

LIBBY PROJECT INFLOW FORECAST, KAF 2005

FORECAST DATE	1 Nov
FORECAST SUMMARY	
Draft requirements based on Libby VARQ storage reservation diagram.	
Apr-Aug runoff, Libby inflow, KAF	6174
Apr-Aug norm, 6248, 1971-2000	98.8%
Apr-Aug median, 6311, 1928-1999	97.8%
Apr-Jul runoff, KAF	5575
May-Jul runoff, KAF	5060
Jan-Jul runoff, KAF	6788
Forecast standard error, KAF	1352
95% Confidence Error -	2258
Single Tailed Probability @ 1.67	
95% Non-exceedance Limit, KAF	8432
5% Non-exceedance Limit, KAF	3916

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

FORECAST	Observed Value	Percent Average	Regression Coefficient	Marginal RO (KAF)	Percent Average
Sum of Jun, Jul, Aug, Sep SOI	-3.20		137.2	-439	
Oct Precip at Fernie, BC 3/	2.83	67%	36.3	103	
Oct Precip at Libby 1N Ranger Stn., MT	1.77	111%	53.9	95	
Oct Precip at Fortine 1N, MT	1.83	159%	41.8	76	
Oct Precip at GNP Rogers Pass, BC	4.61	86%	31.2	144	
Oct Precip at Kaslo, BC	1.81	68%	105.2	191	
Oct Precip at West Glacier, MT	4.30	187%	88.8	382	
Intercept	1.00		5622.0	5622	
LIBBY APR-AUG RUNOFF FORECAST, KAF				6174	98.8%
95% Non-exceedance Limit, KAF				8432	134.9%
5% Non-exceedance Limit, KAF				3916	62.7%

REGRESSION MODEL FORECAST STATISTICS		
1971-2000 Normal Runoff, APR-AUG, KAF		6248 100.0%
Forecast Standard Error, APR-AUG, KAF	1352	
95% Confidence Factor -	2258	
1.67-constant 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		8805 139.5%
Historic 74-year 5% non-exceedance limit		3821 60.5%
1928-1999 Median Runoff, APR-AUG, KAF		6311

The given forecast values are to be considered the Corps of Engineers Official Forecast for Libby.

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 November forecast, no relaxation allowed for December target elevation.
- 3/ The Fernie precipitation value is based on a National Weather Service estimate.