

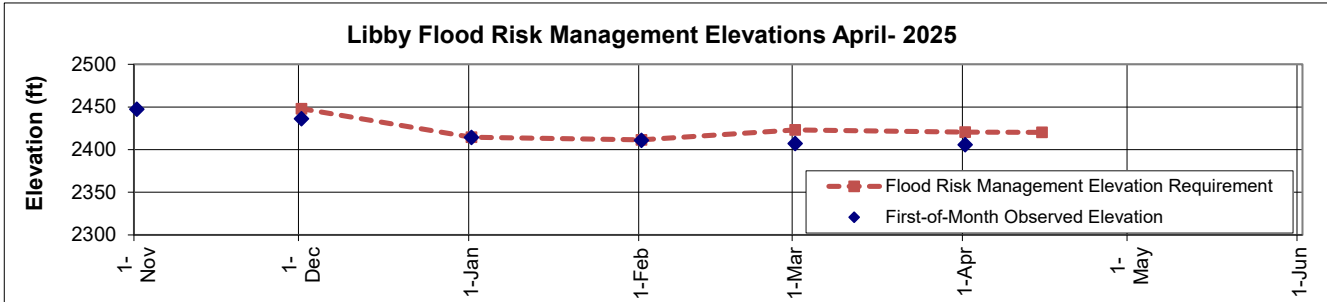
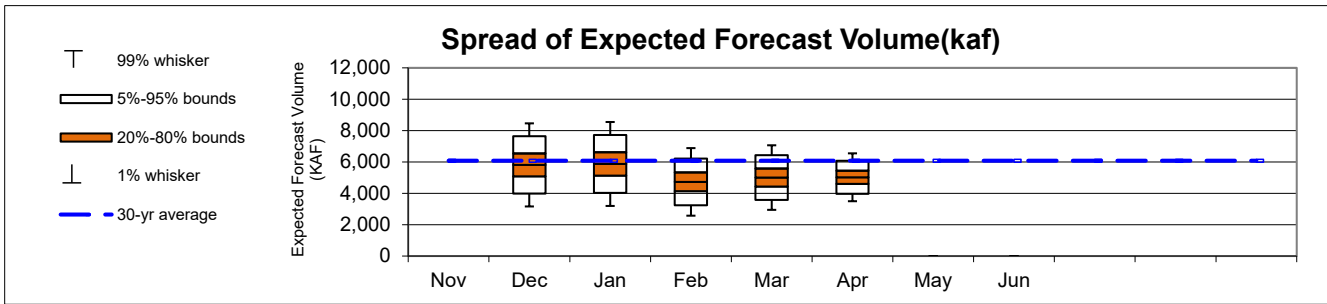
Libby : April Runoff Forecast & Flood Risk Management Calculation

WY 2025

Runoff Forecast	April	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	5023	6080	83%	6259	80%
Most Probable Runoff Volume: Apr-Jul (kaf)	4601	5570	83%	5708	81%
Most Probable Runoff Volume: May-Jul (kaf)	4142	5014	83%	5183	80%

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

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 : April 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	ΣJun:Jul					
Eureka RS, MT	ΣOct:Mar Prcp	inches	5.26	84%	68.52	360.4
West Glacier, MT	ΣOct:Mar Prcp	inches	16.09	90%	29.47	474.2
Cranbrook A, BC	ΣOct:Mar Prcp	millimeters	111.40	64%	2.99	333.1
Fernie, BC	ΣOct:Mar Prcp	millimeters	677.42	99%	0.71	481.0
Hawkins Lake, MT	1-Apr SWE	inches	21.70	85%	22.43	486.7
Stahl Peak, MT	1-Apr SWE	inches	32.50	91%	19.70	640.3
East Creek, BC	1-Apr SWE	millimeters	680.00	77%	0.73	496.4
Moyie Mountain, BC	1-Apr SWE	millimeters	357.60	80%	1.21	432.7
Sunshine Village, AB	1-Apr SWE	millimeters	418.00	74%	1.43	597.7
Akamina Pass, AB	1-Apr SWE	millimeters	377.22	80%	0.72	271.6
South Racehorse Creek, AB	1-Apr SWE	millimeters	280.00	67%	1.35	378.0
Intercept			1		70.54	70.5
April Forecast	April - August	kaf				5022.6

Data used in Libby Water Supply Forecast

Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Eureka RS, MT (inch)	0.60	1.25	1.01	0.41	1.30	0.69		
West Glacier, MT (inch)	0.98	4.49	3.01	0.67	2.56	4.38		
Cranbrook A, BC (mm)	8.50	44.40	19.70	7.00	15.90	15.90		
Fernie, BC (mm)	151.89	187.20	112.52	20.57	82.30	122.94		
Snow Water Equiv	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Hawkins Lake, MT (inch)				12.8	18.1	21.7		
Stahl Peak, MT (inch)			19.7	21.3	26.3	32.5		
East Creek, BC (mm)				420.4	506.6	680.0		
Moyie Mountain, BC (mm)			192.0	206.4	310.9	357.6		
Sunshine Village, AB (mm)			211.0	236.0	288.0	418.0		
Akamina Pass, AB (mm)				208.5	278.0	377.2		
South Racehorse Creek, AB (mm)				142.0	213.0	280.0		
Streamflow	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (kaf)			139.8	129.4	204.7			
Reservoir Elevation	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby FOM Elev (feet)	2447.5	2436.1	2414.4	2410.9	2407.0	2405.8		

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