

# Dworshak : June Runoff Forecast & Flood Control Calculation

WY 2012

## Runoff Forecast and Flood Control

<b>Most Probable Runoff Volume</b>	<b>Apr-Jul</b>	<b>3236</b>	<b>KAF</b>
	<b>May-Jul</b>	<b>2102</b>	<b>KAF</b>
	<b>Jun-Jul</b>	<b>1044</b>	<b>KAF</b>

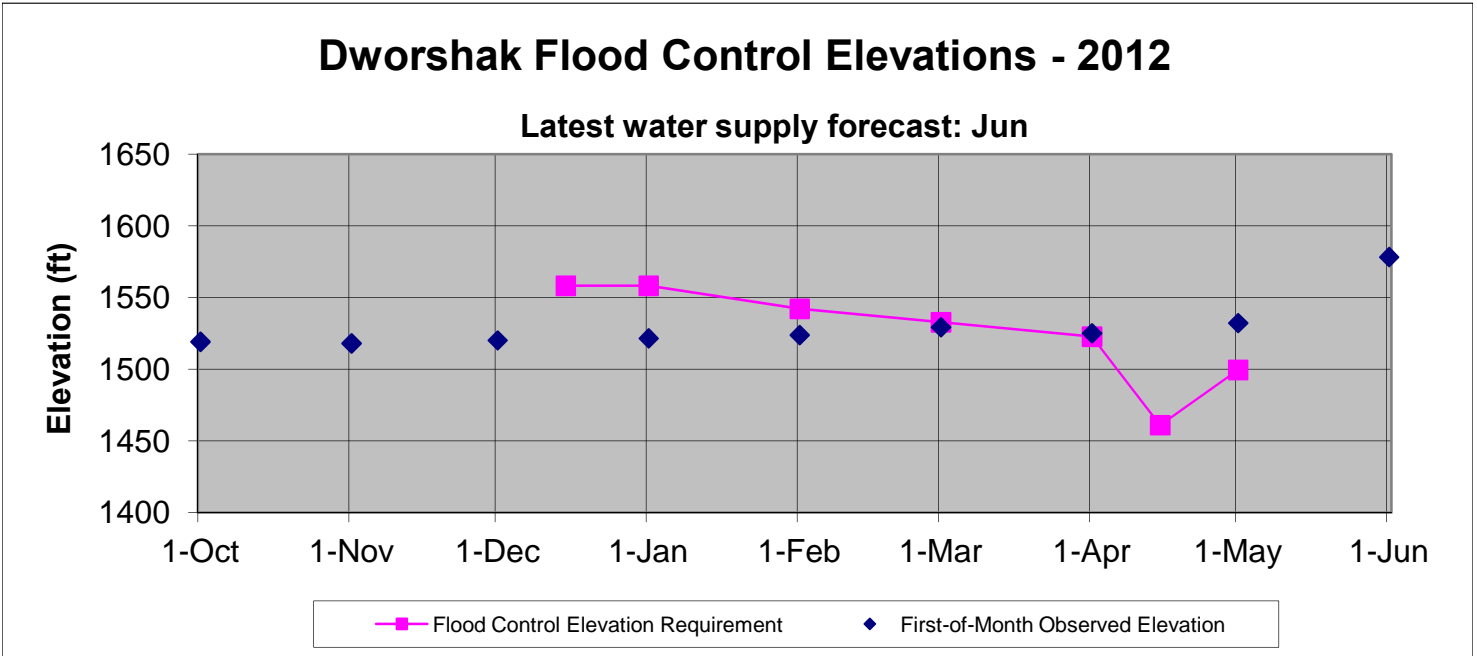
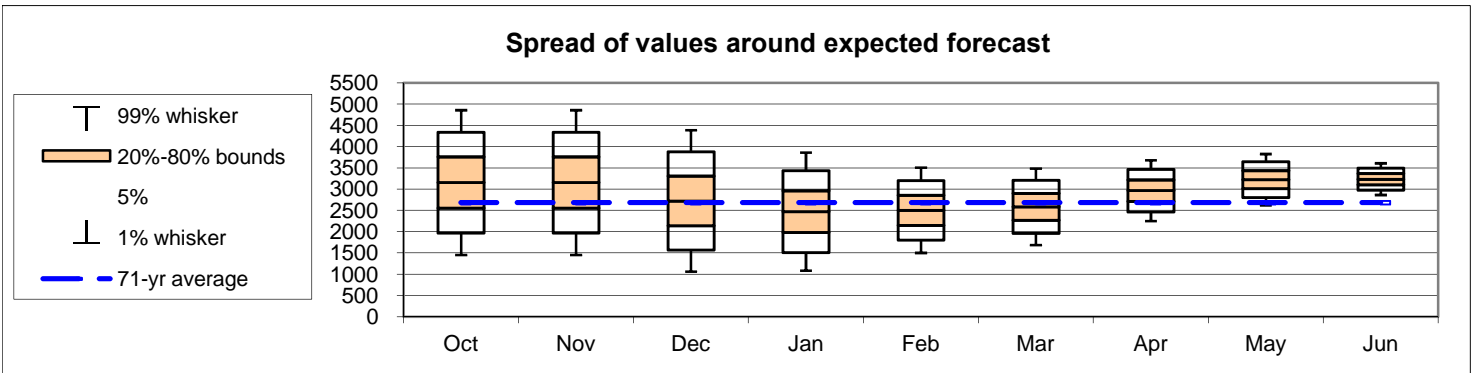
1929-1999 Average	Percent of Average
2683	121%
1980	106%
924	113%

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

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Apr-Jul Runoff Forecast</b>	3157	3157	2724	2473	2504	2585	2966	3226	3236
<b>First-of-Month Elev</b>	1519.2	1518.1	1520.2	1521.6	1523.9	1529.4	1525.1	1532.3	1578.3

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
<b>Flood Control Space</b>	--	700	700	931	1059	1193	1868	1479
<b>Flood Control Elevation</b>	--	1558.2	1558.2	1542.1	1532.9	1522.8	1461.0	1499.6



**Notes:**

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Jeremy Giovando (509 527 7053), or Steve Hall (509 527 7550).
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 : June Runoff Forecast & Flood Control Calculation

Jun-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
Elk Butte SWE	1-Jun	11.70	88%	6.84	80.0
Hemlock Butte SWE	1-Jun	25.80	99%	6.24	161.0
Hoodoo Basin SWE	1-Jun	39.80	140%	6.73	267.9
Lost Lake SWE	1-Jun	43.90	102%	5.10	223.9
Shanghi Summit SWE	1-May	19.70	107%	8.40	165.5
Intercept		1		145.39	145.4
1-Jun Forecast (KAF)				Σ	1043.6

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	1.00								
<b>Precipitation (monthly depth, inches)</b>									
Headquarters, ID		3.50	3.10						
<b>Snow Water Equiv (first of month SWE depth, inches)</b>									
Elk Butte, ID				10.5	22.6	30.4	38.6	30.5	11.7
Hemlock Butte, ID				15.0	29.1	40.3	53.8	48.0	25.8
Hoodoo Basin, MT				16.4	29.5	36.2	48.6	46.2	39.8
Pierce RS, ID				1.7	6.2	8.4			
Shanghi Summit, ID							30.7	19.7	
Lost Lake, ID								57.1	43.9
<b>Streamflow (monthly volume, KAF)</b>									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				121	177	454	1134	1059	--