

LIBBY PROJECT INFLOW FORECAST, KAF 08 Feb 2002

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FORECAST DATE 1/          1 Jan  1 Feb
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FORECAST'S KAF
Apr-Aug runoff, Fort Steele      3108  3139
Apr-Aug runoff, Libby Local      2912  2866
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Apr-Aug runoff, Libby inflow     6021  6005
Apr-Aug norm, 6376.8, 1961-1990 94.4% 94.2%
    Apr-Jul runoff               5456  5442
    May-Jul runoff               5005  4992
    Jan-Jul runoff              6077  6064
    Date-Jul runoff             6077  5863
Date-Jul standard error         1069   731
Date-Jul confidence limit, 1.6  1759  1202
Date-Jul 95% confidence         4319  4661
Date-Jul 5% confidence          7836  7066
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FLOOD CONTROL, DRAFT BY:      31 Jan 28 Feb 15 Mar
required draft, KAF           2666.0 3107.0 3257.9
required elevation, FT        2390.9 2375.6 2370.0
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FORECAST COMPONENT SUMMARY      FRO      WP      WP+NS      SWE      SWE+NS      NSSPW      INT      TOTAL
FORT STEELE, B.C., (FS)         0.978  46.36  67.53      76.5     115.1     29.20
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114
    inches                       1.280                4.592                7.712     4.876    -5.114    13.346
    inches*235.2=kaf .....
LIBBY LOCAL, (LL)               0.504  63.48  83.36      64.3     95.7     25.62
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183
    inches                       0.464                7.169                4.402     3.894    -4.183    11.747
    inches*244.0=kaf .....
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TERM DEFINITION
fall runoff is FRO
winter precip is WP
normal subsequent is NS
snow water equivelant is SWE
normal subsequent spring precip(weighted) is NSSPW
equation constant, or, y-INTERCEPT is INT

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OBSERVED DATA, usage, FS=Fort Steele, LL=Libby Local
WINTER PRECIP(WP), inches      Oct      Nov      Dec      Jan
Banff          FS          0.53    0.96    0.22    1.18
Brisco         FS          0.87    1.06    0.63    1.89
Fernie         LL          8.06    2.59    8.64    5.89
Kaslo          FS          2.17    4.29    2.64    2.76
Rogers Pass    FS          6.30    5.59    7.36    7.91
Fortine        LL          2.27    0.75    1.41    0.73
Libby RS       LL          8.44    1.04    3.81    2.41
Bonners Ferry LL          2.40    1.77    2.78    1.99
Polebridge     LL          2.20    1.30    2.50    2.50
SNOW WATER EQUILVENT(SWE), inches      31 DEC  31 JAN
Glacier        FS          11.1    17.3
Kicking Horse  FS          4.2     6.6
Kimberly       LL          2.8     4.7
Marble Canyon  FS          5.4     9.3
Mirror Lake    FS          3.4     9.2
Morrissey Ridge FS & LL*.5  12.6    18.5
New Fernie     FS & LL      5.7     9.9
Sullivan Mine  FS & LL      5.0     5.6
Red Mtn.       LL          9.0    10.7
Weisel Divide  LL          16.3    24.0
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FALL RUNOFF(FRO), kaf          Oct      Nov      SUM
Fort Steele      f=235.2  116    114    230
Libby local      f=244.0   49     74    123
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
                               165     188     154     201
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Questions? Patrick O'Brien, 503-808-3961; Chan Modini, 503-808-3958
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.