

LIBBY PROJECT INFLOW FORECAST, KAF 2001

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FORECAST DATE          1 Jan
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FORECAST'S KAF
Apr-Aug runoff, Fort Steele      2587
Apr-Aug runoff, Libby Local      2177
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Apr-Aug runoff, Libby inflow     4764
Apr-Aug norm, 6376.8, 1961-1990  74.7%
    Apr-Jul runoff                4317
    May-Jul runoff                 3960
    Jan-Jul runoff                 4936
    Date-Jul runoff                4936
Date-Jul standard error          1069
Date-Jul confidence limit, 1.645  1759
Date-Jul 95% confidence          3178
Date-Jul 5% confidence           6695
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FLOOD CONTROL, DRAFT BY:      31 Jan  28 Feb  15 Mar
required draft, KAF            1840.5  1652.6  1543.3
required elevation, FT         2415.3  2420.3  2423.1
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FORECAST COMPONENT SUMMARY      FRO      WP  WP+NS  SWE  SWE+NS  NSSPW  INT
FORT STEELE, B.C., (FS)        0.995  20.26  58.13  26.6   89.3   29.20
inches=(fro(1.309)+wp(0.068)+swe(0.067)+sp(0.167))-5.114
    inches                      1.302                3.953          5.980  4.876  -5.114
        inches*235.2=kaf .....
LIBBY LOCAL, (LL)              0.898  24.27  60.01  19.8   70.1   25.62
inches=(fro(0.921)+wp(0.086)+swe(0.046)+sp(0.152))-4.183
    inches                      0.827                5.161          3.225  3.894  -4.183
        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
Banff      FS      Oct      Nov      Dec
Brisco     FS      0.30    0.37    0.45
Fernie     LL      2.79    3.32    4.43
Kaslo      FS      1.69    0.70    2.66
Rogers Pass FS      3.00    3.10    5.60
Fortine    LL      0.72    0.65    0.84
Libby RS   LL      0.33    1.28    1.33
Bonners Ferry LL     1.65    1.04    1.59
Polebridge LL     1.10    0.80    2.40
SNOW WATER EQUIVLENT(SWE), inches  31 DEC
Glacier    FS      7.5
Kicking Horse FS     3.0
Kimberly   LL     1.6
Marble Canyon FS     2.9
Mirror Lake FS     2.5
Morrissey Ridge FS & LL*.5  4.8
New Fernie FS & LL     3.1
Sullivan Mine FS & LL     2.8
Red Mtn.   LL     3.5
Weisel Divide LL     6.4
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(/).
LIBBY INFLOW, kaf      Oct      Nov      Dec
266      187     166
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