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 **FEBRUARY** 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/

5-Feb-2025

Hungry Horse Dam – Official Water Supply Forecast
FEBRUARY 2025

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

- Feb-Jul: 1,670 kaf (77%)
- Apr-Aug: 1,617 kaf (79%)
- May-Jul: 1,303 kaf (78%)
- May-Sep: 1,409 kaf (79%)

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

- Columbia Falls: 3,420 cfs
- Hungry Horse: 760 cfs

End of April forecasted forebay elevation at Hungry Horse is projected to be 3,515.0 ft.

Chris Runyan
U.S. Bureau of Reclamation | Columbia-Pacific Northwest Interior - Region 9
Water Management | Operations Group
Boise, ID 83706

Northwest River Forecast Center

Water Supply Forecasts

Choose Date: 02/05/2025 Archive: Water Year

COLUMBIA - THE DALLES DAM (TDAO3)
Forecasts for Water Year 2025

Official Water Supply

ESP with 10 Days QPF **Ensemble:** 2025-02-05 **Issued:** 2025-02-05

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	66799	79960	85	91932	94166
APR-JUL	56284	68323	83	79572	81933
APR-AUG	62161	75228	84	86312	89196
JAN-SEP	83201	96400	83	111804	115946
JAN-JUL	73072	84744	82	99553	103714
OCT-SEP	97276	110475	83	125879	132314

Experimental Water Supply

HEFS with 15 days EQPF **Ensemble:** 2025-02-05 **Issued:** 2025-02-05

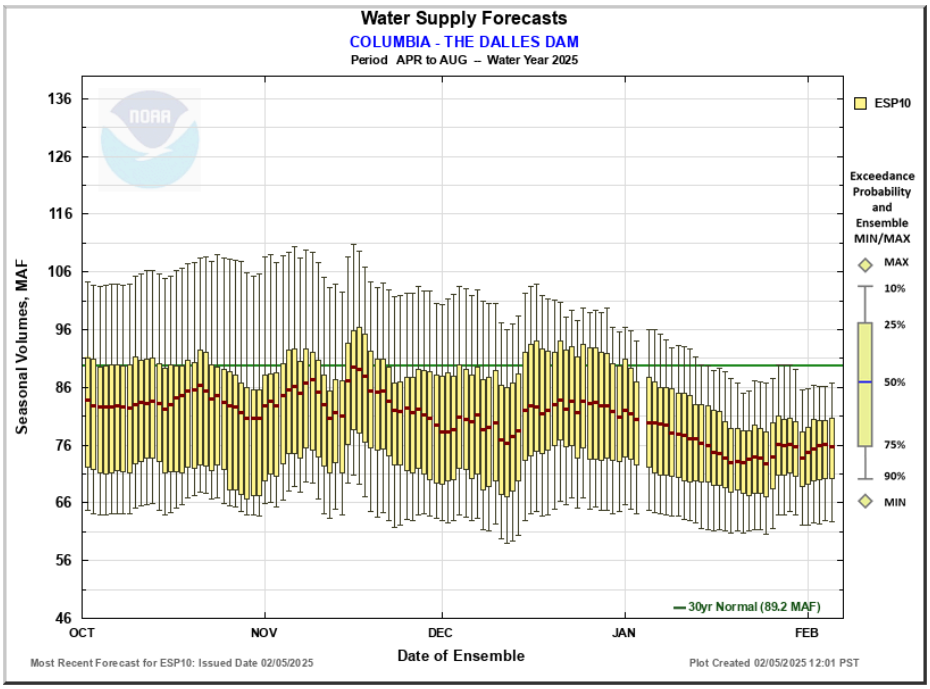
APR-SEP	69215	81408	86	94087	94166
APR-JUL	58513	68544	84	81500	81933
APR-AUG	64669	76273	86	89040	89196
JAN-SEP	85068	98014	85	115807	115946
JAN-JUL	74551	85233	82	102857	103714
OCT-SEP	99143	112089	85	129882	132314

Reference

ESP with 0 Days QPF **Ensemble:** 2025-02-05 **Issued:** 2025-02-05

APR-SEP	67939	80447	85	95812	94166
APR-JUL	57180	68770	84	81523	81933
APR-AUG	63289	75721	85	89681	89196
JAN-SEP	87019	97301	84	116685	115946
JAN-JUL	75834	85796	83	102985	103714
OCT-SEP	101094	111376	84	130760	132314

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



Max Scale | Scale To Data | Scale To Last 45 Days | Show Min/Max Ensemble Volume | Show Tooltips Help

Overlay: ESP10 | HEFS | ESP0

Data Files: CSV (ESP10 / APR-AUG) | Forecast Ensemble

Northwest River Forecast Center

Water Supply Forecasts

Choose Date: 02/05/2025 Archive: Water Year

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

Official Water Supply

ESP with 10 Days QPF **Ensemble:** 2025-02-05 **Issued:** 2025-02-05

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	17766	22512	101	26373	22232
APR-JUL	15560	19944	100	23612	19946
APR-AUG	16662	21277	101	25016	21121
JAN-SEP	24428	29338	99	34666	29736
JAN-JUL	22056	26831	98	32065	27450
OCT-SEP	28007	32916	96	38245	34287

Experimental Water Supply

HEFS with 15 days EQPF **Ensemble:** 2025-02-05 **Issued:** 2025-02-05

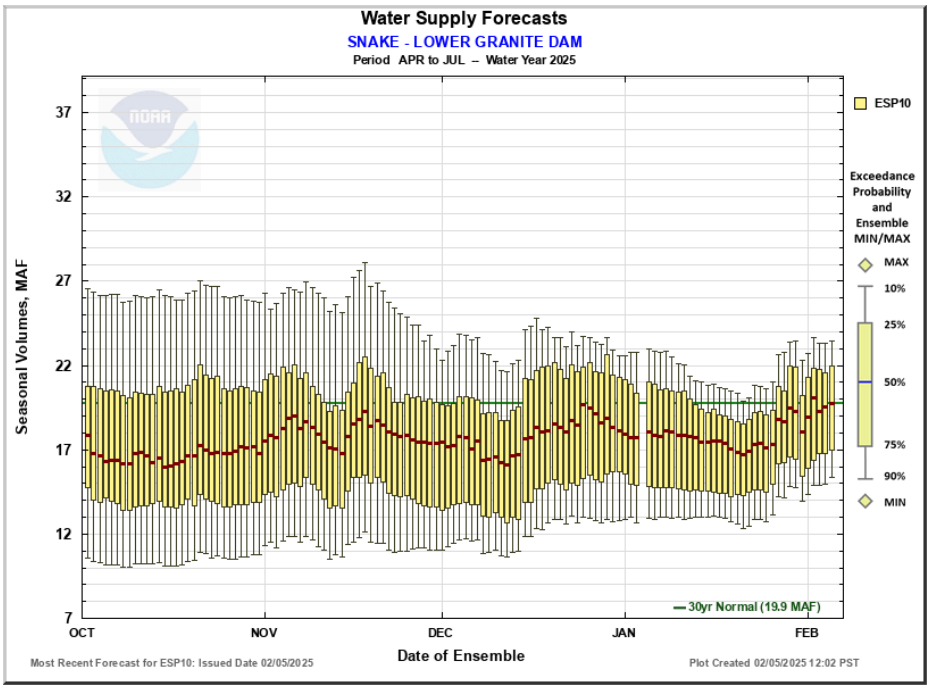
APR-SEP	17271	22243	100	26260	22232
APR-JUL	15052	19726	99	23275	19946
APR-AUG	16161	21008	99	24816	21121
JAN-SEP	23126	28467	96	34288	29736
JAN-JUL	20992	25954	95	31337	27450
OCT-SEP	26704	32045	93	37867	34287

Reference

ESP with 0 Days QPF **Ensemble:** 2025-02-05 **Issued:** 2025-02-05

APR-SEP	16470	21507	97	25791	22232
APR-JUL	14295	19025	95	23063	19946
APR-AUG	15383	20323	96	24438	21121
JAN-SEP	22771	27886	94	33611	29736
JAN-JUL	20661	25456	93	30926	27450
OCT-SEP	26350	31465	92	37189	34287

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



Max Scale | Scale To Data | Scale To Last 45 Days | Show Min/Max Ensemble Volume | Show Tooltips Help

Overlay: ESP10 | HEFS | ESP0

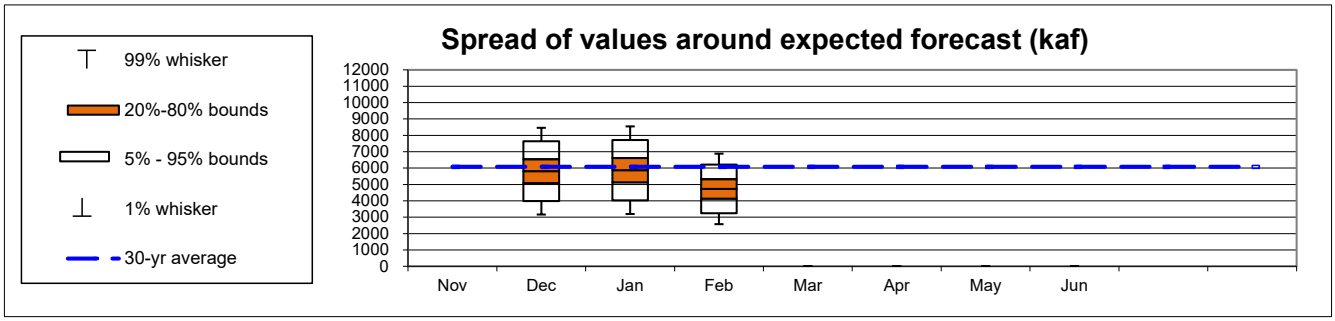
Data Files: CSV (ESP10 / APR-JUL) | Forecast Ensemble

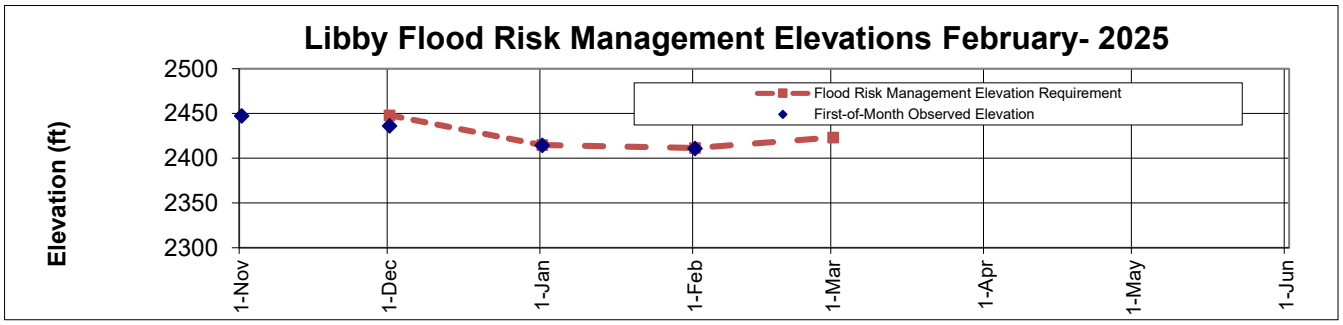
Libby : February Runoff Forecast & Flood Risk Management Calculation — WY 2025

Runoff Forecast	February	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	4728	6080	78%	6259	76%
Most Probable Runoff Volume: Apr-Jul (kaf)	4256	5570	76%	5708	75%
Most Probable Runoff Volume: May-Jul (kaf)	3824	5014	76%	5183	74%

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

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





Notes:

1. 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.
2. 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 : February 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	∑Jun:Jul					
Eureka RS, MT	∑Oct:Jan Prcp	inches	3.27	71%	78.47	256.6
West Glacier, MT	∑Oct:Jan Prcp	inches	9.15	70%	30.95	283.2
Cranbrook A, BC	∑Oct:Jan Prcp	millimeters	79.60	64%	2.84	226.1
Fernie, BC	∑Oct:Jan Prcp	millimeters	472.19	95%	0.72	340.0
Hawkins Lake, MT	1-Feb SWE	inches	12.8	78%	30.60	391.7
Stahl Peak, MT	1-Feb SWE	inches	21.30	88%	22.99	489.7
East Creek, BC	1-Feb SWE	millimeters	420.40	68%	0.75	315.3
Moyie Mountain, BC	1-Feb SWE	millimeters	206.40	70%	1.48	305.5
Sunshine Village, AB	1-Feb SWE	millimeters	236.00	61%	1.47	346.9
Akamina Pass, AB	1-Feb SWE	millimeters	208.54	66%	1.27	264.8
South Racehorse Creek, AB	1-Feb SWE	millimeters	142.00	55%	1.53	217.3
Intercept			1		1291.47	1291.5
January Forecast	April - August	kaf				4728.5

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	0.41				
West Glacier, MT (inch)	0.98	4.49	3.01	0.67				
Cranbrook A, BC (mm)	8.50	44.40	19.70	7.00				
Fernie, BC (mm)	151.89	187.20	112.52	20.57				

Snow Water Equiv	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Hawkins Lake, MT (inch)				13				
Stahl Peak, MT (inch)			20	21				
East Creek, BC (mm)				420				
Moyie Mountain, BC (mm)			192	206				
Sunshine Village, AB (mm)			211	236				
Akamina Pass, AB (mm)				209				
South Racehorse Creek, AB (mm)				142				

Streamflow	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (kaf)			139.8					

Reservoir Elevation	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby FOM Elev (feet)	2447.5	2436.1	2414.4	2410.9				

William D. Proctor, P.E.
Approving Official
Ch., Hydrologic Engineering and Power Branch
Northwestern Division

Leon Basdekas, P.E.
Upper Columbia Senior Water Manager
Seattle District

Northwest River Forecast Center

Water Supply Forecasts

Choose Date: 02/05/2025 Archive: Water Year

NF CLEARWATER - DWORSHAK DAM (DWRI1)
Forecasts for Water Year 2025

Official Water Supply

ESP with 10 Days QPF ***Ensemble:*** **2025-02-05** ***Issued:*** 2025-02-05

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	1854	2354	90	2670	2620
APR-JUL	1746	2214	90	2535	2474
JAN-SEP	2691	3112	88	3718	3543
JAN-JUL	2570	2958	87	3567	3397
OCT-SEP	3031	3452	86	4058	3998

Experimental Water Supply

HEFS with 15 days EQPF ***Ensemble:*** **2025-02-05** ***Issued:*** 2025-02-05

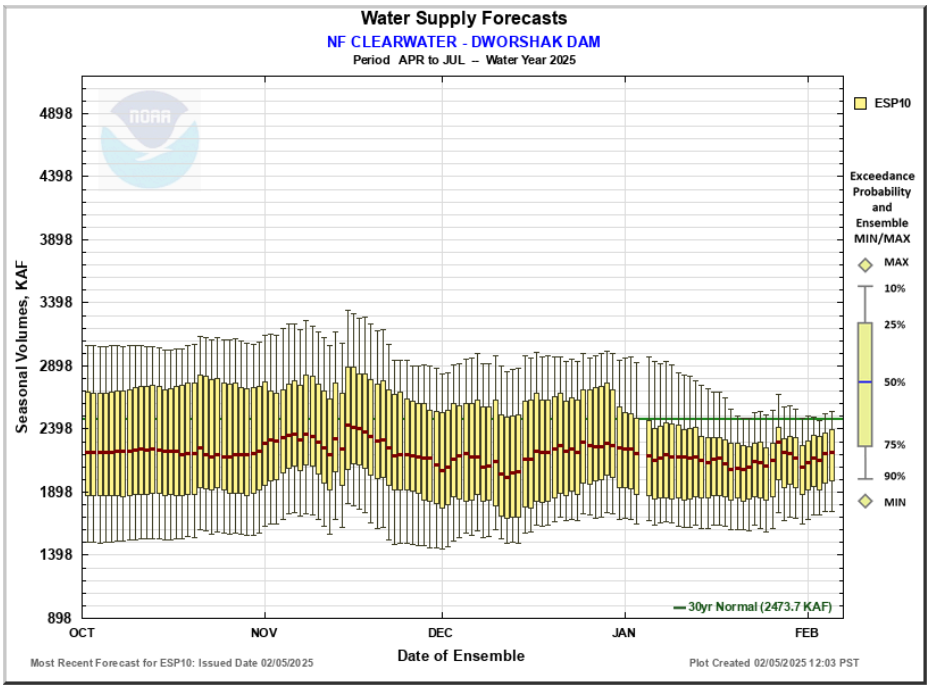
APR-SEP	1929	2413	92	2796	2620
APR-JUL	1819	2265	92	2658	2474
JAN-SEP	2690	3097	87	3858	3543
JAN-JUL	2577	2971	87	3695	3397
OCT-SEP	3030	3438	86	4198	3998

Reference

ESP with 0 Days QPF ***Ensemble:*** **2025-02-05** ***Issued:*** 2025-02-05

APR-SEP	1747	2325	89	2723	2620
APR-JUL	1637	2184	88	2580	2474
JAN-SEP	2628	3138	89	3869	3543
JAN-JUL	2519	3016	89	3714	3397
OCT-SEP	2968	3478	87	4210	3998

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



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