

LIBBY PROJECT INFLOW FORECAST, KAF

2004

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	6865	6756	5708			
Apr-Aug norm, 6248, 1971-2000	109.9%	108.1%	91.4%			
Apr-Jul runoff, KAF	6199	6101	5154			
May-Jul runoff, KAF	5627	5537	4678			
Jan-Jul runoff, KAF	7549	7091	5761			
Date-Jul runoff, KAF	7549	7091	5761			
Forecast standard error, KAF	1352	1175	867			
95% Confidence Factor -	2258	1962	1448			
Single Tailed Probability						
95% Non-exceedance Limit, KAF	9123	8718	7156			
5% Non-exceedance Limit, KAF	4607	4794	4260			
FLOOD CONTROL, DRAFT BY:						
required draft, KAF	30 Nov	31 Dec	31 Jan	28 Feb	15 Mar	31 Mar
required elevation, ft	500	2000	1566	1291	1153	1153
	2448.0	2411.0	2422.5	2429.4	2432.8	2432.8

FORECAST						
Variable	Observed Value	Percent Average	Regression Coefficient	Marginal RO (KAF)	Percent Average	
Sum of Jun, Jul, Aug, Sep SOI	-1.30		24.9		-32	
Oct-Dec Precip at Banff, AB	4.09	112%	112.5		460	
Oct-Dec Precip at Bonners Ferry, ID	5.12	61%	56.0		287	
Oct-Dec Precip at Castlegar, BC	8.83	96%	48.5		429	
Oct-Dec Precip at Fortine 1N, MT	2.31	59%	136.6		315	
Oct-Dec Precip at GNP Rogers Pass, BC	23.98	111%	28.4		680	
Oct-Dec Precip at Kaslo, BC	12.17	108%	56.8		691	
Oct-Dec Precip at West Glacier, MT	9.18	107%	59.2		543	
1-Jan East Creek Snow Pillow, BC	13.03	75%	30.0		392	
Intercept	1.00		1943.1		1943	
LIBBY APR-AUG RUNOFF FORECAST, KAF					5708	91.4%
95% Non-exceedance Limit, KAF					7156	114.5%
5% Non-exceedance Limit, KAF					4260	68.2%

REGRESSION MODEL FORECAST STATISTICS						
1971-2000 Average Runoff, KAF					6248	100.0%
Forecast Standard Error, KAF			867			
95% Confidence Factor -			1448			
1.67-constant Single Tailed Probability						

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.