

# Dworshak : April Runoff Forecast & Flood Control Calculation

WY 2007

## Runoff Forecast and Non-Shifted Flood Control

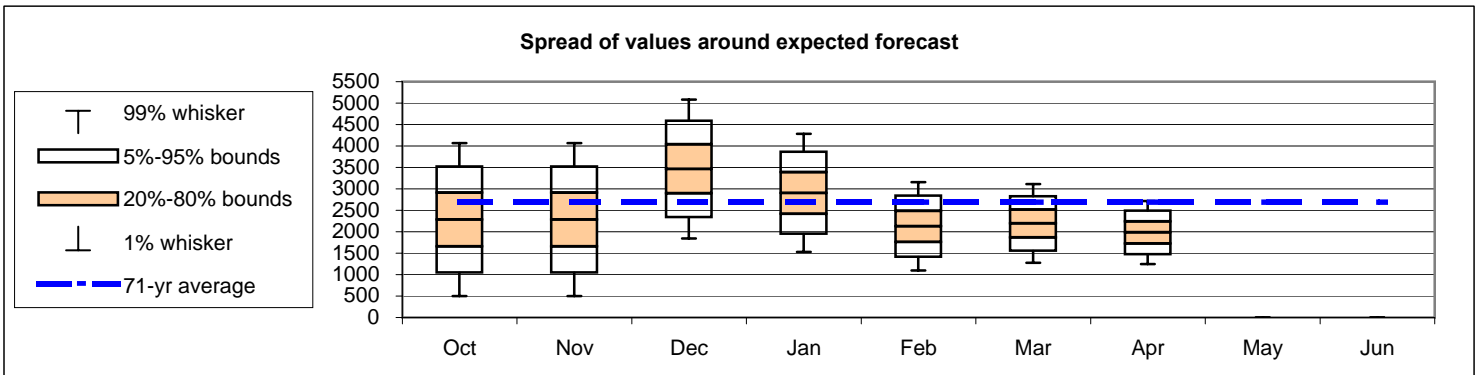
Most Probable Runoff Volume	Apr-Jul	1982	KAF
	May-Jul	1463	KAF
30-Apr Flood Control Space		479	KAF
30-Apr Flood Control Elevation		1572.6	ft

1929-1999 Average      Percent of Average

2683      74%  
1980      74%

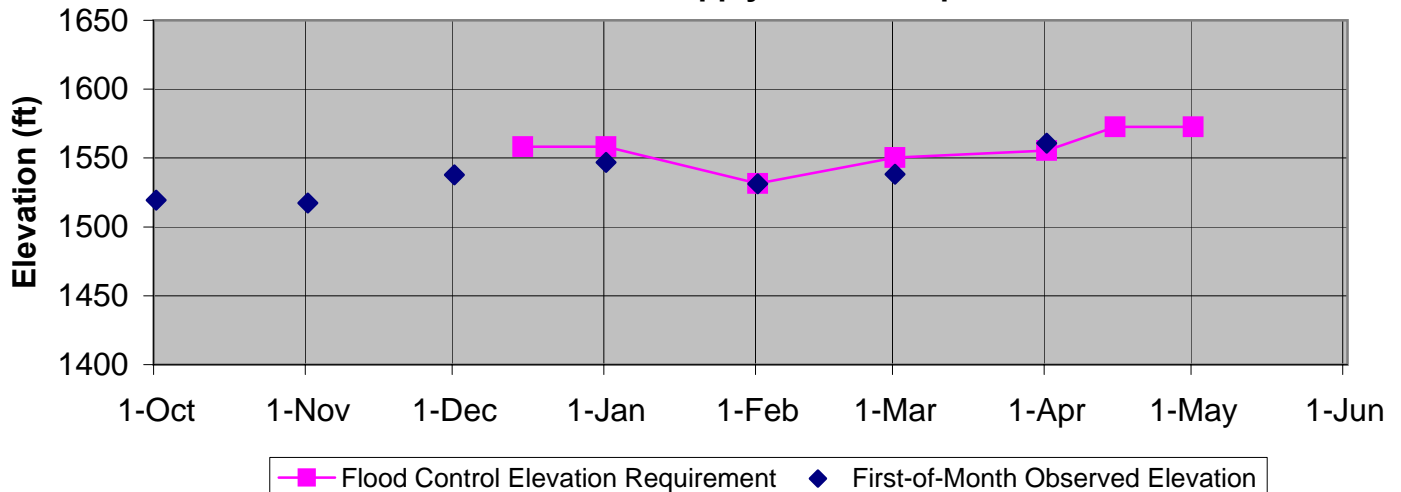
## Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	2283	2283	3465	2905	2126	2192	1982		
First-of-Month Elev	1519.5	1517.3	1537.7	1546.9	1531.2	1538.2	1560.7		
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: Apr



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.

# Dworshak : April Runoff Forecast & Flood Control Calculation

Apr-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
SOI	Sep	-0.70		114.61	-80.2
Elk Butte SWE	1-Apr	29.40	73%	14.98	440.3
Hemlock Butte SWE	1-Apr	40.20	82%	15.43	620.2
Hoodoo Basin SWE	1-Apr	34.50	76%	14.46	498.8
Shanghi Summit SWE	1-Apr	19.10	72%	16.82	321.3
DWR January Inflow	Jan	144.40	71%	0.860	124.2
DWR February Inflow	Feb	216.80	79%	0.150	32.5
DWR March Inflow	Mar	576.99	146%	0.406	234.3
Intercept		1		-209.67	-209.7
1-Apr Forecast (KAF)				Σ	1981.7

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	--	--
Hemlock Butte, ID				19.0	26.6	37.1	40.2	--	--
Hoodoo Basin, MT				18.2	24.6	31.7	34.5	--	--
Pierce RS, ID				3.0	6.0	7.9			
Shanghi Summit, ID							19.1	--	--
Lost Lake, ID								--	--
<b>Streamflow (monthly volume, KAF)</b>									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				144	217	577	--	--	--