

# Dworshak : May Runoff Forecast & Flood Control Calculation

WY 2007

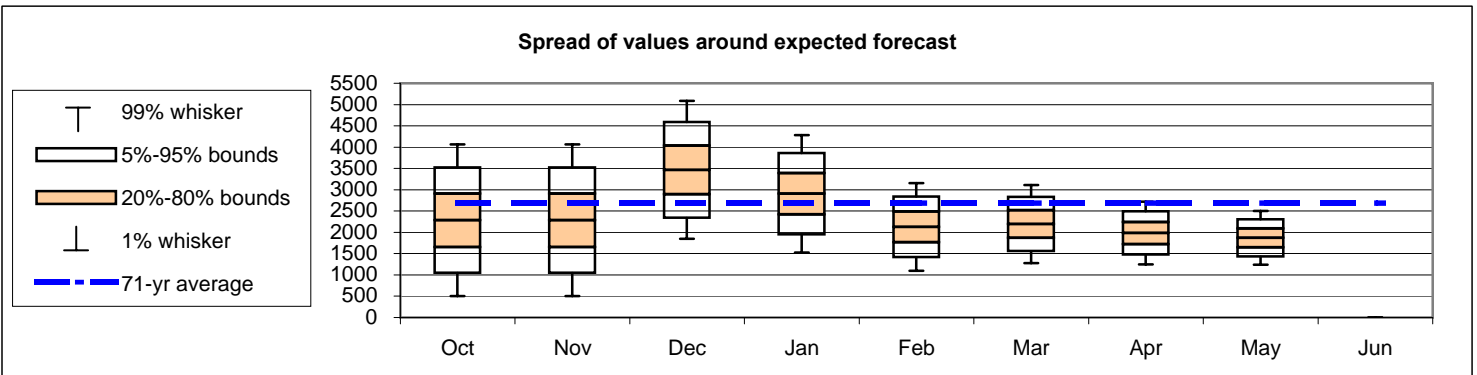
## Runoff Forecast and Flood Control

Most Probable Runoff Volume	Apr-Jul	1868	KAF
	May-Jul	1299	KAF

1929-1999 Average	Percent of Average
2683	70%
1980	66%

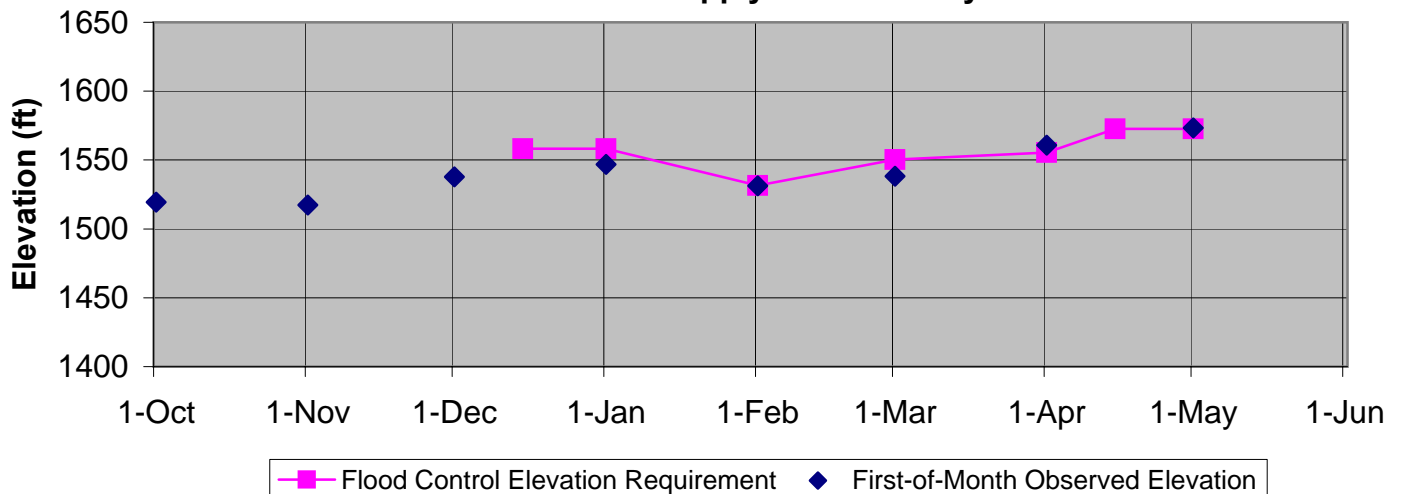
## Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	2283	2283	3465	2905	2126	2192	1982	1868	
First-of-Month Elev	1519.51	1517.31	1537.71	1546.94	1531.2	1538.2	1560.67	1573.42	
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1078	814	742	479	479	
Flood Control Elevation	--	1558.2	1558.2	1531.4	1550.4	1555.4	1572.6	1572.6	



## Dworshak Flood Control Elevations - 2007

Latest water supply forecast: May



### Notes:

- 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 Low (503 808-3958), Arun Mylvahanan (503 808-3961) or John McCoskery (503 808-3951).
- Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
- 15-Dec and 31-Dec flood control space is fixed at 700 KAF.

## Dworshak : May Runoff Forecast & Flood Control Calculation

May-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
SOI	Sep	-0.70		84.14	-58.9
Elk Butte SWE	1-May	24.00	66%	10.77	258.4
Hemlock Butte SWE	1-May	35.50	75%	9.66	342.9
Hoodoo Basin SWE	1-May	33.90	74%	9.57	324.5
Shanghi Summit SWE	1-May	7.60	41%	11.37	86.4
Lost Lake SWE	1-May	44.70	74%	7.54	337.0
Intercept		1		9.13	9.1
1-May Forecast (KAF)				Σ	1299.5

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	-0.70								
<b>Precipitation (monthly depth, inches)</b>									
Headquarters, ID		10.79	4.36						
<b>Snow Water Equiv (first of month SWE depth, inches)</b>									
Elk Butte, ID				14.4	22.4	29.6	29.4	24.0	--
Hemlock Butte, ID				19.0	26.6	37.1	40.2	35.5	--
Hoodoo Basin, MT				18.2	24.6	31.7	34.5	33.9	--
Pierce RS, ID				3.0	6.0	7.9			
Shanghi Summit, ID							19.1	7.6	
Lost Lake, ID								44.7	--
<b>Streamflow (monthly volume, KAF)</b>									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				144	217	577	569	--	--