

LIBBY PROJECT INFLOW FORECAST, KAF

2006

FORECAST DATE	1 Nov	1 Dec	1 Jan
FORECAST SUMMARY			
Draft requirements based on Libby VARQ storage reservation diagram.			
Apr-Aug runoff, Libby inflow, KAF	6976	6581	5487
Apr-Aug normal, 6248 KAF, 1971-2000	111.7%	105.3%	87.8%
Apr-Jul runoff, KAF	6300	5942	4955
May-Jul runoff, KAF	5718	5394	4497
Jan-Jul runoff, KAF	7041	6642	5538
Date-Jul runoff, KAF	7041	6642	5538
Forecast standard error, KAF	1303	1177	776
95% Confidence Error -	2189	1977	1304
Single Tailed Probability @ 1.68			
95% Non-exceedance Limit, KAF	9165	8558	6791
5% Non-exceedance Limit, KAF	4787	4603	4183

VARQ FLOOD CONTROL, DRAFT BY:	30 Nov	31 Dec	31 Jan	28 Feb	15 Mar	31 Mar
required draft, KAF	500	2000	1400	1000	800	796
required elevation, ft	2448.0	2411.0	2426.7	2436.4	2441.1	2441.2

Variable	Observed Value	Percent Average	Regression Coefficient	Marginal RO (KAF)	Percent Average
Dec Precip at Cranbrook, BC	0.91	56%	112.5	102	
Dec Precip at Banff, AB	0.43	35%	93.2	40	
Oct-Dec Precip at Fernie, BC	15.35	97%	21.8	335	
Oct-Dec Precip at Libby 1N Ranger Stn., MT	5.46	88%	70.1	383	
Oct-Dec Precip at Fortine 1N, MT	4.14	115%	109.4	453	
Oct-Dec Precip at GNP Rogers Pass, BC	14.28	66%	22.0	314	
Oct-Dec Precip at Kaslo, BC	8.48	71%	44.2	375	
Oct-Dec Precip at West Glacier, MT	11.00	126%	47.3	520	
1-Jan SWE East Creek Snow Pillow, BC	17.87	102%	23.8	425	
1-Jan SWE at Vermillion R #3 Snow Course, BC	2.44	36%	57.7	141	
Intercept	1.00		2399.0	2399	
LIBBY APR-AUG RUNOFF FORECAST, KAF				5487	87.8%
95% Non-exceedance Limit, KAF				6791	108.7%
5% Non-exceedance Limit, KAF				4183	67.0%

REGRESSION MODEL FORECAST STATISTICS					
1971-2000 Normal Runoff, APR-AUG, KAF				6248	100.0%
Forecast Standard Error, APR-AUG, KAF			776		
95% Confidence Factor -			1304		
1.68 - Single Tailed Probability					

LONG TERM HISTORIC STATISTICS					
1929-2002 Normal Runoff, APR-AUG, KAF				6313	
1929-2002 Standard Deviation, APR-AUG, KAF			1492		
Historic 74-year 95% non-exceedance limit				8820	139.7%
Historic 74-year 5% non-exceedance limit				3806	60.3%

The given forecast values are to be considered the Corps of Engineers Official Forecast for Libby. Questions? Ken Soderlind, 503-808-3950; Patti Etzel, 503-808-3958; John McCoskery, 503-808-3951
Note:

1/ Forecasts for months other than the current month may be different than the official forecast released earlier. Differences are due to updated streamflow, precip, or snow data.