

LIBBY PROJECT INFLOW FORECAST, KAF 06 APR 2000

FORECAST DATE	1 Jan	1 Feb	1 Mar	1 Apr
FORECAST'S KAF				
Apr-Aug runoff, Fort Steele	3197	4027	3734	3837
Apr-Aug runoff, Libby Local	2372	2338	2950	3029
Apr-Aug runoff, Libby inflow	6802	6804	6684	6866
Apr-Aug norm, 6376.8, 1961-1990	106.7%	106.7%	104.8%	107.7%
Apr-Jul runoff	6164	6166	6057	6222
May-Jul runoff	5654	5656	5556	5708
Jan-Jul runoff	6787	6920	6872	7065
Date-Jul runoff	6787	6589	6289	6236
Date-Jul standard error	1069	731	666	643
Date-Jul confidence limit, 1.	1759	1202	1096	1058
Date-Jul 95% confidence	5028	5386	5193	5179
Date-Jul 5% confidence	8545	7791	7385	7294

FLOOD CONTROL, DRAFT BY:	31 Jan	28 Feb	15 Mar	31 Mar
required draft, KAF	3196.8	4027.5	4180.4	4358.9
required elevation, FT	2372.3	2338.3	2331.3	2322.6

FORECAST COMPONENT SUMMARY	FRO	WP	WP+NS	SWE	SWE+NS	NSSPW	INT	TOTAL
FORT STEELE, B.C., (FS)	2.526	82.77	82.77	113.7	113.7	29.20		
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114								
inches	3.306		5.628		7.618	4.876	-5.114	16.314
inches*235.2=kaf								3837
LIBBY LOCAL, (LL)	1.881	81.78	81.78	85.6	85.6	25.62		
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183								
inches	1.733		7.033		3.938	3.894	-4.183	12.414
inches*244.0=kaf								3029

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	Mar
Banff	FS	2.56	1.53	0.19	0.54	0.95	1.12
Brisco	FS	1.44	2.25	1.30	2.00	1.10	0.72
Fernie	LL	3.20	9.50	6.69	7.19	6.39	5.64
Kaslo	FS	3.27	5.79	4.50	3.59	2.09	2.25
Rogers Pass	FS	7.29	9.39	9.30	9.40	5.00	5.20
Fortine	LL	1.12	2.05	1.11	1.16	0.90	0.85
Libby RS	LL	1.44	3.60	1.30	2.79	1.31	1.00
Bonnars Ferry	LL	1.43	3.85	1.64	2.90	1.18	1.08
Polebridge	LL	1.69	3.20	2.10	2.37	1.50	1.60
NOW WATER EQUIVALENT(SWE), inches			31 DEC	31 JAN	28 FEB	31 MAR	
Glacier	FS		14.7	21.0	23.9	29.3	
Kicking Horse	FS		6.3	9.3	10.0	13.6	
Kimberly	LL		1.5	1.2	2.9	4.0	
Marble Canyon	FS		8.8	9.3	11.4	14.4	
Mirror Lake	FS		5.2	7.2	10.2	12.0	
Morrissey Ridge	FS & LL*.5		8.3	14.2	18.9	22.8	
New Fernie	FS & LL		3.4	7.0	11.4	12.0	
Sullivan Mine	FS & LL		2.7	5.3	7.5	9.6	
Red Mtn.	LL		6.6	8.9	13.0	15.8	
Weisel Divide	LL		11.9	20.6	26.2	32.8	

FALL RUNOFF(FRO), kaf	Oct	Nov	SUM	Jan	Feb	Mar
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	Mar
	314	739	374	331	252	246

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