

LIBBY PROJECT INFLOW FORECAST, KAF 07 MAR 2003

FORECAST DATE	1 Jan	1 Feb	1 Mar
FORECAST'S KAF Drafts reflect VARQ flood control operations at Libby.			
Apr-Aug runoff, Fort Steele	2668	1000	2348
Apr-Aug runoff, Libby Local	2212	2436	1833
Apr-Aug runoff, Libby inflow	4880	4746	4181
Apr-Aug norm, 6248, 1971-2000	78.1%	76.0%	66.9%
Apr-Jul runoff	4406	4285	3776
May-Jul runoff	4000	3890	3427
Jan-Jul runoff	4925	4773	4215
Date-Jul runoff	4925	4622	3939
Date-Jul standard error	1069	731	666
Date-Jul confidence limit, 1.645	1759	1202	1096
Date-Jul 95% confidence	3167	3420	2844
Date-Jul 5% confidence	6684	5825	5035

FLOOD CONTROL, DRAFT BY:	31 Jan	28 Feb	15 Mar	31 Mar	30 Apr
required draft, KAF	1400.0	1000.0	800.0	500.0	100.0
required elevation, FT	2426.7	2436.4	2441.1	2448.0	2456.8

  

FORECAST COMPONENT SUMMARY	FRO	WP	WP+NS	SWE	SWE+NS	NSSPW	INT	TOTAL
FORT STEELE, B.C., (FS)	1.059	40.83	49.29	67.1	81.8	29.20		
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114								
inches	1.386		3.352		5.483	4.876	-5.114	9.983
inches*235.2=kaf								2348
LIBBY LOCAL, (LL)	0.648	42.12	50.60	50.8	62.1	25.62		
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183								
inches	0.596		4.352		2.85437	3.894	-4.183	7.514
inches*244.0=kaf								1833

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	0.70	0.38	0.45	0.36	0.63
Brisco	FS	0.08	0.98	0.59	1.65	0.28
Fernie	LL	0.73	2.52	1.93	2.41	1.11
Kaslo	FS	0.55	2.24	5.75	4.09	0.87
Rogers Pass	FS	1.57	5.04	5.43	6.73	2.44
Fortine	LL	0.04	0.90	1.66	0.62	0.79
Libby RS	LL	1.50	1.78	3.67	2.28	0.78
Bonnars Ferry	LL	0.39	1.34	6.16	3.43	0.58
Polebridge	LL	0.40	1.00	3.30	1.90	0.90

  

SNOW WATER EQUIVALENT(SWE), inches		31 DEC	31 JAN	28 FEB
Glacier	FS	7.5	14.3	16.1
Kicking Horse	FS	2.6	5.7	6.9
Kimberly	LL	2.1	0.6	1.2
Marble Canyon	FS	2.5	7.2	7.3
Mirror Lake	FS	2.1	3.8	5.5
Morrissey Ridge	FS & LL*.5	6.9	13.0	16.9
New Fernie	FS & LL	1.6	4.5	6.6
Sullivan Mine	FS & LL	3.7	6.5	7.8
Red Mtn.	LL	4.0	7.1	9.3
Weisel Divide	LL	7.3	13.5	17.4

  

FALL RUNOFF(FRO), kaf		Oct	Nov	SUM
Fort Steele	f=235.2	151	98	249
Libby local	f=244.0	80	78	158

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
		231	176	186	151	125

'Questions? Ken Soderlind, 503-808-3950; Chan Modini, 503-808-3958; Arun Mylvahanan, 503-808-3961  
 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.