

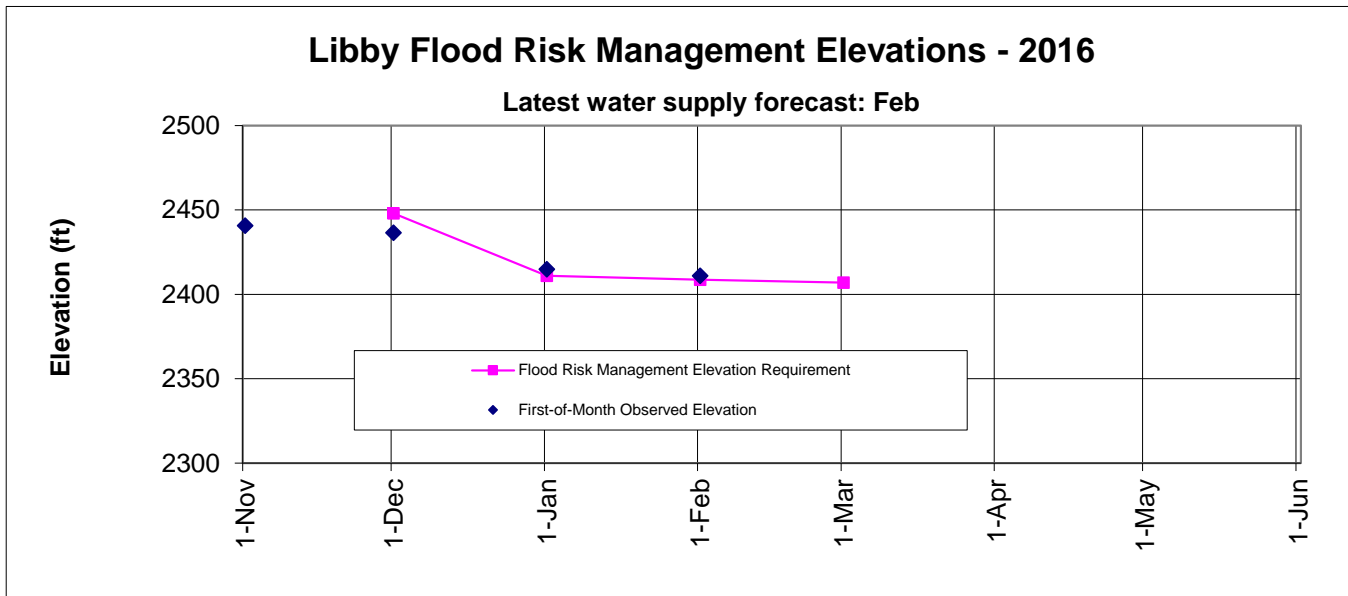
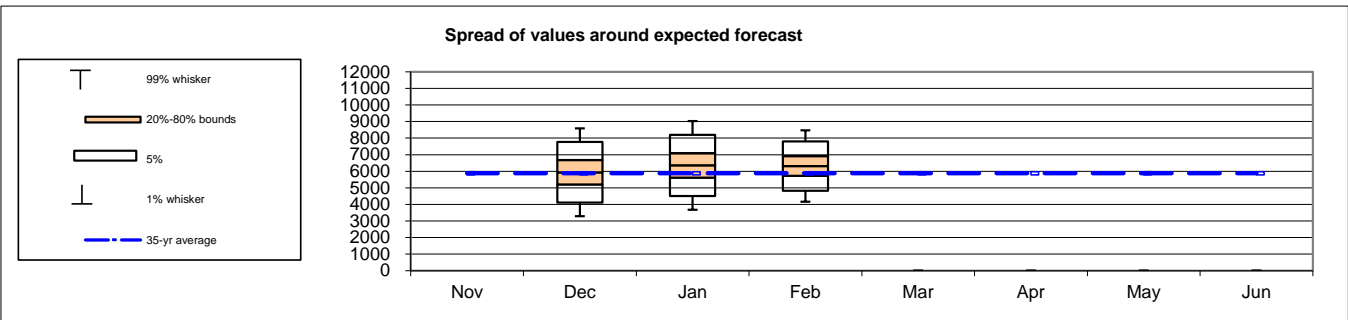
Runoff Forecast and Flood Risk Management

Most Probable Runoff Volume:	Apr-Aug	6318	KAF
	Apr-Jul	5735	KAF
	May-Jul	5175	KAF
29 Feb Flood Risk Management Space		2145	KAF
29 Feb Flood Risk Management Elevation		2407.0	ft

1981-2010 Average	Percent of Average	1929-2008 Average	Percent of Average
5885	107%	6282	101%
5342	107%	5720	101%
4821	107%	5199	101%

Seasonal Flood Risk Management		VARQ Flood Risk Management Implemented						
Forecast Date >>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast		5940	6354	6318				
First-of-Month Elev	2440.7	2436.5	2415.0	2411.0				

Date >>	30-Nov	31-Dec	31-Jan	29-Feb	15-Mar	31-Mar	15-Apr	30-Apr
Flood Risk Management Space	500	2000	2083	2145				
Flood Risk Management Elevation	2448.0	2411.0	2408.7	2407.0				



- Notes:
1. The given forecast is the official Corps of Engineers forecast for Libby. If you have any questions please contact Joel Fenolio (206) 764-6683, Kristy Riley (206) 316-3947, Kevin Shaffer (206) 764-3660, Adam Price (206) 764-3604, or Kristian Mickelson (206) 764-6927.
 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 : February Runoff Forecast & Flood Risk Management Calculation

Apr-Aug Runoff Forecast Calculation:						
Variable	Month(s)	Units	Observed Value	Percent of Average	Regression Coefficient	Marginal Runoff (KAF)
			A		B	=A*B
SOI	∑Jun:Jul					
Eureka RS, MT	∑Oct:Jan Prcp	inches	7.12	165%	78.5	558.7
West Glacier, MT	∑Oct:Jan Prcp	inches	12.07	98%	31.0	373.6
Cranbrook A, BC	∑Oct:Jan Prcp	inches	154.70	134%	2.8	439.3
Fernie, BC	∑Oct:Jan Prcp	inches	578.40	117%	0.7	416.4
Hawkins Lake, MT	1-Feb SWE	inches	17.00	103%	30.6	520.2
Stahl Creek, MT	1-Feb SWE	inches	24.00	102%	23.0	551.8
East Creek, BC	1-Feb SWE	inches	691.00	113%	0.8	518.3
Moyie Mountain, BC	1-Feb SWE	inches	286.00	99%	1.5	423.3
Sunshine Village, AB	1-Feb SWE	inches	291.00	75%	1.5	427.8
Akamina Pass, AB	1-Feb SWE	inches	283.00	89%	1.3	359.4
South Racehorse Creek, AB	1-Feb SWE	inches	286.00	102%	1.5	437.6
Intercept			1		1291.5	1291.5
1-Feb Forecast (KAF)					∑	6317.8

Data used in Libby Water Supply Forecast

WY Jul-05

Climate Data	Jan-15	Feb-15	Mar-15	Jun-15	Jul-15	Oct-15	Nov-15	Dec-15	Jan-16
SOI				-0.60	-1.10				
Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Units
Eureka RS, MT	1.37	1.73	2.69	1.33					inch
West Glacier, MT	1.93	2.45	4.62	3.07					inch
Cranbrook A, BC	16.60	49.30	50.80	38.00					mm
Fernie, BC	104.00	198.40	172.00	104.00					mm
Snow Water Equiv	1-Jan			1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units
Hawkins Lake, MT				17					inch
Stahl Creek, MT			15	24					inch
East Creek, BC				691					mm
Moyie Mountain, BC			185	286					mm
Sunshine Village, AB			252	291					mm
Akamina Pass, AB				283					mm
South Racehorse Creek, AB				286					mm
Streamflow	Jan			Feb	Mar	Apr	May	Jun	Units
Libby Inflow Volume			189.4			801.2	1924.2		KAF
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units
Libby FOM Elev	2440.7	2436.5	2415.0	2411.0					feet

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