

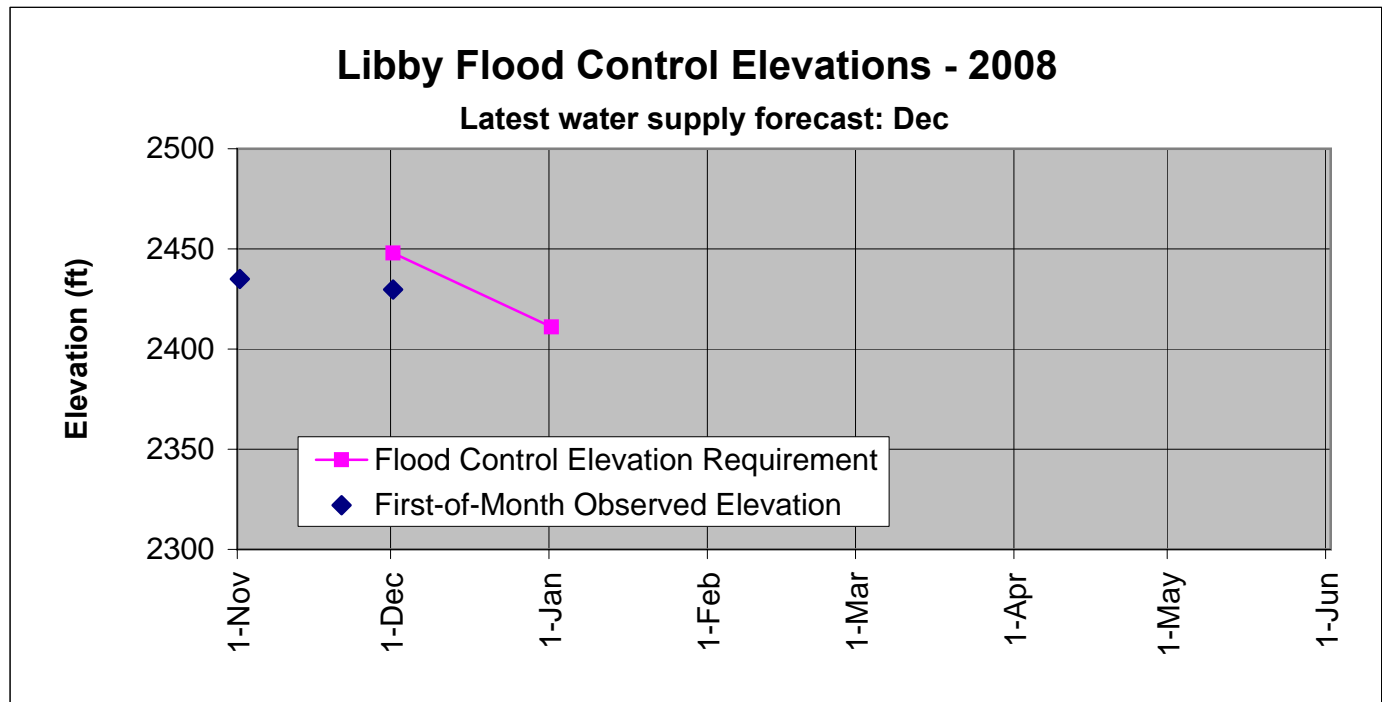
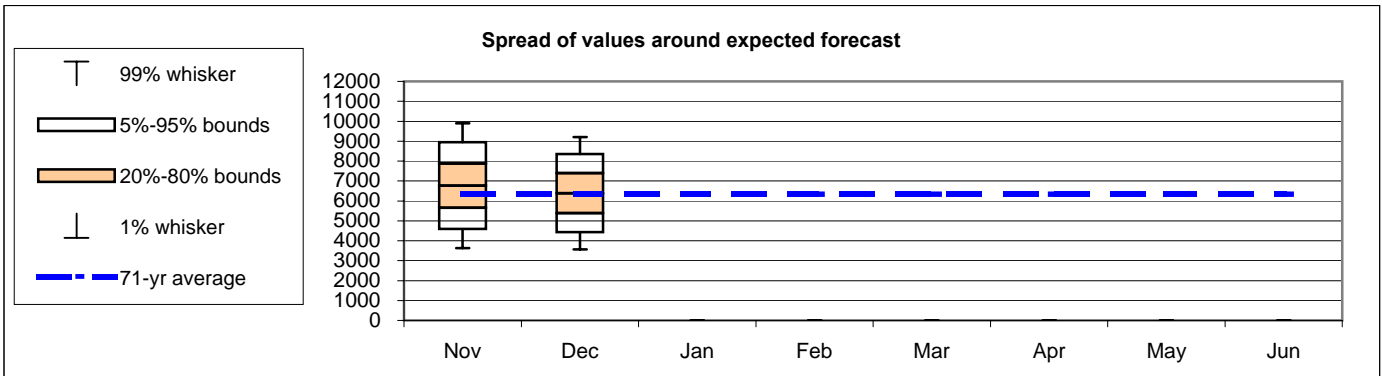
Libby : December Runoff Forecast & Flood Control Calculation

WY 2008

Runoff Forecast and Flood Control			
Most Probable Runoff Volume:	Apr-Aug	6385	KAF
	Apr-Jul	5814	KAF
	May-Jul	5286	KAF
31-Dec Flood Control Space		2000	KAF
31-Dec Flood Control Elevation		2411.0	ft

1929-1999 Average	Percent of Average
6337	101%
5771	101%
5247	101%

Seasonal Flood Control									Variable End-of-Dec Flood Control Implemented									
Forecast Date >>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun										
Apr-Aug Runoff Forecast	6764	6385																
First-of-Month Elev	2435.0	2429.7	2411.0	2408.2														
Date >>	30-Nov	31-Dec	31-Jan	28-Feb	15-Mar	31-Mar	15-Apr	30-Apr										
Flood Control Space	500	2000																
Flood Control Elevation	2448.0	2411.0																



Notes:
 1. The given forecast is the official Corps of Engineers forecast for Libby. If you have any questions please contact Ken Soderlind (503 808-3950), Patti Low (503 808-3958), or John McCoskery (503 808-3951).
 2. Subsequent forecasts may differ from the originally published forecast due to updated values for precipitation, snow 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:Sep		0.00		24.5	0.0
Fernie, BC	∑Oct,Nov Precip	inches	8.76	89%	33.6	294.3
Glacier NP RP, BC	∑Oct,Nov Precip	inches	14.94	113%	31.0	463.0
Kaslo, BC	∑Oct,Nov Precip	inches	6.68	101%	68.4	456.4
Fortine 1N, MT	∑Oct,Nov Precip	inches	1.64	64%	139.0	227.9
West Glacier, MT	∑Oct,Nov Precip	inches	4.96	93%	71.9	356.6
Libby 1 NE RS, MT	∑Oct,Nov Precip	inches	3.96	102%	102.0	403.7
Intercept			1		4182.7	4182.7
1-Dec Forecast (KAF)					∑	6384.7

Data used in Libby Water Supply Forecast

WY 2008

Climate Data	June	July	Aug	Sep					Units	
SOI	0.20	-0.50	0.10	0.20						
Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Units	
Cranbrook A, BC			57.90	25.80					mm	
Fernie, BC	137.20	85.40	172.00	129.60					mm	
Glacier NP Rogrs Pass, BC	168.60	211.00	256.50						mm	
Kaslo, BC	81.80	87.80	134.60						mm	
Banff, AB			36.60	19.80					mm	
Fortine 1N, MT	0.62	1.02	0.86						inch	
West Glacier, MT	2.96	2.00	3.92						inch	
Libby 1 NE RS, MT	2.05	1.91	3.03	2.68					inch	
Snow Water Equiv				1-Jan	1-Feb	1-Mar	1-Apr	1-May	15-May	Units
Vermillion Rvr No. 3, BC				136	187					mm
East Creek, BC				562	705					mm
Morrissey Ridge, BC										mm
Moyie Mountain, BC										mm
Sullivan Mine, BC										mm
Hawkins Lake, MT					18.7					inch
Stahl Peak, MT					27.1					inch
Streamflow				Jan	Feb	Mar	Apr	May	Jun	Units
Libby Inflow Volume				159.7						KAF
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units	
Libby FOM Elev	2435.0	2429.7	2411.0	2408.2					feet	