

DWORSHAK APRIL-JULY INFLOW FORECAST  
DECEMBER 2005 FORECAST

| End of Month          | OCT    | NOV    | DEC    | JAN    | FEB | MAR | APR | MAY | JUN |
|-----------------------|--------|--------|--------|--------|-----|-----|-----|-----|-----|
| ELBI ELK BUTTE        | -      | -      | -      |        |     |     |     |     |     |
| HEMI HEMLOCK          | -      | -      | -      |        |     |     |     |     |     |
| HOOM HOODOO BASIN     | -      | -      | -      |        |     |     |     |     |     |
| PERI PIERCE RG S      | -      | -      | -      |        |     |     |     |     |     |
| SHAI SHANGHI SUM      | -      | -      | -      |        |     |     |     |     |     |
| LSLI LOST LAKE        | -      | -      | -      |        |     |     |     |     |     |
| HQSI HEADQUARTERS Ppt | -      | 5.3    | -      |        |     |     |     |     |     |
| DWR AVG INFLOW KAF    | -      | -      | -      |        |     |     |     |     |     |
| SSOI Sep SOI          | 0.4    | 0.4    | 0.4    |        |     |     |     |     |     |
| DWORSHAK FC SPACE     |        |        |        | 1046   |     |     |     |     |     |
| DWORSHAK FC ELEV      |        |        |        | 1533.8 |     |     |     |     |     |
| DWORSHAK FOM ELEV     | 1518.7 | 1517.5 | 1518.3 |        |     |     |     |     |     |

- = data not used in runoff forecast equation

ELBI = ELK BUTTE ACCUMULATED SWE IN INCHES (snotel) elev 5550 ft  
HEMI = HEMLOCK ACCUMULATED SWE IN INCHES (snotel) elev 5810 ft  
HOOM = HOODOO BASIN ACCUMULATED SWE IN INCHES (snotel) elev 6050 ft  
PERI = PIERCE RANGER STATION ACCUMULATED SWE IN INCHES (snow course) elev 3080 ft  
SHAI = SHANGHAI ACCUMULATED SWE IN INCHES (snotel) elev 4570 ft  
LSLI = LOST LAKE ACCUMULATED SWE IN INCHES (snotel) elev 6110 ft  
HQSN = HEADQUARTERS NOVEMBER PRECIP IN INCHES elev 3140 ft  
HQSD = HEADQUARTERS DECEMBER PRECIP IN INCHES elev 3140 ft  
DWRJ = DWORSHAK JANUARY INFLOW (KAF)  
DWRF = DWORSHAK FEBRUARY INFLOW (KAF)  
DWRM = DWORSHAK MARCH INFLOW (KAF)  
DWRA = DWORSHAK APRIL INFLOW (KAF)  
DWRM = DWORSHAK MAY INFLOW (KAF)  
FOM = FIRST OF MONTH

FORECAST EQUATIONS:

01OCT=511.726\*SSOI+2641.518  
01NOV=511.726\*SSOI+2641.518  
01DEC=344.404\*SSOI+182.715\*HQSN+1734.55  
01JAN=9.769\*ELBI+12.046\*HEMI+13.611\*HOOM+35.139\*PERI+271.684\*SSOI+99.827\*HQSN+45.827\*HQSD+1095.649  
01FEB=19.568\*ELBI+17.270\*HEMI+19.132\*HOOM+48.512\*PERI+108.047\*SSOI+0.895\*DWRJ+413.051  
01MAR=14.894\*ELBI+15.609\*HEMI+15.630\*HOOM+38.099\*PERI+116.518\*SSOI+0.977\*DWRJ+0.147\*DWRF+284.621  
01APR=14.977\*ELBI+15.429\*HEMI+14.459\*HOOM+16.820\*SHAI+114.608\*SSOI+0.860\*DWRJ+0.150\*DWRF  
+0.406\*DWRM-209.674  
01MAY=10.768\*ELBI+9.659\*HEMI+9.571\*HOOM+11.370\*SHAI+7.540\*LSLI+84.136\*SSOI+1.000\*DWRA+9.134  
01JUN=6.818\*ELBI+6.197\*HEMI+6.424\*HOOM+7.796\*SHAI+4.684\*LSLI+1.000\*DWRA+1.000\*DWRM+194.873

April-July 71-yr median inflow for the 1928-1999 period = 2702 KAF  
April-July normal inflow for the 1971-2000 period = 2645 KAF

% Chance that OBSERVED will be > than given value

|                           | % Median | % Normal | KAF  | 1%   | 5%   | 20%  | 50%  | 80%  | 95%  | 99%  |
|---------------------------|----------|----------|------|------|------|------|------|------|------|------|
| 01Oct April-July Forecast | 105      | 108      | 2846 | 4567 | 4057 | 3467 | 2846 | 2226 | 1635 | 1126 |
| 01Nov April-July Forecast | 105      | 108      | 2846 | 4567 | 4057 | 3467 | 2846 | 2226 | 1635 | 1126 |
| 01Dec April-July Forecast | 105      | 108      | 2844 | 4406 | 3944 | 3407 | 2844 | 2281 | 1745 | 1283 |
| 01Jan April-July Forecast |          |          |      |      |      |      |      |      |      |      |
| 01Feb April-July Forecast |          |          |      |      |      |      |      |      |      |      |
| 01Mar April-July Forecast |          |          |      |      |      |      |      |      |      |      |
| 01Apr April-July Forecast |          |          |      |      |      |      |      |      |      |      |
| 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.