

DWORSHAK APRIL-JULY INFLOW FORECAST  
as of 1200 1 Apr 2004  
DATA START DATE = 0400 1 Oct 2003

| End of Month      | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY | JUN |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-----|-----|
| ELBI ELK BUTTE    | -      | -      | 19.1   | 30.2   | 33.9   | 36.6   |        |     |     |
| HEMI HEMLOCK      | -      | -      | 21.9   | 35.4   | 41.8   | 45.6   |        |     |     |
| HOOM HOODOO BASIN | -      | -      | 18.2   | 26.9   | 30.5   | 34.4   |        |     |     |
| PERI PIERCE RG S  | -      | -      | 4.6    | 8.3    | 10.0   | -      |        |     |     |
| SHAI SHANGHI SUM  | -      | -      | -      | -      | -      | 27.0   |        |     |     |
| LSLI LOST LAKE    | -      | -      | -      | -      | -      | -      |        |     |     |
| EKRI ELK RIVER 1S | -      | -      | 4.8    | -      | -      | -      |        |     |     |
| DWR AVERAGE KAF   | -      | -      | -      | 97.0   | 156.0  | 392.0  |        |     |     |
| ASOI July-Aug SOI | -0.1   | -      | -      | -      | -      | -      |        |     |     |
| SSOI July-Sep SOI | -      | -0.2   | -      | -      | -      | -      |        |     |     |
| OSOI July-Oct SOI | -      | -      | -0.5   | -      | -      | -      |        |     |     |
| NSOI July-Nov SOI | -      | -      | -      | -0.9   | -      | -      |        |     |     |
| DSOI July-Dec SOI | -      | -      | -      | -      | 0.2    | 0.2    | 0.2    |     |     |
| DWORSHAK FC SPACE |        |        |        | 970    | 1100   | 983    | 847    |     |     |
| DWORSHAK FC ELEV  |        |        |        | 1539.3 | 1529.8 | 1538.3 | 1548.0 |     |     |
| DWORSHAK FOM ELEV | 1518.5 | 1515.9 | 1515.2 | 1517.8 | 1511.0 | 1508.6 | 1530.1 |     |     |

- = data not used for that month's runoff forecast equation  
 ELBI = ELK BUTTE ACCUMULATED SWE IN INCHES (snotel) elev 5550  
 HEMI = HEMLOCK ACCUMULATED SWE IN INCHES (snotel) elev 5810  
 HOOM = HOODOO BASIN ACCUMULATED SWE IN INCHES (snotel) elev 6050  
 PERI = PIERCE RANGER STATION ACCUMULATED SWE IN INCHES (snow course) elev 3080  
 SHAI = SHANGHAI SUMMIT ACCUMULATED SWE IN INCHES (snotel) elev 4570  
 LSLI = LOST LAKE ACCUMULATED SWE IN INCHES (snotel) elev 6110  
 EKRI = ELK RIVER 1S ACCUMULATED MONTHLY PRECIP IN INCHES elev 2910  
 DWRI = MONTHLY DWORSHAK INFLOW (KAF)  
 JD = JANUARY DWORSHAK INFLOW (KAF)  
 FD = FEBRUARY DWORSHAK INFLOW (KAF)  
 MD = MARCH DWORSHAK INFLOW (KAF)  
 AD = APRIL DWORSHAK INFLOW (KAF)  
 FOM = FIRST OF MONTH

FORECAST EQUATIONS:

01OCT=276.4\*ASOI+2690  
 01NOV=191.5\*SSOI+2667  
 01DEC=144.2\*OSOI+2687  
 01JAN=12.7\*ELBI+15.3\*HEMI+13.3\*HOOM+63.3\*PERI+89.7\*NSOI+17.1\*EKRI+1539  
 01FEB=18.6\*ELBI+15.6\*HEMI+18.5\*HOOM+44.1\*PERI+20.3\*DSOI+.8\*JD+540  
 01MAR=14.2\*ELBI+14.7\*HEMI+15.5\*HOOM+33.4\*PERI+21.8\*DSOI+.9\*JD+.2\*FD+369  
 01APR=15.1\*ELBI+15.4\*HEMI+14.6\*HOOM+15.9\*SHAI+22.6\*DSOI+.8\*JD+.3\*FD+.3\*MD-168  
 01MAY=14.1\*ELBI+12.3\*HEMI+12.6\*HOOM+13.9\*SHAI+.3\*AD-201  
 01JUN=8.2\*ELBI+7.3\*HEMI+8.4\*HOOM+5.7\*LSLI+183

|                           | April-July normal inflow for the 1971-2000 period = 2645 KAF |      |      |      |      |      |      |      |      |  |
|---------------------------|--|------|------|------|------|------|------|------|------|--|
|                           | % Chance that OBSERVED will be > than given value            |      |      |      |      |      |      |      |      |  |
|                           | % Normal   | KAF  | 1%   | 5%   | 20%  | 50%  | 80%  | 95%  | 99%  |  |
| 01Oct April-July Forecast | 101  | 2662 | 4369 | 3863 | 3278 | 2662 | 2047 | 1461 | 956  |  |
| 01Nov April-July Forecast | 99   | 2629 | 4255 | 3773 | 3215 | 2629 | 2042 | 1484 | 1002 |  |
| 01Dec April-July Forecast | 99   | 2615 | 4270 | 3780 | 3212 | 2615 | 2018 | 1450 | 960  |  |
| 01Jan April-July Forecast | 100  | 2651 | 3971 | 3580 | 3127 | 2651 | 2175 | 1722 | 1331 |  |
| 01Feb April-July Forecast | 98   | 2599 | 3773 | 3425 | 3022 | 2599 | 2176 | 1773 | 1426 |  |
| 01Mar April-July Forecast | 91   | 2394 | 3378 | 3087 | 2749 | 2394 | 2040 | 1702 | 1411 |  |
| 01Apr April-July Forecast | 86   | 2265 | 3112 | 2861 | 2570 | 2265 | 1960 | 1669 | 1418 |  |
| 01May April-July Forecast |  |      |      |      |      |      |      |      |      |  |
| 01Jun April-July Forecast |  |      |      |      |      |      |      |      |      |  |

The given forecast values are to be considered the Corps of Engineers  
 Official Forecast for Dworshak. If you have questions on this report, Contact  
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 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.