

LIBBY PROJECT INFLOW FORECAST, KAF

07 MAR 2002

FORECAST DATE	1 Jan	1 Feb	1 Mar					
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FORECAST'S KAF								
Apr-Aug runoff, Fort Steele	2603	3000	3146					
Apr-Aug runoff, Libby Local	2393	2379	2770					

Apr-Aug runoff, Libby inflow	5939	5924	5916					
Apr-Aug norm, 6376.8, 1961-1990	93.1%	92.9%	92.8%					
Apr-Jul runoff	5382	5369	5361					
May-Jul runoff	4937	4925	4918					
Jan-Jul runoff	6004	5991	5970					
Date-Jul runoff	6004	5790	5591					
Date-Jul standard error	1069	731	666					
Date-Jul confidence limit, 1.645	1759	1202	1096					
Date-Jul 95% confidence	4245	4587	4495					
Date-Jul 5% confidence	7762	6992	6687					
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FLOOD CONTROL, DRAFT BY:	31 Jan	28 Feb	15 Mar					
required draft, KAF	2602.7	2999.8	3123.6					
required elevation, FT	2393.0	2379.4	2375.0					
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FORECAST COMPONENT SUMMARY	FRO	WP	WP+NS	SWE	SWE+NS	NSSPW	INT	TOTAL
FORT STEELE, B.C., (FS)	0.978	56.88	65.34	103.0	117.8	29.20		
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114								
inches	1.280		4.443		7.890	4.876	-5.114	13.375
inches*235.2=kaf								3146
LIBBY LOCAL, (LL)	0.504	70.55	79.03	83.9	95.2	25.62		
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183								
inches	0.464		6.797		4.3801	3.894	-4.183	11.352
inches*244.0=kaf								2770
TERM DEFINITION								
fall runoff is FRO								
winter precip is WP								
normal subsequent is NS								
snow water equivelant is SWE								
normal subsequent spring precip(weighted) is NSSPW								
equation constant, or, y-INTERCEPT is INT								
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OBSERVED DATA, usage, FS=Fort Steele, LL=Libby Local								
WINTER PRECIP(WP), inches								
	Oct	Nov	Dec	Jan	Feb			
Banff FS	0.53	0.96	0.22	1.18	0.64			
Brisco FS	0.87	1.06	0.63	1.89	0.91			
Fernie LL	8.06	2.59	4.77	5.89	5.45			
Kaslo FS	2.17	4.29	2.64	2.76	2.56			
Rogers Pass FS	6.30	5.59	7.36	7.91	6.42			
Fortine LL	2.27	0.75	1.41	0.73	0.77			
Libby RS LL	8.44	1.04	3.81	2.41	1.11			
Bonnors Ferry LL	2.40	1.77	2.78	1.99	1.41			
Polebridge LL	2.20	1.30	2.50	2.50	2.20			
SNOW WATER EQUILVENT(SWE), inches								
			31 DEC	31 JAN	28 FEB			
Glacier FS			11.1	17.3	22.4			
Kicking Horse FS			4.2	6.6	8.5			
Kimberly LL			2.8	4.7	3.4			
Marble Canyon FS			5.4	9.3	11.9			
Mirror Lake FS			3.4	9.2	11.9			
Morrissey Ridge FS & LL*.5			12.6	18.5	27.0			
New Fernie FS & LL			5.7	9.9	12.5			
Sullivan Mine FS & LL			5.0	5.6	8.9			
Red Mtn. LL			9.0	10.7	14.0			
Weisel Divide LL			16.3	24.0	31.6			
FALL RUNOFF(FRO), kaf								
	Oct	Nov	SUM					
Fort Steele f=235.2	116	114	230					
Libby local f=244.0	49	74	123					
f=, is to convert from basin inches to acre feet(x), or acre feet to basin inches(/).								
LIBBY INFLOW, kaf								
	Oct	Nov	Dec	Jan	Feb			
	165	188	154	201	178			

Questions? Patrick O'Brien, 503-808-3961; Chan Modini, 503-808-3958

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.