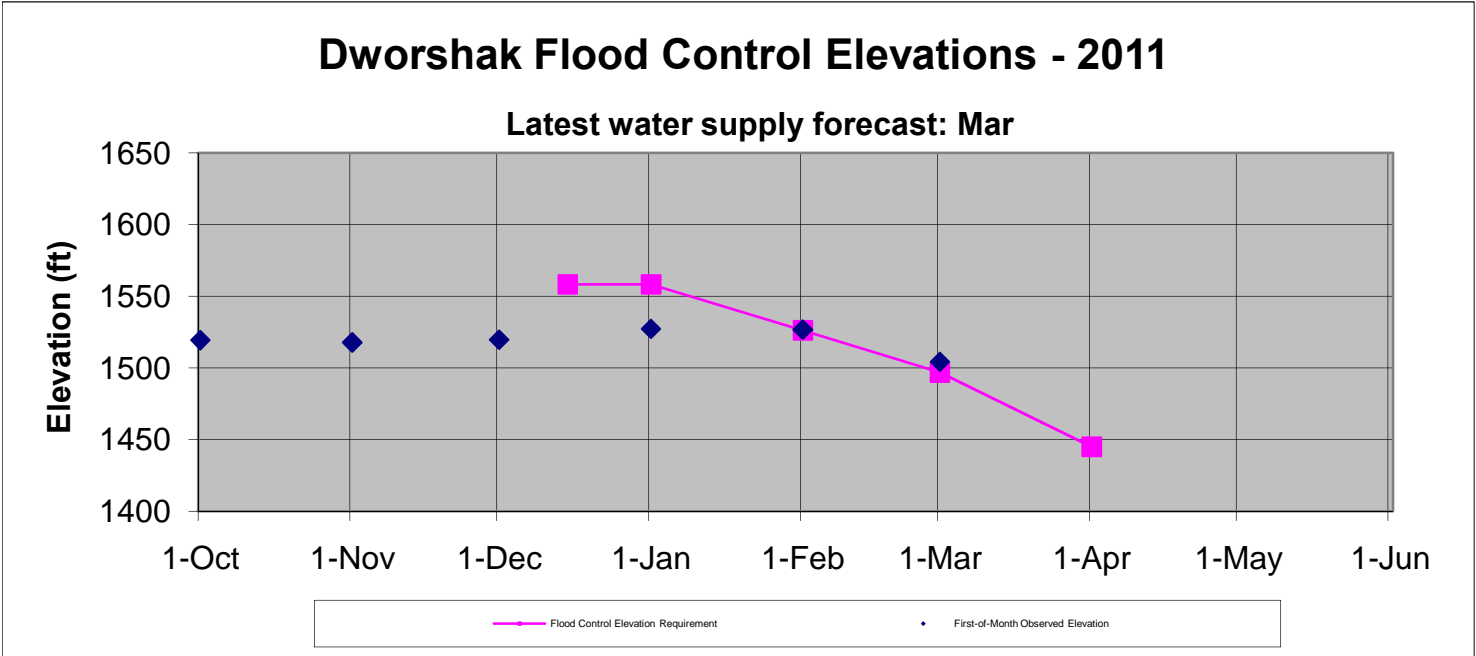
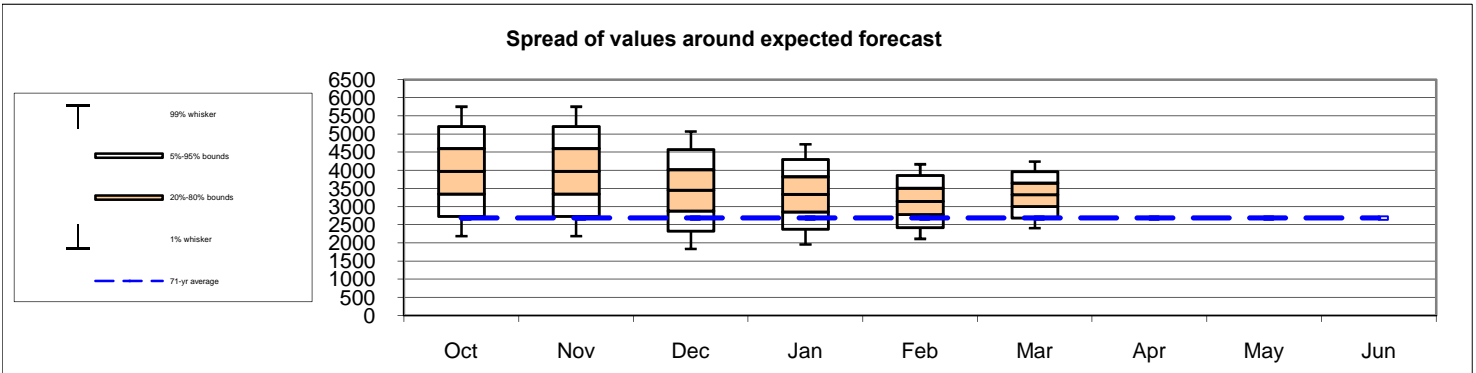


# Dworshak : March Runoff Forecast & Flood Control Calculation

WY 2011

Runoff Forecast and Flood Control				1929-1999 Average	Percent of Average				
Most Probable Runoff Volume	Apr-Jul	3329	KAF	2683	124%				
	May-Jul	2456	KAF	1980	124%				
31-Mar Flood Control Space		2016	KAF						
31-Mar Flood Control Elevation		1445.0	ft						
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	3972	3972	3452	3340	3142	3329			
First-of-Month Elev	1519.4	1517.8	1519.7	1527.3	1526.7	1504.3			
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1148	1510	2016			
Flood Control Elevation	--	1558.2	1558.2	1526.2	1496.8	1445.0			



- Notes:
- 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).
  - 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 : March 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	2.60		116.52	302.9
Elk Butte SWE	1-Mar	33.80	98%	14.89	503.4
Hemlock Butte SWE	1-Mar	45.40	112%	15.61	708.6
Hoodoo Basin SWE	1-Mar	40.50	106%	15.63	633.0
Pierce SWE	1-Mar	11.60	122%	38.10	441.9
DWR January Inflow	Jan	430.70	211%	0.977	420.8
DWR February Inflow	Feb	225.33	82%	0.147	33.1
Intercept		1		284.62	284.6
1-Mar Forecast (KAF)				Σ	3328.5

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	2.60								
<b>Precipitation (monthly depth, inches)</b>									
Headquarters, ID		4.50	5.80						
<b>Snow Water Equiv (first of month SWE depth, inches)</b>									
Elk Butte, ID				13.0	24.2	33.8	--	--	--
Hemlock Butte, ID				20.2	34.5	45.4	--	--	--
Hoodoo Basin, MT				17.5	31.1	40.5	--	--	--
Pierce RS, ID				6.1	8.2	11.6			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
<b>Streamflow (monthly volume, KAF)</b>									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				431	225	--	--	--	--