DWORSHAK APRIL-JULY INFLOW FORECAST
MAY 2005 FORECAST

End of Month	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
ELBI ELK BUTTE	-	-	9.9	12.6	13.5	18.8	15.1		
HEMI HEMLOCK	-	-	13.5	17.6	19.6	25.8	24.7		
HOOM HOODOO BASIN	-	-	12.2	17.0	18.7	26.1	28.4		
PERI PIERCE RG S	-	-	1.2	2.8	2.0	-	-		
SHAI SHANGHI SUM	-	-	-	-	-	8.1	0.5		
LSLI LOST LAKE	-	-	-	-	-	-	-		
EKRI ELK RIVER 1S	-	-	4.8	-	-	-	-		
DWR AVERAGE KAF	-	-	-	297.9	207.1	307.8	510.3		
ASOI July-Aug SOI	-1.5	-	-	-	-	-	-		
SSOI July-Sep SOI	-	-1.9	-	-	-	-	-		
OSOI July-Oct SOI	-	-	-2.2	-	-	-	-		
NSOI July-Nov SOI	-	-	-	-3.1	-	-	-		
DSOI July-Dec SOI	-	-	-	-	-4.2	-4.2	-		
DWORSHAK FC SPACE				728	508	230	118		
DWORSHAK FC ELEV	see note 2/			1556.3	1570.8	1587.5	1593.7		
DWORSHAK FOM ELEV	1520.9	1523.6	1531.3	1548.5	1557.2	1565.1	1578.5	1592.4	

- = 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 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	84	86	2275	3982	3477	2891	2275	1660	1074	569
01Nov April-July Forecast	85	87	2303	3929	3448	2889	2303	1717	1158	677
01Dec April-July Forecast	88	90	2370	4025	3535	2966	2370	1773	1205	715
01Jan April-July Forecast	71	72	1914	3234	2843	2389	1914	1438	984	593
01Feb April-July Forecast	61	62	1640	2813	2466	2063	1640	1217	814	467
01Mar April-July Forecast	53	54	1423	2407	2116	1778	1423	1069	731	440
01Apr April-July Forecast	49	50	1321	2168	1917	1626	1321	1016	725	474
01May April-July Forecast	50	51	1344	2172	1927	1642	1344	1045	761	516
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 Ken Soderlind, 503-808-3950, Chan Modini, 503-808-3958, Arun Mylvahanan, 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.

2/ The flood control elevations for 15 and 30 April are based on a level one operational constraint regarding snow covered area. Based on an estimated snow covered area of 40 percent for 15 April and 25 percent for 30 April, the estimated flood control elevations for those two respective dates are 1587.5 and 1593.7 ft. This level one operational constraint is necessary to ensure that the spillway is able to safely pass flood waters if a design flood event were to occur. Snow covered area estimates are updated weekly.