

Oregon Water Supply Outlook Report

April 1, 2025



Hayrick Butte in the central Oregon Cascades. Snowpack at nearby Hogg Pass SNOTEL station is 112% of normal as of April 1.

Photo credit: David Hill, OSU (April 1, 2025)

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Conditions Overview

Summary

The onset of snowmelt has begun at the larger basin scale across Oregon, with anomalously warm temperatures in the second half of March initiating the melt season. However, several SNOTEL stations in southern Oregon, including the Rogue Basin, recorded minor snow accumulation at the end of the month from a moderate atmospheric river event. The rate of snowmelt has been particularly rapid in southeastern Oregon in the Blue Mountain Range, contributing to flood conditions in parts of Harney County. Over the past 10 days (as of April 1), Rock Springs, Starr Ridge, and Lake Creek R.S. SNOTEL stations have lost more than 4 inches of snow water equivalent (SWE). Snowpack in this region and across much of eastern and southern Oregon have been robust this year, which bodes well for water supply but does and has presented, in some cases, enhanced flood risks moving into the melt season.

Overall, snowpack across much of the state is above normal, with near normal snowpack in the Hood, Sandy, and Lower Deschutes Basin. Low-elevation (below 4,000 ft) snowpack on the western side of the central and northern Oregon Cascade Range remains below normal. Monthly precipitation for March is mostly above normal statewide. Water year-to-date precipitation is also above normal statewide, with notable deficit improvement since March 1 in the Hood, Sandy, and Lower Deschutes Basin. These conditions bode well for late spring and summer water supply, with all forecasts near to above normal statewide.

While the summer water supply outlook—based on winter conditions and reservoir storage—is positive for most basins, temperatures during the summer can still drive water supply degradation and drought development.

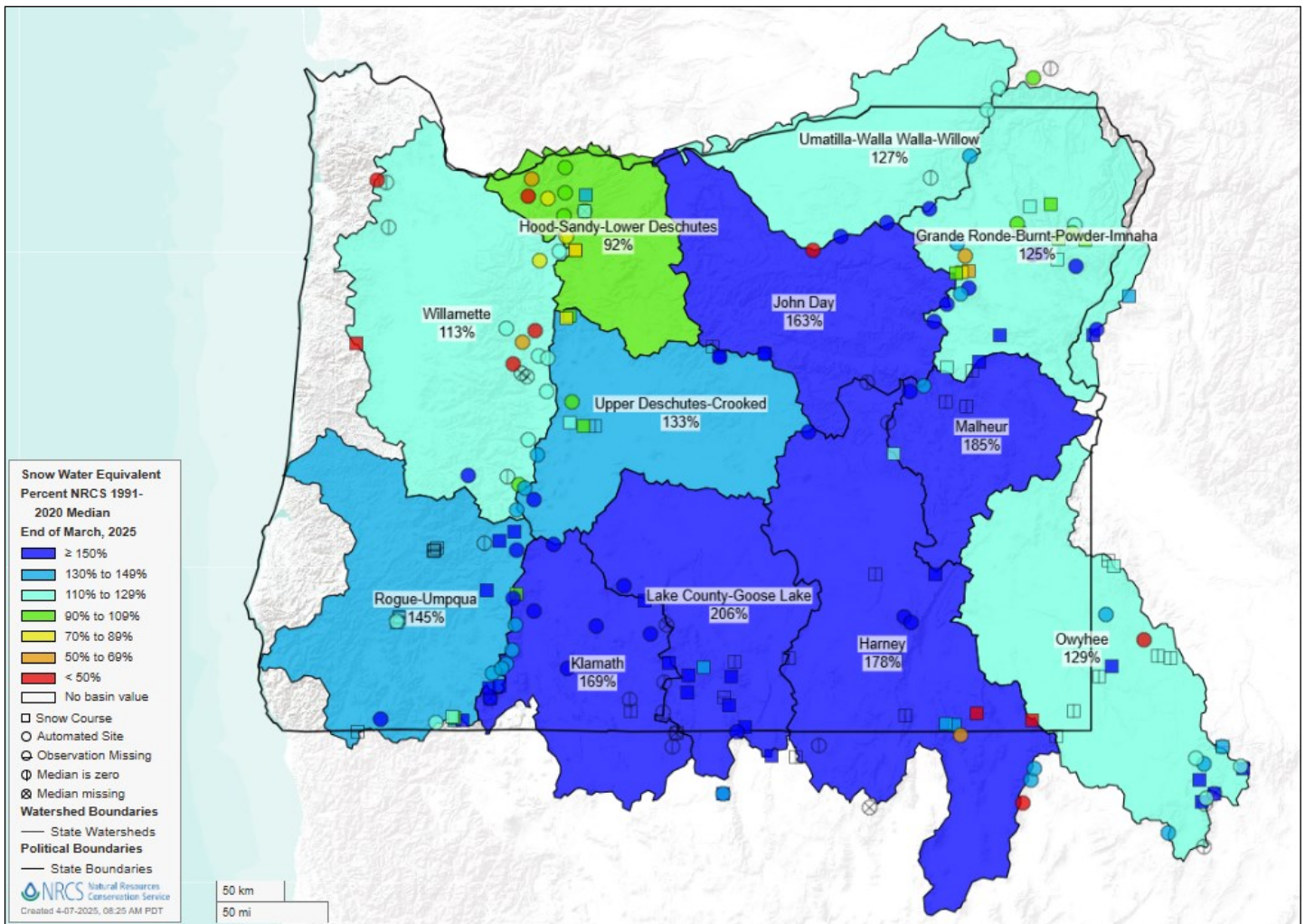


Hailey Conner (OWRD) and Shane Graham (Jackson County), Assistant Watermasters, survey the Mt. Ashland Ski Bowl Road Snow Course in the Rogue River-Siskiyou National Forest. Snowpack is 136% of normal as of April 1. Photo: Shavon Haynes, District 13 Watermaster, OWRD (April 1, 2025)

Snowpack

As of April 1, snowpack is mostly above normal across the state, except for near normal snowpack in the Hood, Sandy, and Lower Deschutes Basin. In mid-March, an atmospheric river (AR) provided significant snow accumulation across the state. This AR was followed by a second, comparatively warm AR that brought additional precipitation as mostly rain. This event kicked off the snowmelt season for all major basins, near the normal timing of peak snowpack. At the end of March, an AR provided some additional snow accumulation in southern Oregon, in particular the Rogue Basin.

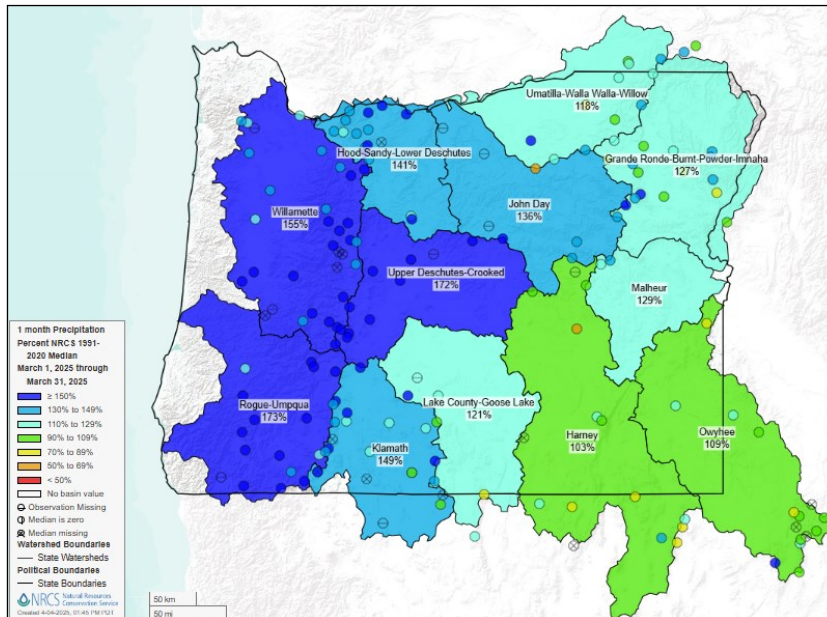
Snowpack is above normal in southern and eastern Oregon, ranging from 129% to 206% of normal. In the Willamette and Hood, Sandy, and Lower Deschutes basins, snowpack ranges from 92%-113% of normal. Snowpack is 133% of normal in the Upper Deschutes and Crooked Basin.



Basin snowpack (% of normal) as of April 1

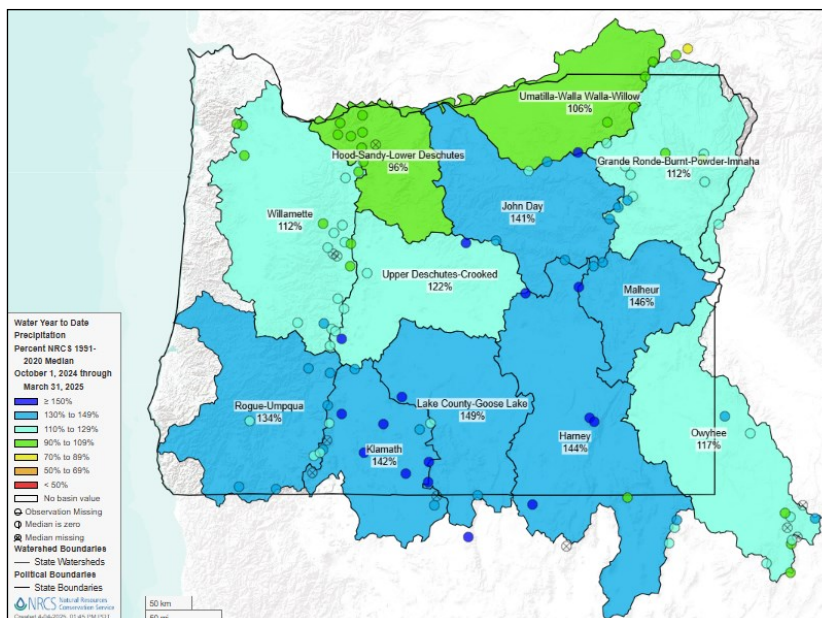
Precipitation

March was a relatively wet month due to a cycle of 2 atmospheric rivers that impacted the state after March 12. Near to above normal precipitation in March statewide led to slight improvements in water year-to-date precipitation. WYTD precipitation for all major basins is near to above normal. Deficits in WYTD precipitation at SNOTEL stations in the Mt. Hood region has improved since March 1.



Monthly

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



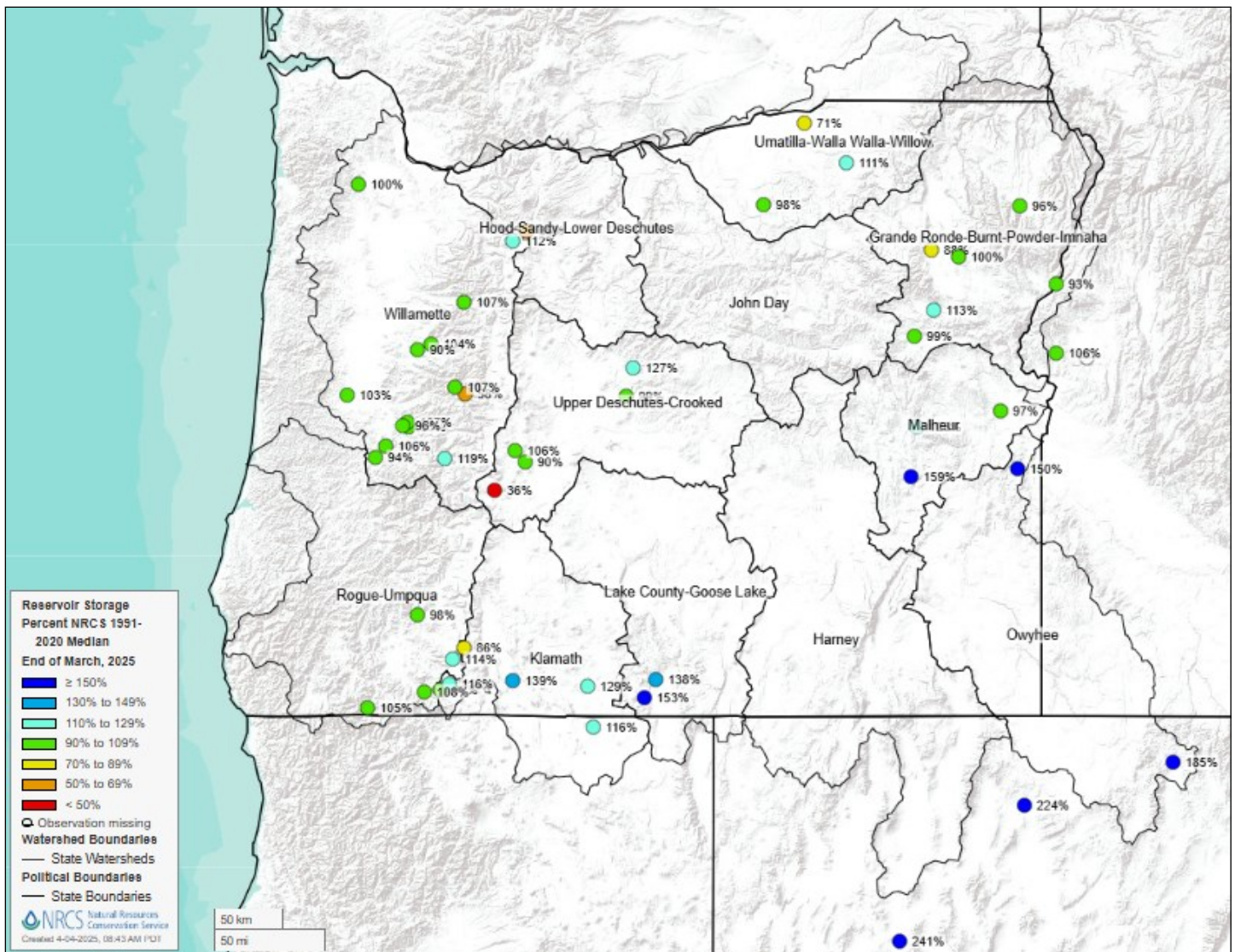
Water Year

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

Reservoirs

Volumetric storage at most reservoirs across the state is near to above normal.

Reservoir operators account for a variety of factors when choosing to store or release water, including flooding, irrigation, ecological management, and other water needs. These management needs may impact storage values for a reservoir.



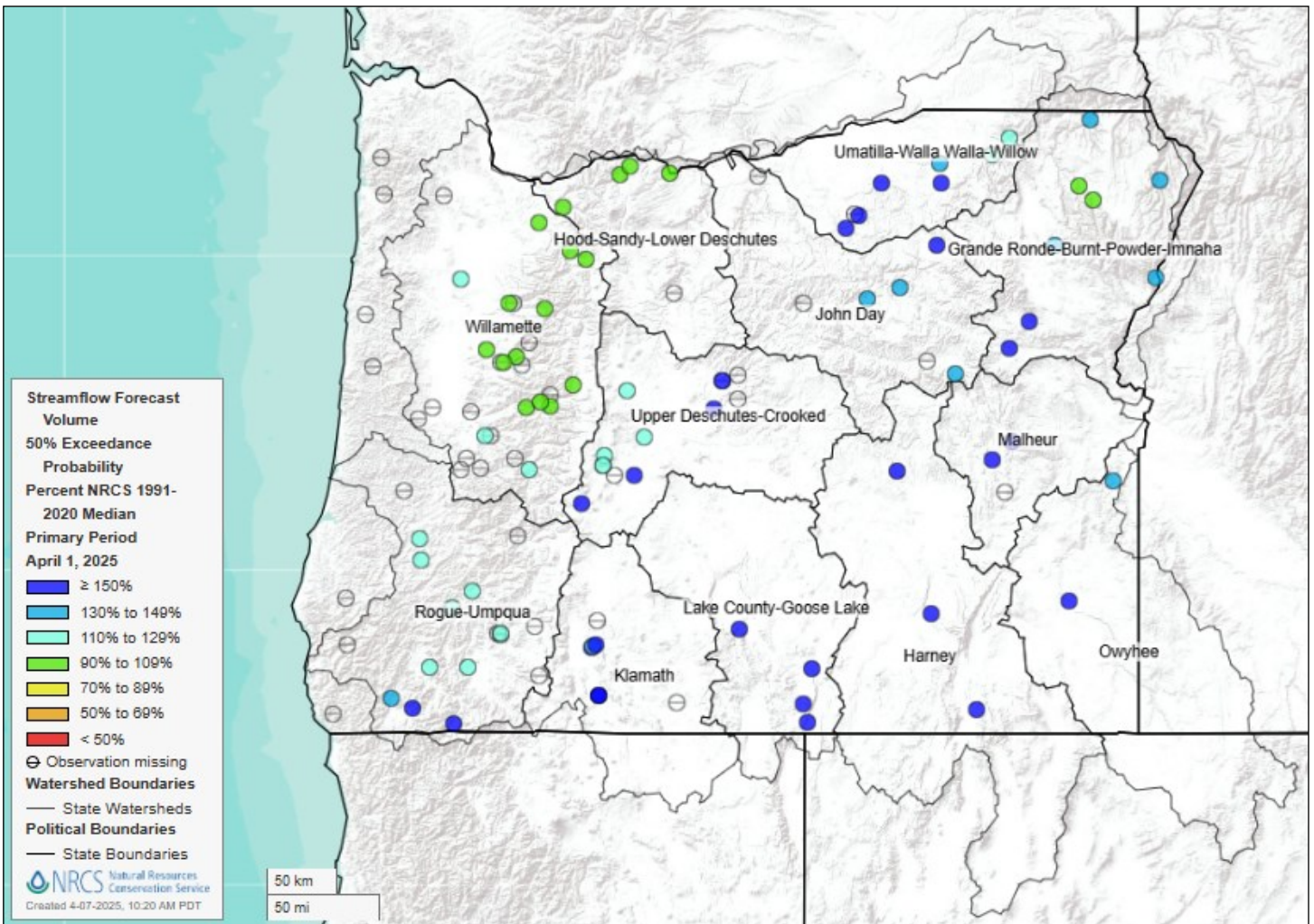
Reservoir storage (% of normal storage capacity) as of April 1

Observed and Forecasted Streamflow

Streamflow across the state is mostly above normal after a fairly wet March and melting of snowpack.

Water supply forecasts (WSFs) in Oregon, using the (the 50%-exceedance probability) for April 1 improved slightly for most points since March 1. WSFs are generally near to above normal across the state, with notable improvements to forecasts on the North Santiam River since March 1.

View the map for March observed streamflow [here](#).



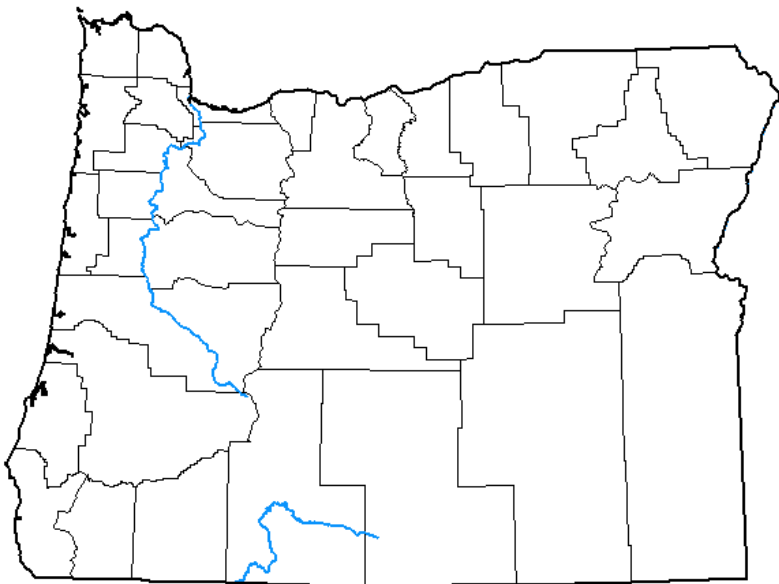
Streamflow forecasts (% of normal) for the primary period as of April 1

Drought

As of April 1, there is no drought in Oregon. This is the first time the state is drought free on or near April 1 since 2017.

At the beginning of the water year (October. 1), 61% of the state was in moderate (D1), with 1% of the state experiencing severe drought (D2).

U.S. Drought Monitor
Oregon



April 1, 2025
(Released Thursday, Apr. 3, 2025)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)						
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 03-25-2025	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 12-31-2024	70.24	29.76	8.74	0.00	0.00	0.00
Start of Calendar Year 01-07-2025	88.40	11.60	1.29	0.00	0.00	0.00
Start of Water Year 10-01-2024	10.56	89.44	61.05	1.36	0.00	0.00
One Year Ago 04-02-2024	69.17	30.83	8.50	0.00	0.00	0.00

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme 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>

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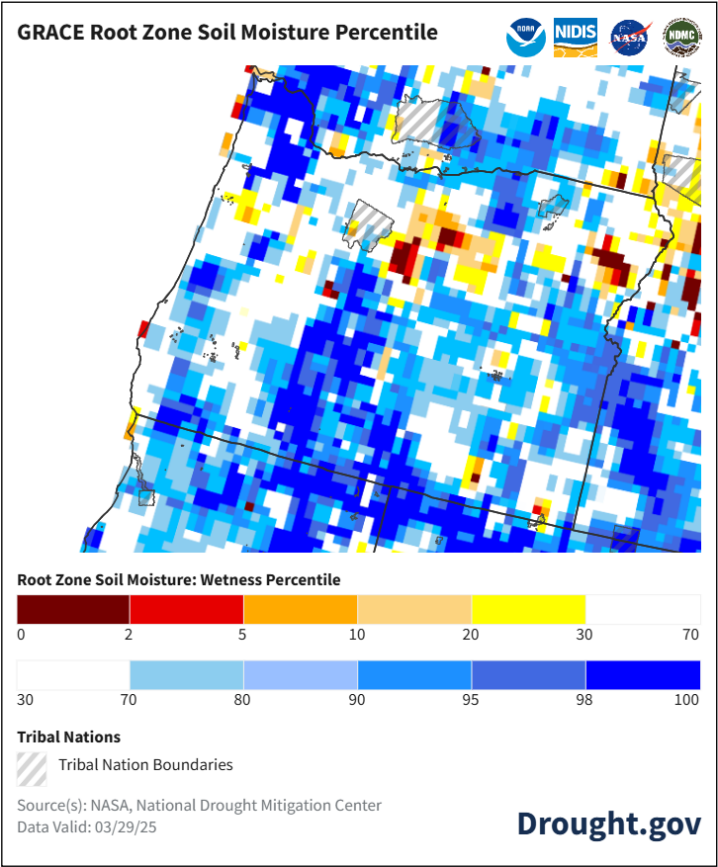
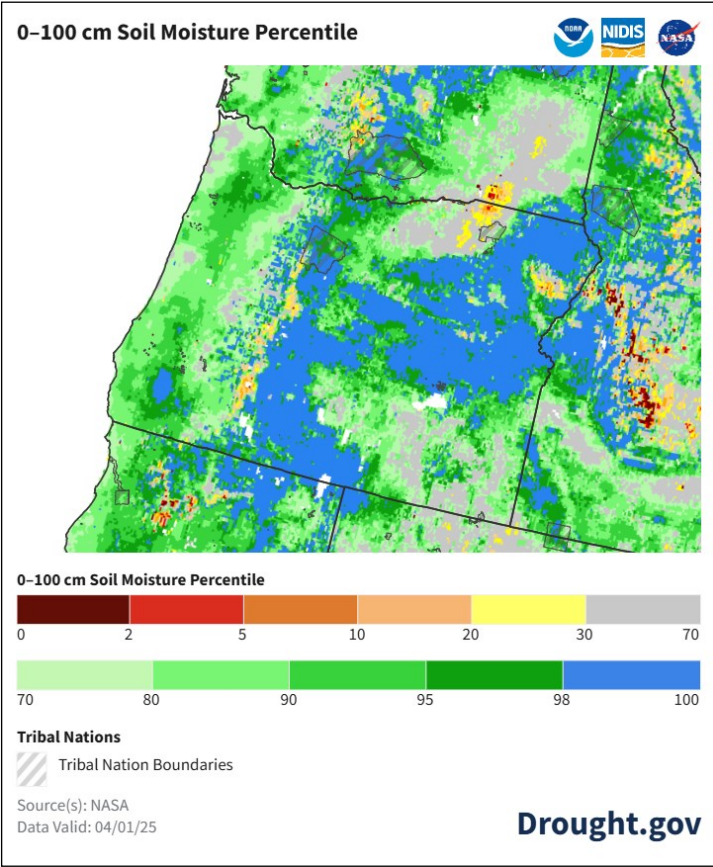


droughtmonitor.unl.edu

Soils

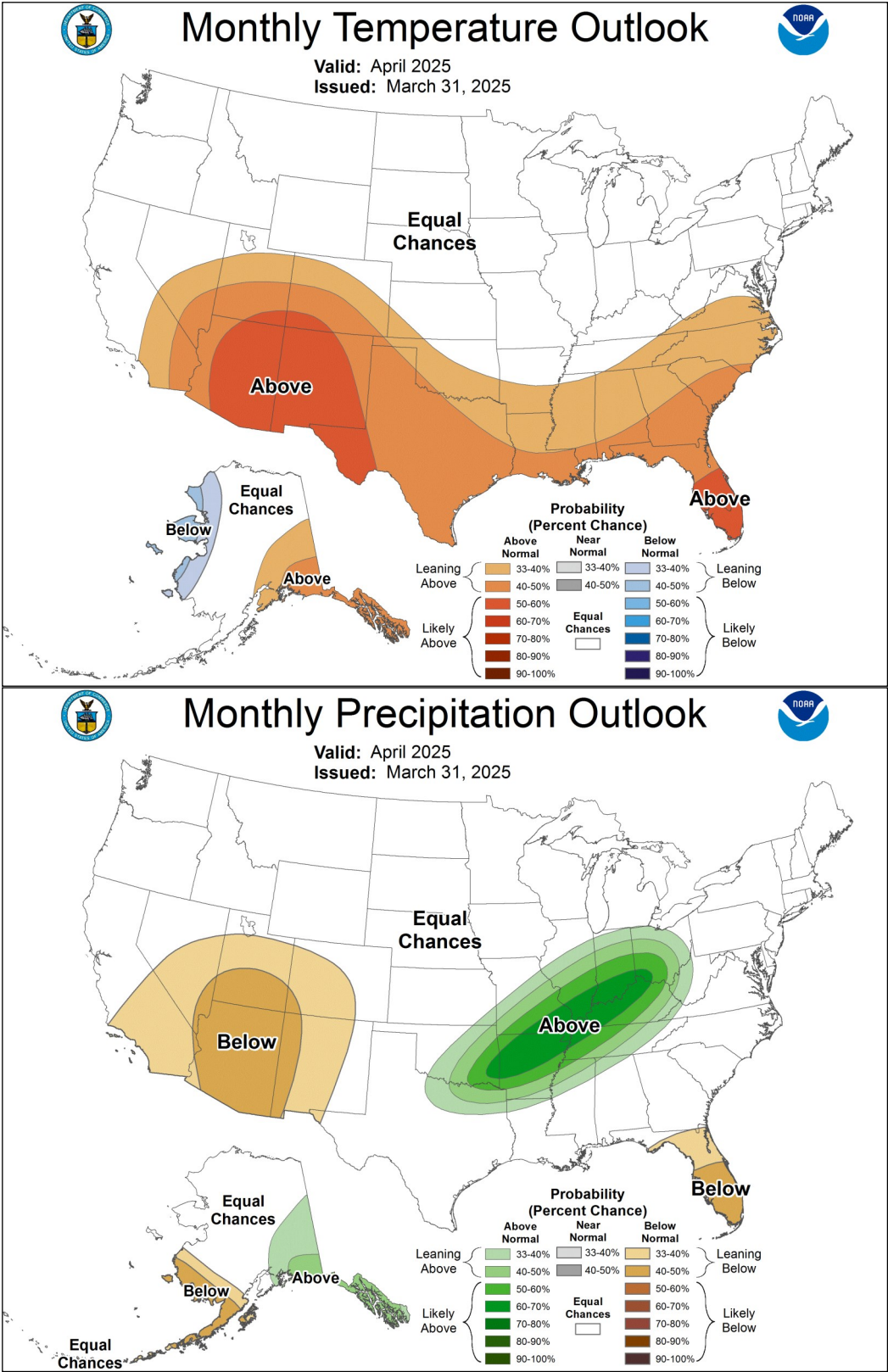
Soil moisture conditions within the top 1 meter of soil, based on the NASA GRACE and SPoRT-LIS products, generally indicate wetter conditions across much of the state especially east of the Cascade Range, with general indications of drier conditions in parts of the Wallowa Mountains.

Soil moisture conditions are useful in assessing current drought and future drought potential. In addition, soil moisture can be a good indicator of the 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). Soil moisture is generally restored each year during the late fall and early winter before precipitation falls predominantly as snow. Therefore, the restoration of soil moisture can be essential for increasing runoff efficiency in the spring.



Monthly Outlook

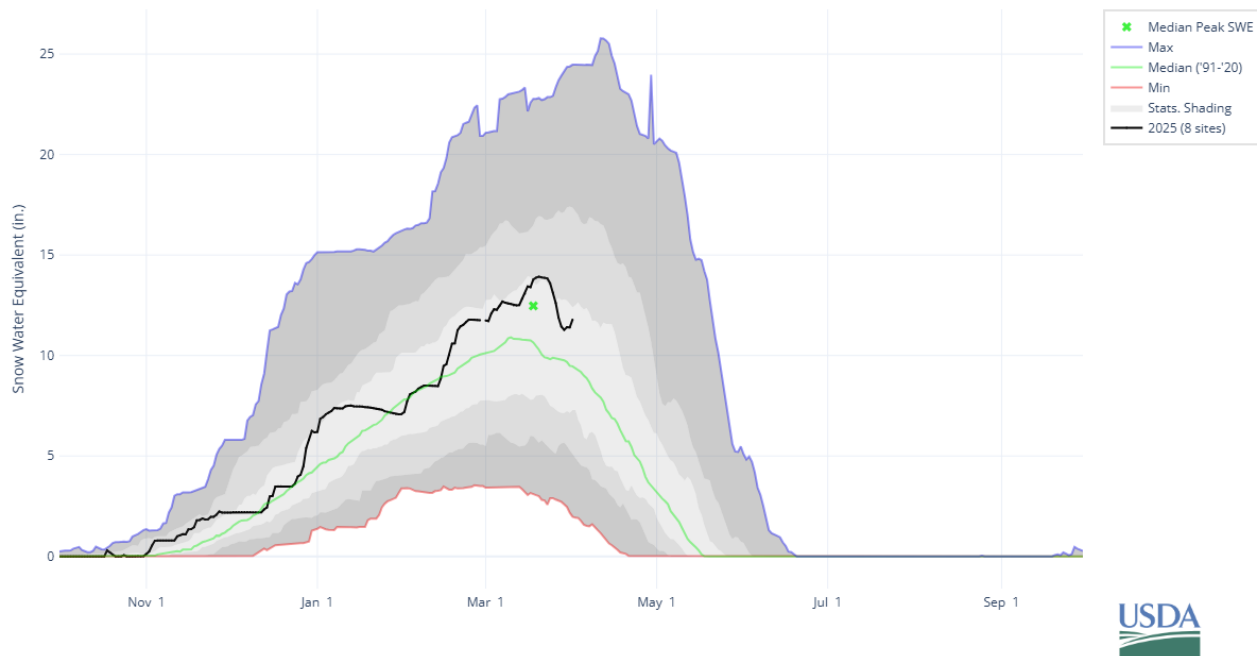
The Climate Prediction Center’s 1-Month Outlook is calling for equal chances of above or below normal temperatures and precipitation across Oregon.



<https://www.cpc.ncep.noaa.gov/>

Owyhee Basin Summary

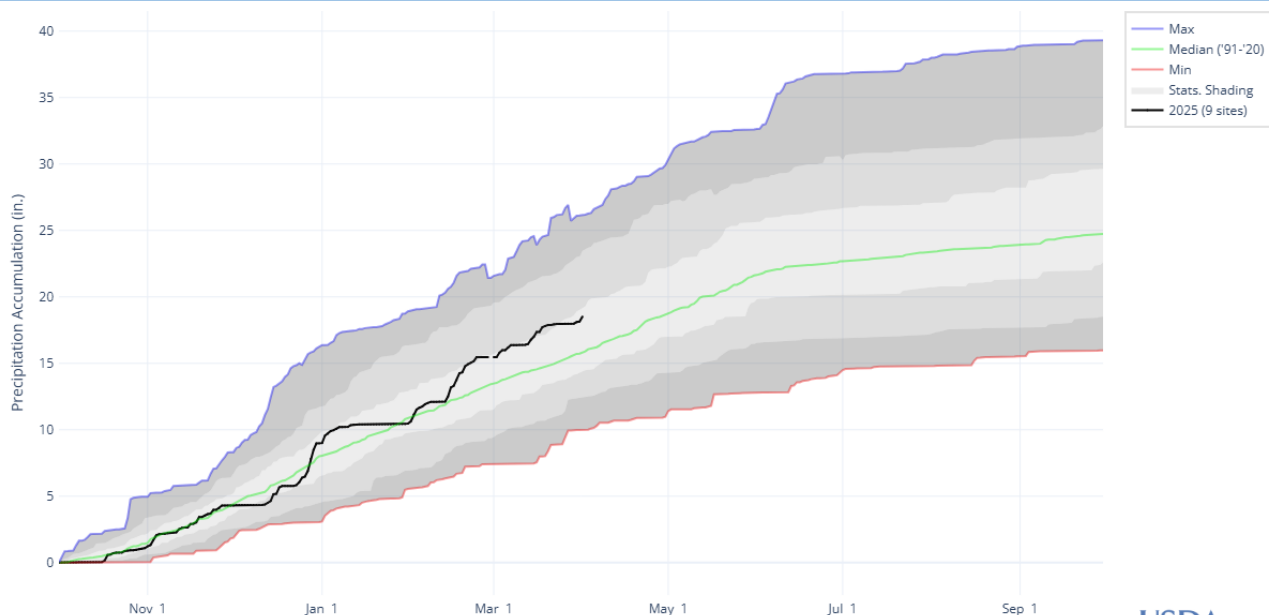
SNOWPACK



As of April 1, the basin snowpack is above normal at 129% of median. This is higher than March 1 when the basin snowpack was 119% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 110% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 117% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

Statistical shading percentiles are calculated from period of record (POR) data, excluding the current water year. Percentile categories range from: minimum to 10th percentile, 10th-30th, 30th-70th, 70th-90th, 90th-maximum.

RESERVOIR STORAGE

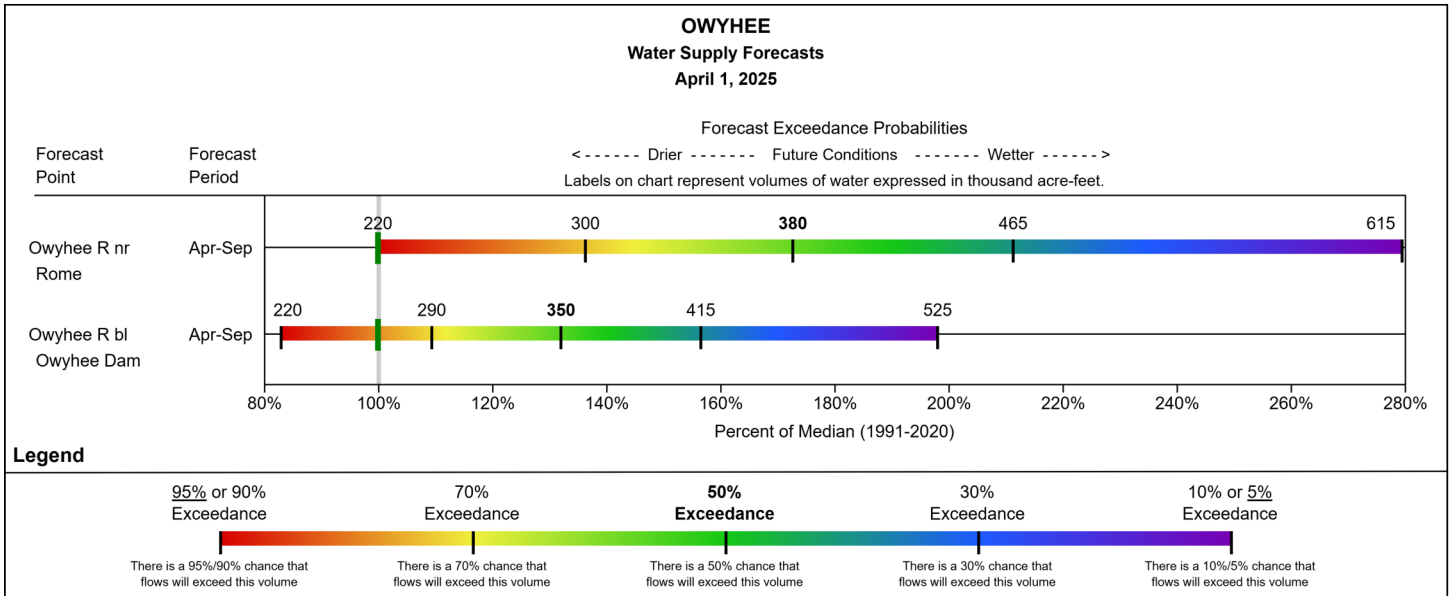
Reservoir storage across the basin is above normal. As of April 1, storage at Lake Owyhee Reservoir is 150% of median and Wild Horse Reservoir is 185% of median. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

OWYHEE					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Wild Horse Reservoir	6210	71.5	33.3	47	61.69	86	185
Lake Owyhee	2670	715	460	64	691.995	97	150
Basin Index						96	153
# Reservoirs						2	2

STREAMFLOW FORECAST

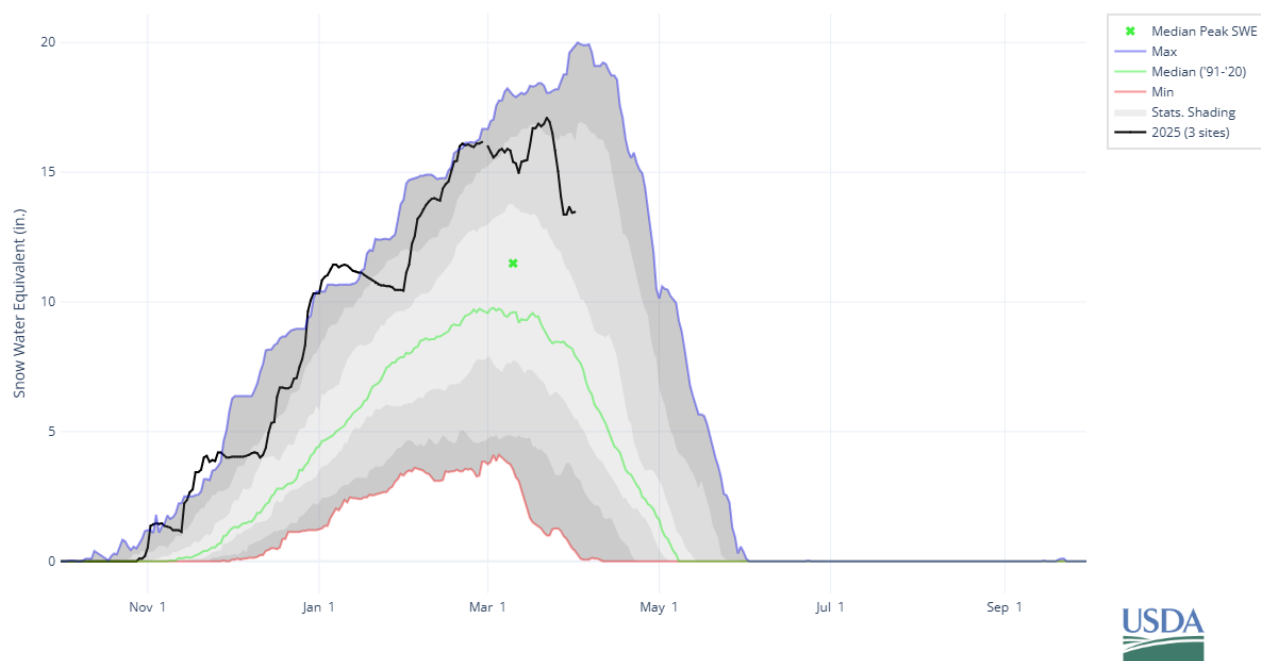
The April through September streamflow forecasts in the basin are above normal with forecasts ranging from 132% to 173% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Malheur Basin Summary

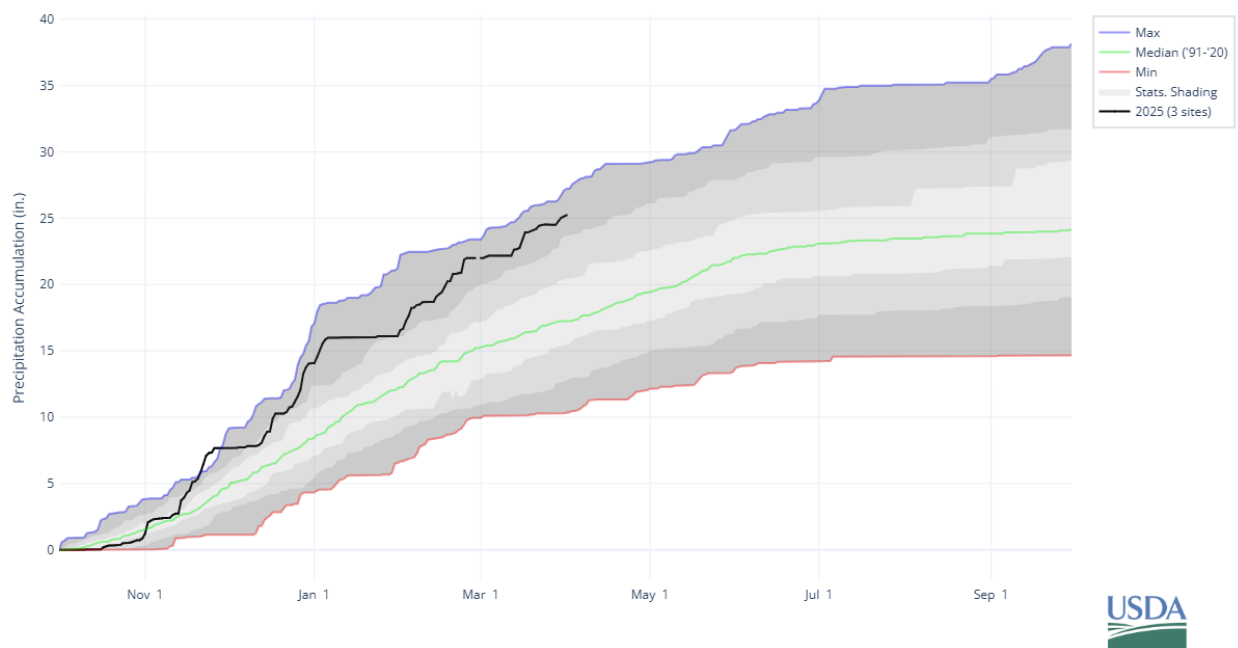
SNOWPACK



As of April 1, the basin snowpack is above normal at 185% of median. This is lower than March 1 when the basin snowpack was 180% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 129% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 146% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

RESERVOIR STORAGE

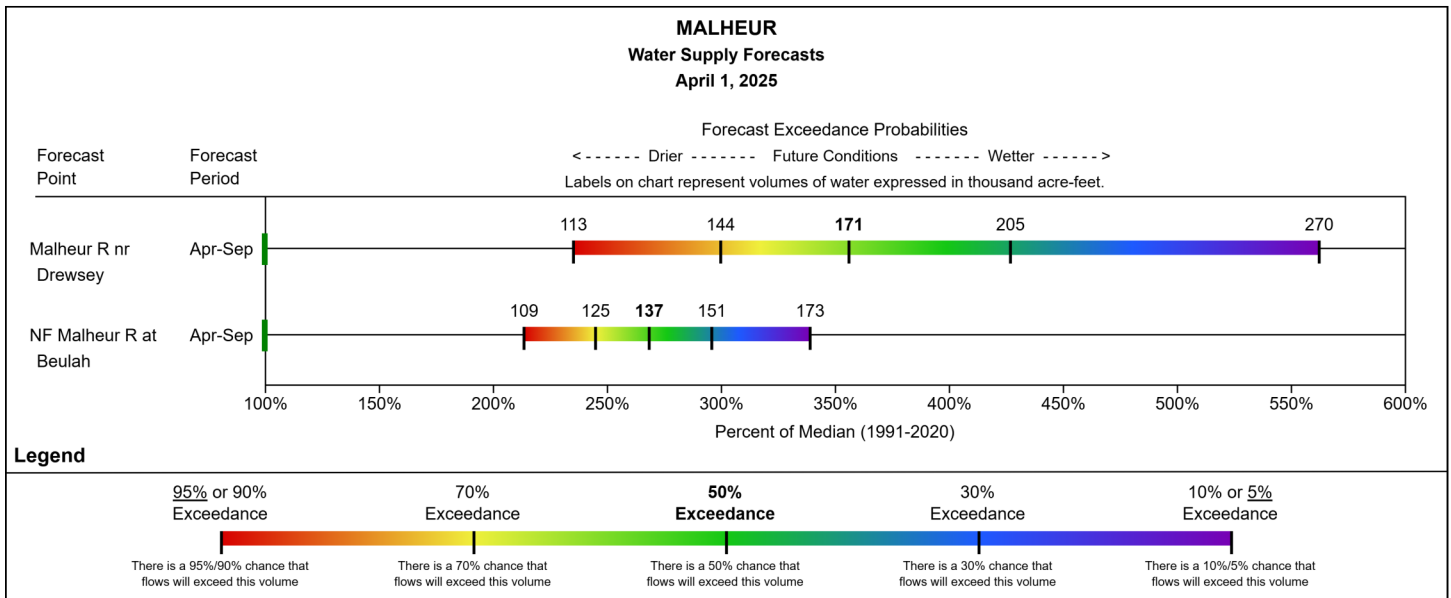
As of April 1, storage ranges from 97% at Bully Creek Reservoir to 159% of median at Warm Springs Reservoir. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

MALHEUR					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Warm Springs	3410	169.639	98	58	155.944	92	159
Beulah	3340	59.212	40.7	69	51.471	87	126
Bully Creek	2510	23.676	23	97	22.237	94	97
Basin Index						91	142
# Reservoirs						3	3

STREAMFLOW FORECAST

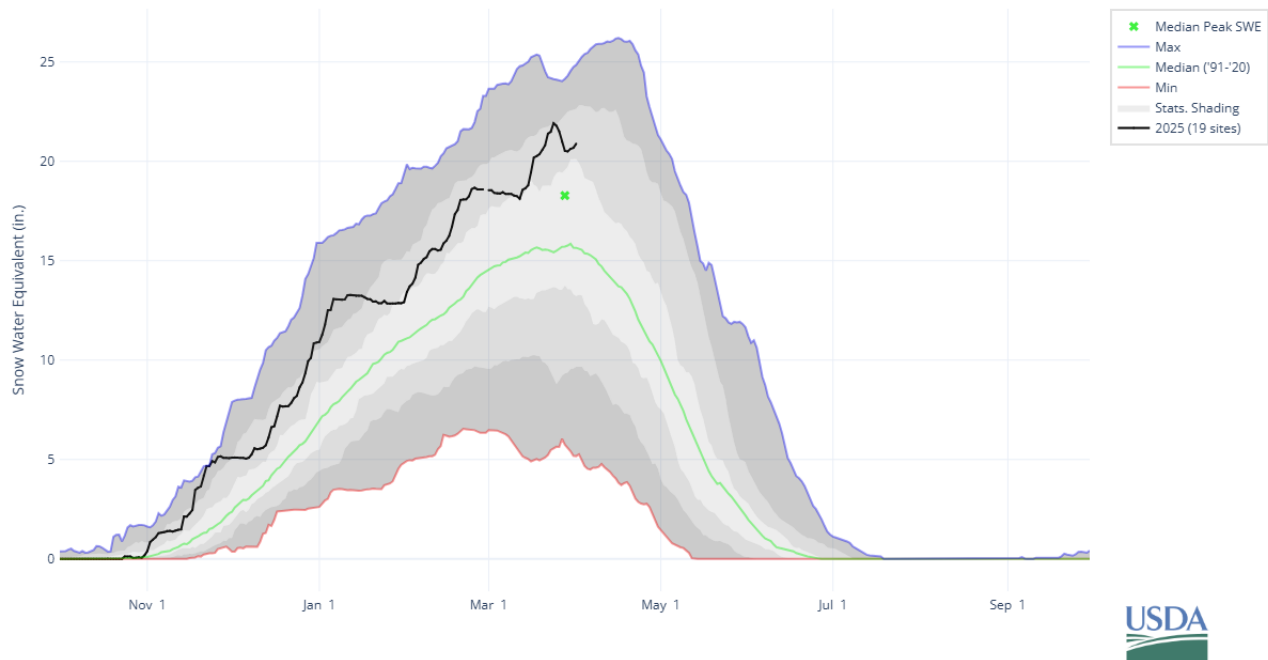
The April through September streamflow forecasts in the basin are above normal with forecasts ranging from 269% to 356% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Grande Ronde, Burnt, Powder, Imnaha Basin Summary

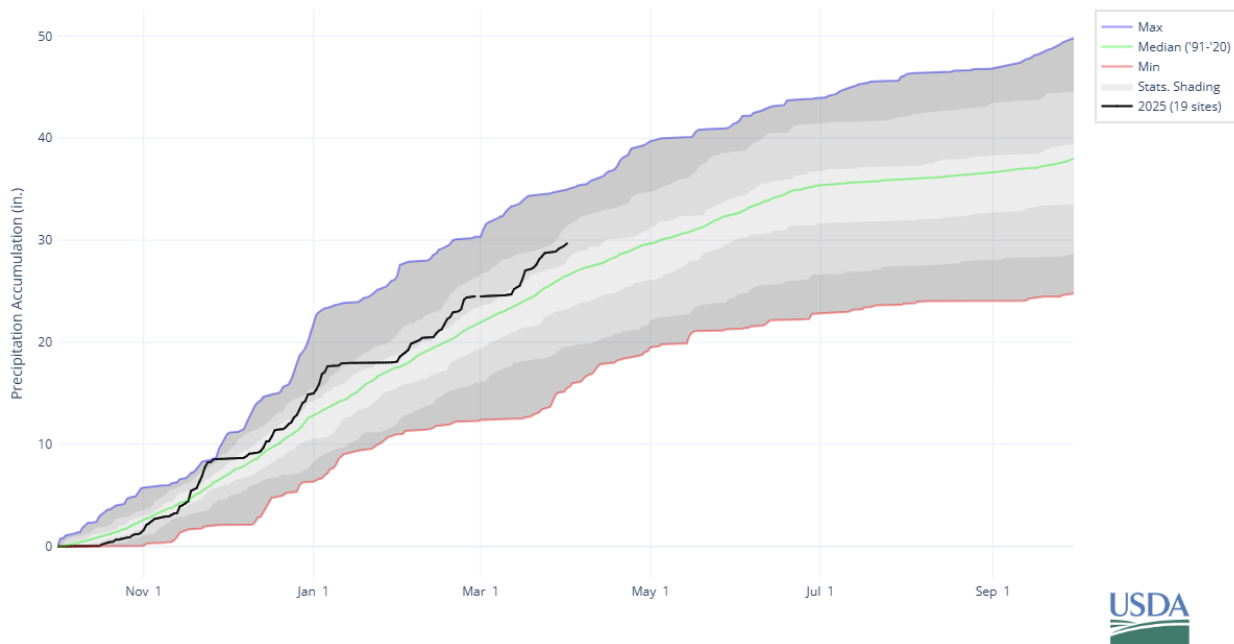
SNOWPACK



As of April 1, the basin snowpack is above normal at 125% of median. This is higher than March 1 when the basin snowpack was 120% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 127% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 112% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

RESERVOIR STORAGE

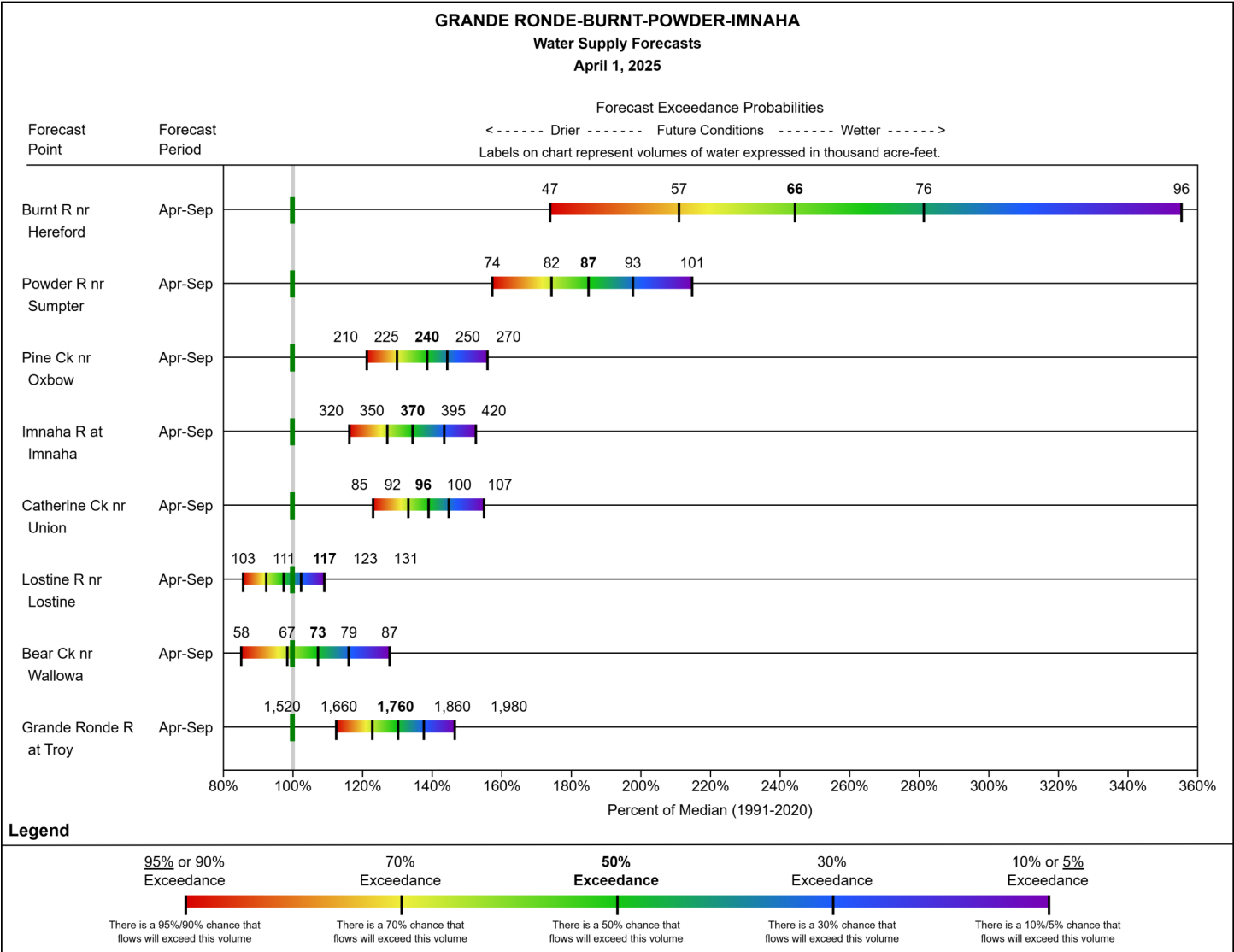
As of April 1, storage at major reservoirs in the basin ranges from 88% of median at Wolf Creek to 113% of median at Phillips Lake. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

GRANDE RONDE-BURNT-POWDER-IMNAHA					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Wallowa Lake	4380	37.5	18.4	49	17.75	47	96
Phillips Lake	4070	73.5	33.2	45	37.559	51	113
Unity	3820	25.502	21.9	86	21.702	85	99
Wolf Creek	3670	11.111	4.6	41	4.063	37	88
Thief Valley	3140	13.307	13.7	103	13.735	103	100
Brownlee Reservoir	1890	1420	1123	79	1045.195	74	93
Basin Index						72	94
# Reservoirs						6	6

STREAMFLOW FORECAST

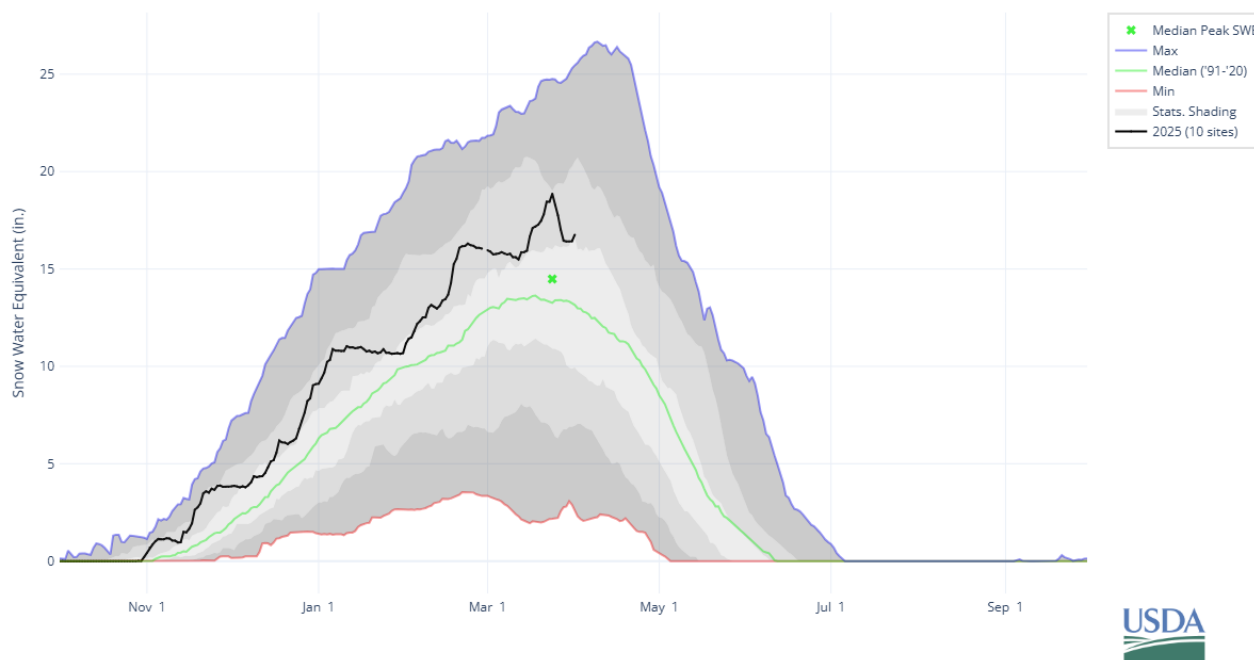
The April through September streamflow forecasts in the basin range from 98% to 244% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Umatilla, Walla Walla, Willow Basin Summary

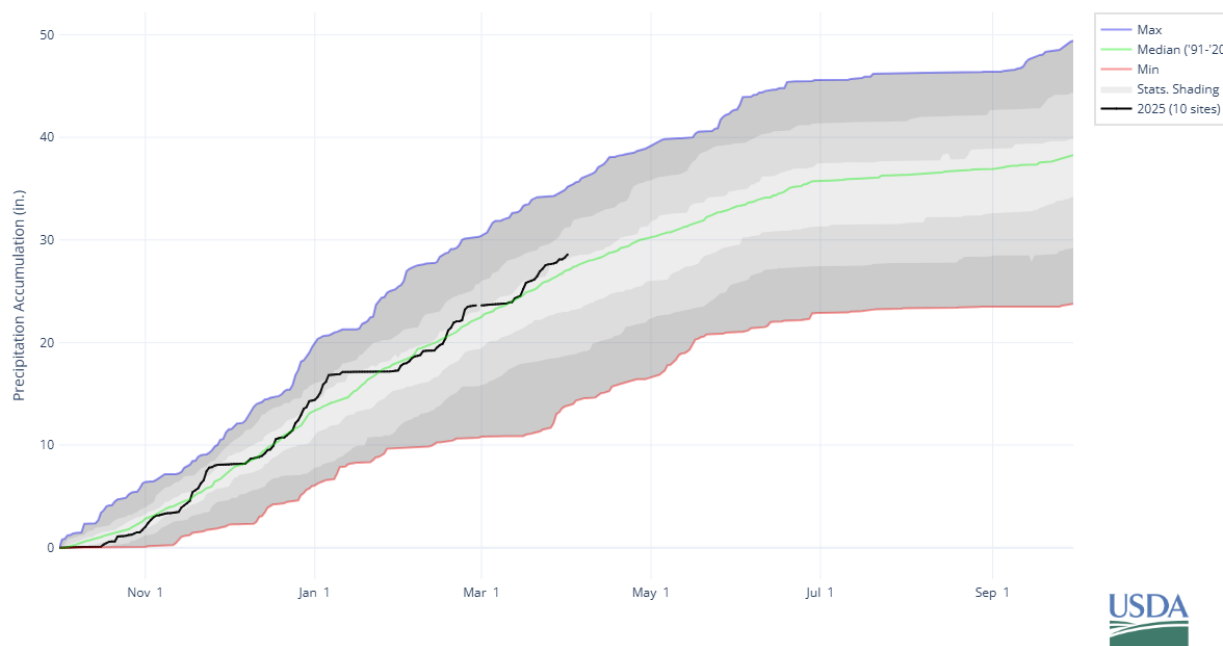
SNOWPACK



As of April 1, the basin snowpack is above normal at 127% of median. This is higher than March 1 when the basin snowpack was 124% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 118% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 106% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

RESERVOIR STORAGE

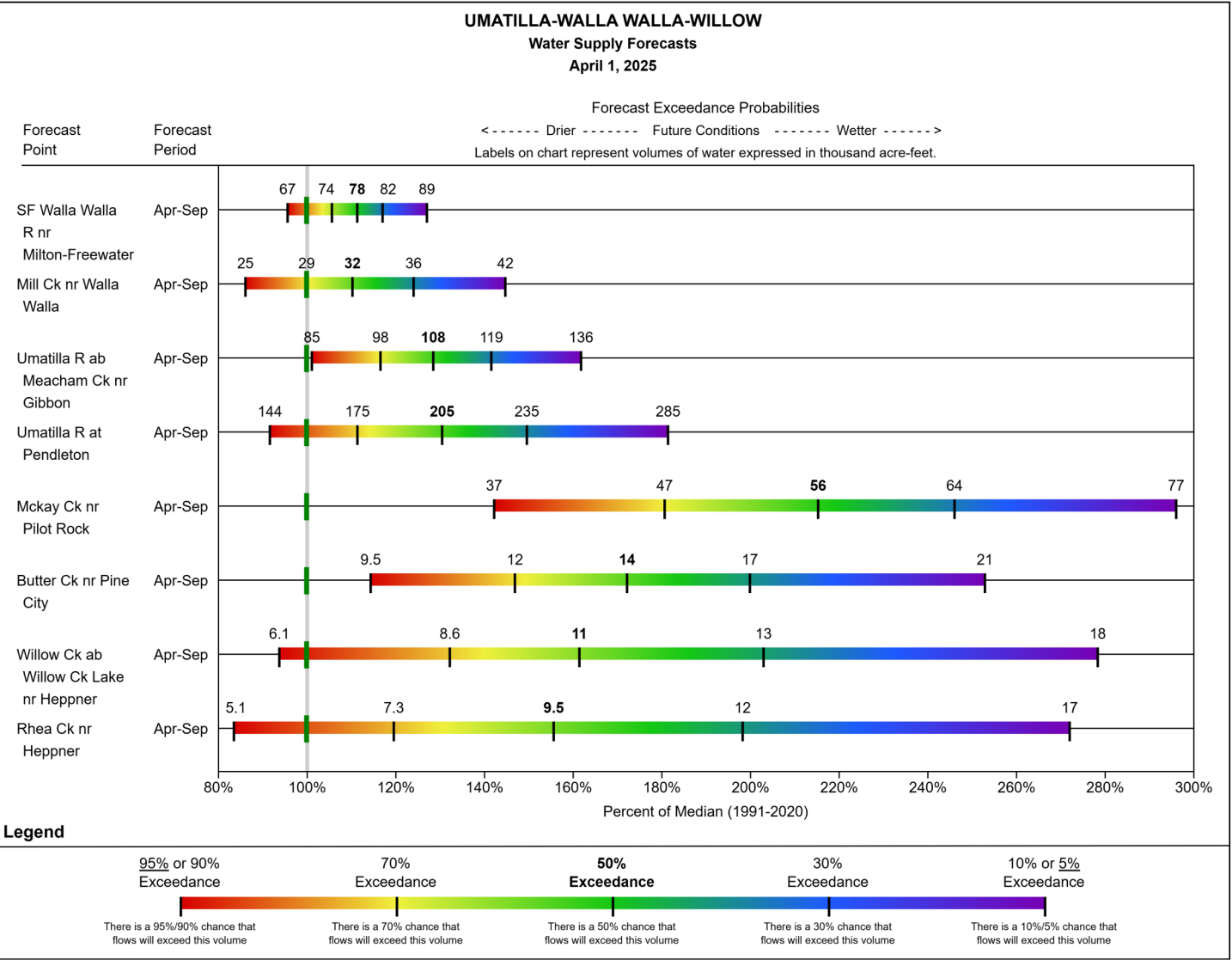
As of April 1, storage at major reservoirs in the basin ranges from 71% of median at Cold Springs Reservoir to 111% at Mckay Reservoir. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

UMATILLA-WALLA WALLA-WILLOW					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Willow Creek	1990	9.765	5.7	58	5.574	57	98
Mckay	1260	71.534	54.6	76	60.733	85	111
Cold Springs	620	38.646	27.4	71	19.344	50	71
Basin Index						71	98
# Reservoirs						3	3

STREAMFLOW FORECAST

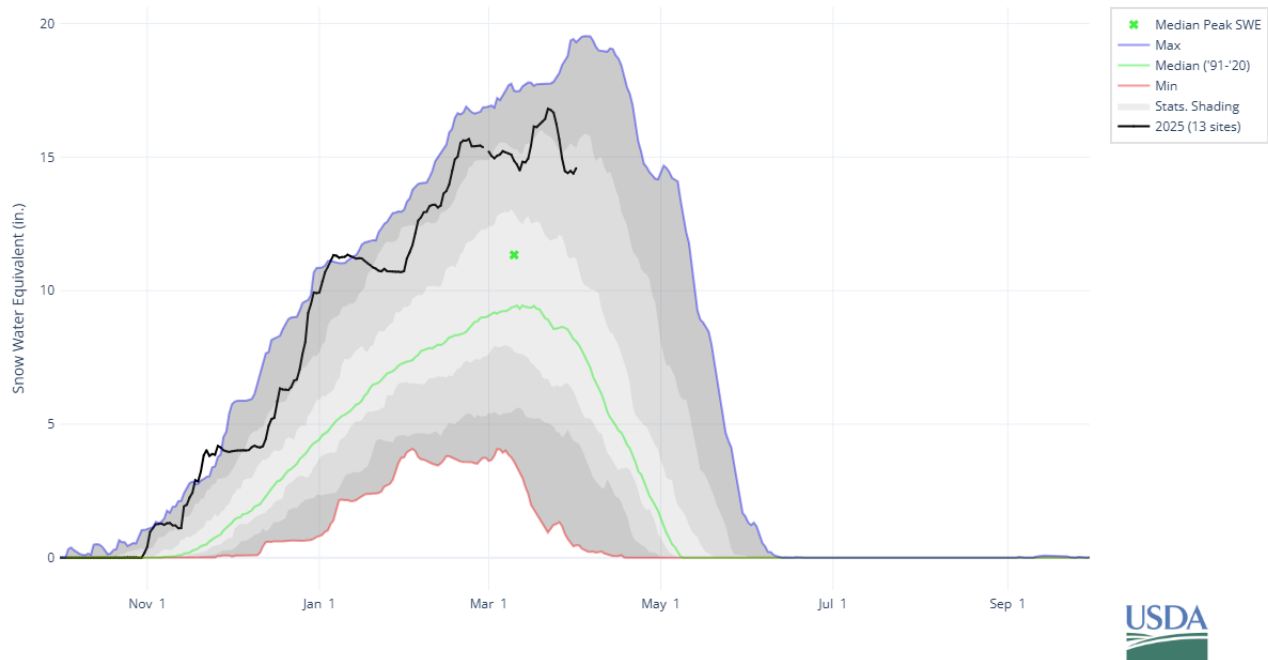
The April through September streamflow forecasts in the basin range from 110% to 215% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



John Day Basin Summary

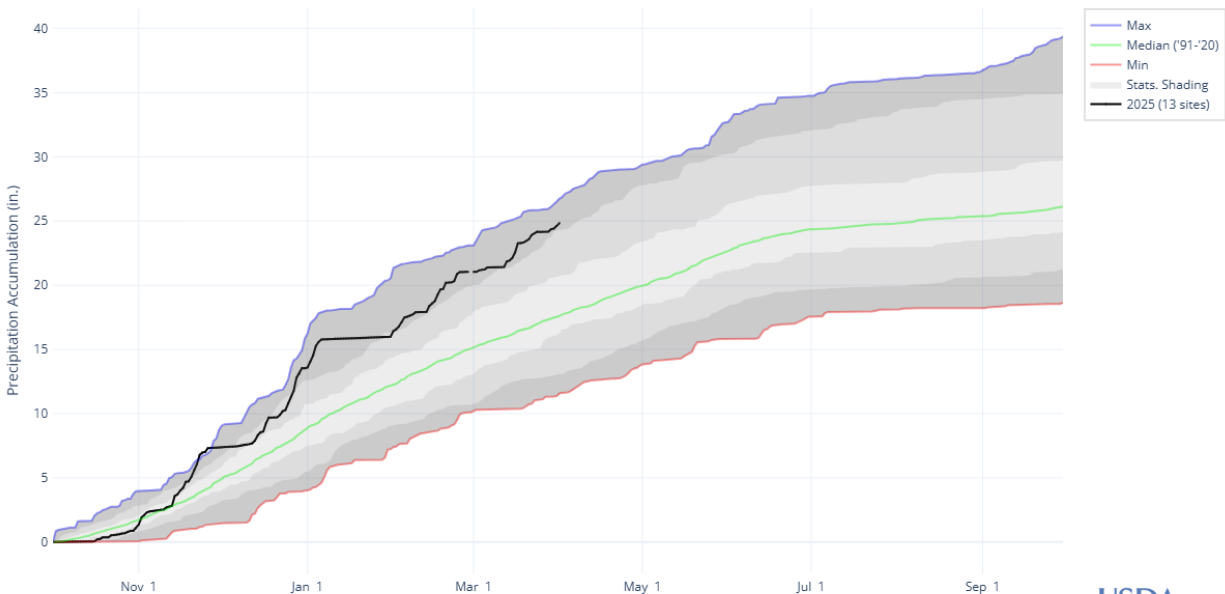
SNOWPACK



As of April 1, the basin snowpack is above normal at 163% of median. This is higher than March 1 when the basin snowpack was 158% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



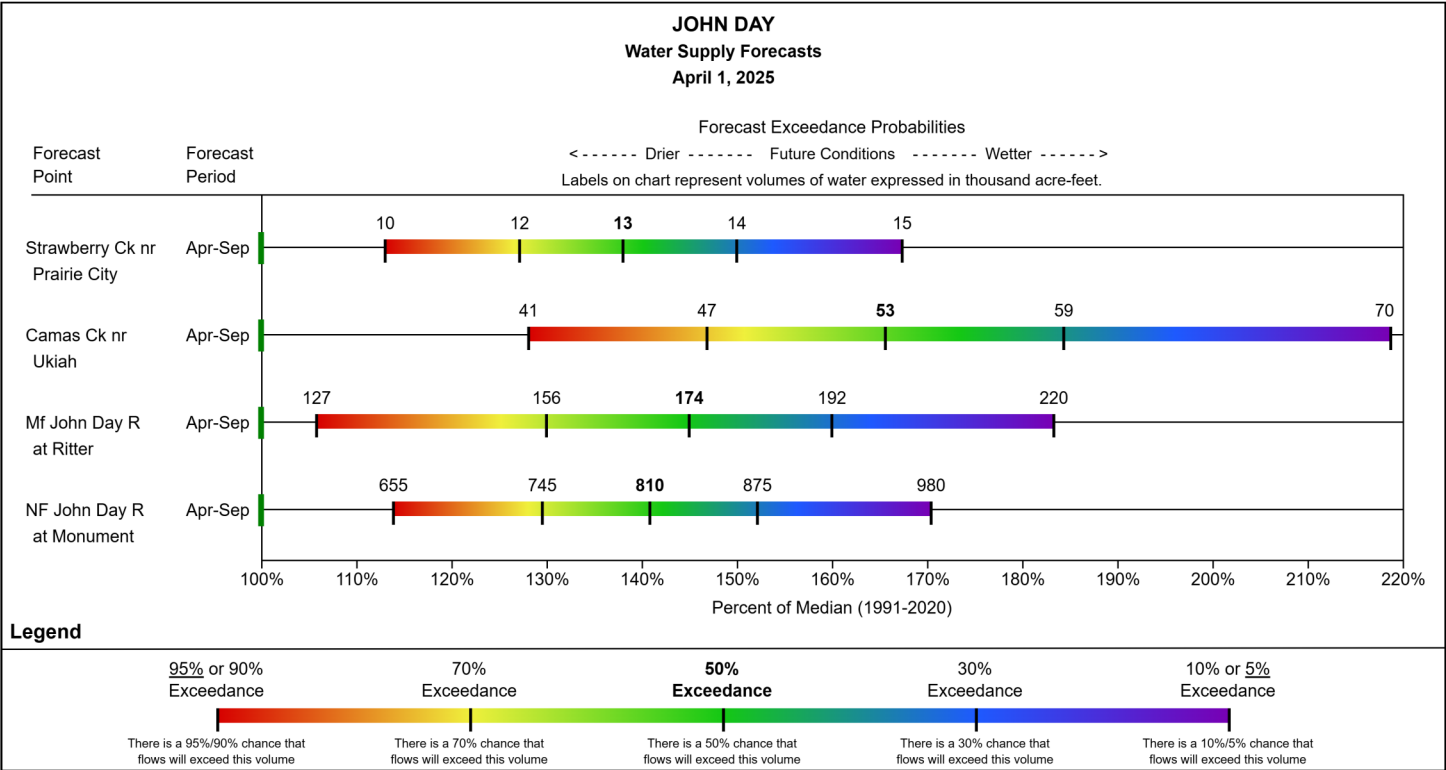
March precipitation is above normal at 136% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 141% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

STREAMFLOW FORECAST

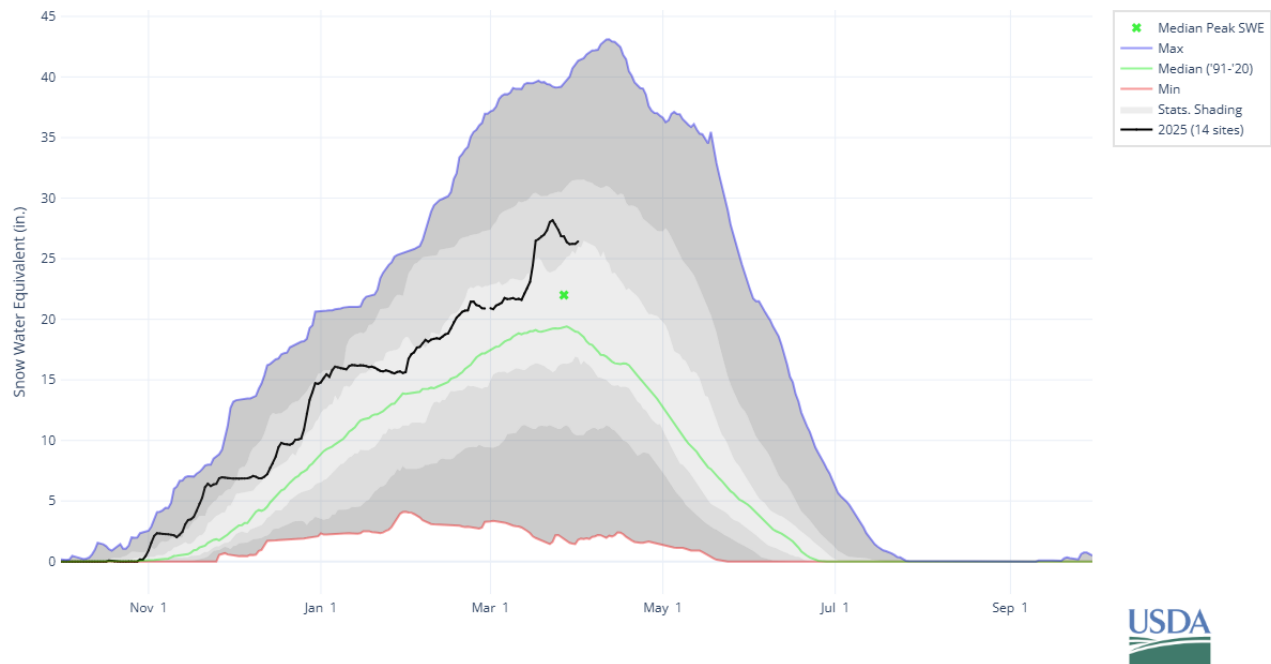
The April through September streamflow forecasts in the basin are above normal, with forecast points ranging from 138% to 166% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Upper Deschutes, Crooked Basin Summary

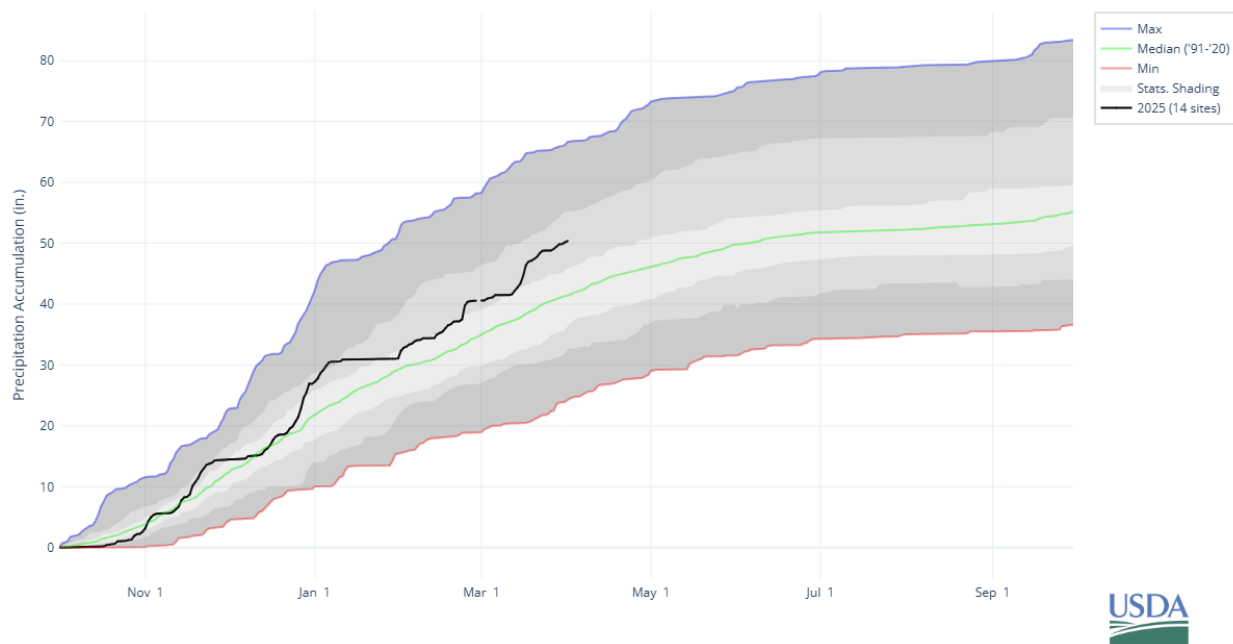
SNOWPACK



As of April 1, the basin snowpack is above normal at 133% of median. This is higher than March 1 when the basin snowpack was 119% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 172% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 122% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

RESERVOIR STORAGE

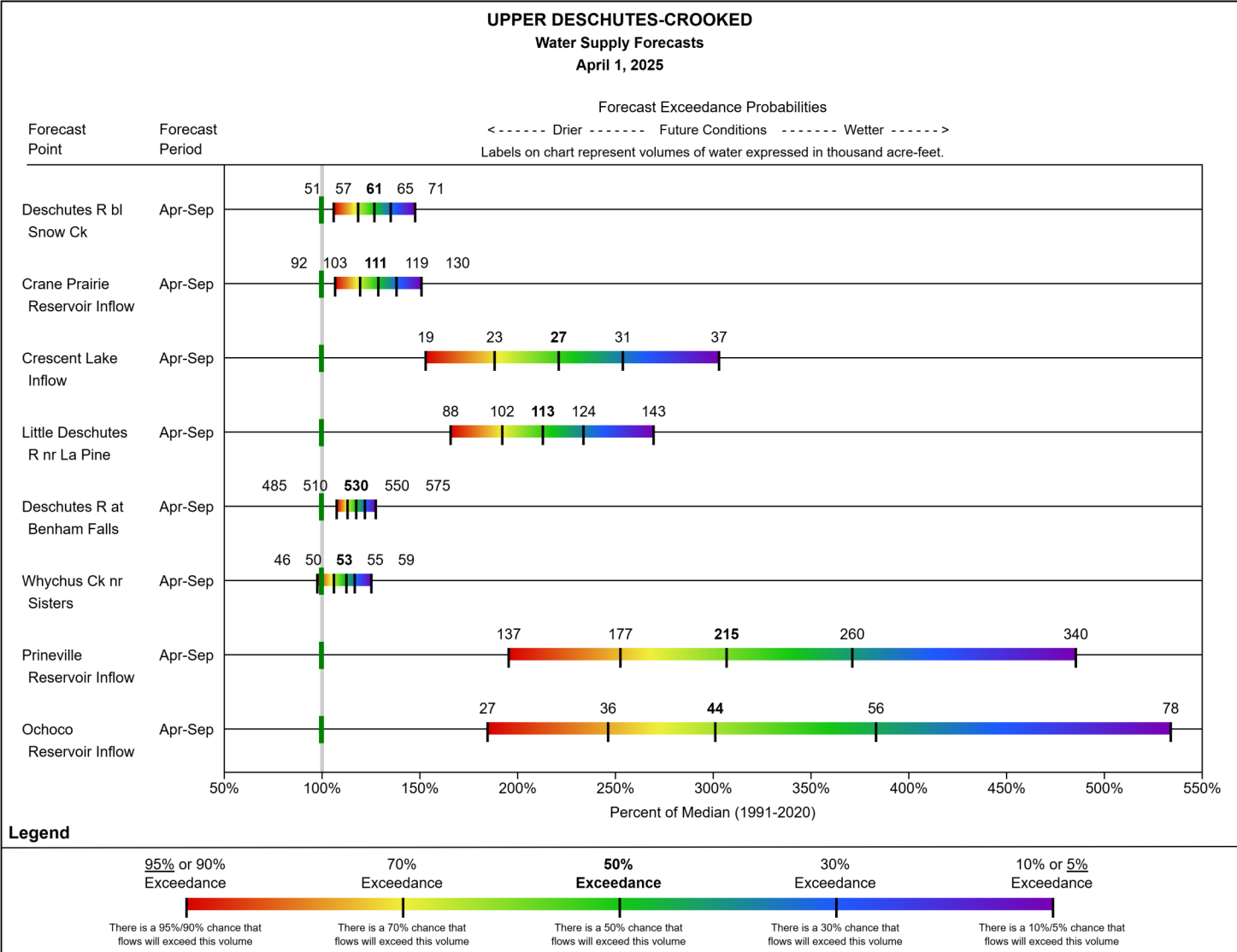
As of April 1, storage at major reservoirs in the basin ranges from 36% of median at Crescent Lake to 127% of median at Ochoco. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

UPPER DESCHUTES-CROOKED					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Crescent Lake	4840	86.9	55.9	64	20.311	23	36
Crane Prairie	4450	55.3	46.4	84	49.315	89	106
Wickiup	4330	200	196.8	98	176.579	88	90
Prineville	3240	148.64	127.4	86	126.597	85	99
Ochoco	3100	44.247	29.8	67	37.793	85	127
Basin Index						77	90
# Reservoirs						5	5

STREAMFLOW FORECAST

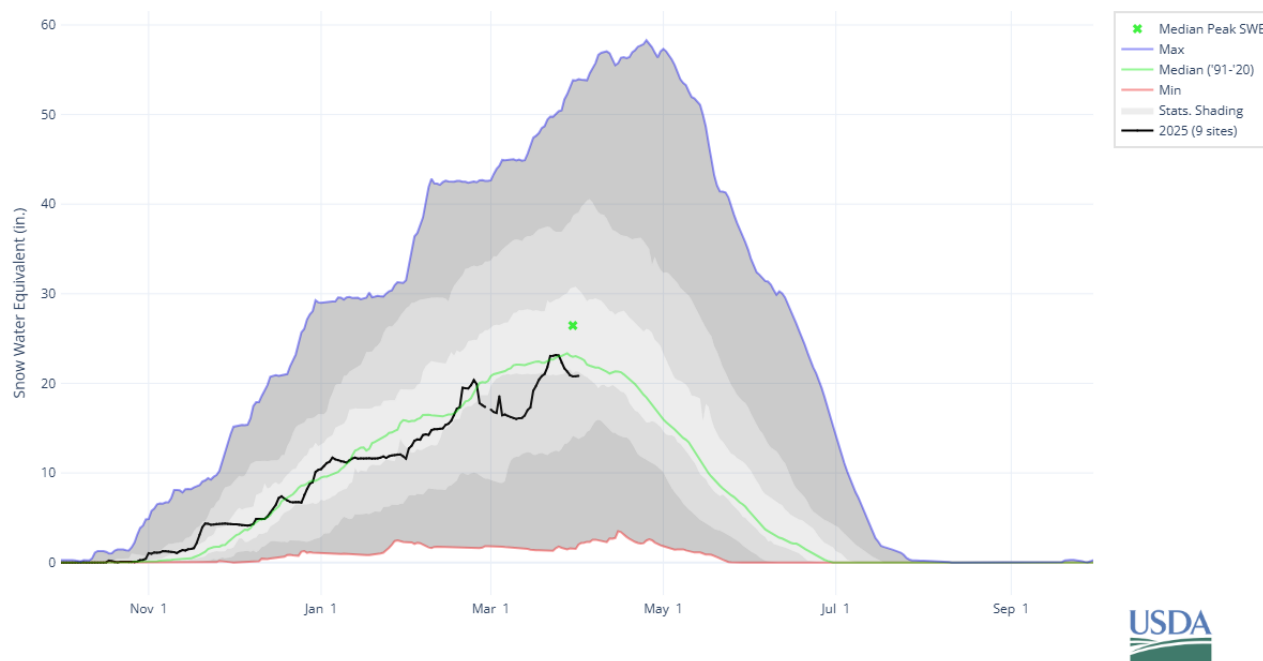
The April through September streamflow forecasts in the basin range from 113% to 307% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Hood, Sandy, Lower Deschutes Basin Summary

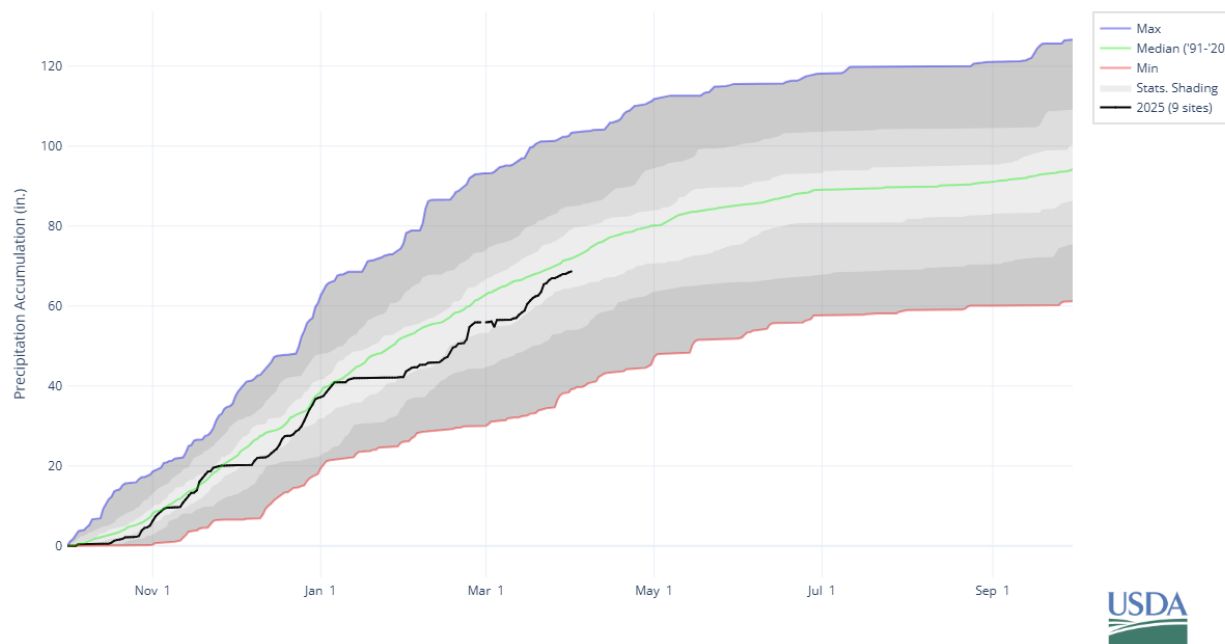
SNOWPACK



As of April 1, the basin snowpack is near normal at 92% of median. This is higher than March 1 when the basin snowpack was 85% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 141% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 96% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

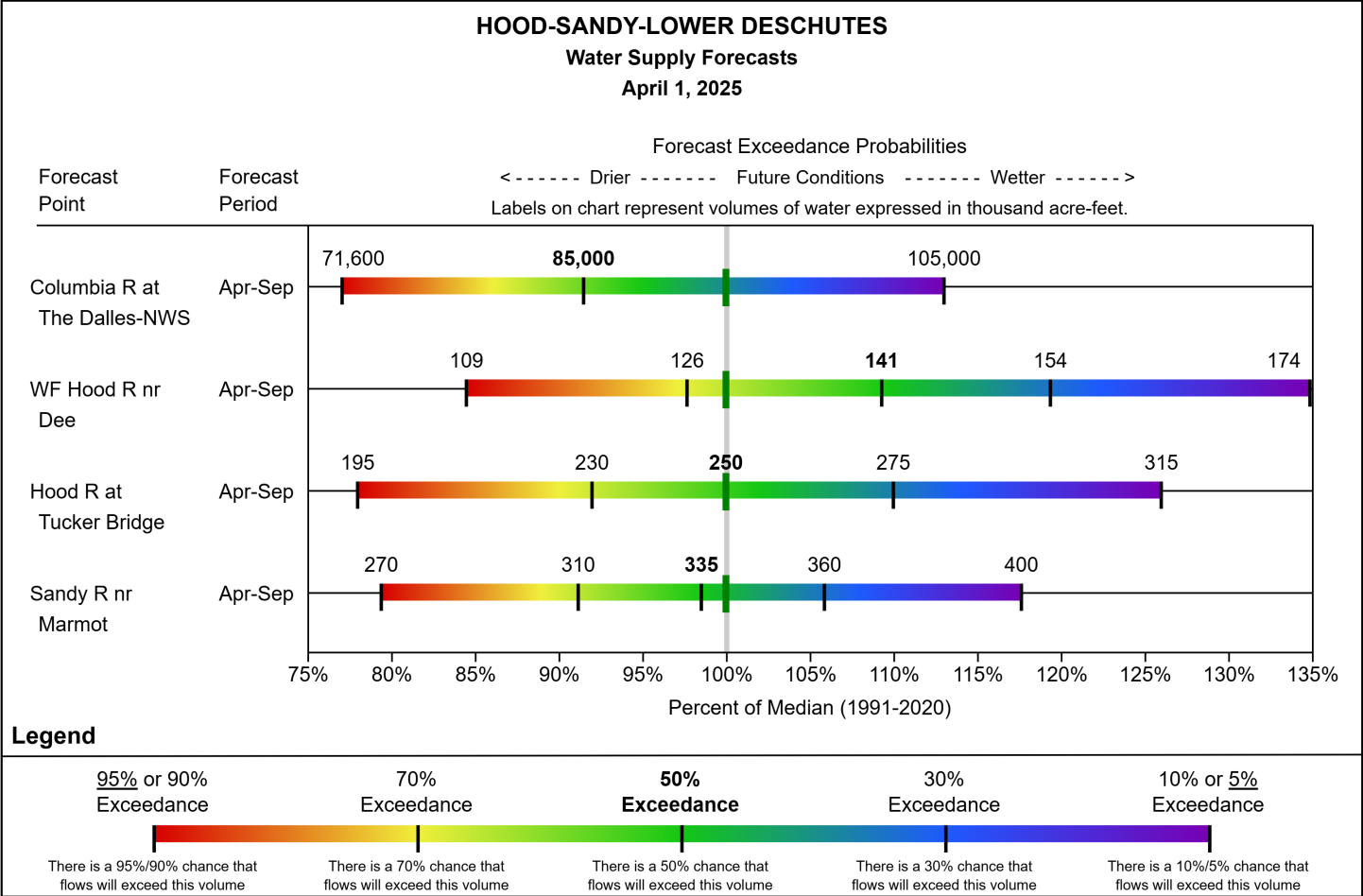
RESERVOIR STORAGE

As of April 1, storage for Clear Lake is below normal at 65% of median. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

HOOD-SANDY-LOWER DESCHUTES					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Clear Lake	3520	13.1	4.1	31	2.646	20	65
Basin Index						20	65
# Reservoirs						1	1

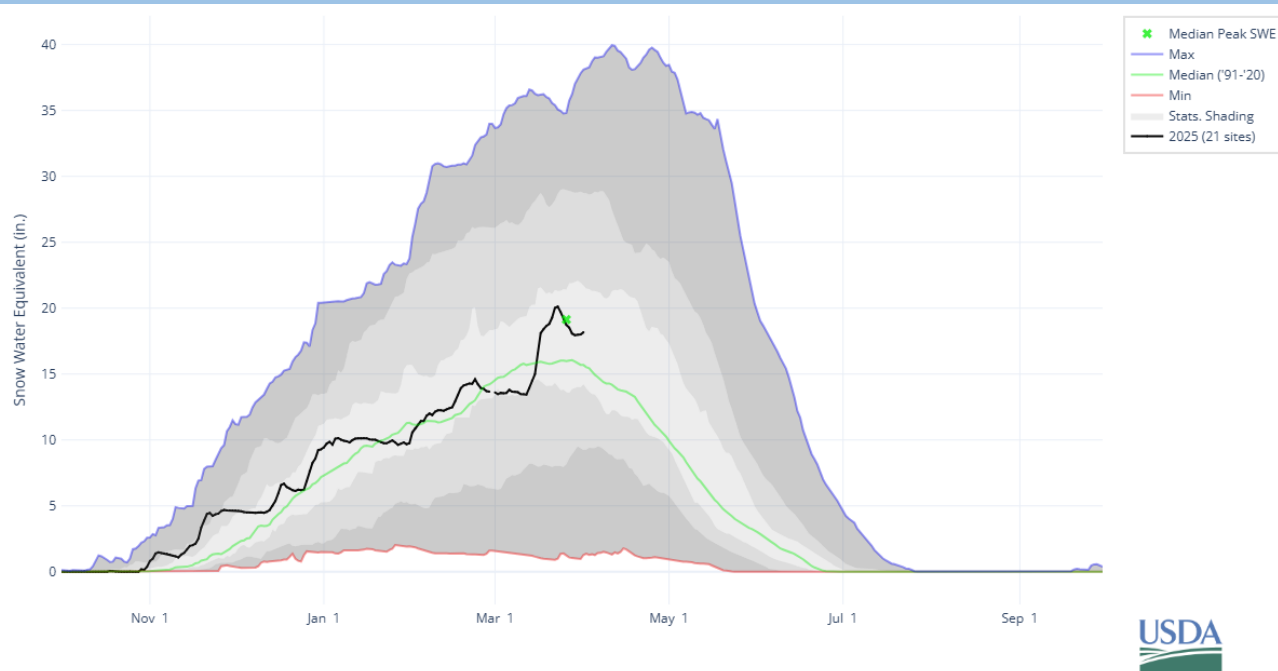
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 91% to 109% of median. *For data in tabular format and to view other forecasts please view the basin data reports [here](#).*



Willamette Basin Summary

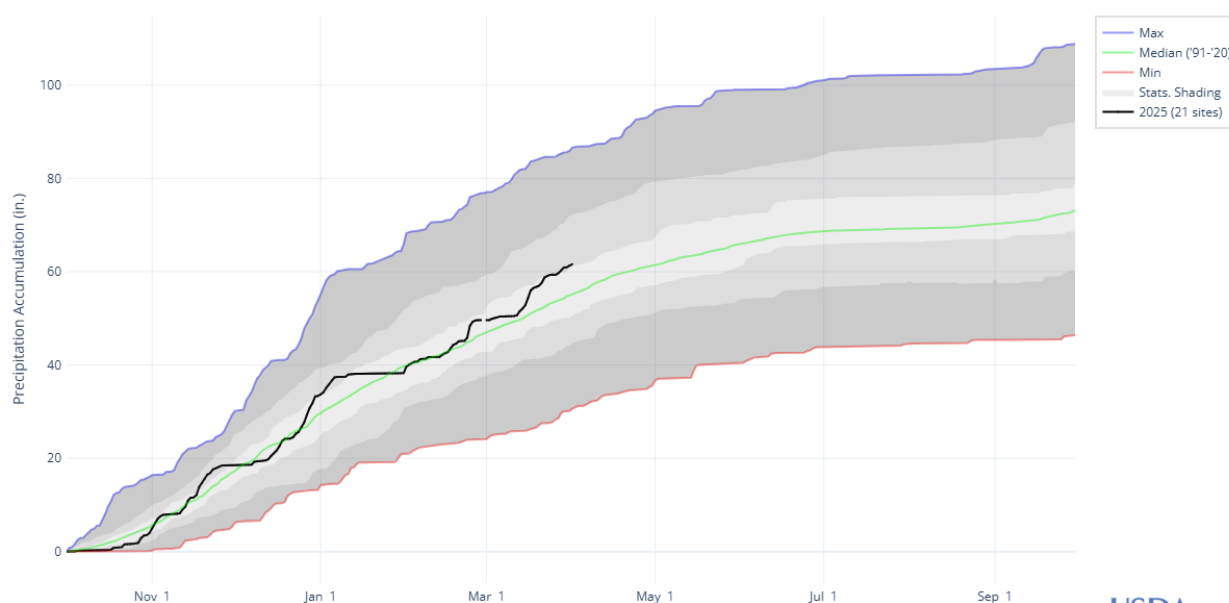
SNOWPACK



As of April 1, the basin snowpack is slightly above normal at 113% of median. This is above March 1 when the basin snowpack was 93% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 155% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 112% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

RESERVOIR STORAGE

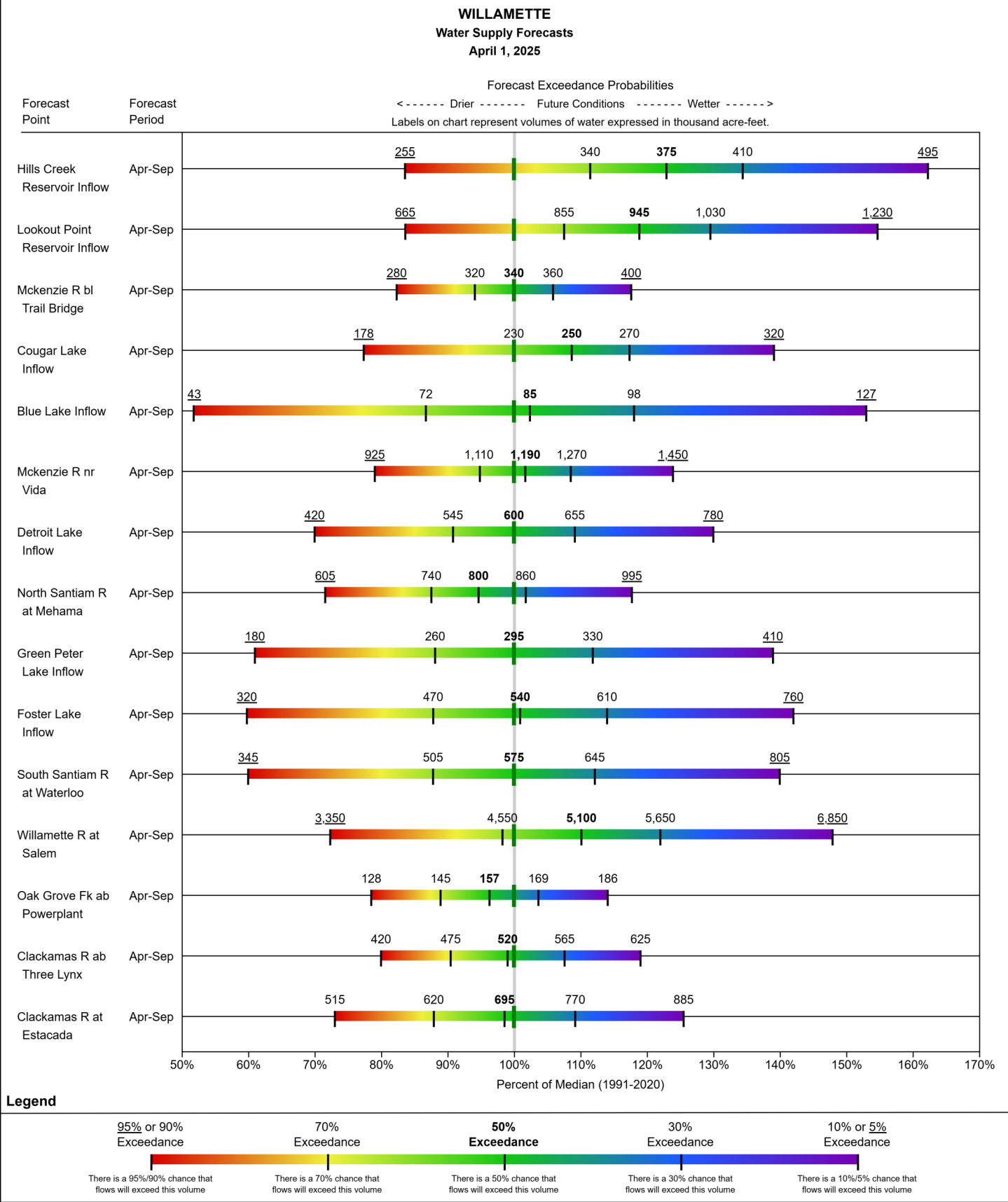
As of April 1, storage at major reservoirs in the basin ranges from 58% of median at Cougar Reservoir to 112% of median at Timothy Lake. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

WILLAMETTE					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Timothy Lake	3230	63.6	54.5	86	60.8	96	112
Cougar	1690	174.9	116.3	66	67.409	39	58
Hills Creek	1550	279.2	218.2	78	260.725	93	119
Detroit	1490	426.8	346.2	81	370.214	87	107
Blue River	1350	82.3	57.4	70	61.567	75	107
Green Peter	950	402.8	338.8	84	351.56	87	104
Lookout Point	920	433.2	314.6	73	304.508	70	97
Dorena	840	72.1	44.4	62	47.011	65	106
Fall Creek	840	116	85.2	73	91.565	79	107
Cottage Grove	790	31.8	19.8	62	18.538	58	94
Dexter	700	27.3	25.4	93	24.441	90	96
Foster	620	46.2	29.7	64	26.7	58	90
Fern Ridge	340	97.3	77.4	80	80.099	82	103
Henry Hagg Lake	300	53.323	51.2	96	51.416	96	100
Basin Index						79	102
# Reservoirs						14	14

STREAMFLOW FORECAST

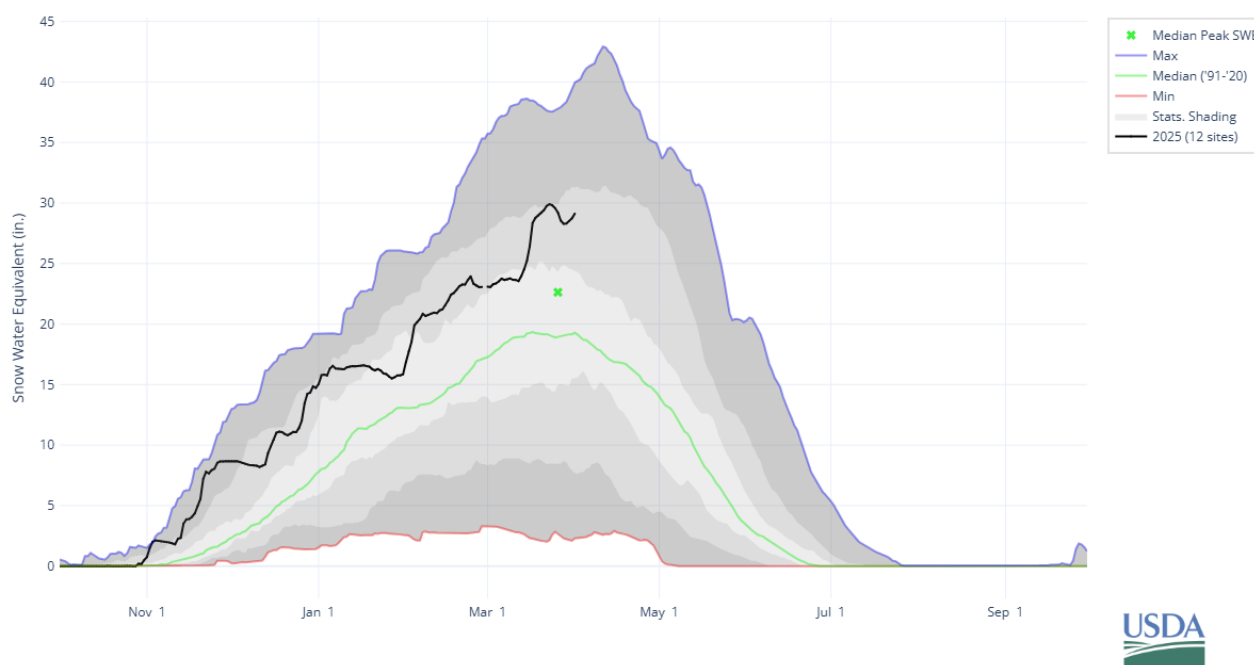
The April through September streamflow forecasts in the basin range from 95% to 123% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Rogue, Umpqua Basin Summary

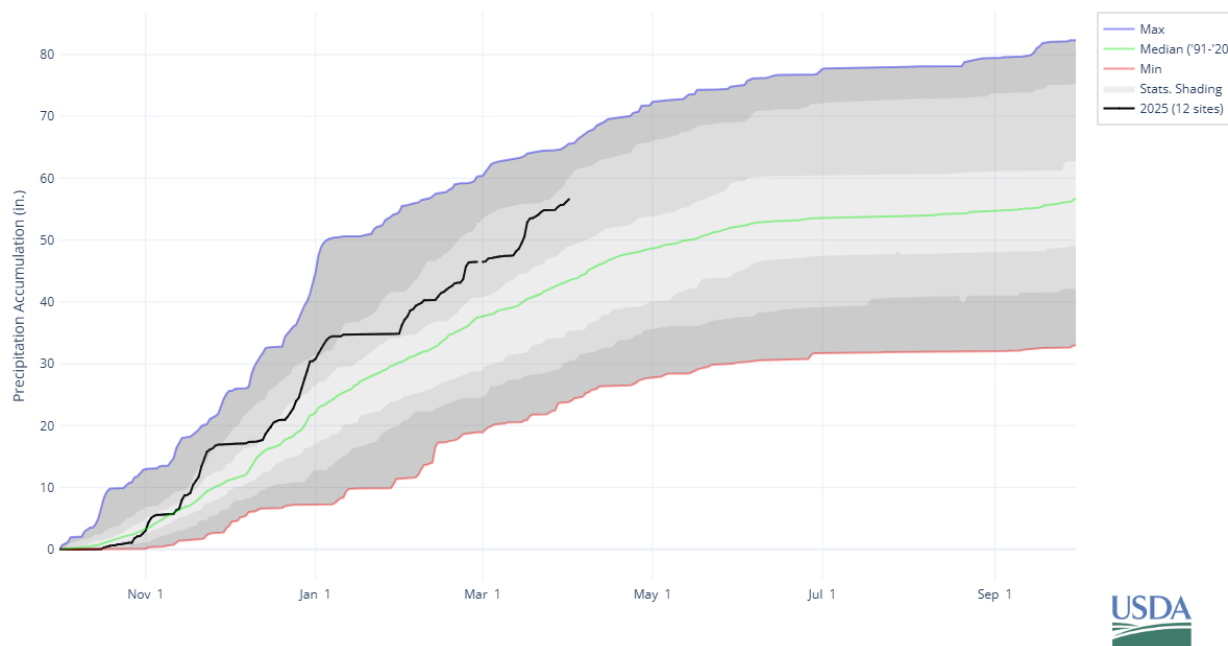
SNOWPACK



As of April 1, the basin snowpack is above normal at 145% of median. This is higher than March 1 when the basin snowpack was 128% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



February precipitation is above normal at 173% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 134% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

RESERVOIR STORAGE

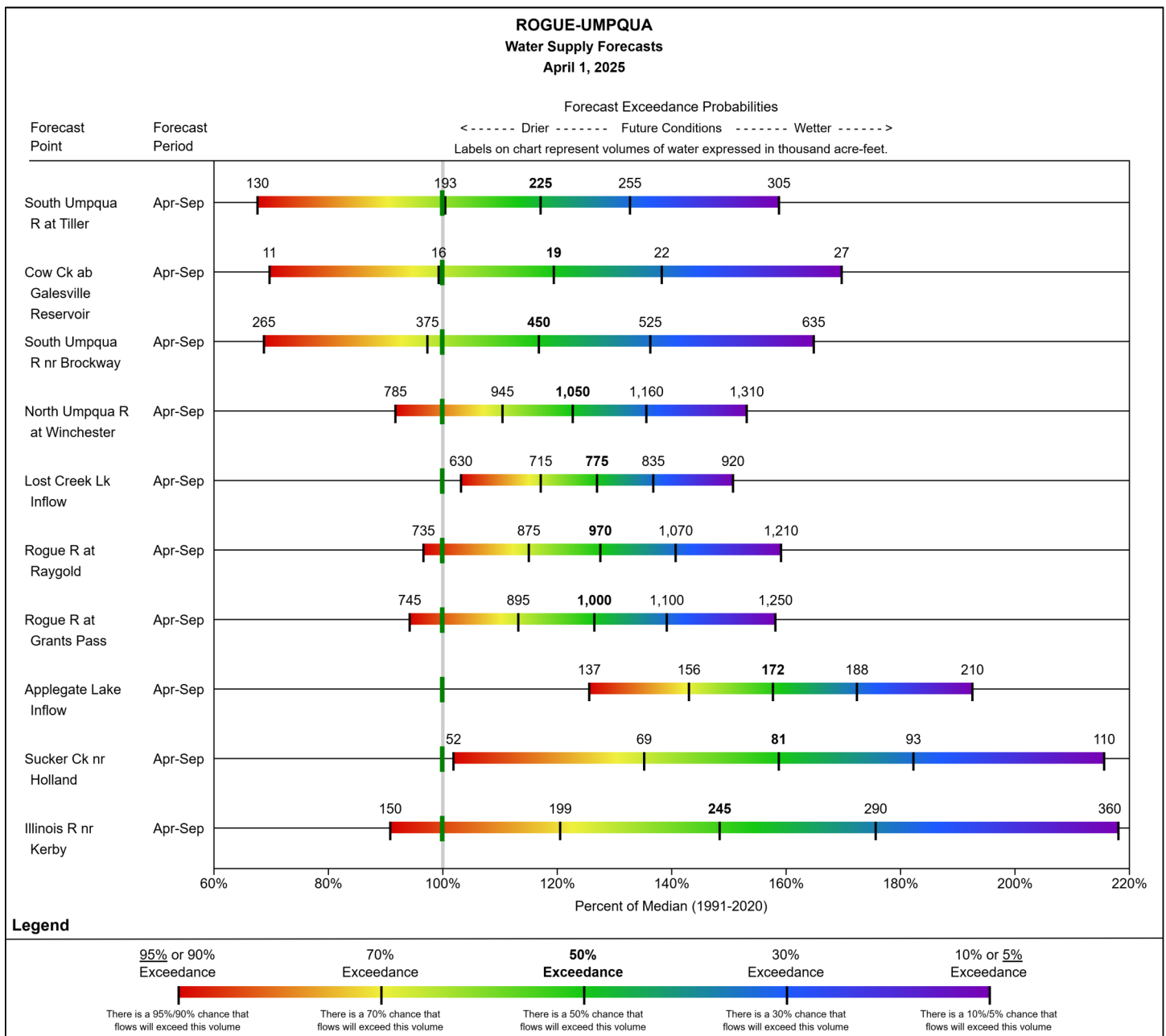
As of April 1, storage at major reservoirs in the basin ranges from 98% of median at Lost Creek to 114% of median at Fish Lake. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

ROGUE-UMPQUA					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Fish Lake	4640	7.9	4.7	59	5.372	68	114
Emigrant Lake	2240	39	34	87	36.887	95	108
Applegate	1950	75.2	46.6	62	49.05	65	105
Lost Creek	1820	315	269.6	86	263.52	84	98
Basin Index						81	100
# Reservoirs						4	4

STREAMFLOW FORECAST

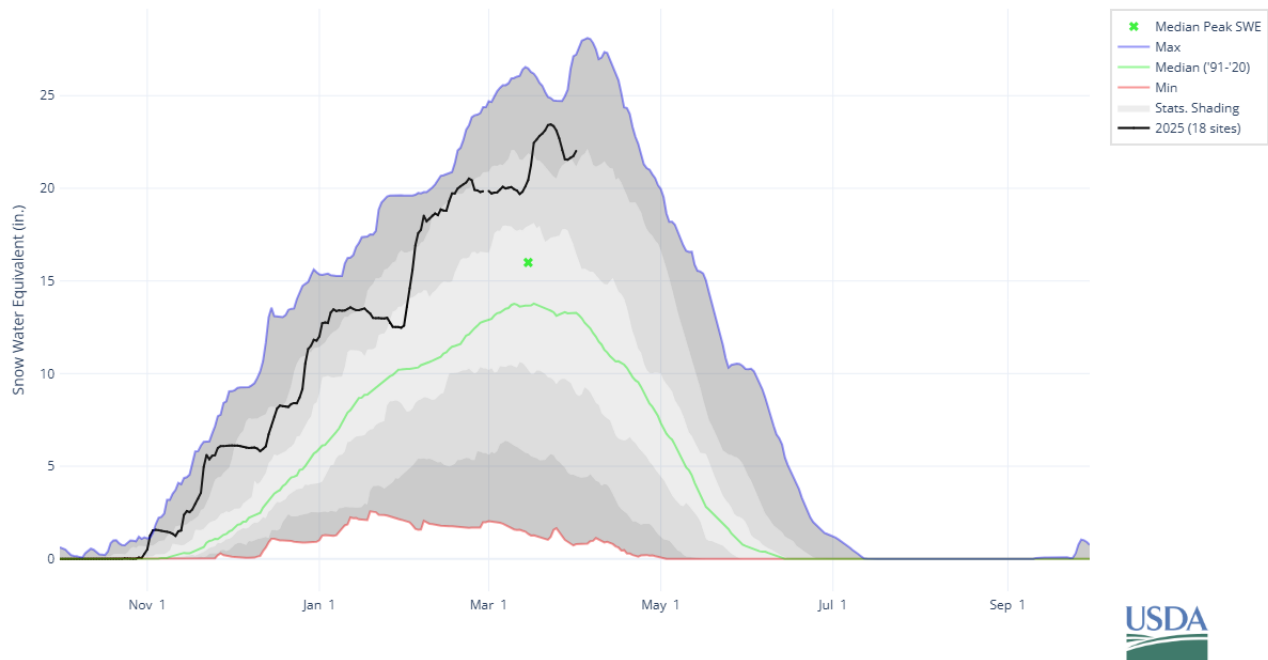
The April through September streamflow forecasts in the basin range from 117% to 159% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Klamath Basin Summary

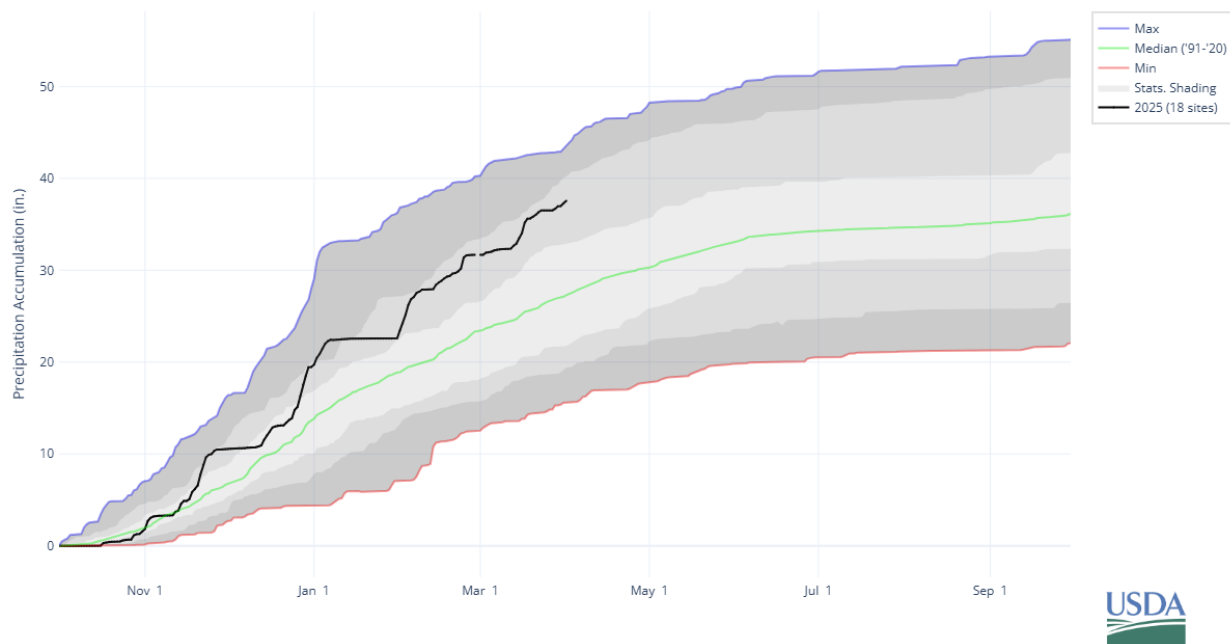
SNOWPACK



As of April 1, the basin snowpack is above normal at 169% of median. This is higher than March 1 when the basin snowpack was 160% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is above normal at 149% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 142% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

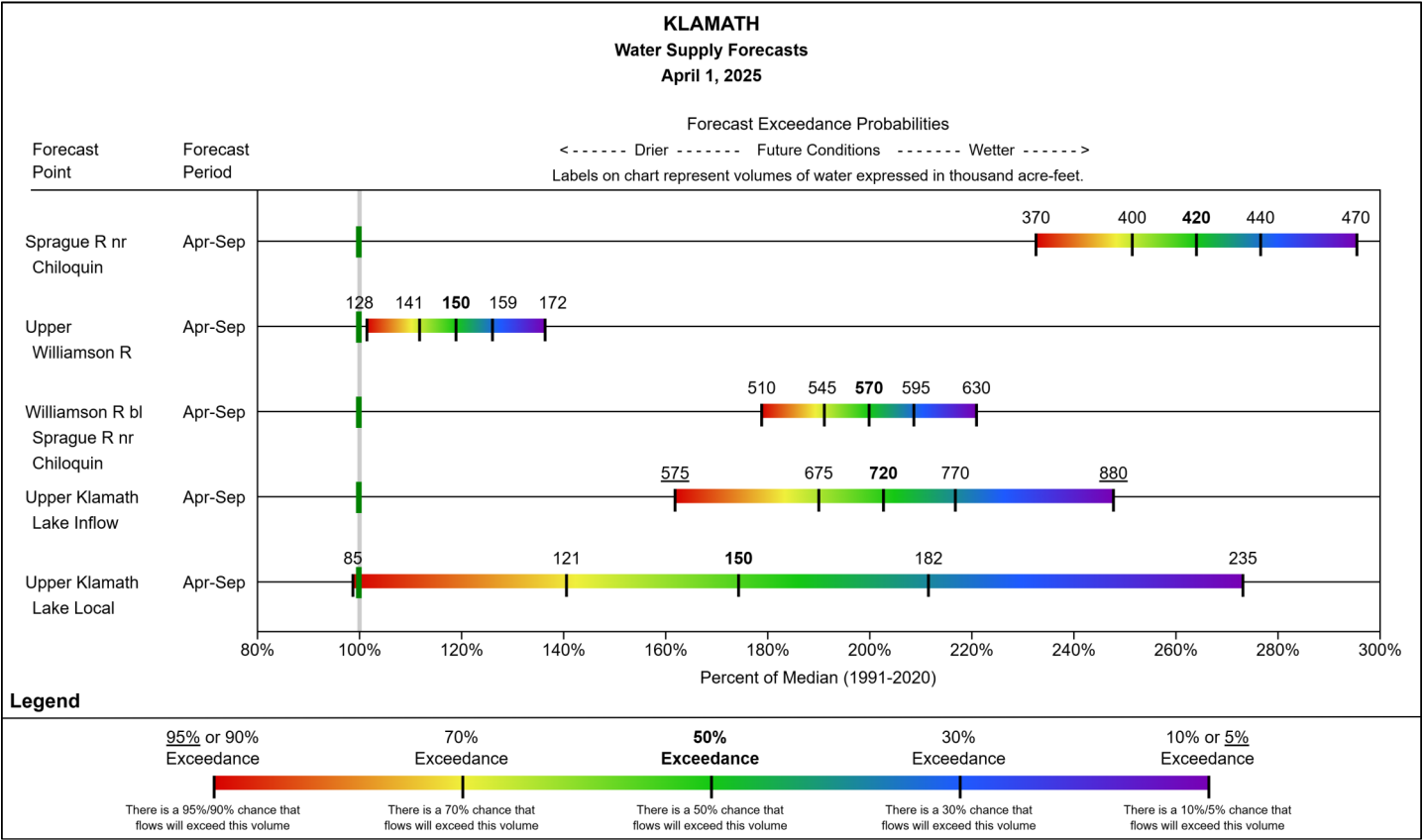
RESERVOIR STORAGE

As of April 1, storage at major reservoirs in the basin ranges from 86% of median at Fourmile Lake to 139% of median at Upper Klamath Lake. *View reservoir storage for individual sites by accessing the basin data report [here](#).*

KLAMATH					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Fourmile Lake	5750	15.6	7.4	47	6.365	41	86
Hyatt Prairie	5020	16.2	12	74	11.693	72	97
Gerber	4830	94.3	56.6	60	72.94	77	129
Howard Prairie	4530	62.1	38	61	43.939	71	116
Clear Lake	4480	513.3	155	30	180.53	35	116
Upper Klamath Lake	4140	523.7	441.9	84	613.305	117	139
Basin Index						76	131
# Reservoirs						6	6

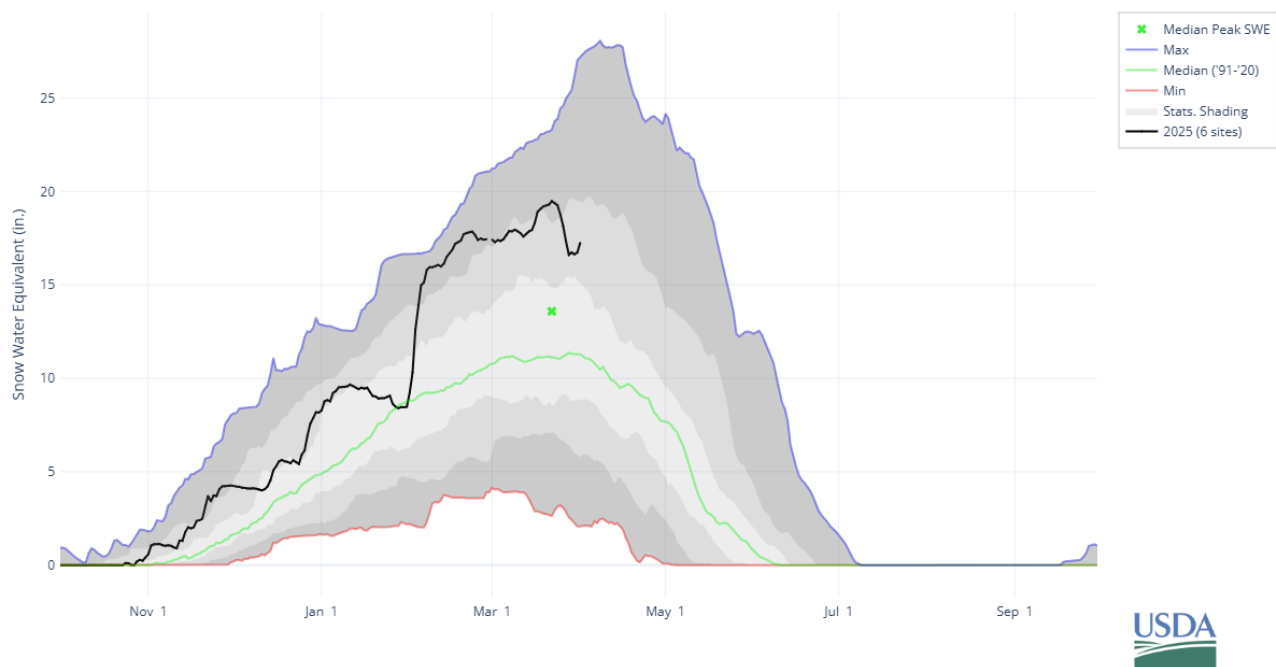
STREAMFLOW FORECAST

The streamflow forecasts for the primary period in the basin range from 119% to 264% of median. *For data in tabular format and to view other forecasts please view the basin data reports [here](#).*



Lake County, Goose Lake Basin Summary

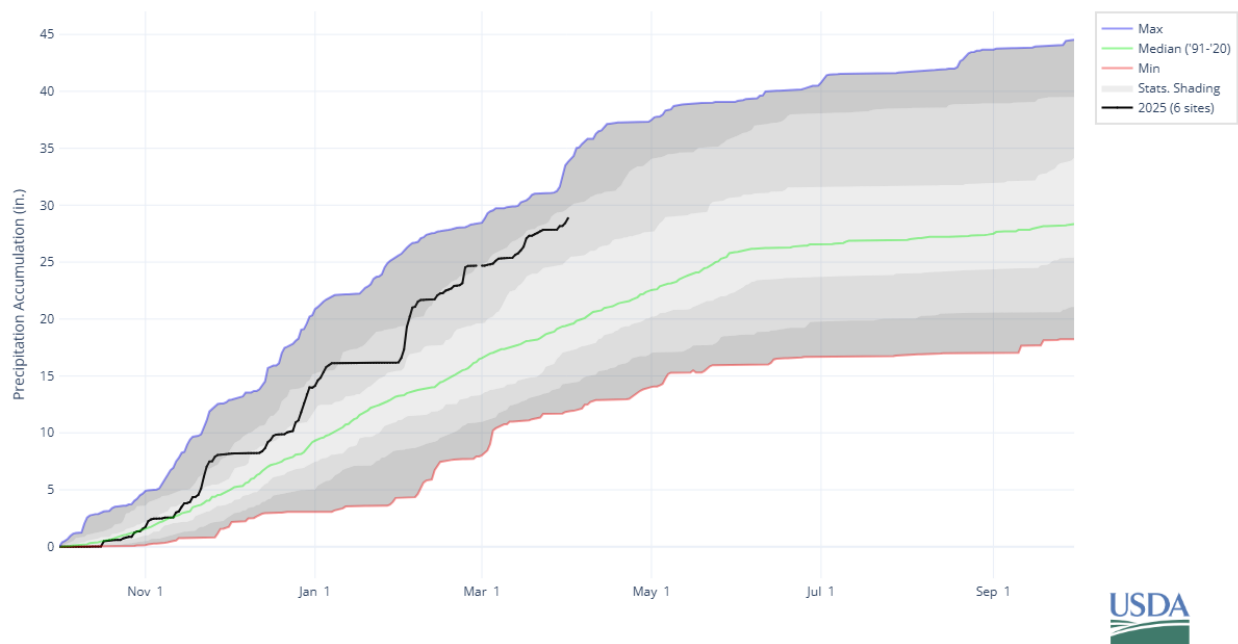
SNOWPACK



As of April 1, the basin snowpack is above normal at 206% of median. This is higher than March 1 when the basin snowpack was 200% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



March precipitation is slightly above normal at 121% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 149% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

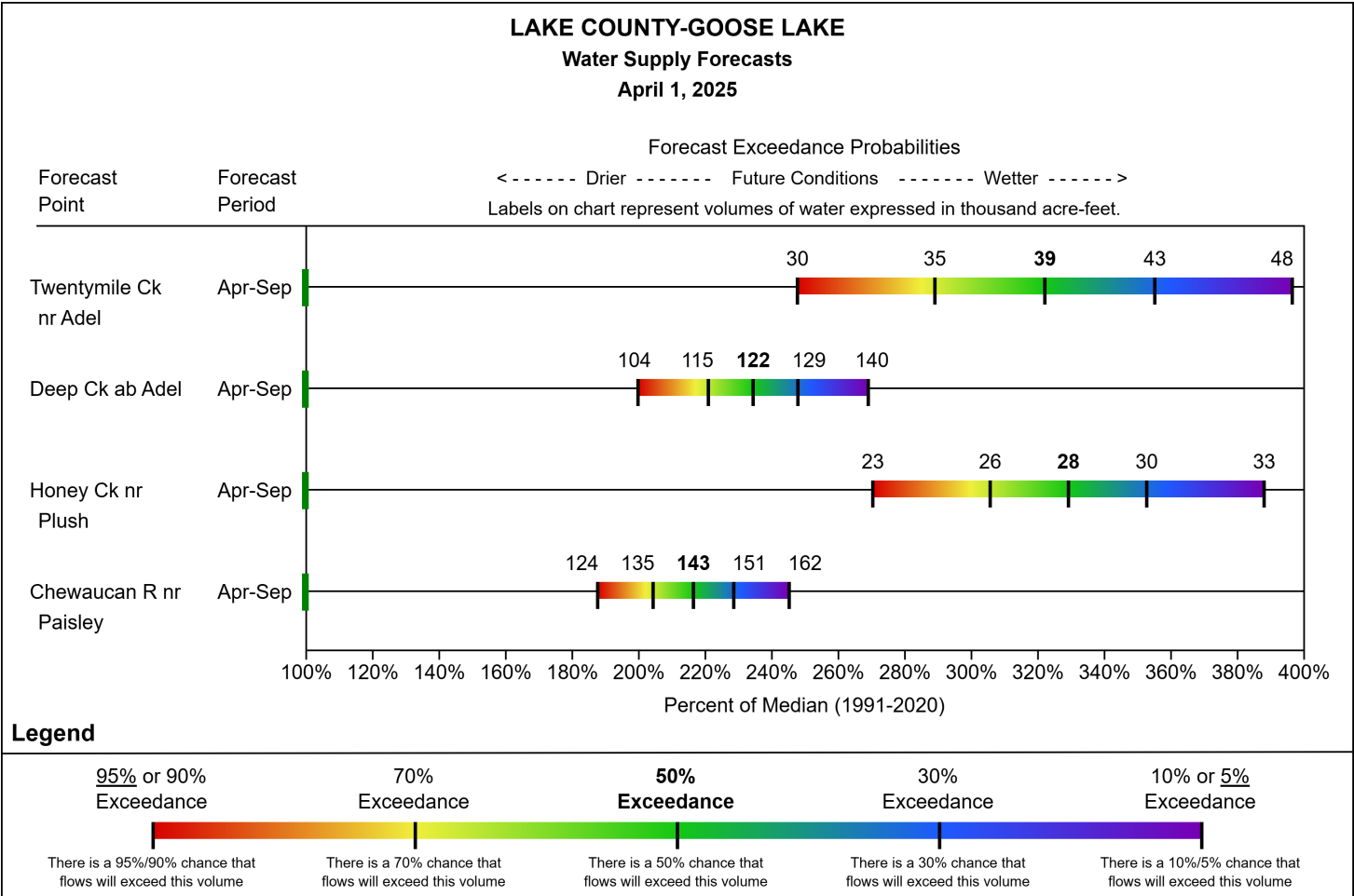
RESERVOIR STORAGE

As of April 1, storage at Cottonwood Reservoir is 138% of median and Drews Reservoir is 153% of median. View reservoir storage for individual sites by accessing the basin data report [here](#).

LAKE COUNTY-GOOSE LAKE					Water Year 2025		
Site	Elevation (ft)	Capacity (kaf)	Median (kaf)	Median % Capacity	Storage (kaf)	% Capacity	% Median
Cottonwood	5080	9.3	6.7	72	9.23	99	138
Drews	4920	63.5	44	69	67.52	106	153
Basin Index						105	151
# Reservoirs						2	2

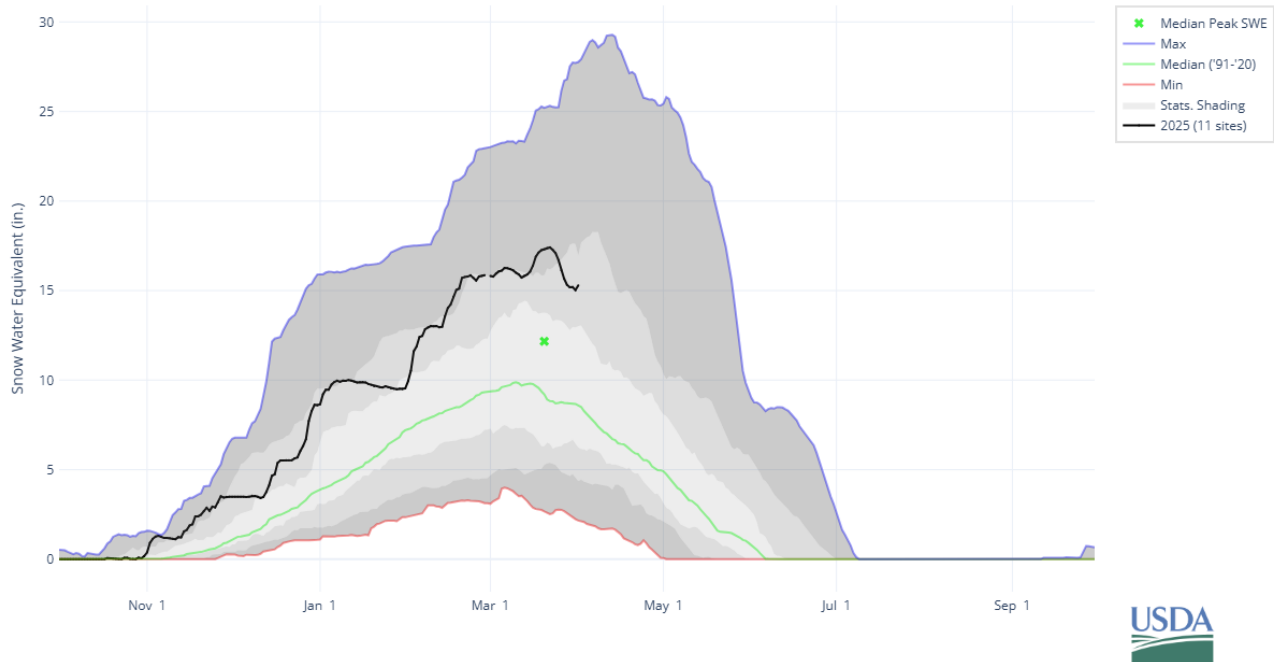
STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 217% to 329% of median. For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Harney Basin Summary

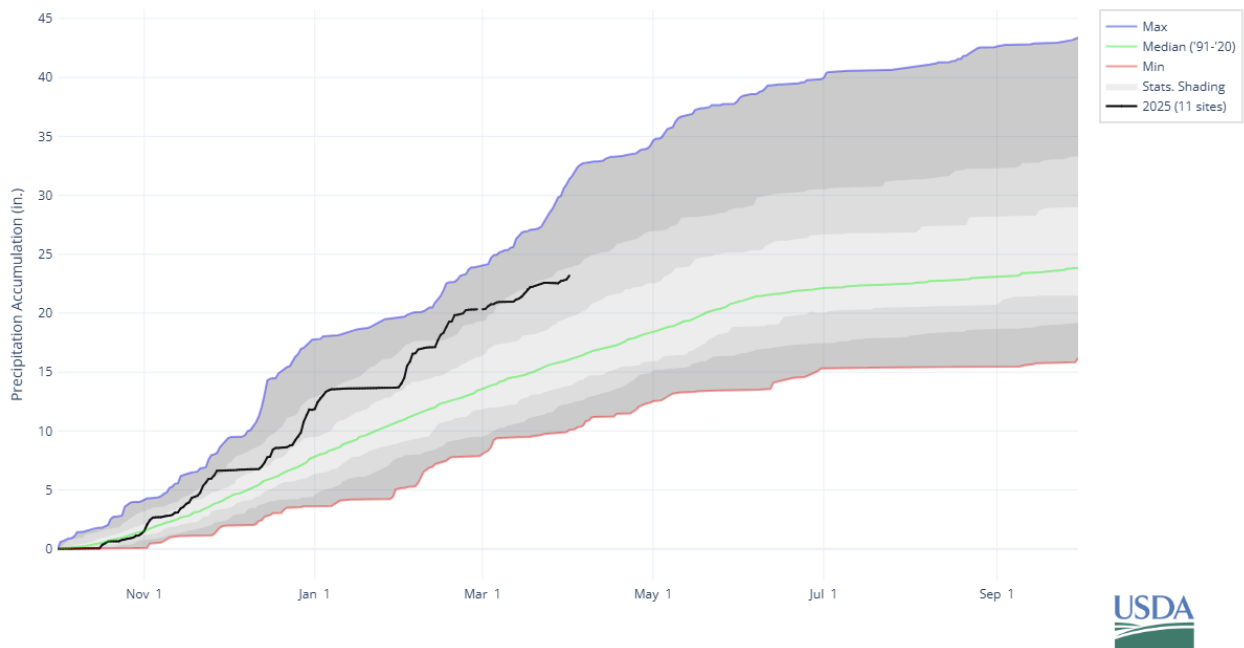
SNOWPACK



As of April 1, the basin snowpack is above normal at 178% of median. This is higher than March 1 when the basin snowpack was 170% of median.

► View snowpack for individual sites by accessing the basin data report [here](#).

PRECIPITATION



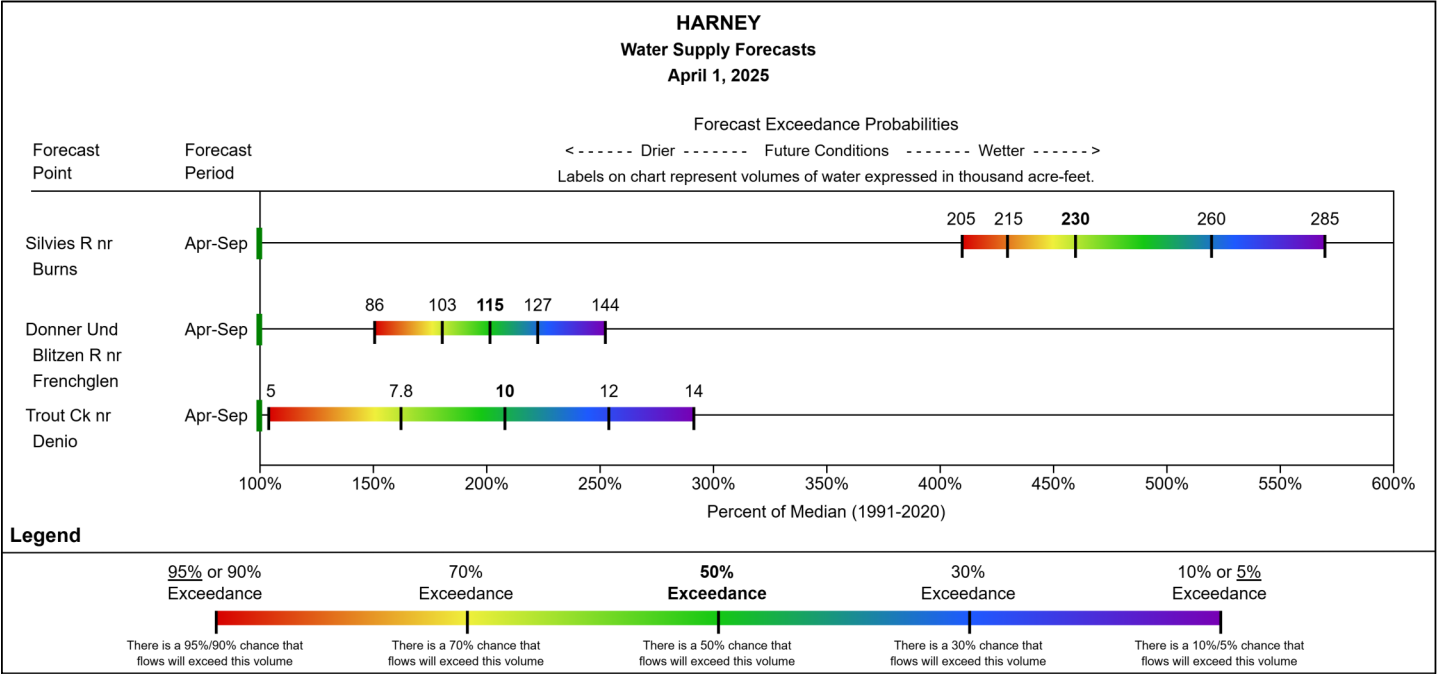
March precipitation is near normal at 103% of median. Precipitation since the beginning of the water year (October 1 - April 1) is 144% of median.

► View precipitation for individual sites by accessing the basin data report [here](#).

STREAMFLOW FORECAST

The April through September streamflow forecasts in the basin range from 202% to 460% of median.

For data in tabular format and to view other forecasts please view the basin data reports [here](#).



Additional Resources

[Snow Survey & Water Supply Forecasting Program](#)
[Development and Interpretation of Water Supply](#)
[Forecasts](#)

[User Guide to Forecast Charts](#)

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For more water supply and resource management information, contact:

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