

Libby : January Runoff Forecast & Flood Risk Management Calculation

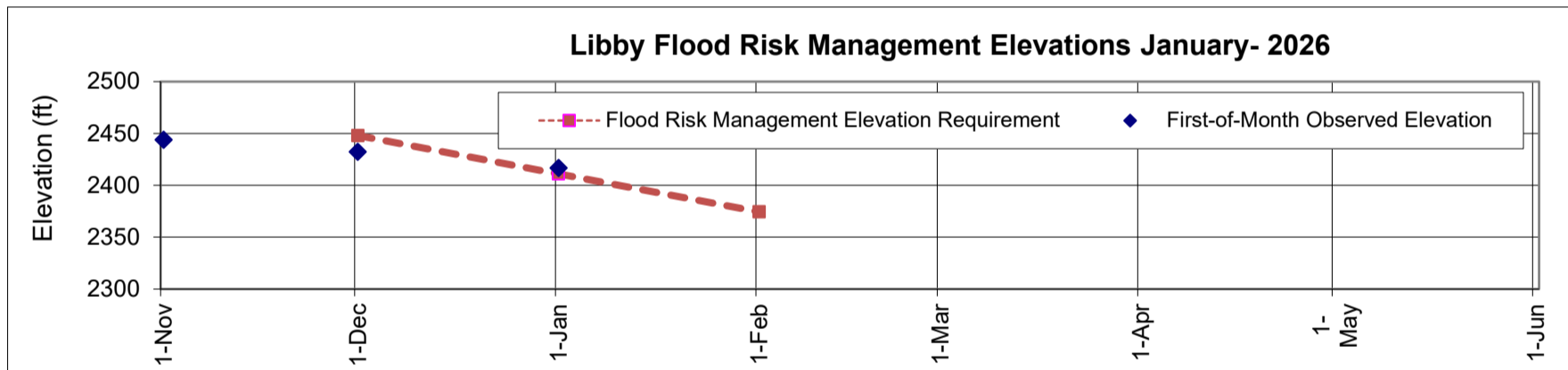
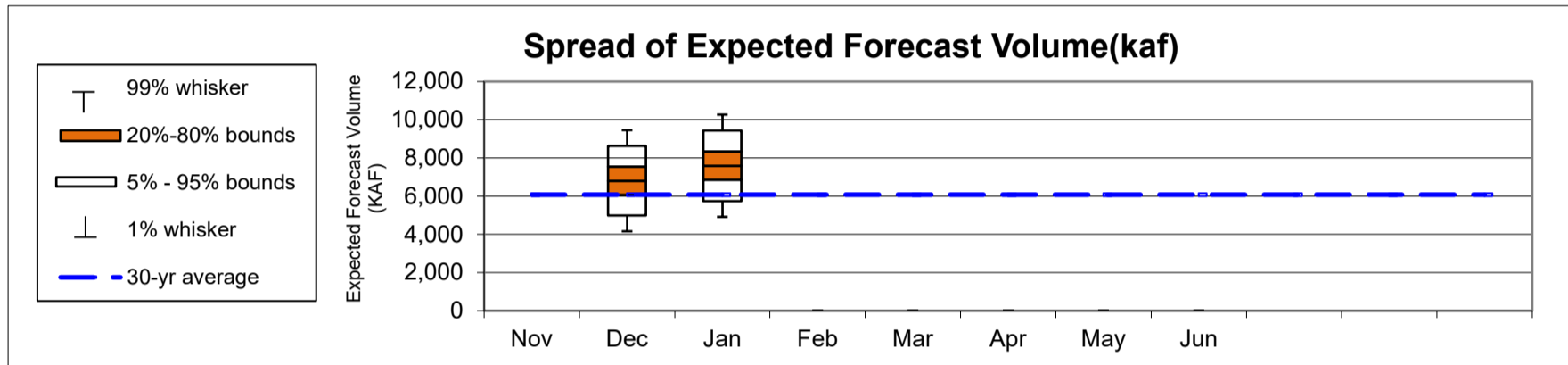
WY 2026

Runoff Forecast	January	1991-2020 Average	1991 - 2020 Percent of Average	1929-2020 Average	1929 - 2020 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	7595	6080	125%	6259	121%
Most Probable Runoff Volume: Apr-Jul (kaf)	6958	5570	125%	5708	122%
Most Probable Runoff Volume: May-Jul (kaf)	6263	5014	125%	5183	121%

Flood Risk Management	January
31-Jan Flood Risk Management Space (kaf)	3138
31-Jan Flood Risk Management Elevation (ft)	2374.4

Forecast/Reservoir Data	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast (kaf)		6811	7595					
First-of-Month Elev (ft)	2444.1	2432.3	2416.7					

Seasonal FRM Requirements	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr		
Flood Risk Management Space (kaf)	500	2000	3138					
Flood Risk Management Elevation (ft)	2448.0	2411.0	2374.4					



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, Jason Chang (206) 764-3528, Lumas Helaire (206) 316-3875, Ethan Cheng (206) 572-2798, Piper Klinger (206) 764-6843, or David Doll (206) 316-3003.
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. This forecast serves as an update to the forecast previously issued on January 7th. Please disregard any previous versions of this forecast.

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Apr-Aug Runoff Forecast Calculation:

<i>Variable</i>	<i>Month(s)</i>	<i>Units</i>	<i>Observed Value A</i>	<i>Percent of Average (1991-2020)</i>	<i>Regression Coefficient B</i>	<i>Marginal Runoff (KAF) =A*B</i>
SOI	∑Jun:Jul		0.90		95.28	85.8
Eureka RS, MT	∑Oct:Dec Prcp	inches	5.77	156%	141.74	817.8
West Glacier, MT	∑Oct:Dec Prcp	inches	14.30	151%	58.42	835.4
Cranbrook A, BC	∑Oct:Dec Prcp	millimeters	112.70	116%	4.58	516.2
Fernie, BC	∑Oct:Dec Prcp	millimeters	524.42	138%	1.20	629.3
Hawkins Lake, MT	1-Jan SWE	inches				
Stahl Peak, MT	1-Jan SWE	inches	20.90	124%	34.63	723.8
East Creek, BC	1-Jan SWE	millimeters				
Moyie Mountain, BC	1-Jan SWE	millimeters	207.50	115%	1.59	328.9
Sunshine Village, AB	1-Jan SWE	millimeters	436.00	161%	2.14	933.0
Akamina Pass, AB	1-Jan SWE	millimeters				
South Racehorse Creek, AB	1-Jan SWE	millimeters				
Intercept			1		2724.44	2724.4
January Forecast	April - August	kaf				7594.6

Data used in Libby Water Supply Forecast

<i>Climate Data</i>	<i>Jun-25</i>	<i>Jul-25</i>
SOI	0.30	0.60

<i>Precipitation Data</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>
Eureka RS, MT (inch)	1.18	2.08	2.51					
West Glacier, MT (inch)	3.50	5.68	5.12					
Cranbrook A, BC (mm)	19.40	36.20	57.10					
Fernie, BC (mm)	113.03	221.74	189.65					

<i>Snow Water Equiv</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Hawkins Lake, MT (inch)								
Stahl Peak, MT (inch)			21					
East Creek, BC (mm)								
Moyie Mountain, BC (mm)			208					
Sunshine Village, AB (mm)			436					
Akamina Pass, AB (mm)								
South Racehorse Creek, AB (mm)								

<i>Streamflow</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Libby Inflow Volume (kaf)								

<i>Reservoir Elevation</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Libby FOM Elev (feet)	2444.1	2432.3	2416.7					

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