

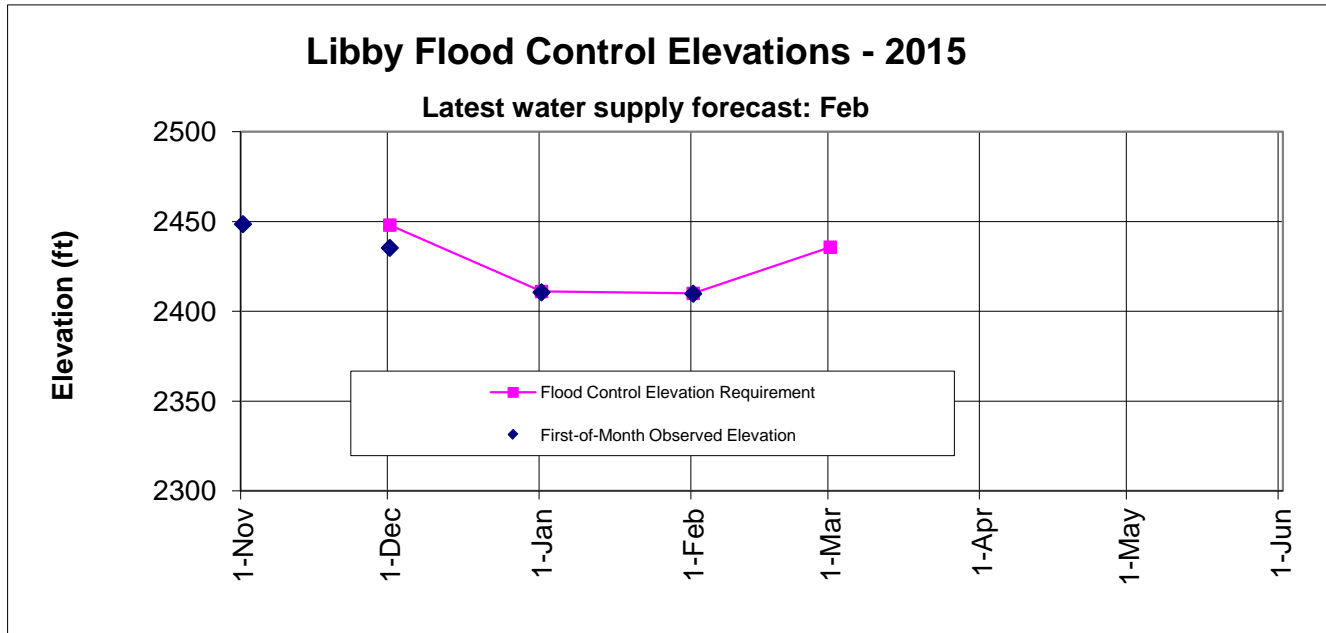
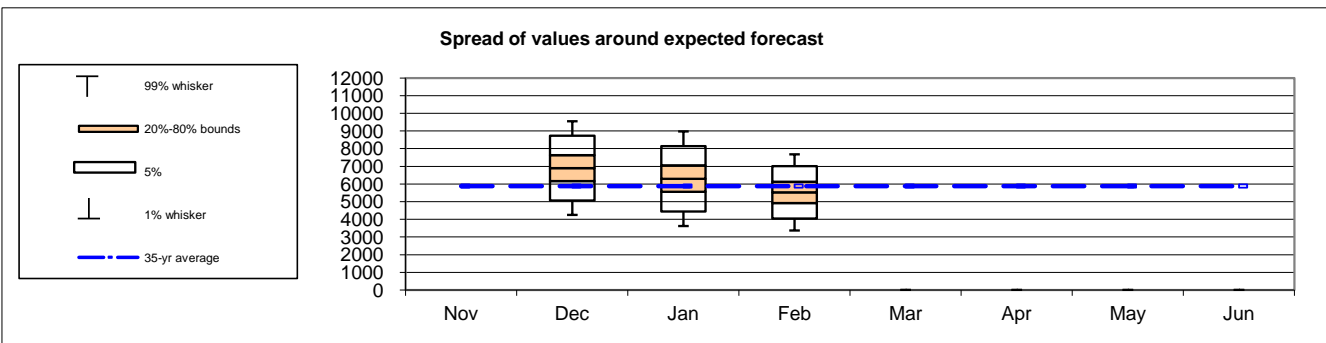
Libby : February Runoff Forecast & Flood Control Calculation

WY 2015

Runoff Forecast and Flood Control			
Most Probable Runoff Volume:	Apr-Aug	5523	KAF
	Apr-Jul	5014	KAF
	May-Jul	4524	KAF
28 Feb Flood Control Space		1032	KAF
28 Feb Flood Control Elevation		2435.7	ft

1981-2010 Average	Percent of Average	1929-2008 Average	Percent of Average
5885	94%	6282	88%
5342	94%	5720	88%
4821	94%	5199	88%

Seasonal Flood Control		VARQ Flood Control Implemented						
Forecast Date >>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast		6899	6297	5523				
First-of-Month Elev	2448.5	2435.3	2410.6	2409.8				
Date >>	30-Nov	31-Dec	31-Jan	28-Feb	15-Mar	31-Mar	15-Apr	30-Apr
Flood Control Space	500	2000	2037	1032				
Flood Control Elevation	2448.0	2411.0	2410.0	2435.7				



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, 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.

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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	5.40	125%	78.5	423.7
West Glacier, MT	∑Oct:Jan Prcp	inches	15.56	127%	31.0	481.6
Cranbrook A, BC	∑Oct:Jan Prcp	inches	131.40	113%	2.8	373.2
Fernie, BC	∑Oct:Jan Prcp	inches	587.90	119%	0.7	423.3
Hawkins Lake, MT	1-Feb SWE	inches	11.80	72%	30.6	361.1
Stahl Peak, MT	1-Feb SWE	inches	19.10	81%	23.0	439.1
East Creek, BC	1-Feb SWE	inches	537.00	88%	0.8	402.8
Moyie Mountain, BC	1-Feb SWE	inches	193.00	67%	1.5	285.6
Sunshine Village, AB	1-Feb SWE	inches	266.00	69%	1.5	391.0
Akamina Pass, AB	1-Feb SWE	inches	230.00	72%	1.3	292.1
South Racehorse Creek, AB	1-Feb SWE	inches	234.00	83%	1.5	358.0
Intercept			1		1291.5	1291.5
1-Feb Forecast (KAF)					∑	5523.0

Data used in Libby Water Supply Forecast

WY 2015

Climate Data	Jan-14	Feb-14	Mar-14	Jun-14	Jul-14	Oct-14	Nov-14	Dec-14	Jan-15
SOI				0.20	-0.20				
Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Units
Eureka RS, MT	0.55	2.42	1.22	1.21					inch
West Glacier, MT	2.64	5.77	4.07	3.08					inch
Cranbrook A, BC	29.40	53.60	25.50	22.90					mm
Fernie, BC	126.90	273.00	95.00	93.00					mm
Snow Water Equiv	1-Jan			1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units
Hawkins Lake, MT				12					inch
Stahl Peak, MT			15	19					inch
East Creek, BC				537					mm
Moyie Mountain, BC			131	193					mm
Sunshine Village, AB			200	266					mm
Akamina Pass, AB				230					mm
South Racehorse Creek, AB				234					mm
Streamflow	Jan			Feb	Mar	Apr	May	Jun	Units
Libby Inflow Volume			218.8						KAF
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units
Libby FOM Elev	2448.5	2435.3	2410.6	2409.8					feet

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