

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 **JUNE** 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/>

4-JUNE-2025

Hungry Horse Dam – Official Water Supply Forecast JUNE 2025

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

- Jun-Jul: 535 kaf (59%)
- Apr-Aug: 1,585 kaf (77%)
- May-Sep: 1,328 kaf (75%)
- Jan-Jul: 1,738 kaf (78%)

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Water Management
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: 2025-06-04 Issued: 2025-06-04

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	Average	10 %	
APR-SEP	72141	74038	79	76444	94166
APR-JUL	62450	63513	78	65742	81933
APR-AUG	67922	69423	78	72020	89196
JAN-SEP	91392	93289	80	95695	115946
JAN-JUL	81701	82763	80	84993	103714
OCT-SEP	105467	107364	81	109770	132314

Experimental Water Supply

HEFS with 15 days EQPF Ensemble: 2025-06-04 Issued: 2025-06-04

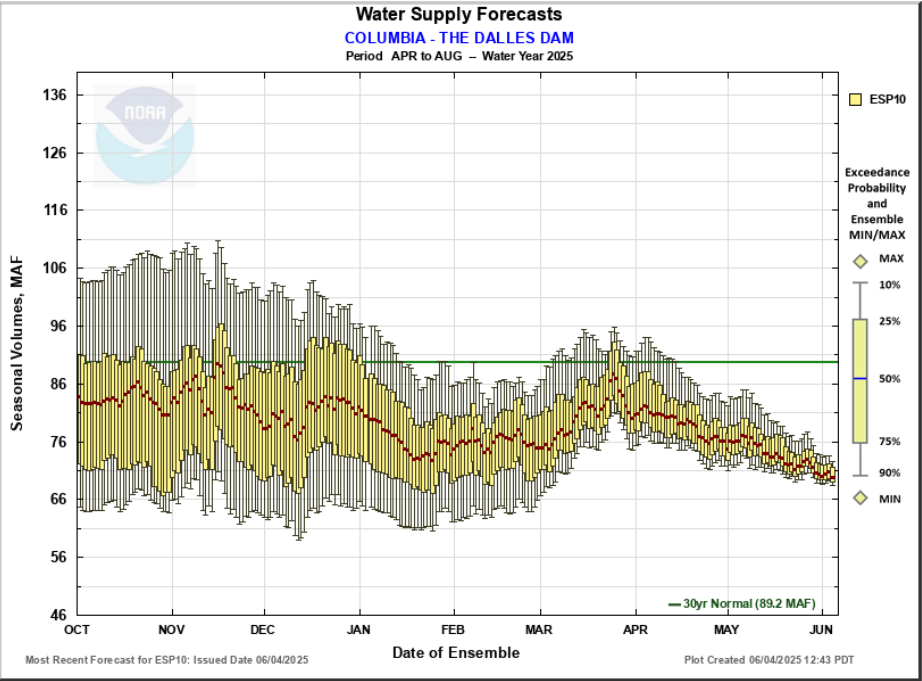
APR-SEP	72436	74290	79	77105	94166
APR-JUL	62610	63602	78	66318	81933
APR-AUG	68180	69575	78	72468	89196
JAN-SEP	91686	93540	81	96356	115946
JAN-JUL	81861	82853	80	85569	103714
OCT-SEP	105761	107615	81	110431	132314

Reference

ESP with 0 Days QPF Ensemble: 2025-06-04 Issued: 2025-06-04

APR-SEP	73645	75840	81	80681	94166
APR-JUL	63328	64926	79	68992	81933
APR-AUG	69051	71187	80	75884	89196
JAN-SEP	92896	95091	82	99932	115946
JAN-JUL	82579	84177	81	88243	103714
OCT-SEP	106971	109166	83	114007	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

Most Recent Forecast for ESP10: Issued Date 06/04/2025

Plot Created 06/04/2025 12:43 PDT

Overlay

ESP10 HEFS ESP0

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CSV (ESP10 / APR-AUG)

Forecast Ensemble



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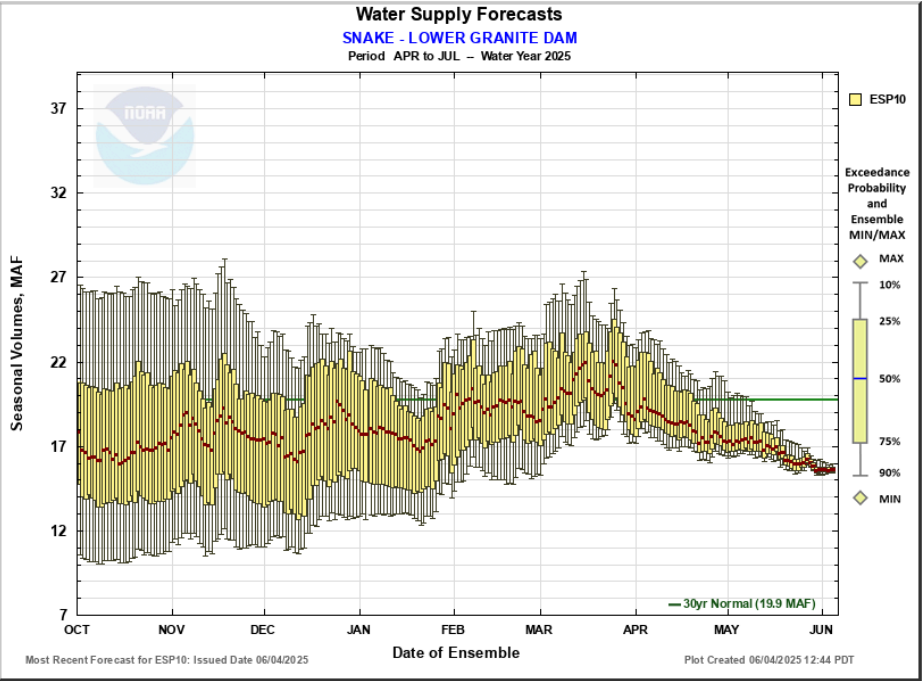
Monthly Water Supply Forecasts

Help

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SNAKE - LOWER GRANITE DAM (LGDW1)					
Forecasts for Water Year 2025					
Official Water Supply					
ESP with 10 Days QPF Ensemble: 2025-06-04 Issued: 2025-06-04					
Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	Average	10 %	
APR-SEP	18007	18245	82	18734	22232
APR-JUL	15634	15786	79	16152	19946
APR-AUG	16802	16950	80	17353	21121
JAN-SEP	25128	25365	85	25854	29736
JAN-JUL	22755	22907	83	23272	27450
OCT-SEP	28707	28944	84	29433	34287
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2025-06-04 Issued: 2025-06-04					
APR-SEP	18049	18344	83	18962	22232
APR-JUL	15669	15860	80	16325	19946
APR-AUG	16840	17067	81	17596	21121
JAN-SEP	25170	25464	86	26082	29736
JAN-JUL	22790	22980	84	23446	27450
OCT-SEP	28749	29043	85	29661	34287
Reference					
ESP with 0 Days QPF Ensemble: 2025-06-04 Issued: 2025-06-04					
APR-SEP	18144	18742	84	19858	22232
APR-JUL	15755	16267	82	17239	19946
APR-AUG	16914	17492	83	18511	21121
JAN-SEP	25265	25862	87	26978	29736
JAN-JUL	22876	23388	85	24359	27450
OCT-SEP	28843	29441	86	30557	34287

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-JUL)

Forecast Ensemble



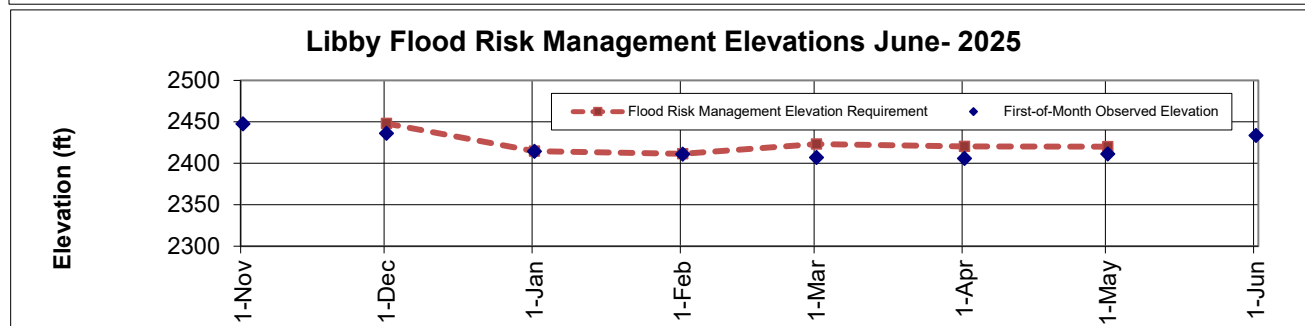
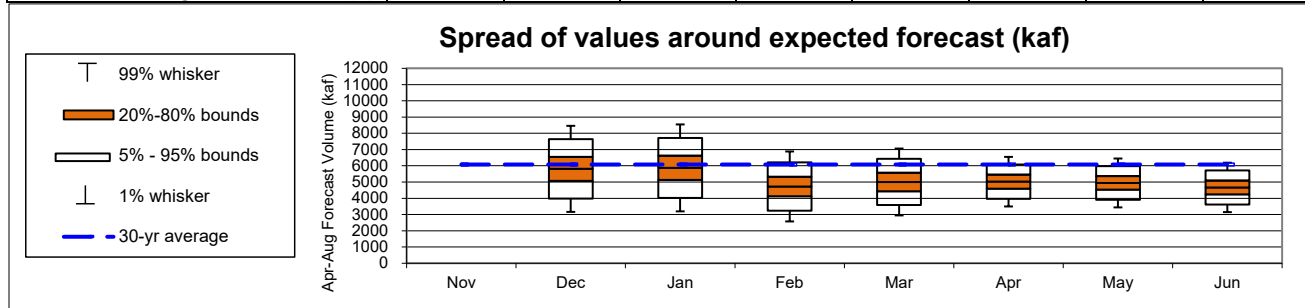
Libby : June Runoff Forecast & Flood Risk Management Calculation

WY 2025

Runoff Forecast	June	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	4670	6080	77%	6259	75%
Most Probable Runoff Volume: Apr-Jul (kaf)	4293	5570	77%	5708	75%
Most Probable Runoff Volume: May-Jul (kaf)	3860	5014	77%	5183	74%

Forecast/Reservoir Data	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast (kaf)		5812	5871	4728	5004	5023	4944	4670
First-of-Month Elev (ft)	2447.5	2436.1	2414.4	2410.9	2407.0	2405.8	2411.2	2433.5

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:

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, Lumas Helaire (206) 316-3875, 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.
3. Nearby Cranbrook A (Auto), BC dataset was used in place of Cranbrook A, BC due to a missing data point in the latter.

Libby : June 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:May Prcp	inches	7.1	79%	37.7	267.4
West Glacier, MT	Σ Oct:May Prcp	inches	20.2	90%	22.5	454.7
Cranbrook A, BC	Σ Oct:May Prcp	millimeters	119.6	50%	2.0	242.8
Fernie, BC	Σ Oct:May Prcp	millimeters	788.4	93%	0.5	395.8
Hawkins Lake, MT	1-Jun SWE	inches	0.0	0%	10.1	0.0
Stahl Peak, MT	1-Jun SWE	inches	16.2	59%	10.3	167.0
East Creek, BC	1-Jun SWE	millimeters	426.7	62%	0.4	184.4
Moyie Mountain, BC	1-Jun SWE	millimeters	0.0	0%	0.8	0.0
Sunshine Village, AB	1-Jun SWE	millimeters	155.0	34%	0.6	96.3
Akamina Pass, AB	1-Jun SWE	millimeters	11.9	19%	0.7	8.1
South Racehorse Creek, AB	1-Jun SWE	millimeters	8.0	8%	0.6	5.1
Intercept			1		978.0	978.0
Forecast Inflow	June-August	kaf				2799.6
Observed Inflow	April - May	kaf	1870.0			1870.0
May Forecast	April - August	kaf				4669.6

Data used in Libby Water Supply Forecast

Climate Data				Jun-22			Jul-22	
SOI				0.0			-0.7	

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	0.9
West Glacier, MT (inch)	1.0	4.5	3.0	0.7	2.6	4.4	2.5	1.6
Cranbrook A, BC (mm)	8.5	44.4	19.7	7.0	15.9	15.9	8.2	0.0
Fernie, BC (mm)	151.9	187.2	112.5	20.6	82.3	122.9	45.7	65.3

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	0.0
Stahl Peak, MT (inch)			19.7	21.3	26.3	32.5	37.1	16.2
East Creek, BC (mm)				420.4	506.6	680.0	758.8	426.7
Moyie Mountain, BC (mm)			192.0	206.4	310.9	357.6	148.1	0.0
Sunshine Village, AB (mm)			211.0	236.0	288.0	418.0	467.0	155.0
Akamina Pass, AB (mm)				208.5	278.0	377.2	284.4	11.9
South Racehorse Creek, AB (mm)				142.0	213.0	280.0	154.0	8.0

Streamflow	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (kaf)			139.8	129.4	204.7	432.4	1437.6	

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	2433.5

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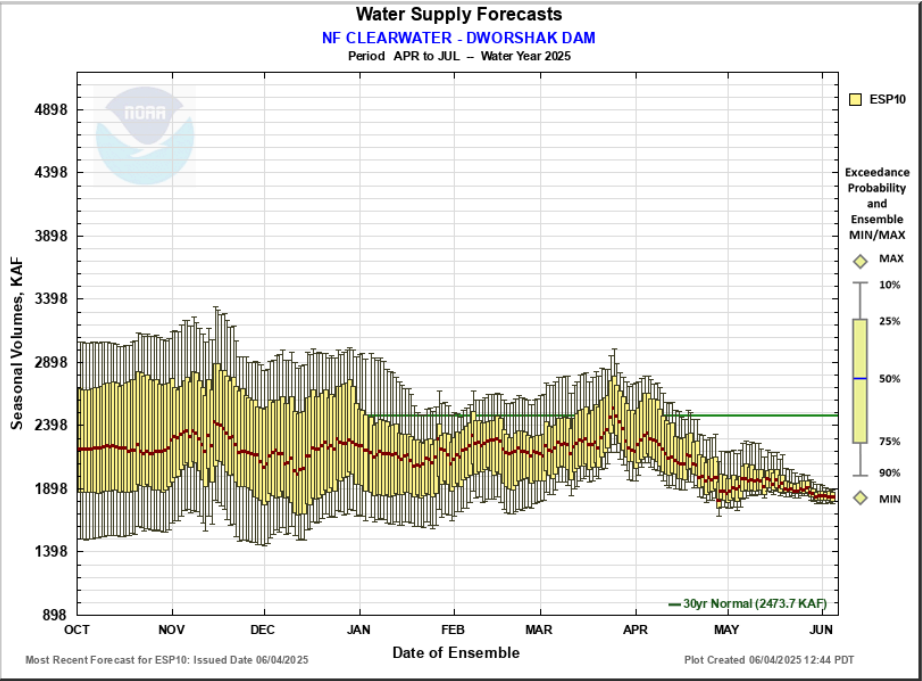
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NF CLEARWATER - DWORSHAK DAM (DWR11) Forecasts for Water Year 2025					
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	90 %	50 %	Average	10 %	
APR-SEP	1895	1953	75	2025	2620
APR-JUL	1785	1835	74	1891	2474
JAN-SEP	2755	2813	79	2886	3543
JAN-JUL	2645	2695	79	2752	3397
OCT-SEP	3095	3153	79	3226	3998
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2025-06-04 Issued: 2025-06-04					
APR-SEP	1905	1950	74	2043	2620
APR-JUL	1792	1829	74	1924	2474
JAN-SEP	2765	2811	79	2904	3543
JAN-JUL	2653	2690	79	2784	3397
OCT-SEP	3106	3151	79	3244	3998
Reference					
ESP with 0 Days QPF Ensemble: 2025-06-04 Issued: 2025-06-04					
APR-SEP	1928	1989	76	2107	2620
APR-JUL	1818	1869	76	1981	2474
JAN-SEP	2788	2849	80	2968	3543
JAN-JUL	2679	2729	80	2842	3397
OCT-SEP	3129	3190	80	3308	3998
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