

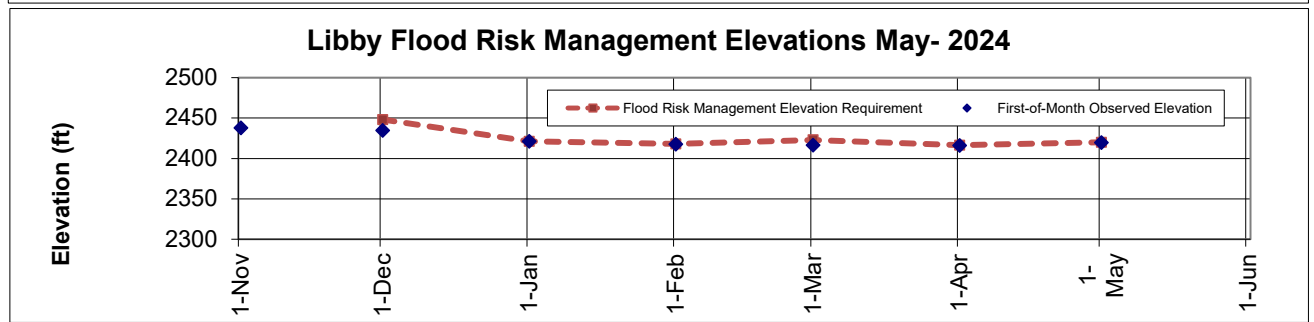
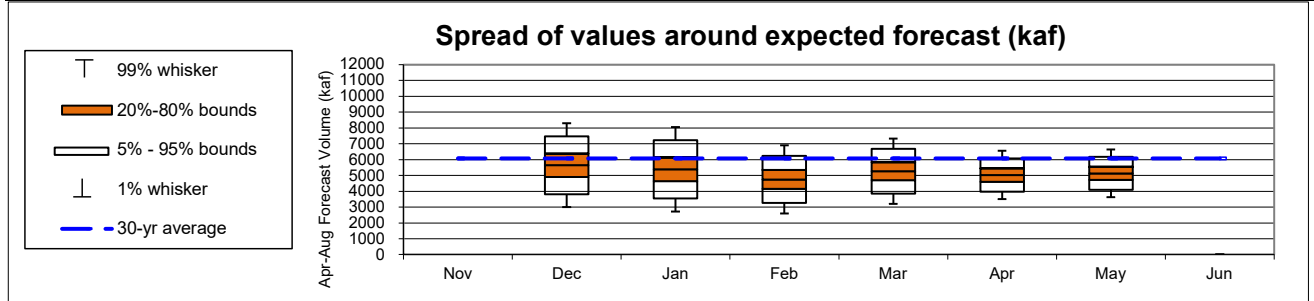
**Libby : May Runoff Forecast & Flood Risk Management Calculation**

**WY 2024**

Runoff Forecast	May	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
<b>Most Probable Runoff Volume: Apr-Aug (kaf)</b>	<b>5129</b>	6080	84%	6259	82%
<b>Most Probable Runoff Volume: Apr-Jul (kaf)</b>	<b>4697</b>	5570	84%	5708	82%
<b>Most Probable Runoff Volume: May-Jul (kaf)</b>	<b>4240</b>	5014	85%	5183	82%

Forecast/Reservoir Data	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Apr-Aug Runoff Forecast (kaf)</b>		5642	5385	4743	5261	5026	5129	
<b>First-of-Month Elev (ft)</b>	2437.9	2434.8	2421.2	2417.5	2416.4	2415.9	2419.7	

Seasonal FRM Requirements	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr		
<b>Flood Risk Management Space (kaf)</b>	500	1613	1745	1547	1799	1658		
<b>Flood Risk Management Elevation (ft)</b>	2448.0	2421.3	2417.9	2423.0	2416.4	2420.1		



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, Courtney Moore (206) 316-3005, David Varner (206) 316-3155 or Jason Chang (206) 764-3528.
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	6.4	89%	57.5	370.0
West Glacier, MT	ΣOct:Apr Prcp	inches	17.5	88%	28.0	491.0
Cranbrook A, BC	ΣOct:Apr Prcp	millimeters	151.4	77%	2.8	423.9
Fernie, BC	ΣOct:Apr Prcp	millimeters	791.6	104%	0.6	482.9
Hawkins Lake, MT	1-May SWE	inches	20.7	78%	17.3	358.1
Stahl Peak, MT	1-May SWE	inches	32.0	84%	16.7	535.7
East Creek, BC	1-May SWE	millimeters	834.5	87%	0.6	475.7
Moyie Mountain, BC	1-May SWE	millimeters	170.3	45%	0.9	155.0
Sunshine Village, AB	1-May SWE	millimeters	494.8	81%	1.3	623.5
Akamina Pass, AB	1-May SWE	millimeters	215.2	59%	0.6	118.3
South Racehorse Creek, AB	1-May SWE	millimeters	276.3	78%	0.8	229.3
Intercept			1		408.0	408.0
Forecast Inflow	May-August	kaf				4671.3
Observed Inflow	April	kaf	457.3			457.3
May Forecast	April - August	kaf				5128.6

**Data used in Libby Water Supply Forecast**

Climate Data			Jun-23	Jul-23
SOI			0.3	-0.3

Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Eureka RS, MT (inch)	0.6	1.9	0.7	1.1	0.6	0.8	0.8	
West Glacier, MT (inch)	1.5	4.1	2.7	3.4	2.5	2.0	1.3	
Cranbrook A, BC (mm)	4.8	22.2	27.4	24.1	25.3	23.8	23.8	
Fernie, BC (mm)	98.3	129.8	243.3	87.6	96.4	89.9	46.2	

Snow Water Equiv	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Hawkins Lake, MT (inch)				8.7	15.6	20.5	20.7	
Stahl Peak, MT (inch)			11.9	21.4	26.3	30.7	32.0	
East Creek, BC (mm)				433.0	602.5	711.5	834.5	
Moyie Mountain, BC (mm)			85.0	138.4	226.5	270.0	170.3	
Sunshine Village, AB (mm)			168.7	233.9	370.1	372.2	494.8	
Akamina Pass, AB (mm)				211.6	289.5	383.9	215.2	
South Racehorse Creek, AB (mm)				147.6	264.0	340.7	276.3	

	c	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (kaf)		161.5	192.0	226.6	457.3		

Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Libby FOM Elev (feet)	2437.9	2434.8	2421.2	2417.5	2416.4	2415.9	2419.7	

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