

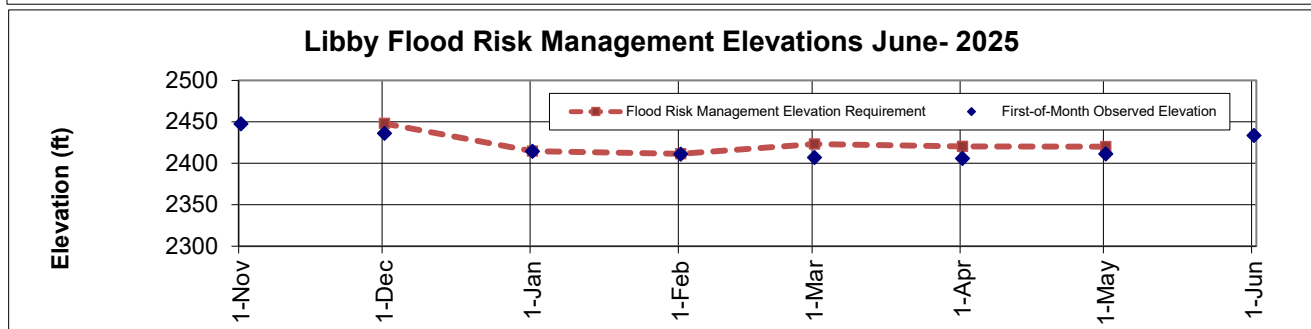
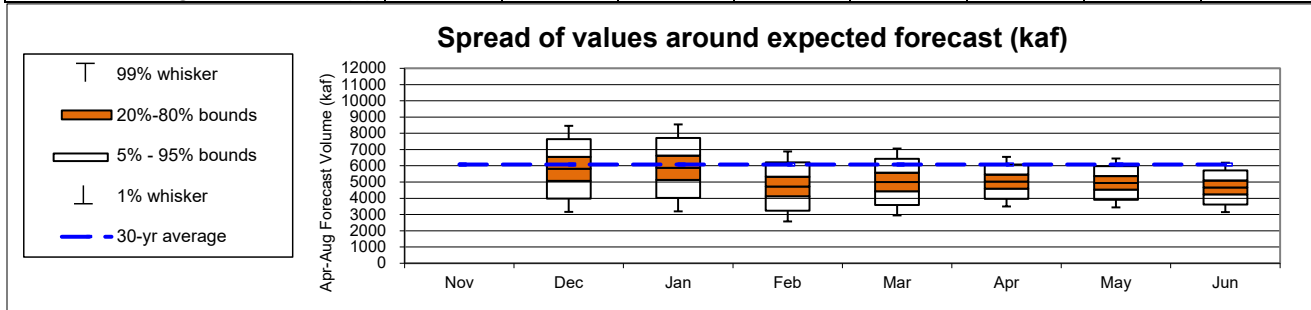
Libby : June Runoff Forecast & Flood Risk Management Calculation

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.

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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:May Prcp	inches	7.1	79%	37.7	267.4
West Glacier, MT	ΣOct:May Prcp	inches	20.2	90%	22.5	454.7
Cranbrook A, BC	ΣOct:May Prcp	millimeters	119.6	50%	2.0	242.8
Fernie, BC	ΣOct: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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