

LIBBY PROJECT INFLOW FORECAST, KAF 08 Feb 2001

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FORECAST DATE 1/          1 Jan  1 Feb
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FORECAST'S KAF
Apr-Aug runoff, Fort Steele      2587  2203
Apr-Aug runoff, Libby Local      2177  1733
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Apr-Aug runoff, Libby inflow     4764  3936
Apr-Aug norm, 6376.8, 1961-1990 74.7% 61.7%
    Apr-Jul runoff                4317  3567
    May-Jul runoff                 3960  3272
    Jan-Jul runoff                 4936  4138
    Date-Jul runoff                4936  3984
Date-Jul standard error          1069   731
Date-Jul confidence limit, 1.6   1759  1202
Date-Jul 95% confidence          3178  2781
Date-Jul 5% confidence           6695  5186
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FLOOD CONTROL, DRAFT BY:      31 Jan 28 Feb 15 Mar
required draft, KAF           1840.5 1048.3 805.0
required elevation, FT        2415.3 2435.3 2441.0
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FORECAST COMPONENT SUMMARY      FRO      WP  WP+NS      SWE  SWE+NS  NSSPW      INT  TOTAL
FORT STEELE, B.C., (FS)         0.995  25.59 46.76    37.8   76.4   29.20
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114
    inches                        1.302                3.180                5.121  4.876  -5.114  9.366
    inches*235.2=kaf .....
LIBBY LOCAL, (LL)               0.898  28.22 48.10    21.3   52.8   25.62
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183
    inches                        0.827                4.137                2.427  3.894  -4.183  7.102
    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

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OBSERVED DATA, usage, FS=Fort Steele, LL=Libby Local
WINTER PRECIP(WP), inches      Oct      Nov      Dec      Jan
Banff          FS          0.30    0.37    0.45    0.17
Brisco         FS          0.50    0.60    1.29    0.26
Fernie         LL          2.79    3.32    4.43    1.29
Kaslo          FS          1.69    0.70    2.66    0.50
Rogers Pass    FS          3.00    3.10    5.60    4.40
Fortine        LL          0.72    0.65    0.84    0.31
Libby RS       LL          0.33    1.28    1.33    0.88
Bonners Ferry LL          1.65    1.04    1.59    0.67
Polebridge     LL          1.10    0.80    2.40    0.80
SNOW WATER EQUIVALENT(SWE), inches      31 DEC  31 JAN
Glacier        FS          7.5     12.2
Kicking Horse  FS          3.0     4.0
Kimberly       LL          1.6     0.1
Marble Canyon  FS          2.9     4.2
Mirror Lake    FS          2.5     3.1
Morrissey Ridge FS & LL*.5  4.8     6.8
New Fernie     FS & LL     3.1     3.5
Sullivan Mine  FS & LL     2.8     4.0
Red Mtn.       LL          3.5     2.5
Weisel Divide  LL          6.4     9.2
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FALL RUNOFF(FRO), kaf          Oct      Nov      SUM
Fort Steele      f=235.2  148     86     234
Libby local      f=244.0  118    101    219
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
                                266     187     166     154
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Questions? Chan Modini, 503-808-3958, Russ Morrow, 503-808-3951 or Ken Yokoyoma, 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.