

## 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	6977		
Apr-Aug normal, 6248 KAF, 1971-2000	111.7%		
Apr-Jul runoff, KAF	6300		
May-Jul runoff, KAF	5718		
Jan-Jul runoff, KAF	7042		
Date-Jul runoff, KAF	7042		
Forecast standard error, KAF	1352		
95% Confidence Error -	2271		
Single Tailed Probability @ 1.68			
95% Non-exceedance Limit, KAF	9248		
5% Non-exceedance Limit, KAF	4706		

FLOOD CONTROL, DRAFT BY:	30 Nov	31 Dec
required draft, KAF	500	2000
required elevation, ft 2/	2448.0	2411.0

FORECAST	Observed Value	Percent Average	Regression Coefficient	Marginal RO (KAF)	Percent Average
Sum of Jun, Jul, Aug, Sep SOI	-0.30		137.2	-41	
Oct Precip at Fernie, BC	7.48	176%	36.3	272	
Oct Precip at Libby 1N Ranger Stn., MT	2.44	153%	53.9	132	
Oct Precip at Fortine 1N, MT	1.99	173%	41.8	83	
Oct Precip at GNP Rogers Pass, BC	6.32	118%	31.2	197	
Oct Precip at Kaslo, BC	2.87	107%	105.2	302	
Oct Precip at West Glacier, MT	4.62	201%	88.8	410	
Intercept	1.00		5622.0	5622	
LIBBY APR-AUG RUNOFF FORECAST, KAF				6977	111.7%
95% Non-exceedance Limit, KAF				9166	146.7%
5% Non-exceedance Limit, KAF				4788	76.6%

REGRESSION MODEL FORECAST STATISTICS		
1971-2000 Normal Runoff, APR-AUG, KAF		6248 100.0%
Forecast Standard Error, APR-AUG, KAF	1303	
95% Confidence Factor -	2189	
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.

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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 November forecast, no relaxation allowed for December target elevation.