

LIBBY PROJECT INFLOW FORECAST, KAF

2005

FORECAST DATE	1 Nov	1 Dec
FORECAST SUMMARY		
Draft requirements based on Libby VARQ storage reservation diagram.		
Apr-Aug runoff, Libby inflow, KAF	6174	6178
Apr-Aug normal, 6248 KAF, 1971-2000	98.8%	98.9%
Apr-Jul runoff, KAF	5575	5578
May-Jul runoff, KAF	5060	5063
Jan-Jul runoff, KAF	6231	6235
Date-Jul runoff, KAF	6231	6235
Forecast standard error, KAF	1352	1175
95% Confidence Error -	2258	1962
Single Tailed Probability @ 1.67		
95% Non-exceedance Limit, KAF	8432	8140
5% Non-exceedance Limit, KAF	3916	4215
FLOOD CONTROL, DRAFT BY:		
required draft, KAF	30 Nov	31 Dec
required elevation, ft	500	2000
	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		24.5	-78	
Oct-Nov Precip at Fernie, AB	6.66	67%	33.6	224	
Oct-Nov Precip at Libby 1N Ranger Stn., MT	2.41	62%	102.0	246	
Oct-Nov Precip at Fortine 1N, MT	2.70	106%	139.0	375	
Oct-Nov Precip at GNP Rogers Pass, BC	11.06	85%	31.0	343	
Oct-Nov Precip at Kaslo, BC	5.05	77%	68.4	345	
Oct-Nov Precip at West Glacier, MT	7.51	140%	71.9	540	
Intercept	1.00		4183.0	4183	
LIBBY APR-AUG RUNOFF FORECAST, KAF				6178	98.9%
95% Non-exceedance Limit, KAF				8140	130.3%
5% Non-exceedance Limit, KAF				4215	67.5%

REGRESSION MODEL FORECAST STATISTICS	Forecast Standard Error, APR-AUG, KAF	95% Confidence Factor -	1.67-constant Single Tailed Probability
1971-2000 Normal Runoff, APR-AUG, KAF	6248	100.0%	
Forecast Standard Error, APR-AUG, KAF	1175		
95% Confidence Factor -	1962		

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

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, precipitation, or snow data.
- 2/ Based on December forecast, no relaxation allowed for end of December target elevation.