

LIBBY PROJECT INFLOW FORECAST, KAF

2000

FORECAST DATE	1 Jan	1 Feb	1 Mar	1 Apr	1 May	1 Jun
FORECAST'S KAF						
Apr-Aug runoff, Fort Steele	3197	4027	3734	3837	3956	3953
Apr-Aug runoff, Libby Local	2372	2338	2950	3029	3068	3009
Apr-Aug runoff, Libby inflow	6802	6804	6684	6866	7024	6962
Apr-Aug norm, 6376.8, 1961-1990	106.7%	106.7%	104.8%	107.7%	110.1%	109.2%
Apr-Jul runoff	6164	6166	6057	6222	6365	6323
May-Jul runoff	5654	5656	5556	5708	5722	5667
Jan-Jul runoff	6787	6920	6872	7065	7208	7152
Date-Jul runoff	6787	6589	6289	6236	5723	4259
Jun-Aug residual forecast						4898
Date-Jul standard error	1069	731	666	643	572	443
Date-Jul confidence limit, 1.64	1759	1202	1096	1058	941	729
Date-Jul 95% confidence	5028	5386	5193	5179	4783	3531
Date-Jul 5% confidence	8545	7791	7385	7294	6664	4988

FLOOD CONTROL, DRAFT BY:	31 Jan	28 Feb	15 Mar	31 Mar	30 Apr	lookback
required draft, KAF	3196.8	4027.5	4180.4	4358.9	4051.4	
required elevation, FT	2372.3	2338.3	2331.3	2322.6	2337.2	

FORECAST COMPONENT SUMMARY	FRO	WP	SWE	SP	SP+NS	INT	TOTAL
FORT STEELE, B.C., (FS)	2.526	82.77	113.7	18.38	32.14		
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114							
inches	3.306	5.628	7.618		5.367	-5.114	16.805
inches*235.2=kaf							3953
LIBBY LOCAL, (LL)	1.881	81.78	85.6	13.16	25.09		
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183							
inches	1.733	7.033	3.938		3.814	-4.183	12.334
inches*244.0=kaf							3009

TERM DEFINITION

fall runoff is FRO
winter precip is WP
normal subsequent is NS
snow water equivalent is SWE
spring precip(weighted) is SP
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
SNOW 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					
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	Apr	May
SPRING PRECIP(SP), inches		314	739	374	331	252	246	656	1408
		Apr	May						
Brisco	FS	1.40	1.11						
Creston	FS	1.50	2.40						
Kaslo	FS & LL	3.74	2.30						
Wasa	FS	1.60	0.91						
Fortine	LL	0.78	0.94						
Porthill	FS & LL	1.45	1.97						
Whitefish	LL	0.92	1.06						

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Previous fcsts have changed because some estimated precip has been replaced with observed.
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