

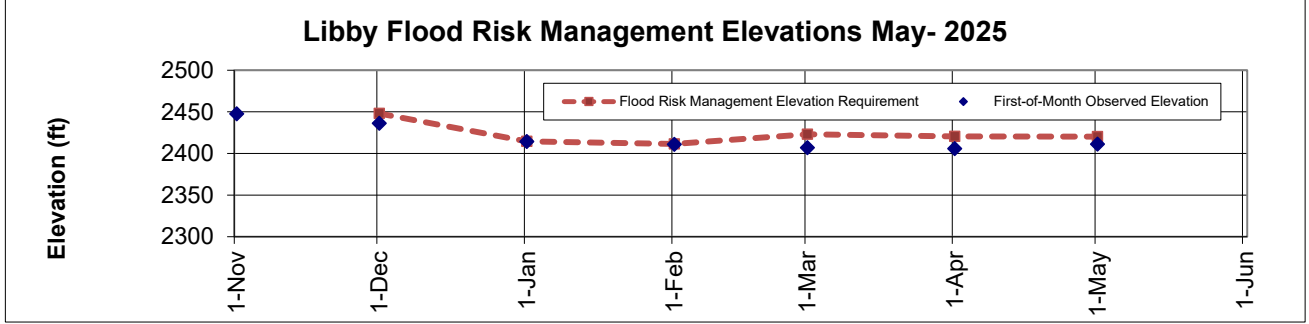
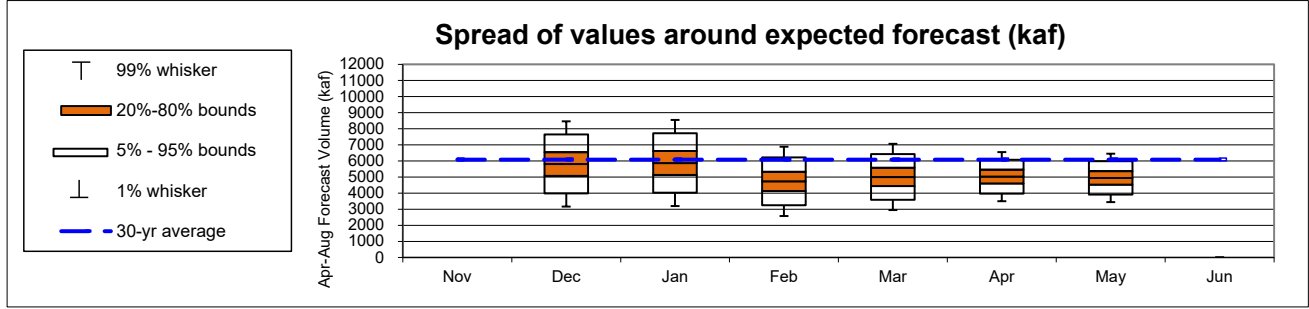
Libby : May Runoff Forecast & Flood Risk Management Calculation

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:

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 : 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	ΣJun:Jul					
Eureka RS, MT	ΣOct:Apr Prcp	inches	6.2	86%	57.5	357.3
West Glacier, MT	ΣOct:Apr Prcp	inches	18.6	93%	28.0	521.8
Cranbrook A, BC	ΣOct:Apr Prcp	millimeters	119.6	61%	2.8	334.9
Fernie, BC	ΣOct: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	

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