

**Libby Apr-Aug Runoff Forecast**  
**for Water Year**  
**Forecast Date**

**2003**  
**1-Dec**

	<i>Variable</i>	<i>Observed Value</i>	<i>Regression Coefficient</i>	<i>Marginal Runoff Value in KAF</i>	<i>Percent of Average</i>
1	<i>Sum of Jun, Jul, Aug, Sep SOI</i>	-3.7	73.0	-270	
2	<i>Oct Precipitation at West Glacier, MT</i>	0.32	230.6	74	
3	<i>Oct Precipitation at Glacier Rogers Pass, BC</i>	2.25	121.7	274	
4	<i>Nov Precipitation at Fortine 1 N, MT</i>	0.90	394.0	355	
5	<i>Nov Precipitation at Banff, AB</i>	0.38	433.1	165	
6	<i>Intercept</i>	1.0	4327	4327	
7	<b><i>Libby Apr-Aug Runoff Forecast (KAF)</i></b>			<b>4924</b>	<b>75.5%</b>
8	<i>95% Non-exceedance Limit</i>		(Note 1)	<b>6853</b>	105.0%
9	<i>5% Non-exceedance Limit</i>		(Note 1)	<b>2995</b>	45.9%

**Regression Model Forecast Statistics**

<b>1948-2001 Average Runoff (KAF)</b>		<b>6526</b>	100.0%
<b>Forecast Standard Error (KAF)</b>	1155	(Note 1)	
<b>95% Confidence Factor - Single Tailed Probability</b>	1.67		

**Long Term Historic Statistics**

<b>1929-2001 Average Runoff (KAF)</b>		6303	
<b>1929-2001 Standard Deviation (KAF)</b>	1497		
<b>Historic 73-year 95% non-exceedance limit</b>		8803	140%
<b>Historic 73-year 5% non-exceedance limit</b>		3803	60%

**Note 1 - The value labeled "Forecast Standard Error" in this worksheet, and used in the above Non-exceedance limit computations, is currently the Regression Model Standard Error and has not been updated to utilize the Forecast Standard Error that would include a leverage factor unique to each set of independent variables.**

Calculated:  
 By:  
 Contact:

04-Dec-02  
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