

The 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: www.nwd.usace.army.mil/Missions/Water/Columbia/FloodControl

The **JANUARY** 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://pweb.crohms.org/tmt/documents/wmp/2025/>

6-January-2025

Hungry Horse Dam – Official Water Supply Forecast JANUARY 2025

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

- Jan-Jul: 2,050 kaf (92%)
- Apr-Aug: 1,908 kaf (93%)
- May-Jul: 1,557 kaf (94%)
- May-Sep: 1,675 kaf (94%)

The minimum flows downstream of Hungry Horse based on the Apr-Aug Volume forecast are as follows:

- Columbia Falls: 3,500 cfs
- Hungry Horse: 900 cfs

End of April forecasted forebay elevation at Hungry Horse is projected to be 3,525 ft.

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Water Management | Operations Group
Boise, ID 83706



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COLUMBIA - THE DALLES DAM (TDAO3)

Forecasts for Water Year 2025

Official Water Supply

ESP with 10 Days QPF Ensemble: 2025-01-06 Issued: 2025-01-06

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	68239	84273	89	101770	94166
APR-JUL	58195	71389	87	86661	81933
APR-AUG	63738	79356	89	95594	89196
JAN-SEP	87900	105881	91	125448	115946
JAN-JUL	77348	92244	89	111114	103714
OCT-SEP	101966	119947	91	139514	132314

Experimental Water Supply

HEFS with 15 days EQPF Ensemble: 2025-01-06 Issued: 2025-01-06

APR-SEP	69342	86558	92	102879	94166
APR-JUL	58809	73363	90	88611	81933
APR-AUG	64722	80778	91	96654	89196
JAN-SEP	90097	107460	93	127525	115946
JAN-JUL	79332	94350	91	113477	103714
OCT-SEP	104163	121526	92	141591	132314

Reference

ESP with 0 Days QPF Ensemble: 2025-01-06 Issued: 2025-01-06

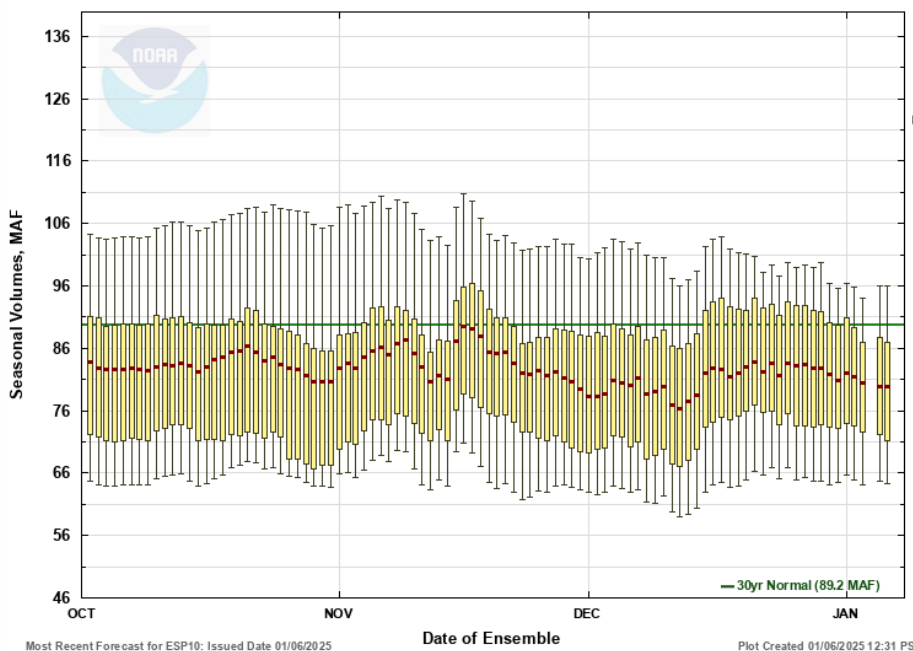
APR-SEP	70407	89027	95	105601	94166
APR-JUL	59822	75706	92	92565	81933
APR-AUG	65541	83471	94	100047	89196
JAN-SEP	90477	111514	96	131621	115946
JAN-JUL	79730	98163	95	116980	103714
OCT-SEP	104543	125580	95	145687	132314

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

Water Supply Forecasts

COLUMBIA - THE DALLES DAM

Period APR to AUG - Water Year 2025



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SNAKE - LOWER GRANITE DAM (LGDW1) Forecasts for Water Year 2025

Official Water Supply

ESP with 10 Days QPF Ensemble: 2025-01-06 Issued: 2025-01-06

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	15151	20672	93	25672	22232
APR-JUL	13076	18007	90	23043	19946
APR-AUG	14107	19378	92	24352	21121
JAN-SEP	21589	27862	94	35878	29736
JAN-JUL	19566	25422	93	33157	27450
OCT-SEP	25168	31440	92	39457	34287

Experimental Water Supply

HEFS with 15 days EQPF Ensemble: 2025-01-06 Issued: 2025-01-06

APR-SEP	15286	21148	95	25626	22232
APR-JUL	13202	18566	93	22817	19946
APR-AUG	14240	19921	94	24270	21121
JAN-SEP	21915	28364	95	35747	29736
JAN-JUL	19921	25844	94	33031	27450
OCT-SEP	25493	31942	93	39326	34287

Reference

ESP with 0 Days QPF Ensemble: 2025-01-06 Issued: 2025-01-06

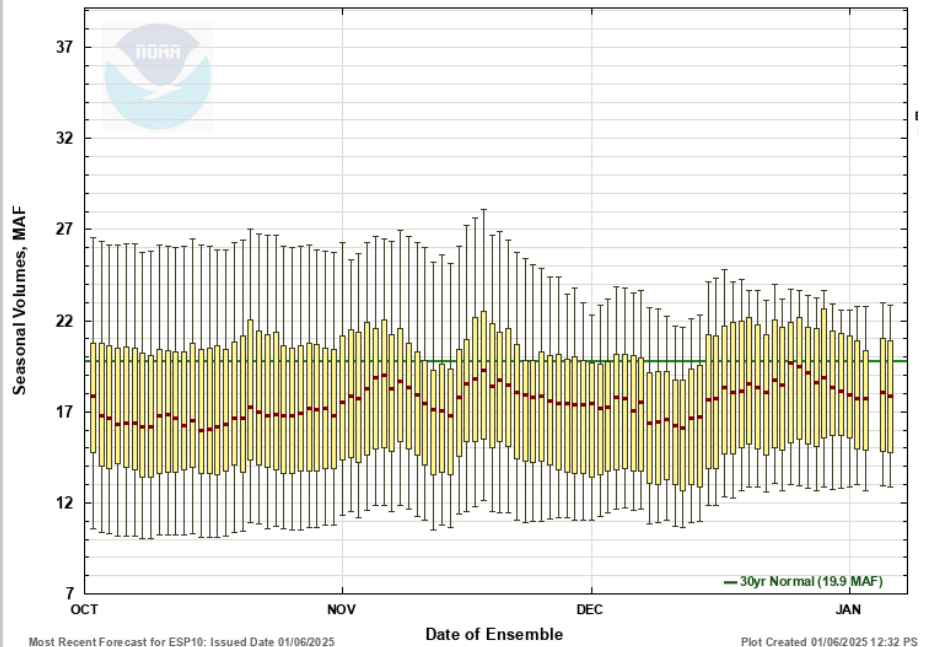
APR-SEP	15573	22306	100	27571	22232
APR-JUL	13445	19746	99	24853	19946
APR-AUG	14512	21060	100	26309	21121
JAN-SEP	22363	29879	100	37499	29736
JAN-JUL	20360	27329	100	34625	27450
OCT-SEP	25942	33458	98	41078	34287

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Water Supply Forecasts

SNAKE - LOWER GRANITE DAM

Period APR to JUL - Water Year 2025



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Libby : January Runoff Forecast & Flood Risk Management Calculation

WY 2025

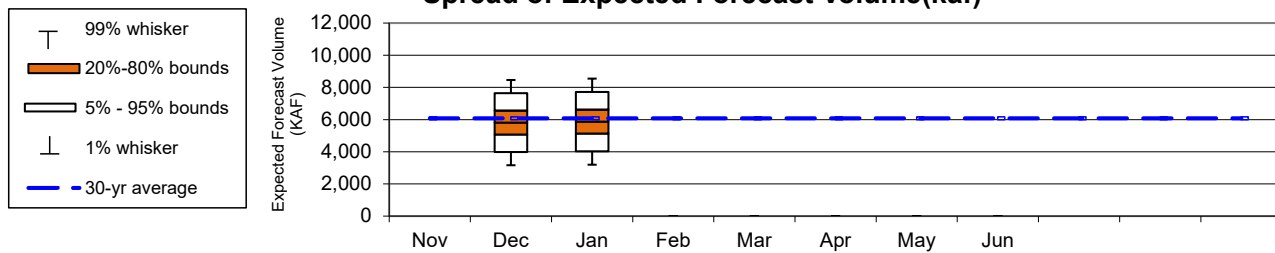
Runoff Forecast	January	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	5871	6080	97%	6259	94%
Most Probable Runoff Volume: Apr-Jul (kaf)	5379	5570	97%	5708	94%
Most Probable Runoff Volume: May-Jul (kaf)	4842	5014	97%	5183	93%

Flood Risk Management	January
31-Jan Flood Risk Management Space (kaf)	1983
31-Jan Flood Risk Management Elevation (ft)	2411.5

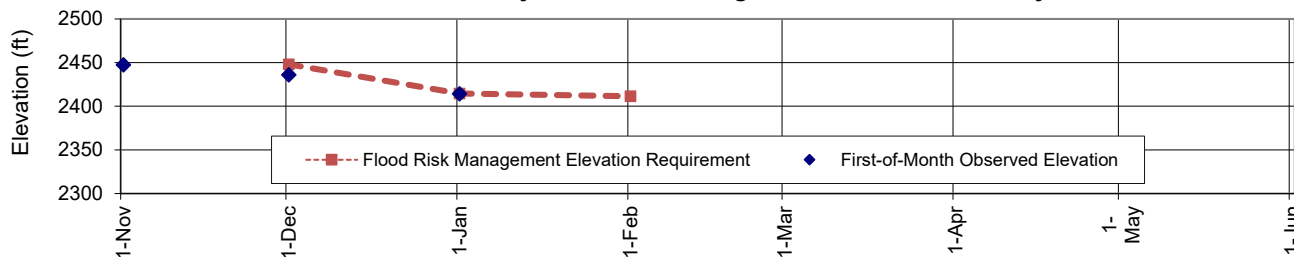
Forecast/Reservoir Data	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast (kaf)		5812	5871					
First-of-Month Elev (ft)	2447.5	2436.1	2414.4					

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

Spread of Expected Forecast Volume(kaf)



Libby Flood Risk Management Elevations January- 2025



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 : January 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		-0.70		95.28	-66.7
Eureka RS, MT	Σ Oct:Dec Prcp	inches	2.86	77%	141.74	405.4
West Glacier, MT	Σ Oct:Dec Prcp	inches	8.48	89%	58.42	495.4
Cranbrook A, BC	Σ Oct:Dec Prcp	millimeters	72.60	75%	4.58	332.5
Fernie, BC	Σ Oct:Dec Prcp	millimeters	451.61	119%	1.20	541.9
Hawkins Lake, MT	1-Jan SWE	inches				
Stahl Peak, MT	1-Jan SWE	inches	19.70	117%	34.63	682.2
East Creek, BC	1-Jan SWE	millimeters				
Moyie Mountain, BC	1-Jan SWE	millimeters	192.00	106%	1.59	304.3
Sunshine Village, AB	1-Jan SWE	millimeters	211.00	78%	2.14	451.5
Akamina Pass, AB	1-Jan SWE	millimeters				
South Racehorse Creek, AB	1-Jan SWE	millimeters				
Intercept			1		2724.44	2724.4
January Forecast	April - August	kaf				5871.0

Data used in Libby Water Supply Forecast

Climate Data				Jun-22		Jul-22		
SOI				0.00		-0.70		

Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Eureka RS, MT (inch)	0.60	1.25	1.01					
West Glacier, MT (inch)	0.98	4.49	3.01					
Cranbrook A, BC (mm)	8.50	44.40	19.70					
Fernie, BC (mm)	151.89	187.20	112.52					

Snow Water Equiv	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Hawkins Lake, MT (inch)								
Stahl Peak, MT (inch)			20					
East Creek, BC (mm)								
Moyie Mountain, BC (mm)			192					
Sunshine Village, AB (mm)			211					
Akamina Pass, AB (mm)								
South Racehorse Creek, AB (mm)								

Streamflow	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (kaf)								

Reservoir Elevation	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby FOM Elev (feet)	2447.5	2436.1	2414.4					

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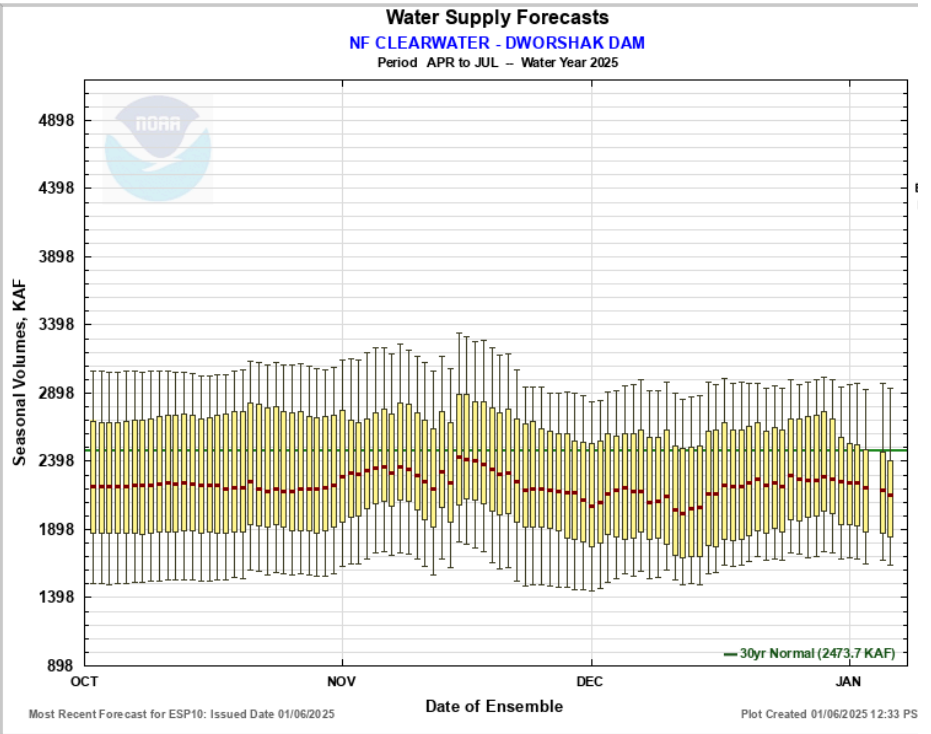
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NF CLEARWATER - DWORSHAK DAM (DWR11) Forecasts for Water Year 2025					
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Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	Average	10 %	
APR-SEP	1743	2288	87	3085	2620
APR-JUL	1637	2154	87	2933	2474
JAN-SEP	2624	3159	89	4275	3543
JAN-JUL	2515	3031	89	4140	3397
OCT-SEP	2964	3500	88	4615	3998
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2025-01-06 Issued: 2025-01-06					
APR-SEP	1753	2339	89	3041	2620
APR-JUL	1647	2199	89	2889	2474
JAN-SEP	2651	3304	93	4296	3543
JAN-JUL	2536	3166	93	4155	3397
OCT-SEP	2991	3645	91	4636	3998
Reference					
ESP with 0 Days QPF Ensemble: 2025-01-06 Issued: 2025-01-06					
APR-SEP	1805	2397	92	3125	2620
APR-JUL	1698	2262	91	2981	2474
JAN-SEP	2662	3414	96	4496	3543
JAN-JUL	2525	3281	97	4342	3397
OCT-SEP	3003	3755	94	4836	3998

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