

LIBBY PROJECT INFLOW FORECAST, KAF 08 Feb 2000

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FORECAST DATE 1/          1 Jan  1 Feb
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FORECAST'S KAF
Apr-Aug runoff, Fort Steele          3874  3853
Apr-Aug runoff, Libby Local          2928  2951
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Apr-Aug runoff, Libby inflow          6802  6804
Apr-Aug norm, 6376.8, 1961-1990 106.7% 106.7%
    Apr-Jul runoff                    6164  6166
    May-Jul runoff                     5654  5656
    Jan-Jul runoff                     6787  6920
    Date-Jul runoff                    6787  6589
Date-Jul standard error                1069   731
Date-Jul confidence limit, 1.6        1759  1202
Date-Jul 95% confidence                5028  5386
Date-Jul 5% confidence                 8545  7791
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FLOOD CONTROL, DRAFT BY:   31 Jan 28 Feb 15 Mar
required draft, KAF        3196.8 4027.5 4297.9
required elevation, FT     2372.3 2338.3 2325.6
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FORECAST COMPONENT SUMMARY      FRO      WP      WP+NS      SWE      SWE+NS      NSSPW      INT      TOTAL
FORT STEELE, B.C., (FS)         2.526   64.34   85.51     73.3     111.9     29.20
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114
    inches                        3.306                5.814                7.500     4.876     -5.114     16.383
    inches*235.2=kaf .....
LIBBY LOCAL, (LL)               1.881   60.33   80.21     50.1     81.6     25.62
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183
    inches                        1.733                6.898                3.752     3.894     -4.183     12.093
    inches*244.0=kaf .....
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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

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WINTER PRECIP(WP), inches      Oct      Nov      Dec      Jan
Banff          FS          2.56     1.53     0.19     0.54
Brisco         FS          1.44     2.25     1.30     2.00
Fernie         LL          3.20     9.50     6.69     7.19
Kaslo          FS          3.27     5.79     4.50     3.59
Rogers Pass    FS          7.29     9.39     9.30     9.40
Fortine        LL          1.12     2.05     1.11     1.16
Libby RS       LL          1.44     3.60     1.30     2.79
Bonners Ferry LL          1.43     3.85     1.64     2.90
Polebridge     LL          1.69     3.20     2.10     2.37
SNOW WATER EQUIV(SWE), inches  31 DEC  31 JAN
Glacier        FS          14.7     21.0
Kicking Horse  FS          6.3      9.3
Kimberly       LL          1.5      1.2
Marble Canyon  FS          8.8      9.3
Mirror Lake    FS          5.2      7.2
Morrissey Ridge FS & LL*.5  8.3      14.2
New Fernie     FS & LL     3.4      7.0
Sullivan Mine  FS & LL     2.7      5.3
Red Mtn.       LL          6.6      8.9
Weisel Divide  LL          11.9     20.6
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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(/).
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LIBBY INFLOW, kaf              Oct      Nov      Dec      Jan
                               314     739     374     331
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Questions? Ken Yokoyama, 503-808-3961, Russ Morrow, 503-808-3951, or Bruce Glabau, 503-808-39
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.