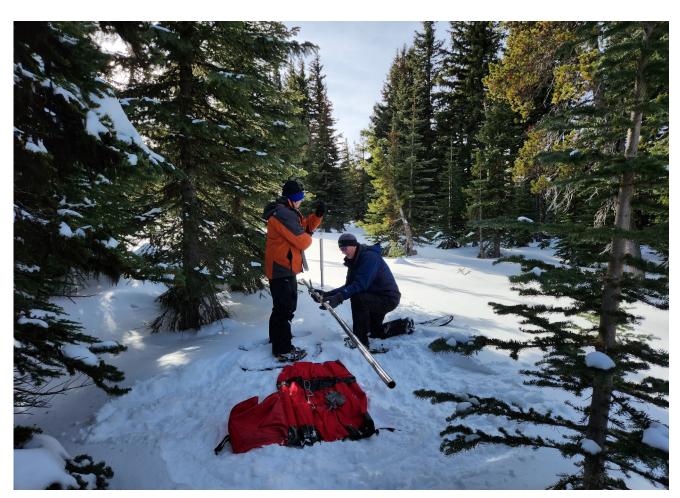




Oregon Water Supply Outlook Report

February 1, 2023



Dave Anderson and Dale McCabe, City of The Dalles, weigh a snow core sample along the High Prairie snow course. Dave Anderson has been measuring High Prairie snow course for over 30 years. Snowpack at the site is 84% of median as of February 1.

Photo taken by Allen Buckman, NRCS Hydrologist (January 31, 2023)

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Conditions Overview

Summary

From early to mid-January, a series of atmospheric river events (ARs) that hit California also provided additional snow accumulation across much of southern Oregon and parts of central and eastern Oregon. This has led to drought improvement in some areas of Klamath, Lake and Harney counties experiencing extreme drought (D3). Conversely, the shift in storm tracks from north (WA and OR) early in the season to south (CA) adversely impacted the central and northern Cascades and parts of northeastern Oregon where snowpack accumulation began declining at the start of January.

In the latter half of the month, minimal storm impacts throughout Oregon resulted in declining snowpack accumulation and water-year precipitation as % normal (1991-2020 median). Monthly precipitation across Oregon is well-below to below normal, resulting in a decline in water-year precipitation as % normal for all basins.



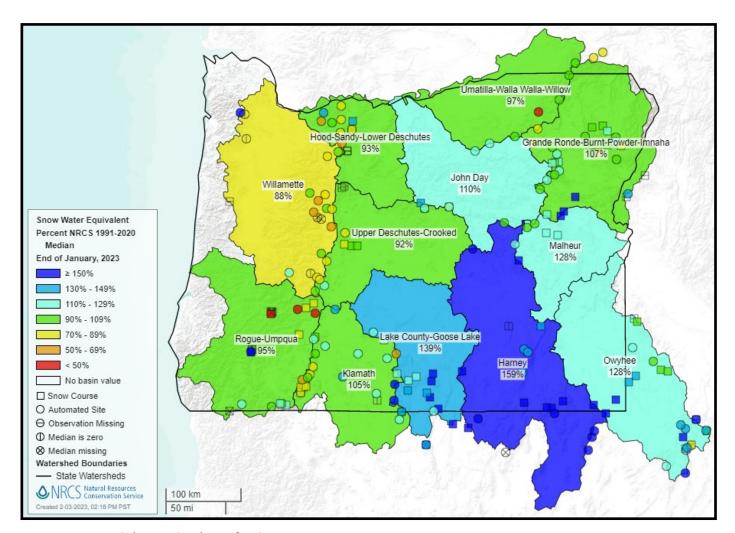
Julianne Robinson and Anna Burton, NRCS Engineers, prepare a snow core sample taken at the Tangent snow course east of Mount Bachelor. Snowpack at the site is 95% of median as of February 1st.

Photo taken by Andrew Neary, NRCS Ecological Site Specialist (January 26, 2023)

Snowpack

The impacts from ARs in the first half of January helped maintain above normal snowpack for many areas in southern Oregon, and in parts of central and eastern Oregon. However, the shift in storm tracks away from WA and OR towards the end of December led to a decline in snow accumulation across much of the central and northern Cascades and parts of northeastern Oregon. Towards the end of January, snow accumulation declined across the state due to minimal storm impacts.

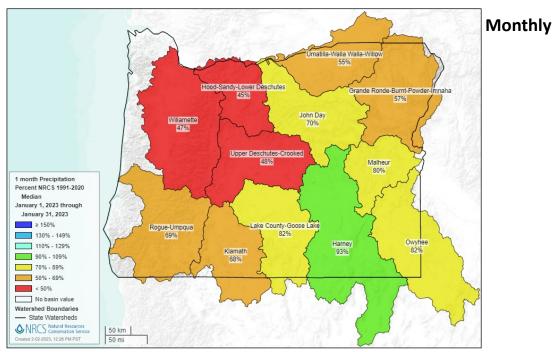
Snowpack along the Cascades is spatially variable, and ranges from well-above to well-below normal as of February 1. However, snowpack at most sites in the Cascades are below normal. Snowpack is generally above to well-above normal in southern Oregon east of the Cascades, and mostly near to above median in central and into northeastern Oregon, with some areas of below normal snowpack near to and south of Deadman Pass in the Blue Mountains.



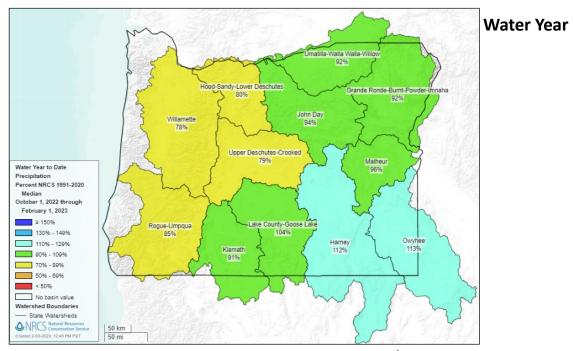
Basin snowpack (% median) as of February 1st.

Precipitation

Precipitation for much of the state was lacking in January. Monthly precipitation for most SNOTEL sites in the Cascades, northeastern Oregon, and all sites in the Steen Mountains is less than 70% of normal, with most sites in the central and northern Cascades below 50% of normal. This has contributed to growing precipitation deficits for basins along the Cascades, where water-year precipitation is below normal. In addition, precipitation deficits are emerging for some areas in northeastern Oregon and in the Malheur Basin where water-year precipitation is slightly below normal. In southeastern Oregon (including Lake County and Goose Lake Basin), water-year precipitation is above normal.



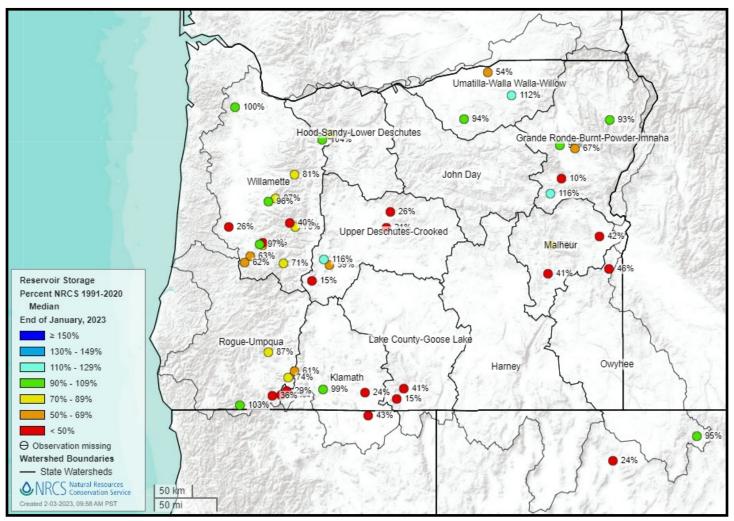
Basin monthly precipitation (% median) as of February 1st



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

Reservoirs

Reservoir storage volumes vary across the state from well-below to slightly above normal. Most reservoirs in and adjacent to the central Cascades are storing volumes below normal. Reservoirs in the Crooked River basin and several in southern Oregon continue to store volumes below to well-below normal. Storage volumes for reservoirs in Malheur County have declined as % normal since January 1 and are now storing volumes below 50% (except Beulah Reservoir). In northern Oregon, reservoirs are storing volumes below to slightly above normal.



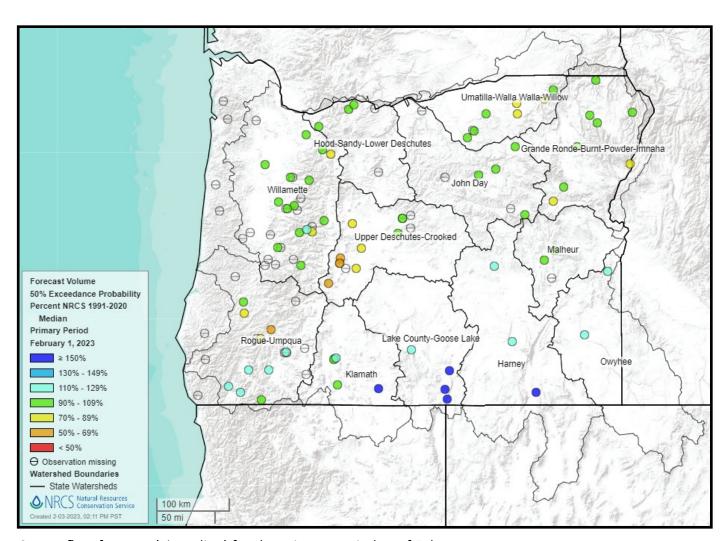
Reservoir storage (% median) as of February 1st.

Streamflow

Volumetric streamflow has declined across the state since January with few exceptions, notably in eastern Klamath Basin and few areas in the Siskiyou Mountains where volumetric streamflow is near to above normal. Most stream gauge sites in the Cascades and central Oregon are below normal. In northeastern and eastern Oregon, volumetric streamflow is below to above normal.

Water supply forecasts (WSFs) for February 1 have mostly declined since January 1, but are still mostly near to above normal across the state (50% exceedance forecast), with notable exceptions in the Deschutes, Umpqua and Umatilla river basins where WSFs are below normal. WSFs in the Rogue River basin and eastern Lake County and Goose Lake Basin have increased slightly and are above to well-above normal. Note that early season WSFs have comparatively low skill since much of the normal snow accumulation has yet to occur.

View the map for February observed streamflow here.



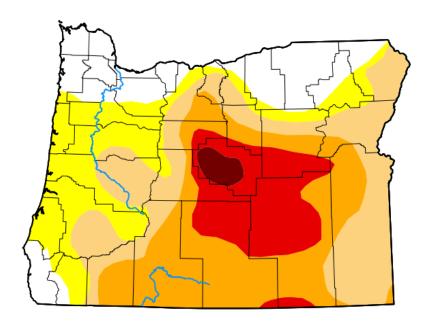
Streamflow forecast (% median) for the primary period as of February 1st.

Drought

Nearly 64% of the state is in some drought category (D1-D4), with 15% of the state in extreme to exceptional drought (D3-D4). Areas of the state in some drought category have increased from 60% in early January, while the area of the state affected by D3-D4 drought has declined from 26%.

Storm impacts in the first half of January have contributed to drought improvement from extreme (D3) to severe drought (D2) for many areas in Klamath, Lake and Harney Counties. Severe to exceptional drought still persists in central Oregon, notably in Crook County where exceptional drought remains. Moderate drought has expanded into the central Cascades and southern Willamette Basin due to continued drier than normal conditions.

U.S. Drought Monitor
Oregon



January 31, 2023 (Released Thursday, Feb. 2, 2023) Valid 7 a.m. EST

Drought Conditions (Percent Area)

		None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current		16.43	83.57	64.15	39.58	14.98	1.40
Last Weel 01-24-2023	•	16.43	83.57	64.15	39.58	14.98	1.40
3 Months A 11-01-2022	go	0.44	99.56	80.77	52.92	30.73	1.40
Start of Calendar Ye 01-03-2023	ar	13.46	86.54	59.75	46.03	26.18	1.40
Start of Water Yea 09-27-2022	r	0.42	99.58	68.05	52.42	30.73	1.40
One Year A	go	4.87	95.13	88.12	74.05	42.05	16.22

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions.

Local conditions may vary. For more information on the

Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

<u>Author:</u> Rocky Bilotta NCEI/NOAA





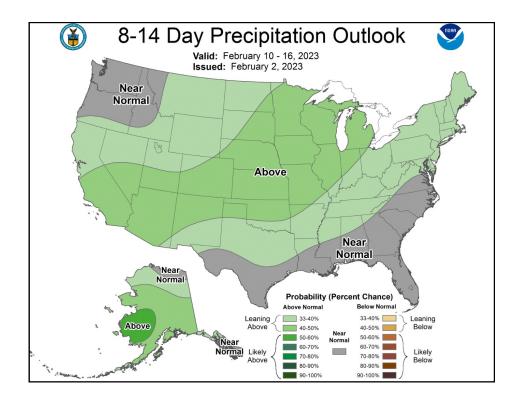


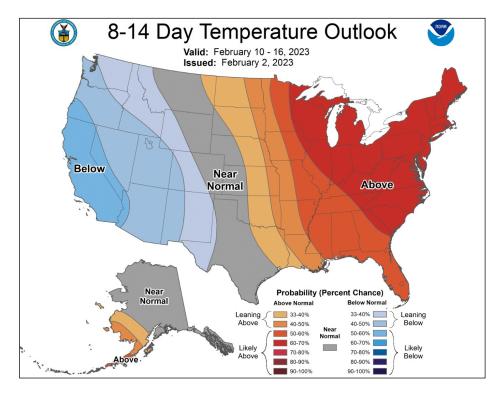


droughtmonitor.unl.edu

8-14 Day Outlook

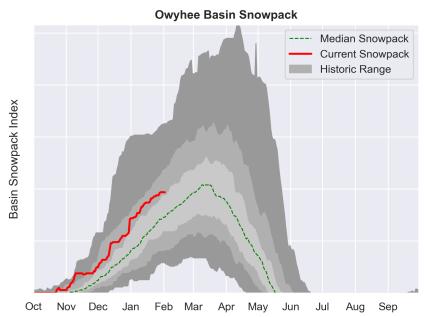
The Climate Prediction Center's 8-14 Day Outlook shows likely near-normal precipitation conditions for most Oregon with a slight probability of above normal precipitation along the southern border. In addition, there is a slight to moderate probability of below normal temperatures across the state.





Owyhee Basin Summary

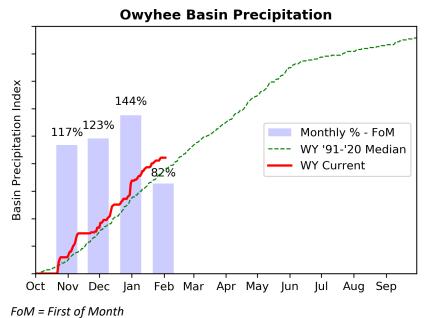
SNOWPACK



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

As of February 1, the basin snowpack is 128% of median. This is lower than last month when the basin snowpack was 164% of median.

PRECIPITATION



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

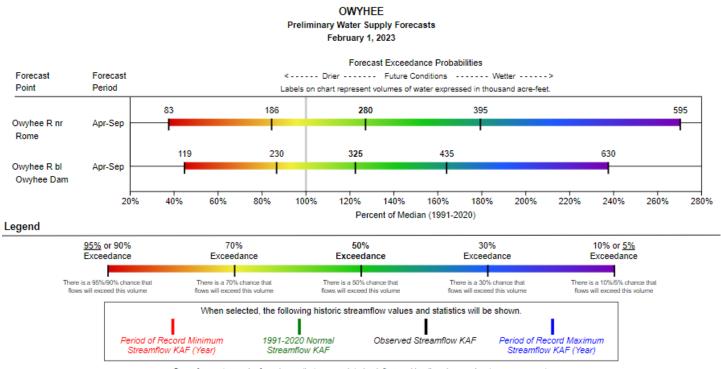
January precipitation is below normal at 82% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 113% of median.

Reservoir storage across the basin is currently below normal. As of February 1, storage at Lake Owyhee Reservoir is 46% of median and 95% of median at Wild Horse Reservoir .

Basinwide Summary: February 1, 2023 (Medians based On 1991-2020 reference period)									
Owyhee	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Owynee	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Lake Owyhee	119.4	144.1	258.8	715.0	17%	20%	36%	46%	56%
Wild Horse Reservoir	29.1	35.3	30.5	71.5	41%	49%	43%	95%	116%
Basin Index					19%	23%	37%	51%	62%
# of reservoirs					2	2	2	2	2

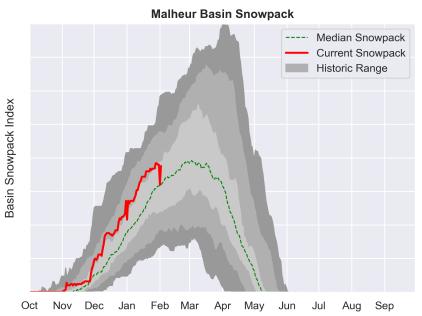
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 123% to 127% of median.



Malheur Basin Summary

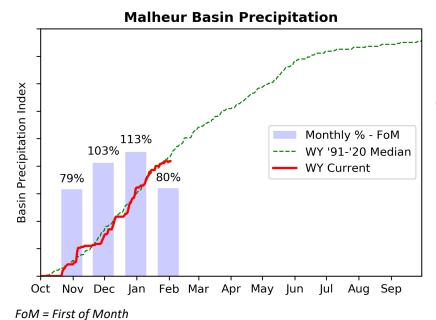
SNOWPACK



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

As of February 1, the basin snowpack is 128% of median. This is higher than last month when the basin snowpack was 121% of median. *Note: 1 site with absent data between the 1st of each months results in some chart noise.*

PRECIPITATION



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

January precipitation is below normal at 80% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 96% of median.

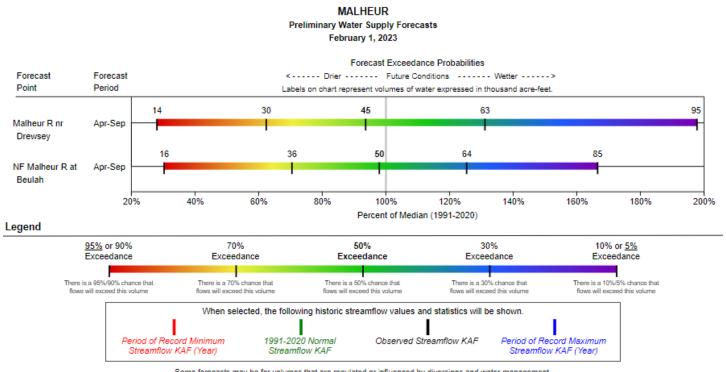
Reservoir storage across the basin is currently below normal. As of February 1, storage ranges from 41% at Warm Springs Reservoir to 76% of median at Beulah Reservoir.

Malheur	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %	
	Manieur	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Beulah		12.7	12.6	16.7	59.2	21%	21%	28%	76%	76%
Warm Springs		10.7	13.3	26.5	169.6	6%	8%	16%	41%	50%
Bully Creek		4.5	7.5	10.7	23.7	19%	32%	45%	42%	70%
	Basin Index					11%	13%	21%	52%	62%
	# of reservoirs					3	3	3	3	3

STREAMFLOW FORECAST

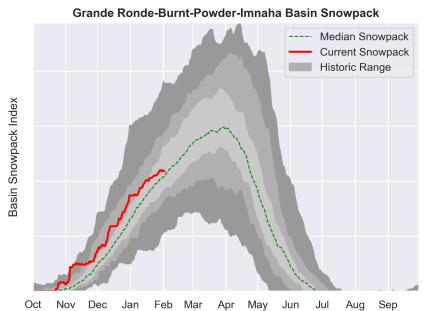
Volumetric streamflow forecasts are near normal and range from 94% to 98% as of February 1.

For data in tabular format, in addition to non-primary period data, please view the basin data reports here.



Grand Ronde, Burnt, Powder, Imnaha Basin Summary

SNOWPACK

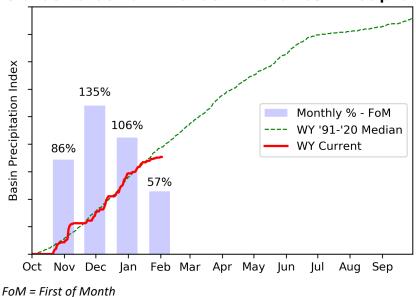


► View snowpack for individual sites by accessing the basin data report here.

As of February 1, the basin snowpack is 107% of median. This is lower than last month when the basin snowpack was 132% of median.

PRECIPITATION

Grande Ronde-Burnt-Powder-Imnaha Basin Precipitation



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

January precipitation is well below normal at 57% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 93% of median.

As of February 1, storage at major reservoirs in the basin ranges from 10% of median at Phillips Lake to 116% of median at Unity Lake.

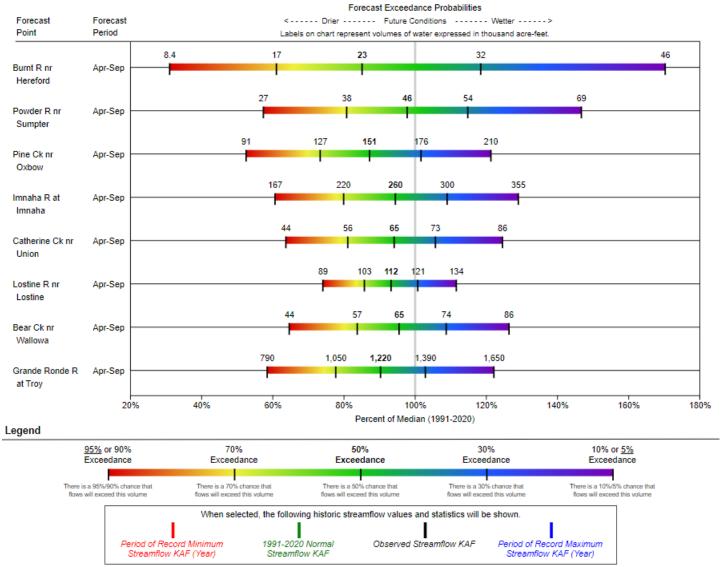
Grande Ronde-Burnt-Powder-Imnaha	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Unity	11.4	6.9	9.8	25.5	45%	27%	38%	116%	70%
Brownlee Reservoir		1026.1	1230.0	1420.0		72%	87%		83%
Wallowa Lake	14.9	14.9	16.0	37.5	40%	40%	43%	93%	93%
Phillips Lake	2.3	1.4	23.5	73.5	3%	2%	32%	10%	6%
Wolf Creek	2.6	1.6	2.7	11.1	23%	15%	24%	96%	61%
Thief Valley	9.1	4.7	13.5	13.3	68%	35%	101%	67%	35%
Basin Inde	ex				25%	67%	82%	62%	81%
# of reservoi	rs				5	6	6	5	6

STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 85% to 98% of median.

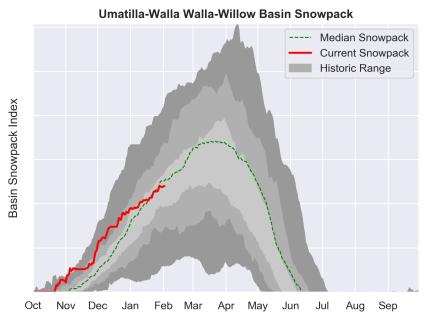
GRANDE RONDE-BURNT-POWDER-IMNAHA

Preliminary Water Supply Forecasts February 1, 2023



Umatilla, Walla Walla, Willow Basin Summary

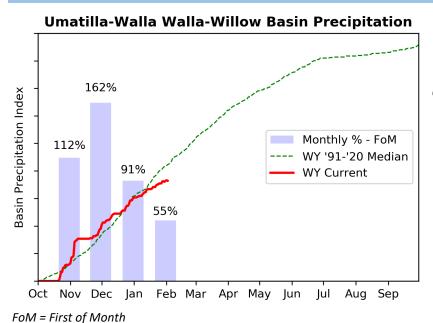
SNOWPACK



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

As of February 1, the basin snowpack is 97% of median. This is lower than last month when the basin snowpack was 122% of median.

PRECIPITATION



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

January precipitation is well below normal at 55% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 93% of median.

As of February 1, storage at major reservoirs in the basin ranges from 54% of median at Cold Springs Reservoir to 112% of median at McKay Reservoir.

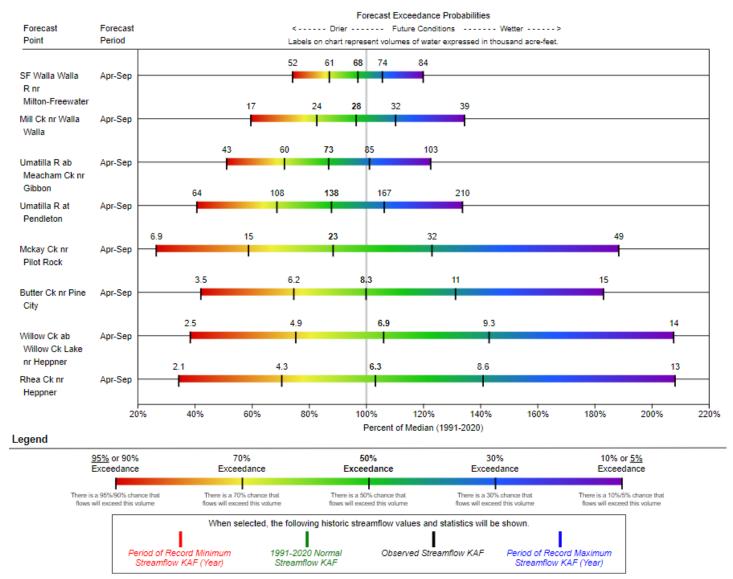
Umatilla-Walla Walla-Willow		Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Omatina-wana wana-winow	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Mckay	28.7	24.0	25.7	71.5	40%	34%	36%	112%	93%
Willow Creek	4.1	4.4	4.3	9.8	42%	45%	44%	94%	102%
Cold Springs	6.0	8.2	11.1	38.6	16%	21%	29%	54%	74%
Basin Inde	(32%	30%	34%	94%	89%
# of reservoir	S				3	3	3	3	3

STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 87% to 106% of median.

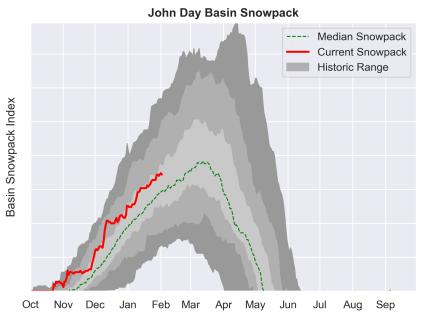
UMATILLA-WALLA WALLA-WILLOW

Preliminary Water Supply Forecasts February 1, 2023



John Day Basin Summary

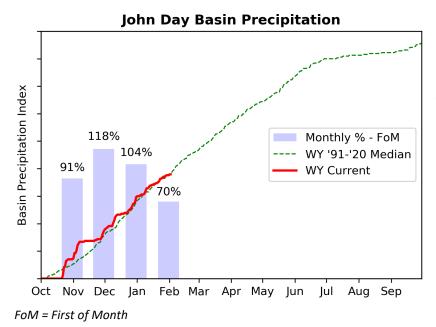
SNOWPACK



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

As of February 1, the basin snowpack is 110% of median. This is lower than last month when the basin snowpack was 133% of median.

PRECIPITATION

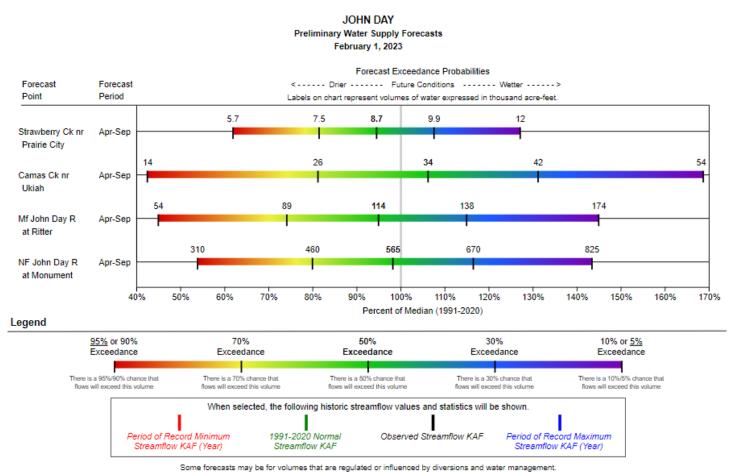


► View precipitation for individual sites by accessing the basin data report here.

January precipitation is below normal at 70% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 94% of median.

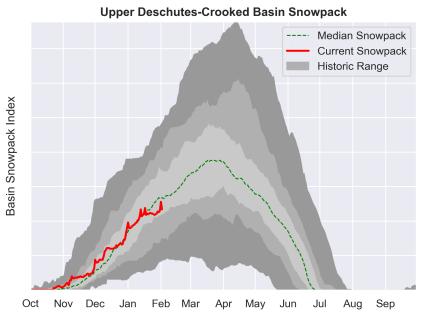
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 95% to 106% of median.



Upper Deschutes, Crooked Basin Summary

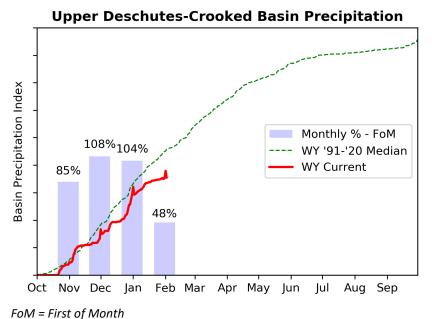
SNOWPACK



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

As of February 1, the basin snowpack is 92% of median. This is lower than last month when the basin snowpack was 114% of median. *Note: 1 site with absent data between the 1st of each months results in some chart noise.*

PRECIPITATION



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

January precipitation is well below normal at 48% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 80% of median. *Note: 1 site with absent data between the 1st of each months results in some chart noise.*

As of February 1, storage at major reservoirs in the basin ranges from 15% of median at Crescent Lake to 116% of median at Crane Prairie Reservoir.

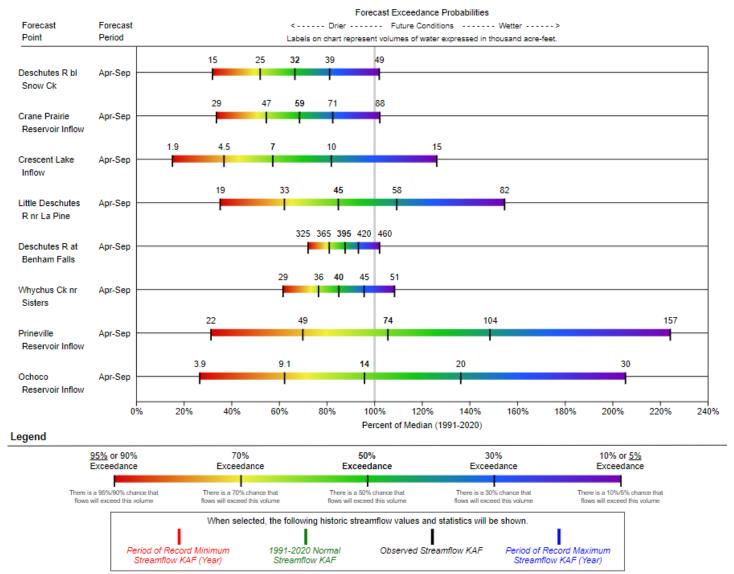
Unner Deschutes Creeked	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Upper Deschutes-Crooked	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Prineville	18.2	27.7	85.0	148.6	12%	19%	57%	21%	33%
Wickiup	99.0	81.6	166.7	200.0	50%	41%	83%	59%	49%
Crescent Lake	7.9	8.4	53.5	86.9	9%	10%	62%	15%	16%
Crane Prairie	46.1	44.7	39.6	55.3	83%	81%	72%	116%	113%
Ochoco	5.0	3.7	19.3	44.2	11%	8%	44%	26%	19%
Basin Index					33%	31%	68%	48%	46%
# of reservoirs	6				5	5	5	5	5

STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 57% to 106% of median.

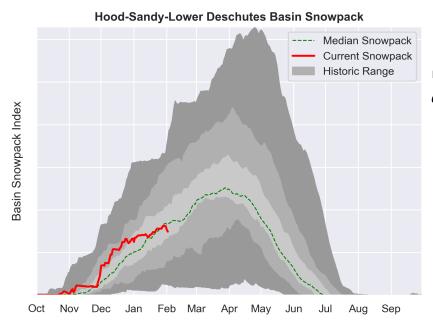
UPPER DESCHUTES-CROOKED

Preliminary Water Supply Forecasts February 1, 2023



Hood, Sandy, Lower Deschutes Basin Summary

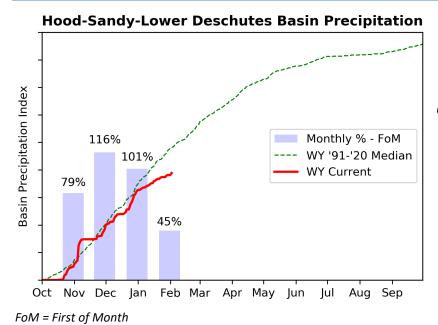
SNOWPACK



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

As of February 1, the basin snowpack is 93% of median. This is lower than last month when the basin snowpack was 120% of median.

PRECIPITATION



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

January precipitation is well below normal at 45% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 80% of median.

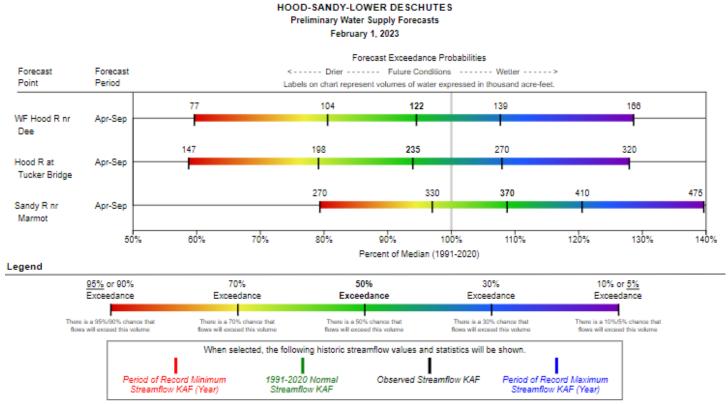
As of February 1, volumetric storage for Clear Lake is below normal at 73% of median.

Hood-Sandy-Lower Deschutes		Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Hood-Sandy-Lower Describes	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Clear Lake	2.0	1.0	2.8	13.1	16%	8%	21%	73%	37%
Basin Index					16%	8%	21%	73%	37%
# of reservoirs					1	1	1	1	1

STREAMFLOW FORECAST

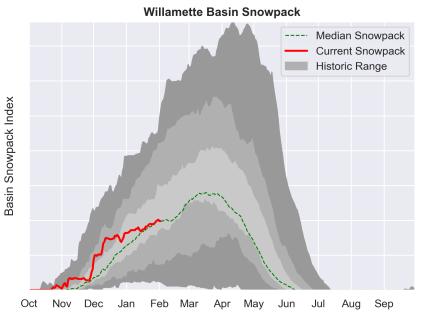
The April through September streamflow forecasts in the basin range from 94% to 109% of median.

For data in tabular format, in addition to non-primary period data, please view the basin data reports here.



Willamette Basin Summary

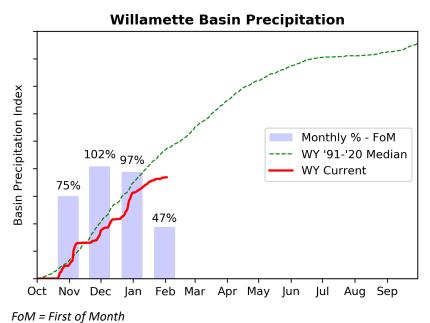
SNOWPACK



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

As of February 1, the basin snowpack is 88% of median. This is lower than last month when the basin snowpack was 111% of median.

PRECIPITATION



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

January precipitation is well below normal at 47% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 79% of median.

As of February 1, storage at major reservoirs in the basin ranges from 11% of median at Fall Creek Reservoir to 104% of median at Timothy Lake.

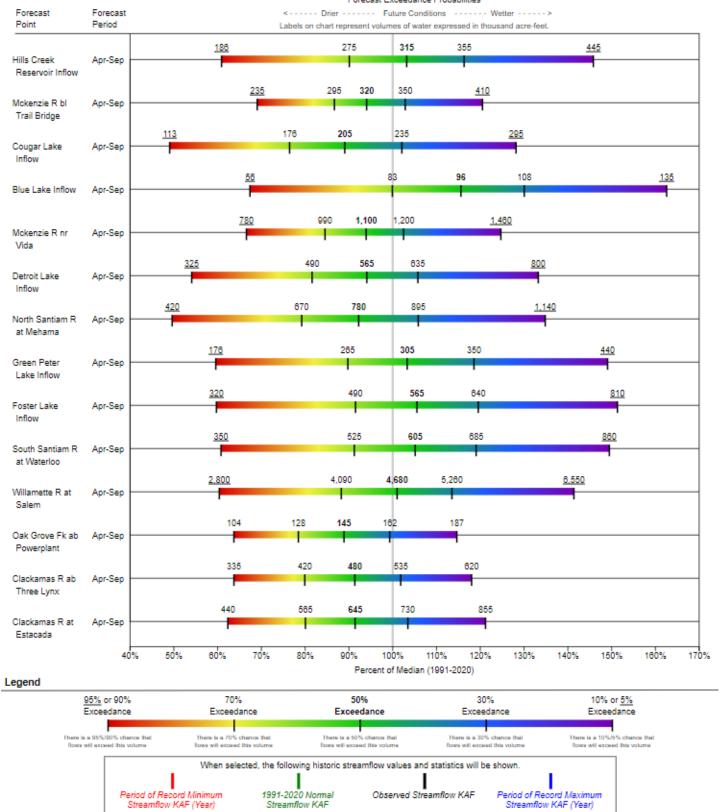
Willamette	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
willamette	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Green Peter	154.9	156.9	179.0	402.8	38%	39%	44%	87%	88%
Cougar	39.0	37.4	51.5	174.9	22%	21%	29%	76%	73%
Fall Creek	1.3	1.3	12.1	116.0	1%	1%	10%	11%	11%
Dorena	7.7	6.7	12.2	72.1	11%	9%	17%	63%	55%
Blue River	3.8	7.1	9.6	82.3	5%	9%	12%	40%	74%
Timothy Lake	54.8	53.9	52.5	63.6	86%	85%	83%	104%	103%
Cottage Grove	3.1	3.4	5.0	31.8	10%	11%	16%	62%	67%
Detroit	145.8	150.8	179.5	426.8	34%	35%	42%	81%	84%
Lookout Point	108.1	108.9	137.0	433.2	25%	25%	32%	79%	79%
Dexter	24.6	24.8	25.4					97%	98%
Henry Hagg Lake	38.0	37.8	37.8	53.3	71%	71%	71%	100%	100%
Hills Creek	70.2	93.7	99.1	279.2	25%	34%	35%	71%	95%
Fern Ridge	2.5	4.2	9.5	97.3	3%	4%	10%	26%	44%
Foster	22.1	24.1	23.0	46.2	48%	52%	50%	96%	105%
	Basin Index				29%	30%	35%	81%	85%
	# of reservoirs				13	13	13	14	14

STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 89% to 116% of median.

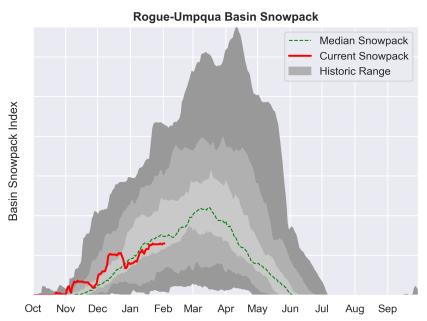
WILLAMETTE Preliminary Water Supply Forecasts February 1, 2023

Forecast Exceedance Probabilities



Rogue, Umpqua Basin Summary

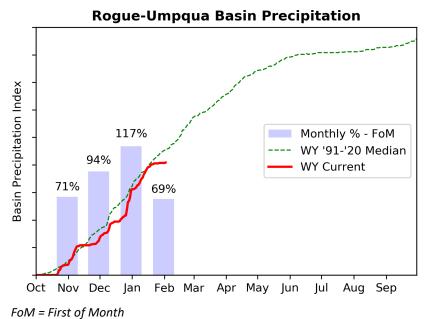
SNOWPACK



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

As of February 1, the basin snowpack is 95% of median. This is lower than last month when the basin snowpack was 105% of median.

PRECIPITATION



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

January precipitation is below normal at 69% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 86% of median.

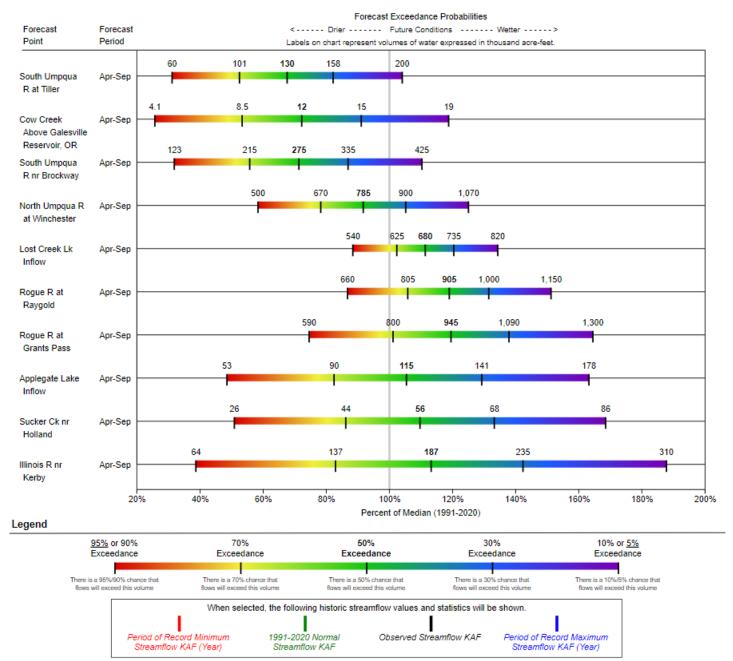
As of February 1, storage at major reservoirs in the basin ranges from 36% of median at Emigrant Lake to 103% of median at Applegate Lake.

	Rogue-Umpqua	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
	Rogue-ompqua	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Fish Lake		3.2	2.9	4.3	7.9	40%	37%	54%	74%	67%
Emigrant Lake		7.7	2.7	21.7	39.0	20%	7%	56%	36%	13%
Lost Creek		143.4	86.0	164.1	315.0	46%	27%	52%	87%	52%
Applegate		10.5	10.5	10.2	75.2	14%	14%	14%	103%	103%
	Basin Inde	ex				38%	23%	46%	82%	51%
	# of reservoi	irs				4	4	4	4	4

STREAMFLOW FORECAST

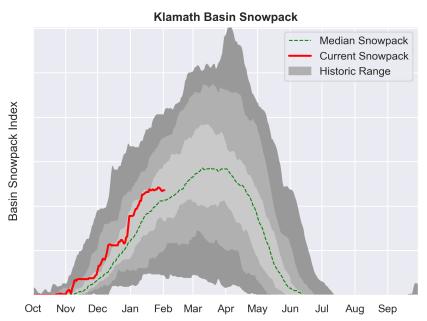
The April through September streamflow forecasts in the basin range from 68% to 120% of median.

ROGUE-UMPQUA Preliminary Water Supply Forecasts February 1, 2023



Klamath Basin Summary

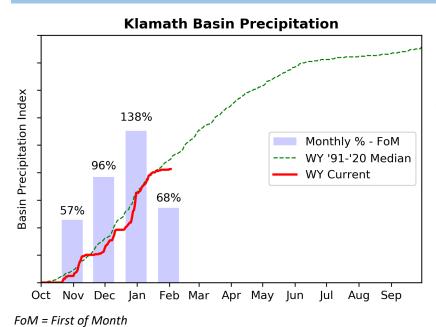
SNOWPACK



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

As of February 1, the basin snowpack is 105% of median. This is lower than last month when the basin snowpack was 129% of median.

PRECIPITATION



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

January precipitation is below normal at 68% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 91% of median.

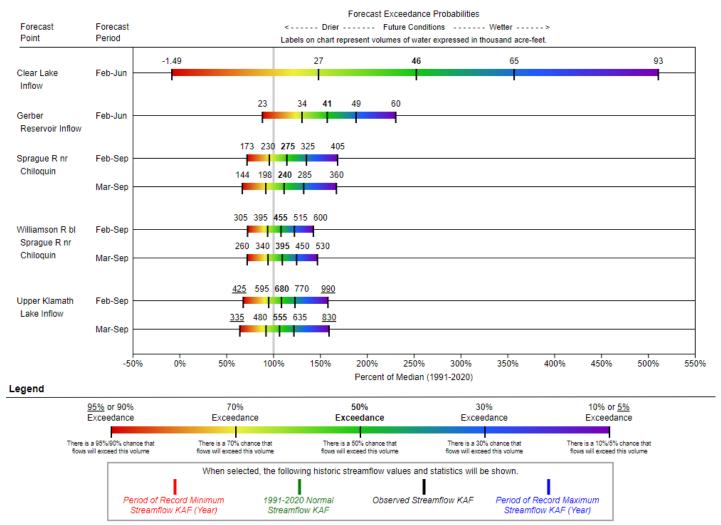
As of February 1, storage at major reservoirs in the basin ranges from 21% of median at Hyatt Prairie Reservoir to 99% of median at Upper Klamath Lake.

Klamath	Current	Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
Kiamatii	(KAF)	(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Howard Prairie	9.9	3.6	34.5	62.1	16%	6%	56%	29%	10%
Gerber	9.2	4.0	38.6	94.3	10%	4%	41%	24%	10%
Hyatt Prairie	2.2	0.9	10.5	16.2	13%	6%	65%	21%	9%
Upper Klamath Lake	328.3	301.1	330.6	523.7	63%	57%	63%	99%	91%
Fourmile Lake	3.5	2.2	5.8	15.6	23%	14%	37%	61%	38%
Clear Lake	53.6	59.5	123.7	513.3	10%	12%	24%	43%	48%
•	Basin Index				33%	30%	44%	75%	68%
#	of reservoirs				6	6	6	6	6

STREAMFLOW FORECAST

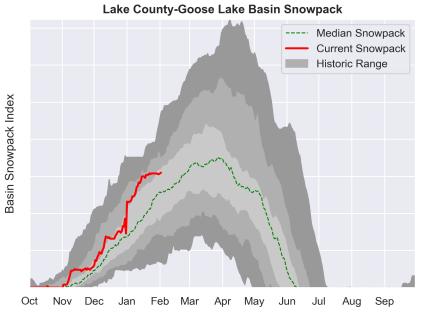
Volumetric streamflow forecasts are above to well above normal and range from 108% to 253%.

KLAMATH Preliminary Water Supply Forecasts February 1, 2023



Lake County, Goose Lake Basin Summary

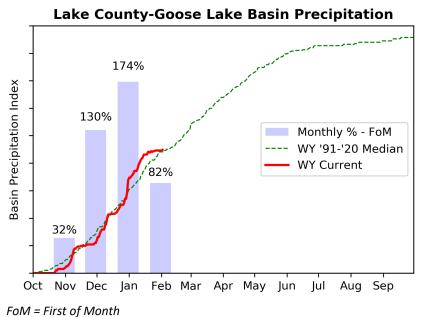
SNOWPACK



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

As of February 1, the basin snowpack is 139% of median. This is lower than last month when the basin snow-pack was 177% of median.

PRECIPITATION



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

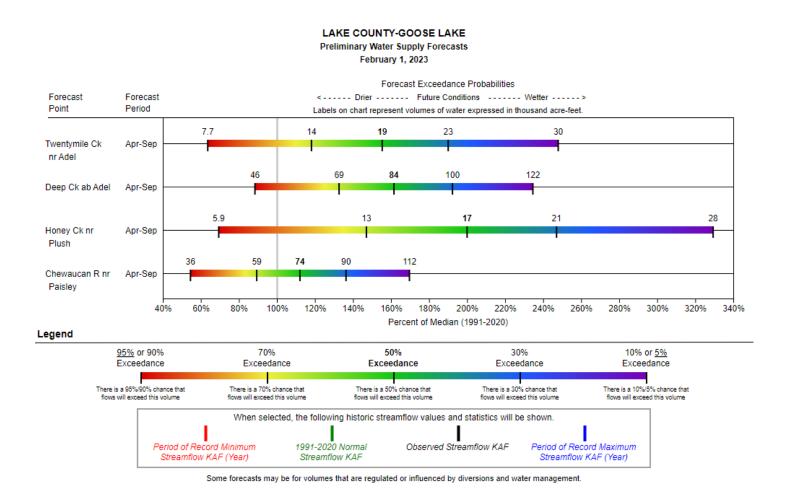
January precipitation is below normal at 82% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 104% of median.

As of February 1, storage at major reservoirs in the basin ranges from 15% of median at Drews Reservoir to 41% of median at Cottonwood Reservoir.

	Lake County-Goose Lake		Last Year	Median	Capacity	Current %	Last Year %	Median %	Current %	Last Year %
			(KAF)	(KAF)	(KAF)	Capacity	Capacity	Capacity	Median	Median
Cottonwood		1.4	1.0	3.5	9.3	15%	10%	38%	41%	28%
Drews		3.8	2.3	25.6	63.5	6%	4%	40%	15%	9%
	Basin Index					7%	4%	40%	18%	11%
	# of reservoirs					2	2	2	2	2

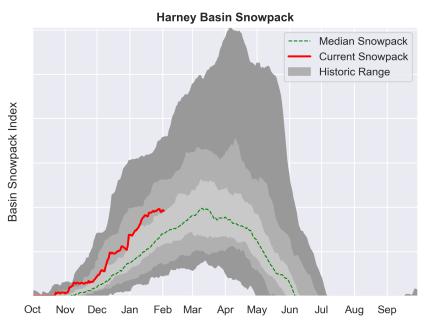
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 112% to 200%.



Harney Basin Summary

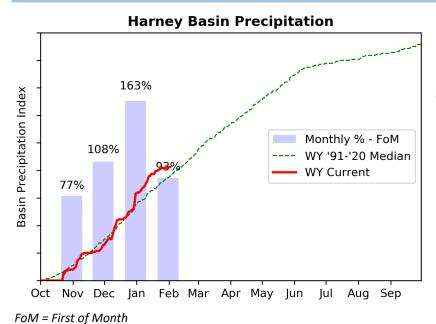
SNOWPACK



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

As of February 1, the basin snowpack is 159% of median. This is lower than last month when the basin snowpack was 183% of median.

PRECIPITATION

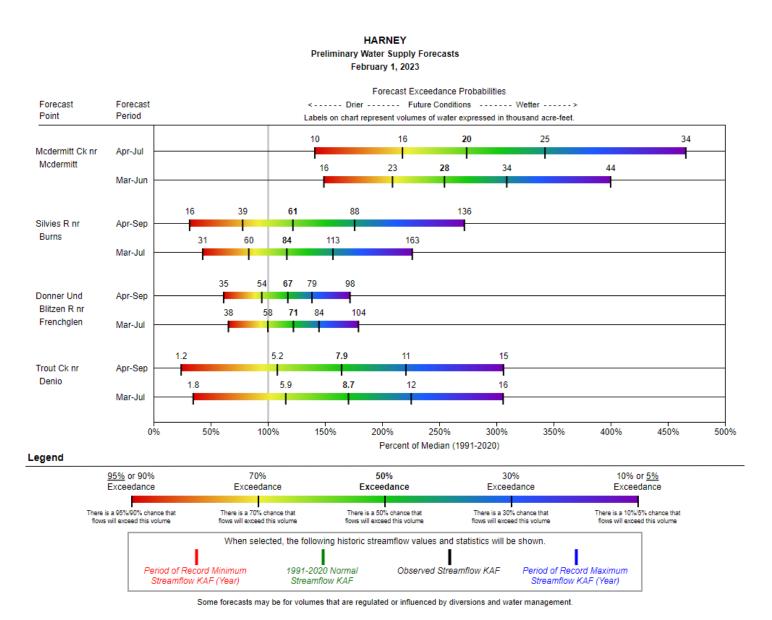


► View precipitation for individual sites by accessing the basin data report <u>here</u>.

January precipitation is slightly below normal at 93% of median. Precipitation since the beginning of the water year (October 1 - February 1) is 113% of median.

STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 118% to 165% of median.



Additional Resources

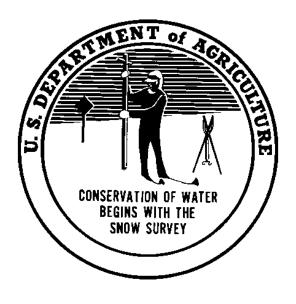
Interpreting Water Supply Forecast Charts
Water Supply Forecasting

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For more water supply and resource management information, contact:

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