

LIBBY PROJECT INFLOW FORECAST, KAF 07 MAR 2000

FORECAST DATE	1 Jan	1 Feb	1 Mar
FORECAST'S KAF			
Apr-Aug runoff, Fort Steele	3197	4027	3734
Apr-Aug runoff, Libby Local	2372	2338	2950
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Apr-Aug runoff, Libby inflow	6802	6804	6684
Apr-Aug norm, 6376.8, 1961-1990	106.7%	106.7%	104.8%
Apr-Jul runoff	6164	6166	6057
May-Jul runoff	5654	5656	5556
Jan-Jul runoff	6787	6920	6872
Date-Jul runoff	6787	6589	6289
Date-Jul standard error	1069	731	666
Date-Jul confidence limit, 1.645	1759	1202	1096
Date-Jul 95% confidence	5028	5386	5193
Date-Jul 5% confidence	8545	7791	7385

FLOOD CONTROL, DRAFT BY:	31 Jan	28 Feb	15 Mar
required draft, KAF	3196.8	4027.5	4180.4
required elevation, FT	2372.3	2338.3	2331.3

FORECAST COMPONENT SUMMARY	FRO	WP	WP+NS	SWE	SWE+NS	NSSPW	INT	TOTAL
FORT STEELE, B.C., (FS)	2.526	73.48	81.94	93.3	108.0	29.20		
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114								
inches	3.306		5.572		7.237	4.876	-5.114	15.877
inches*235.2=kaf								3734
LIBBY LOCAL, (LL)	1.881	71.61	80.09	70.4	81.7	25.62		
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183								
inches	1.733		6.888		3.7578	3.894	-4.183	12.089
inches*244.0=kaf								2950

TERM DEFINITION  
fall runoff is FRO  
winter precip is WP  
normal subsequent is NS  
snow water equivalent is SWE  
normal subsequent spring precip(weighted) is NSSPW  
equation constant, or, y-INTERCEPT is INT

OBSERVED DATA, usage, FS=Fort Steele, LL=Libby Local

WINTER PRECIP(WP), inches		Oct	Nov	Dec	Jan	Feb
Banff	FS	2.56	1.53	0.19	0.54	0.95
Brisco	FS	1.44	2.25	1.30	2.00	1.10
Fernie	LL	3.20	9.50	6.69	7.19	6.39
Kaslo	FS	3.27	5.79	4.50	3.59	2.09
Rogers Pass	FS	7.29	9.39	9.30	9.40	5.00
Fortine	LL	1.12	2.05	1.11	1.16	0.90
Libby RS	LL	1.44	3.60	1.30	2.79	1.31
Bonnors Ferry	LL	1.43	3.85	1.64	2.90	1.18
Polebridge	LL	1.69	3.20	2.10	2.37	1.50
SNOW WATER EQUIVALENT(SWE), inches		31 DEC	31 JAN	28 FEB		
Glacier	FS	14.7	21.0	23.9		
Kicking Horse	FS	6.3	9.3	10.0		
Kimberly	LL	1.5	1.2	2.9		
Marble Canyon	FS	8.8	9.3	11.4		
Mirror Lake	FS	5.2	7.2	10.2		
Morrissey Ridge	FS & LL*.5	8.3	14.2	18.9		
New Fernie	FS & LL	3.4	7.0	11.4		
Sullivan Mine	FS & LL	2.7	5.3	7.5		
Red Mtn.	LL	6.6	8.9	13.0		
Weisel Divide	LL	11.9	20.6	26.2		
FALL RUNOFF(FRO), kaf		Oct	Nov	SUM		
Fort Steele	f=235.2	178	416	594		
Libby local	f=244.0	136	323	459		

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
	314	739	374	331	252

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