

FORECAST DATE	1 Nov	1 Dec	1 Jan	1 Feb	1 Mar	1 Apr	
FORECAST'S KAF Draft requirements based on Libby VARQ storage reservation diagram.							
Apr-Aug runoff, Libby inflow	6533	6451	5346	5644	5359	5305	
Apr-Aug norm, 6248, 1971-2000	104.6%	103.2%	85.6%	90.3%	85.8%	84.9%	
Apr-Jul runoff	5900	5825	4828	5097	4839	4791	
May-Jul runoff	5355	5287	4382	4626	4392	4348	
Jan-Jul runoff	7184	6771	5396	5656	5347	5296	
Date-Jul runoff	7184	6771	5396	5498	5048	4791	
Forecast standard error, KAF	1352	1175	776	579	553	542	
95% Confidence Error -	2258	1962	1296	967	924	905	
Single Tailed Probability @ 1.67							
95% Non-exceedance Limit, KAF	8791	8413	6642	6611	6282	6210	
5% Non-exceedance Limit, KAF	4275	4488	4050	4678	4435	4400	
FLOOD CONTROL, DRAFT BY:							
required draft, KAF	30 Nov	31 Dec	31 Jan	28 Feb	15 Mar	31 Mar	30 Apr
required elevation, ft	500	2000	1400	1202	800	742	664
	2448.0	2411.0	2426.7	2431.6	2441.1	2442.5	2444.3

Variable	Observed Value	Percent Average	Regression Coefficient	Marginal RO (KAF)	Percent Average
Dec-Mar Precip at Fernie, BC	11.72	61%	30.6	358	
Dec-Mar Precip at Cranbrook, BC	2.75	65%	56.6	156	
Dec-Mar Precip at Banff, AB	2.20	54%	69.1	152	
Dec-Mar Precip at Libby 1NE RS, MT	10.86	158%	65.0	706	
Oct-Dec Precip Glacier NP RP, BC	19.09	89%	19.4	370	
Oct-Dec Precip at Kaslo, BC	9.92	83%	43.1	428	
Oct-Dec Precip at Fortine, MT	1.61	45%	104.8	169	
Oct-Dec Precip at West Glacier, MT	9.18	105%	46.1	423	
1-Apr East Creek Snow Course, BC	28.20	77%	17.8	503	
1-Apr Marble Canyon Snow Course, BC	11.11	78%	47.0	523	
1-Apr Stahl Peak, MT	30.40	86%	19.7	600	
1-Apr Hawkins Lake Snow Course, MT	21.10	78%	19.9	420	
Intercept	1.00		497.9	498	

LIBBY APR-AUG RUNOFF FORECAST, KAF	5305	84.9%
95% Non-exceedance Limit, KAF	6210	99.4%
5% Non-exceedance Limit, KAF	4400	70.4%

REGRESSION MODEL APR-AUG FORECAST STATISTICS		
1971-2000 Normal Runoff, KAF		6248 100.0%
Forecast Standard Error, KAF	542	
95% Confidence Factor -	905	
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%

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.