

LIBBY PROJECT INFLOW FORECAST, KAF 07 MAR 2001

FORECAST DATE	1 Jan	1 Feb	1 Mar
FORECAST'S KAF			
Apr-Aug runoff, Fort Steele	1841	1048	1902
Apr-Aug runoff, Libby Local	2415	2435	1464

Apr-Aug runoff, Libby inflow	4764	3936	3366
Apr-Aug norm, 6376.8, 1961-1990	74.7%	61.7%	52.8%
Apr-Jul runoff	4317	3567	3050
May-Jul runoff	3960	3272	2798
Jan-Jul runoff	4936	4138	3576
Date-Jul runoff	4936	3984	3275
Date-Jul standard error	1069	731	666
Date-Jul confidence limit, 1.645	1759	1202	1096
Date-Jul 95% confidence	3178	2781	2180
Date-Jul 5% confidence	6695	5186	4371

FLOOD CONTROL, DRAFT BY:	31 Jan	28 Feb	15 Mar
required draft, KAF	1840.5	1048.3	500.0
required elevation, FT	2415.3	2435.3	2448.0

FORECAST COMPONENT SUMMARY	FRO	WP	WP+NS	SWE	SWE+NS	NSSPW	INT	TOTAL
FORT STEELE, B.C., (FS)	0.995	31.32	39.78	49.7	64.4	29.20		
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114								
inches	1.302		2.705		4.316	4.876	-5.114	8.086
inches*235.2=kaf								1902
LIBBY LOCAL, (LL)	0.898	32.65	41.13	30.6	41.9	25.62		
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183								
inches	0.827		3.537		1.9253	3.894	-4.183	6.000
inches*244.0=kaf								1464

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	0.30	0.37	0.45	0.17	0.77
Brisco	FS	0.50	0.60	1.29	0.26	0.41
Fernie	LL	2.79	3.32	4.43	1.29	2.25
Kaslo	FS	1.69	0.70	2.66	0.50	0.15
Rogers Pass	FS	3.00	3.10	5.60	4.40	4.40
Fortine	LL	0.72	0.65	0.84	0.31	0.33
Libby RS	LL	0.33	1.28	1.33	0.88	0.89
Bonnors Ferry	LL	1.65	1.04	1.59	0.67	0.26
Polebridge	LL	1.10	0.80	2.40	0.80	0.70
SNOW WATER EQUIVALENT(SWE), inches		31 DEC	31 JAN	28 FEB		
Glacier	FS	7.5	12.2	14.9		
Kicking Horse	FS	3.0	4.0	5.5		
Kimberly	LL	1.6	0.1	0.0		
Marble Canyon	FS	2.9	4.2	6.0		
Mirror Lake	FS	2.5	3.1	4.8		
Morrissey Ridge	FS & LL*.5	4.8	6.8	9.1		
New Fernie	FS & LL	3.1	3.5	4.6		
Sullivan Mine	FS & LL	2.8	4.0	4.8		
Red Mtn.	LL	3.5	2.5	5.6		
Weisel Divide	LL	6.4	9.2	11.4		
FALL RUNOFF(FRO), kaf		Oct	Nov	SUM		
Fort Steele	f=235.2	148	86	234		
Libby local	f=244.0	118	101	219		

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
	266	187	166	154	147

Questions? Chan Modini, 503-808-3958, Russ Morrow, 503-808-3951