

LIBBY PROJECT INFLOW FORECAST, KAF

2004

FORECAST DATE	1 Nov	1 Dec
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FORECAST SUMMARY		
Draft rqmnts based on Libby VARQ storage reserv diagram.		
Apr-Aug runoff, Libby inflow, KAF	6865	6954
Apr-Aug norm, 6248, 1971-2000	109.9%	111.3%
Apr-Jul runoff, KAF	6199	6280
May-Jul runoff, KAF	5627	5700
Jan-Jul runoff, KAF	7549	7299
Date-Jul runoff, KAF	7549	7299
Forecast standard error, KAF	1352	1175
95% Confidence Factor -	2257.84	1962.25
Single Tailed Probability		
95% Non-exceedance Limit, KAF	9123	8917
5% Non-exceedance Limit, KAF	4607	4992
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FLOOD CONTROL, DRAFT BY:	30 Nov	31 Dec
required draft, KAF	500	2000
required elevation, ft	2448.0	2411.0
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FORECAST	Observe	Percent	Regression	Margina	Percent
Variable	d Value	Average	Coefficient	l RO	Average
Sum of Jun, Jul, Aug, Sep SOI	-1.30		26.1	-34	
Oct-Nov Precip at Banff, AB	3.99	167%	105.6	422	
Oct-Nov Precip at Bonners Ferry, ID	5.15	102%	70.2	362	
Oct-Nov Precip at Castlegar, BC	5.60	101%	76.6	429	
Oct-Nov Precip at Fortine 1N, MT	1.90	75%	140.4	267	
Oct-Nov Precip at GNP Rogers Pass, BC	18.78	144%	29.5	554	
Oct-Nov Precip at Kaslo, BC	8.37	127%	69.4	581	
Oct-Nov Precip at West Glacier, MT	6.82	127%	69.7	476	
Intercept	1.00		3899.3	3899	
LIBBY APR-AUG RUNOFF FORECAST, KAF				6954	111.3%
95% Non-exceedance Limit, KAF				8917	142.7%
5% Non-exceedance Limit, KAF				4992	79.9%
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REGRESSION MODEL FORECAST STATISTICS		
1971-2000 Average Runoff, KAF		6248 100.0%
Forecast Standard Error, KAF	1175	
95% Confidence Factor -	1962	
1.67-constant Single Tailed Probability		
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LONG TERM HISTORIC STATISTICS		
1929-2002 Average Runoff, KAF		6313
1929-2002 Standard Deviation, KAF	1492	
Historic 74-year 95% non-exceedance limit		8805 140.9%
Historic 74-year 5% non-exceedance limit		3821 61.2%

Questions? Ken Soderlind, 503-808-3950; Chan Modini, 503-808-3958; Arun Mylvahanan, 503-808-3961

Footnote:

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.

2/ Based on this December 2003 forecast, no relaxation is allowed for the December target elevation.