

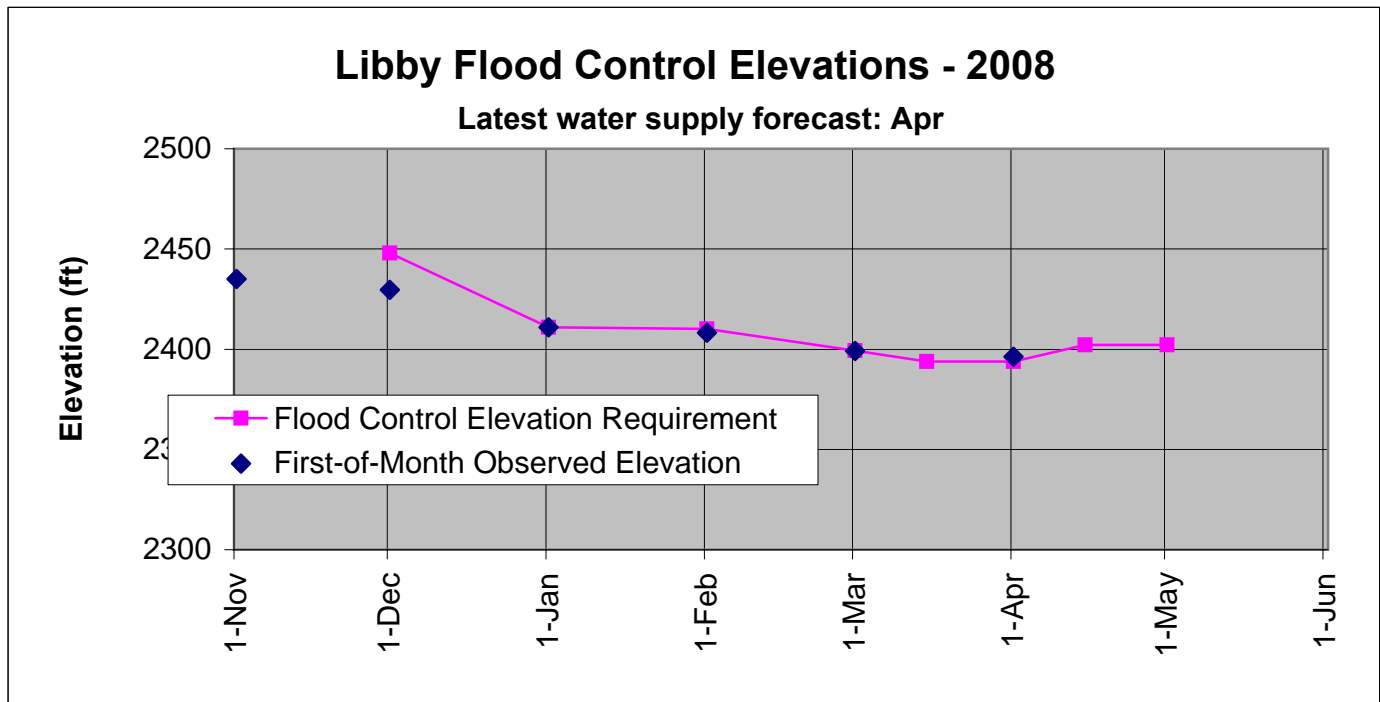
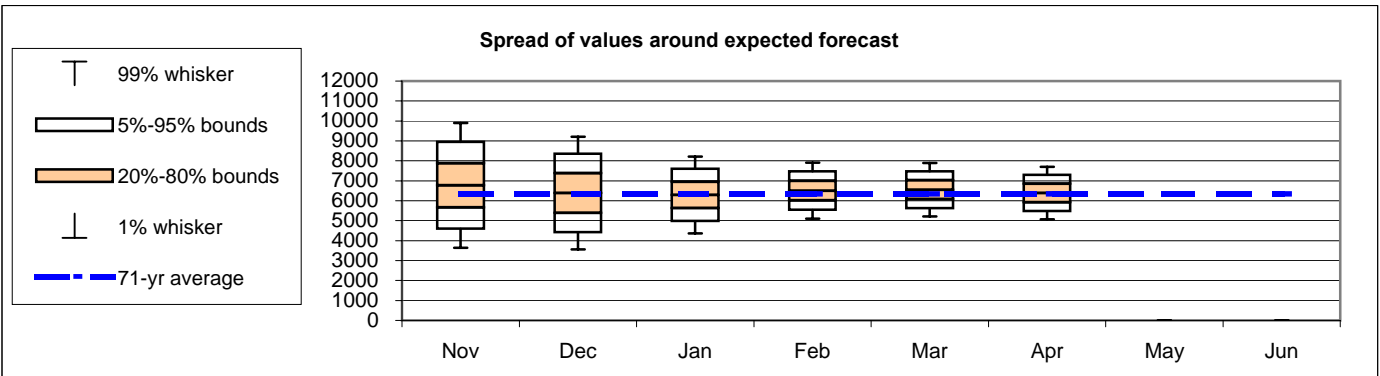
Libby : April Runoff Forecast & Flood Control Calculation

WY 2008

Runoff Forecast and Flood Control			
Most Probable Runoff Volume:	Apr-Aug	6387	KAF
	Apr-Jul	5816	KAF
	May-Jul	5288	KAF
30-Apr Flood Control Space		2308	KAF
30-Apr Flood Control Elevation		2402.2	ft

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

Seasonal Flood Control		VARQ Flood Control Implemented						
Forecast Date >>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast	6764	6385	6288	6503	6550	6387		
First-of-Month Elev	2435.0	2429.7	2411.0	2408.2	2399.2	2396.2		
Date >>	30-Nov	31-Dec	31-Jan	28-Feb	15-Mar	31-Mar	15-Apr	30-Apr
Flood Control Space	500	2000	2031	2404	2576	2576	2308	2308
Flood Control Elevation	2448.0	2411.0	2410.2	2399.3	2393.9	2393.9	2402.2	2402.2



- 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.
 3. Vermillion River snow measurements, with adjustments, are serving as a surrogate for Marble Canyon.

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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
Glacier NP RP, BC	ΣOct,Nov,Dec Prcp	inches	25.04	115%	19.4	485.0
Kaslo, BC	ΣOct,Nov,Dec Prcp	inches	11.98	106%	43.1	516.2
Fortine 1N, MT	ΣOct,Nov,Dec Prcp	inches	2.50	63%	104.8	262.1
West Glacier, MT	ΣOct,Nov,Dec Prcp	inches	8.88	103%	46.1	409.1
Banff, AB	ΣDec-to-Mar Prcp	inches	3.07	72%	69.1	212.3
Fernie, BC	ΣDec-to-Mar Prcp	inches	17.64	91%	30.6	539.2
Cranbrook, BC	ΣDec-to-Mar Prcp	inches	4.50	83%	56.6	254.7
Libby 1 NE RS, MT	ΣDec-to-Mar Prcp	inches	8.32	114%	65.0	540.6
Vermillion R #3, BC	1-Apr SWE ³	inches	11.26	98%	----	
Marble Canyon, BC	1-Apr SWE ³	inches	14.29		47.0	671.9
East Creek, BC	1-Apr SWE	inches	36.02	99%	17.8	642.7
Hawkins Lake, MT	1-Apr SWE	inches	29.10	111%	19.9	579.9
Stahl Peak, MT	1-Apr SWE	inches	39.20	112%	19.8	775.5
Intercept			1		497.9	497.9
1-Apr Forecast (KAF)					Σ	6387.1

Data used in Libby Water Supply Forecast

WY 2008

Climate Data	June	July	Aug	Sep					
SOI	0.20	-0.50	0.10	0.20					
Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Units
Cranbrook A, BC			59.40	26.40	14.60	13.80			mm
Fernie, BC	137.20	85.40	172.00	129.60	86.90	59.50			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	13.50	8.20			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	0.92	1.69			inch
Snow Water Equiv			1-Jan	1-Feb	1-Mar	1-Apr	1-May	15-May	Units
Vermillion Rvr No. 3, BC			136	187	280	286			mm
East Creek, BC			562	705	919	915			mm
Morrissey Ridge, BC									mm
Moyie Mountain, BC									mm
Sullivan Mine, BC									mm
Hawkins Lake, MT				18.7	24.1	29.1			inch
Stahl Peak, MT				27.1	33.8	39.2			inch
Streamflow			Jan	Feb	Mar	Apr	May	Jun	Units
Libby Inflow Volume			159.7	148.0	158.9				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	2399.2	2396.2			feet