

Official Water Supply Forecasts for January through July are computed on the 3rd workday of the month. Flood Risk Management (FRM) is computed at standard intervals and posted at: https://www.nwd-wc.usace.army.mil/report/flood_risk/

The **MAY** Water Supply Forecast sets BiOp actions as highlighted in the table below:

Forecast Point	Forecast period	Forecast	BiOp Actions to be Determined
Hungry Horse	April – August Provided by Reclamation	January, February, March	Sets min. flows at Hungry Horse and Columbia Falls
	May – September Provided by Reclamation	January, February, March	Sets VARQ FRM targets
		April	Sets VARQ FRM targets and VARQ refill flows
		May	Sets VARQ refill flows Sets end of September draft target
		June	Sets VARQ refill flows
The Dalles	April – September Provided by NWRFC	March	Sets CRWMP adjustments at Grand Coulee
	April – August Provided by NWRFC	April	Sets spring flow objective at McNary Dam
		July	Sets end of August draft limit at Grand Coulee
Lower Granite	April – July Provided by NWRFC	April	Sets spring flow objective at Lower Granite
		June	Sets summer flow objective at Lower Granite
Libby	April – August Provided by Corps Seattle District	December	Sets end of December FRM draft requirement
		January, February, March	Sets VARQ FRM requirement
		April	Sets VARQ FRM requirement and VARQ refill flows
		May	Sets Libby min. sturgeon flow volume and min. bull trout flows for after sturgeon pulse through Sep; Sets VARQ FRM targets and VARQ refill flows; Sets end of September draft target
		June	VARQ refill flows
Dworshak	April – July Provided by NWRFC	January, February, March	Manage for reservoir FRM, VDL, and Flood Control Refill Curve (FCRC)
		April, May, June	Manage for reservoir FRM and FCRC

Source: 2025 Water Management Plan, page 16 - <https://public.crohms.org/tmt/documents/wmp/2025/>

1-May-2025

Hungry Horse Dam – Official Water Supply Forecast MAY 2025

Below are the volumes for the May 2025 final forecast for Hungry Horse:

- May-Jul: 1,450 kaf (87%)
- Apr-Aug: 1,790 kaf (87%)
- May-Sep: 1,552 kaf (87%)

The May-September forecast sets the end of September draft target to 3,548.3 ft for 2025.

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U.S. Bureau of Reclamation
Columbia-Pacific Northwest Interior Region 9



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COLUMBIA - THE DALLES DAM (TDAO3)

Forecasts for Water Year 2025

Official Water Supply

ESP with 10 Days QPF Ensemble: 2025-05-05 Issued: 2025-05-05

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	Average	10 %	
APR-SEP	76709	80694	86	88043	94166
APR-JUL	65323	68900	84	75967	81933
APR-AUG	71951	75639	85	83213	89196
JAN-SEP	95960	99945	86	107294	115946
JAN-JUL	84574	88151	85	95218	103714
OCT-SEP	110035	114020	86	121369	132314

Experimental Water Supply

HEFS with 15 days EQPF Ensemble: 2025-05-05 Issued: 2025-05-05

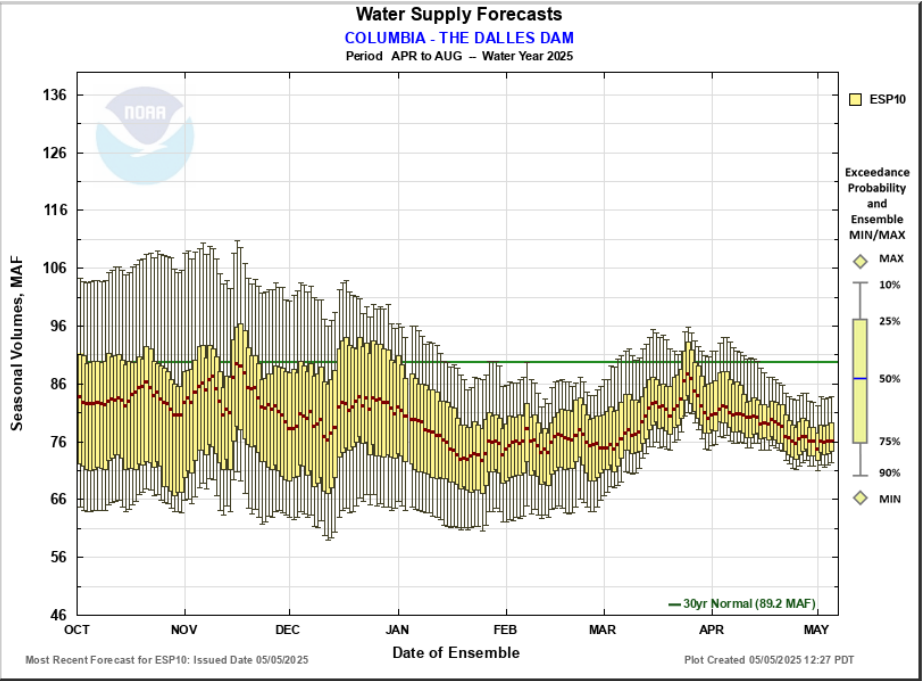
APR-SEP	76903	80968	86	88458	94166
APR-JUL	65620	69597	85	76146	81933
APR-AUG	71669	76178	85	82977	89196
JAN-SEP	96154	100218	86	107709	115946
JAN-JUL	84871	88848	86	95397	103714
OCT-SEP	110229	114293	86	121784	132314

Reference

ESP with 0 Days QPF Ensemble: 2025-05-05 Issued: 2025-05-05

APR-SEP	76715	81175	86	89053	94166
APR-JUL	65500	69876	85	77029	81933
APR-AUG	71663	76260	85	83992	89196
JAN-SEP	95966	100426	87	108304	115946
JAN-JUL	84751	89127	86	96280	103714
OCT-SEP	110041	114501	87	122379	132314

Move the mouse over the desired "Forecast Period" to display a graph.



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Overlay

ESP10 HEFS ESP0

Data Files

CSV (ESP10 / APR-AUG)

Forecast Ensemble





Northwest River Forecast Center

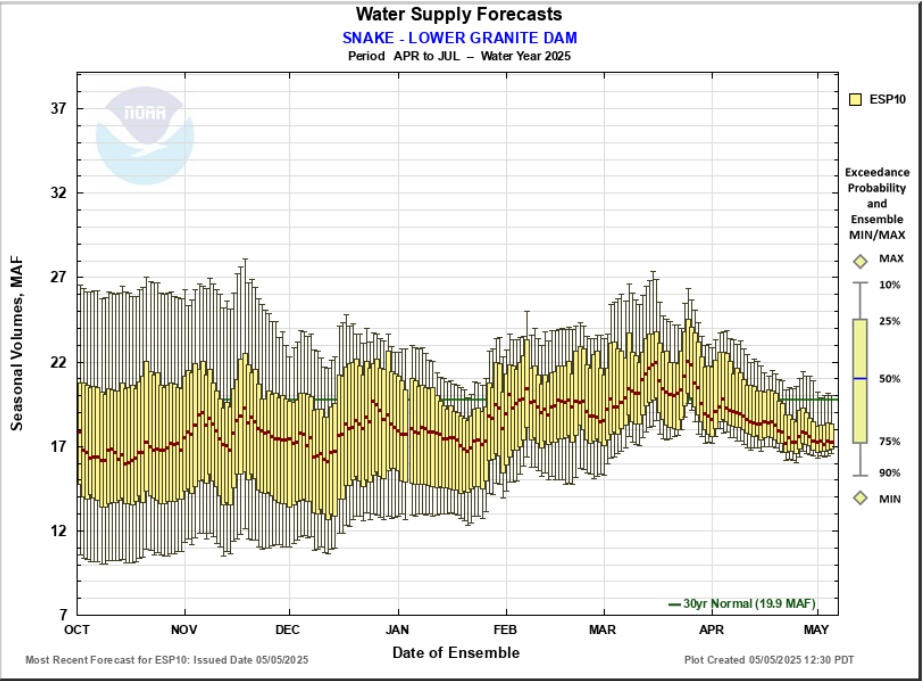
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SNAKE - LOWER GRANITE DAM (LGDW1)					
Forecasts for Water Year 2025					
Official Water Supply					
ESP with 10 Days QPF Ensemble: 2025-05-05 Issued: 2025-05-05					
Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	Average	10 %	
APR-SEP	19174	20025	90	22857	22232
APR-JUL	16735	17401	87	20185	19946
APR-AUG	17918	18714	89	21479	21121
JAN-SEP	26294	27146	91	29977	29736
JAN-JUL	23855	24521	89	27305	27450
OCT-SEP	29873	30725	90	33556	34287
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2025-05-05 Issued: 2025-05-05					
APR-SEP	18937	20127	91	23457	22232
APR-JUL	16511	17570	88	20752	19946
APR-AUG	17658	18778	89	22055	21121
JAN-SEP	26058	27247	92	30578	29736
JAN-JUL	23631	24691	90	27873	27450
OCT-SEP	29636	30826	90	34156	34287
Reference					
ESP with 0 Days QPF Ensemble: 2025-05-05 Issued: 2025-05-05					
APR-SEP	18934	20375	92	23518	22232
APR-JUL	16539	17750	89	20769	19946
APR-AUG	17698	18962	90	22106	21121
JAN-SEP	26055	27495	92	30638	29736
JAN-JUL	23659	24871	91	27889	27450
OCT-SEP	29634	31074	91	34217	34287

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CSV (ESP10 / APR-JUL)

Forecast Ensemble



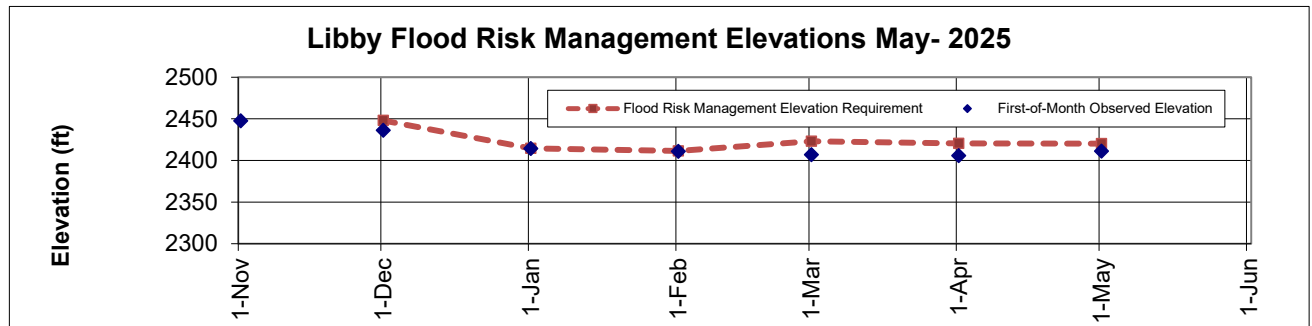
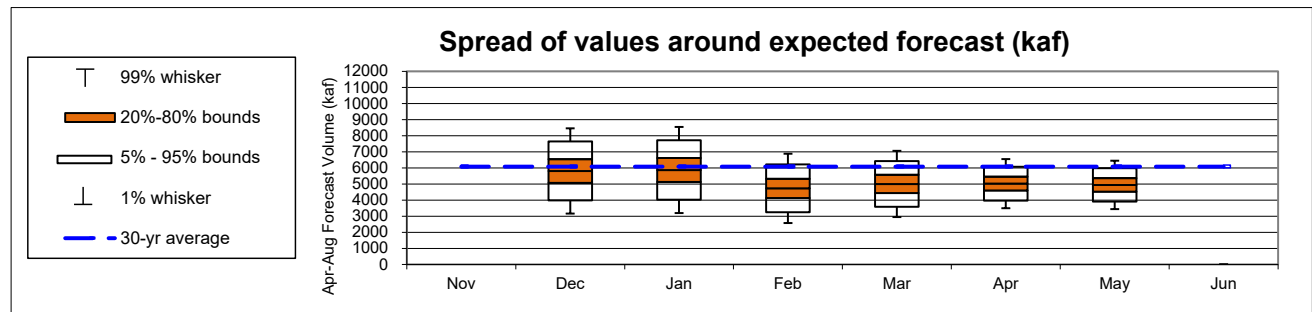
Libby : May Runoff Forecast & Flood Risk Management Calculation

WY 2025

Runoff Forecast	May	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	4944	6080	81%	6259	79%
Most Probable Runoff Volume: Apr-Jul (kaf)	4528	5570	81%	5708	79%
Most Probable Runoff Volume: May-Jul (kaf)	4095	5014	82%	5183	79%

Forecast/Reservoir Data	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast (kaf)		5812	5871	4728	5004	5023	4944	
First-of-Month Elev (ft)	2447.5	2436.1	2414.4	2410.9	2407.0	2405.8	2411.2	

Seasonal FRM Requirements	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr		
Flood Risk Management Space (kaf)	500	1867	1983	1541	1647	1656		
Flood Risk Management Elevation (ft)	2448.0	2414.6	2411.5	2423.1	2420.4	2420.2		



Notes:

- The given forecast is the official Corps of Engineers forecast for Libby. If you have any questions please contact Leon Basdekas (208) 353-2564, Andrew McCall (206) 715-2793, or David Doll (206) 741-3538.
- If a prior month's forecast as published in this document is different than what was originally published in the issue month, then the earlier forecast has been adjusted to reflect updated values for precipitation or streamflow.

Libby : May Runoff Forecast & Flood Risk Management Calculation
Apr-Aug Runoff Forecast Calculation:

Variable	Month(s)	Units	Observed Value A	Percent of Average (1991-2020)	Regression Coefficient B	Marginal Runoff (KAF) =A*B
SOI	Σ Jun:Jul					
Eureka RS, MT	Σ Oct:Apr Prcp	inches	6.2	86%	57.5	357.3
West Glacier, MT	Σ Oct:Apr Prcp	inches	18.6	93%	28.0	521.8
Cranbrook A, BC	Σ Oct:Apr Prcp	millimeters	119.6	61%	2.8	334.9
Fernie, BC	Σ Oct:Apr Prcp	millimeters	723.1	95%	0.6	441.1
Hawkins Lake, MT	1-May SWE	inches	22.4	84%	17.3	387.5
Stahl Peak, MT	1-May SWE	inches	37.1	98%	16.7	621.1
East Creek, BC	1-May SWE	millimeters	758.8	79%	0.6	432.5
Moyie Mountain, BC	1-May SWE	millimeters	148.1	39%	0.9	134.8
Sunshine Village, AB	1-May SWE	millimeters	467.0	76%	1.3	588.4
Akamina Pass, AB	1-May SWE	millimeters	284.4	78%	0.6	156.4
South Racehorse Creek, AB	1-May SWE	millimeters	154.0	44%	0.8	127.8
Intercept			1		408.0	408.0
Forecast Inflow	May-August	kaf				4511.7
Observed Inflow	April	kaf	432.4			432.4
May Forecast	April - August	kaf				4944.1

Data used in Libby Water Supply Forecast

Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Eureka RS, MT (inch)	0.6	1.3	1.0	0.4	1.3	0.7	1.0	
West Glacier, MT (inch)	1.0	4.5	3.0	0.7	2.6	4.4	2.5	
Cranbrook A, BC (mm)	8.5	44.4	19.7	7.0	15.9	15.9	8.2	
Fernie, BC (mm)	151.9	187.2	112.5	20.6	82.3	122.9	45.7	
Snow Water Equiv	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Hawkins Lake, MT (inch)				12.8	18.1	21.7	22.4	
Stahl Peak, MT (inch)			19.7	21.3	26.3	32.5	37.1	
East Creek, BC (mm)				420.4	506.6	680.0	758.8	
Moyie Mountain, BC (mm)			192.0	206.4	310.9	357.6	148.1	
Sunshine Village, AB (mm)			211.0	236.0	288.0	418.0	467.0	
Akamina Pass, AB (mm)				208.5	278.0	377.2	284.4	
South Racehorse Creek, AB (mm)				142.0	213.0	280.0	154.0	
Streamflow	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (kaf)			139.8	129.4	204.7	432.4		
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Libby FOM Elev (feet)	2447.5	2436.1	2414.4	2410.9	2407.0	2405.8	2411.2	

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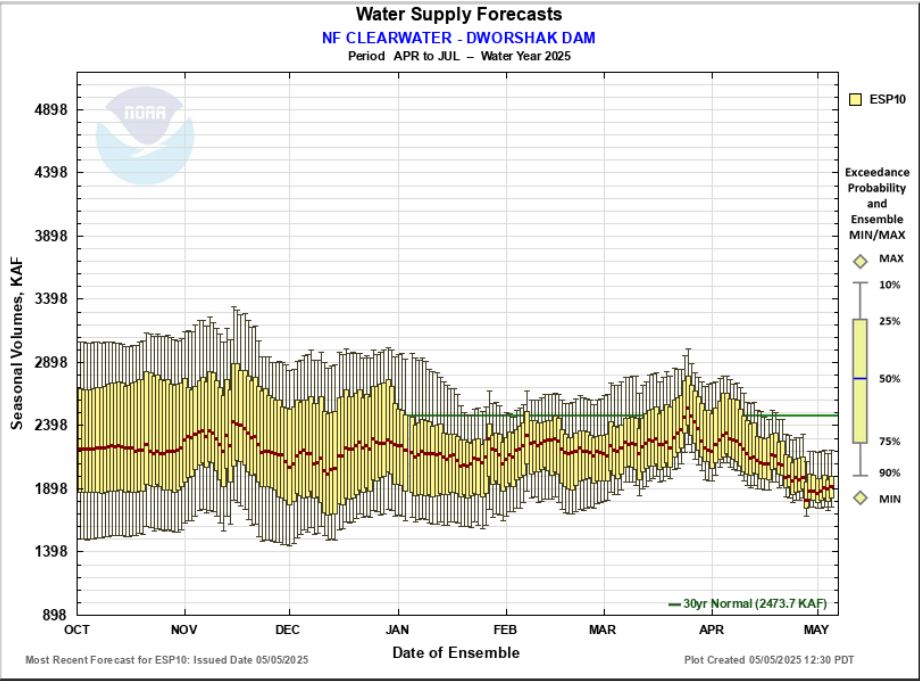
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NF CLEARWATER - DWORSHAK DAM (DWR11)					
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	90 %	50 %	Average	10 %	
APR-SEP	1862	2031	78	2336	2620
APR-JUL	1751	1916	77	2200	2474
JAN-SEP	2723	2892	82	3196	3543
JAN-JUL	2611	2776	82	3061	3397
OCT-SEP	3063	3232	81	3537	3998
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2025-05-05 Issued: 2025-05-05					
APR-SEP	1872	1983	76	2348	2620
APR-JUL	1757	1869	76	2216	2474
JAN-SEP	2732	2843	80	3208	3543
JAN-JUL	2617	2729	80	3076	3397
OCT-SEP	3073	3184	80	3549	3998
Reference					
ESP with 0 Days QPF Ensemble: 2025-05-05 Issued: 2025-05-05					
APR-SEP	1864	2028	77	2345	2620
APR-JUL	1755	1911	77	2213	2474
JAN-SEP	2724	2889	82	3206	3543
JAN-JUL	2616	2772	82	3073	3397
OCT-SEP	3064	3229	81	3546	3998
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Forecast Ensemble

