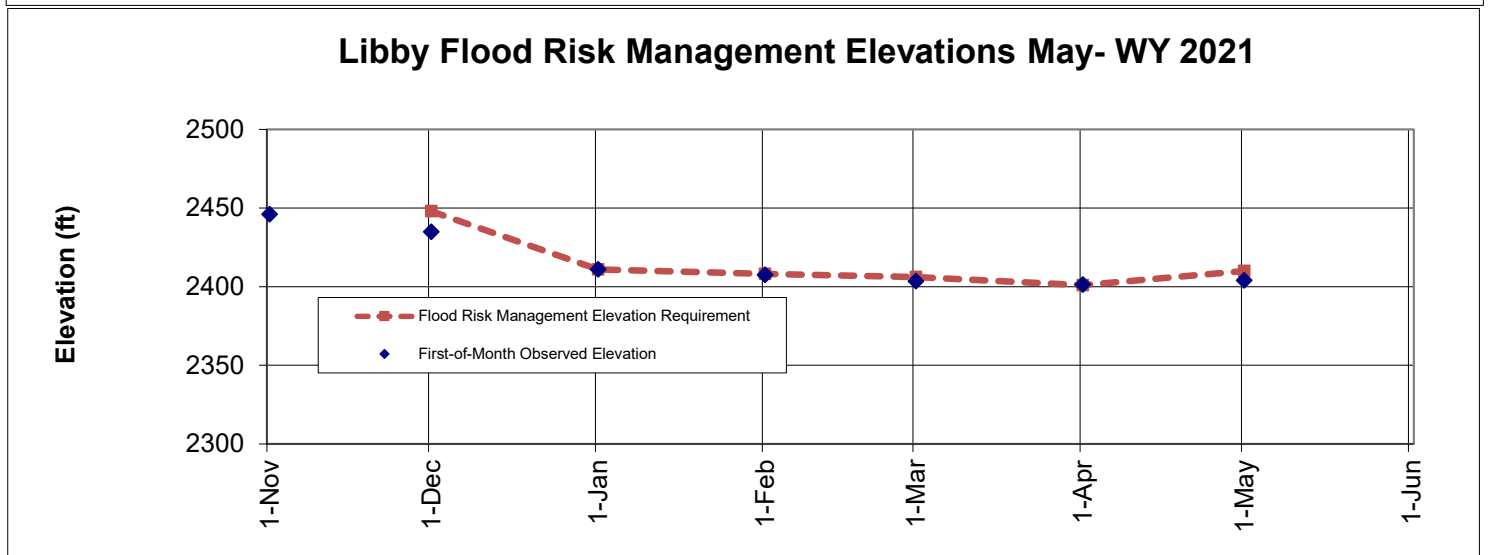
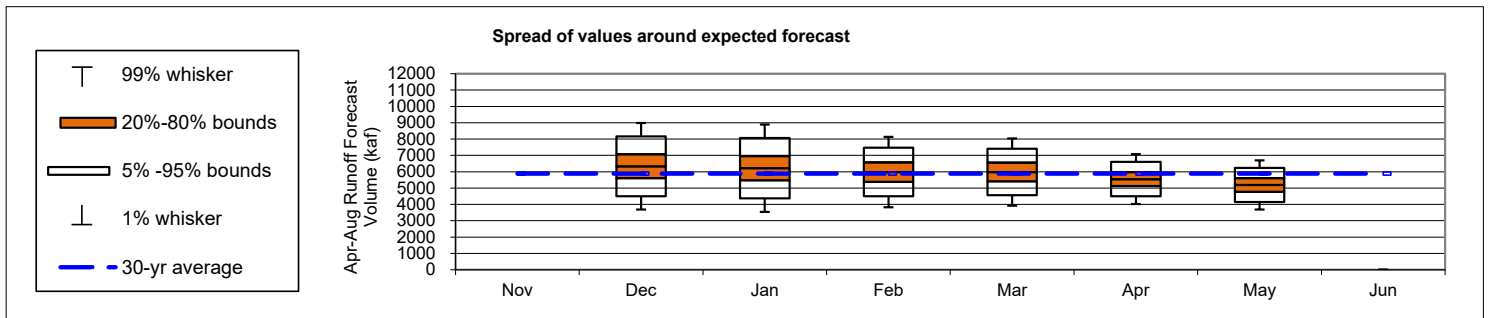


Runoff Forecast	May	1981-2010 Average	1981 - 2010 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Aug (kaf)	5191	5885	88%	6282	83%
Most Probable Runoff Volume: Apr-Jul (kaf)	4700	5342	88%	5720	82%
Most Probable Runoff Volume: May-Jul (kaf)	4365	4821	91%	5199	84%

Forecast/Reservoir Data	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast (kaf)		6336	6215	5979	5980	5549	5191	
First-of-Month Elev (ft)	2446.1	2434.8	2410.9	2407.6	2403.4	2401.2	2403.9	

Seasonal FRM Requirements	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr
Flood Risk Management Space (kaf)	500	2000	2105	2173	2349	2039
Flood Risk Management Elevation (ft)	2448.0	2411.0	2408.1	2406.2	2401.0	2409.9



Notes:

1. The given forecast is the official Corps of Engineers forecast for Libby. If you have any questions please contact David Bogema (615) 736-5631, Justin Lawrence (206) 764-3699, Logan Osgood-Zimmerman (206) 764-6928, or Kevin Shaffer (206) 764-3660.
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. Cranbrook A gage data was intermittent during the month of April. Nearby Cranbrook Airport Auto gage data was used instead.

Libby: May Runoff Forecast & Flood Risk Management Calculation

Apr-Aug Runoff Forecast Calculation:

Variable	Month(s)	Units	Observed Value A	Percent of Average	Regression Coefficient	Marginal Runoff (KAF) =A*B
SOI	ΣJun:Jul					
Eureka RS, MT	ΣOct:Apr Prcp	inches	5.30	78%	57.5	304.49
West Glacier, MT	ΣOct:Apr Prcp	inches	18.47	100%	28.0	517.90
Cranbrook A, BC	ΣOct:Apr Prcp	millimeters	131.40	71%	2.8	367.92
Fernie, BC	ΣOct:Apr Prcp	millimeters	674.06	89%	0.6	411.18
Hawkins Lake, MT	1-May SWE	inches	20.60	78%	17.3	356.38
Stahl Peak, MT	1-May SWE	inches	27.60	74%	16.7	462.02
East Creek, BC	1-May SWE	millimeters	1029.00	112%	0.6	586.53
Moyie Mountain, BC	1-May SWE	millimeters	220.00	61%	0.9	200.20
Sunshine Village, AB	1-May SWE	millimeters	625.60	102%	1.3	788.26
Akamina Pass, AB	1-May SWE	millimeters	263.29	78%	0.6	144.81
South Racehorse Creek, AB	1-May SWE	millimeters	371.80	102%	0.8	308.59
Intercept			1		408.0	408.0
Forecast Inflow	May-August	kaf				4856.27
Observed Inflow	April	kaf				334.99
1-May Forecast Inflow	April-August	kaf				5191.26

Data used in Libby Water Supply Forecast

WY 2021

Climate Data	Jun-20	Jul-20
SOI	-0.40	0.40

Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Eureka RS, MT (inch)	1.77	0.92	0.98	0.37	0.29	0.17	0.80	
West Glacier, MT (inch)	4.52	4.32	2.34	2.92	2.36	0.72	1.29	
Cranbrook A, BC (mm)	27.60	21.90	26.30	34.20	3.40	0.90	17.10	
Fernie, BC (mm)	118.80	158.00	106.68	109.73	55.63	73.15	52.07	
Snow Water Equiv	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Hawkins Lake, MT (inch)				16	19	21	21	
Stahl Peak, MT (inch)			16	21	24	28	28	
East Creek, BC (mm)				715	848	991	1029	
Moyie Mountain, BC (mm)			166	235	323	354	220	
Sunshine Village, AB (mm)			322	422	522	609	626	
Akamina Pass, AB (mm)				316	384	428	263	
South Racehorse Creek, AB (mm)				263	345	398	372	
Streamflow	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Libby Inflow Volume (Kaf)			182.3	128.4	169.4	335.0		
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Libby FOM Elev. (feet)	2446.1	2434.8	2410.9	2407.6	2403.4	2401.2	2403.9	

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