Dworshak 1-April Forecast Calculation WY 2006

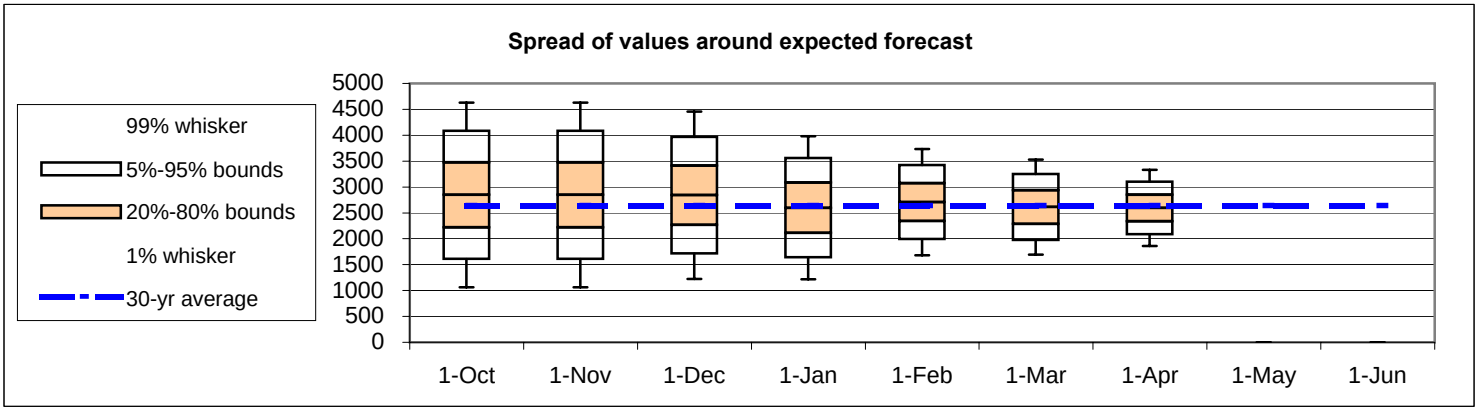
Dworshak Flood Control

Most Probable Apr-Jul Runoff Volume	2593	KAF
30-Apr Flood Control Space	1133	KAF
30-Apr Flood Control Elevation	1527.3	ft

% Normal (1960-1999)	% Median (1929-1999)
98%	96%

Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	1-Oct	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
First-of-Month Elev	1518.7	1517.5	1518.3	1524.2	1539.8	1524.9	1532.3		
End-of-Month FC Space	--	--	700	950	1175	1225	1133		
End-of-Month FC Elev	--	--	1558.2	1540.8	1524.2	1520.4	1527.3		



Apr-Jul Runoff Forecast Calculation:

Variable	*Month*	*Observed Value*	*% of Average*	*Regression Coefficient*	*Marginal Runoff (KAF)*
		A		B	=A*B
SOI	*Sep*	0.40		114.61	45.8
Elk Butte SWE	*1-Apr*	33.60	83%	14.98	503.2
Hemlock Butte SWE	*1-Apr*	44.70	91%	15.43	689.7
Hoodoo Basin SWE	*1-Apr*	46.60	103%	14.46	673.8
Shanghi Summit SWE	*1-Apr*	26.30	100%	16.82	442.4
DWR January Inflow	*Jan*	337.60	166%	0.860	290.3
DWR February Inflow	*Feb*	170.60	62%	0.150	25.6
DWR March Inflow	*Mar*	325.90	82%	0.406	132.3
Intercept		1		-209.67	-209.7
	1-Apr Forecast (KAF)			∑	2593.5

Notes:
1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Ken Soderlind (503 808-3950), Patti Etzel (503 808-3958) or John McCoskery (503 808-3951).
2. Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
3. 15-Dec and 31-Dec flood control space is fixed at 700 KAF.

Data Station	*Sept*	*Nov*	*Dec*	*1-Jan*	*1-Feb*	*1-Mar*	*1-Apr*	*1-May*	*1-Jun*
Climate (Stdzd SOI)									
September SOI	0.40								
Precipitation (monthly depth, inches)									
Headquarters, ID		5.30	6.40						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				8.7	23.6	28.3	33.6	--	--
Hemlock Butte, ID				13.8	30.5	37.0	44.7	--	--
Hoodoo Basin, MT				17.1	33.2	41.0	46.6	--	--
Pierce RS,ID				2.5	6.7	7.5			
Shanghi Summit, ID							26.3	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				338	171	326	--	--	--