

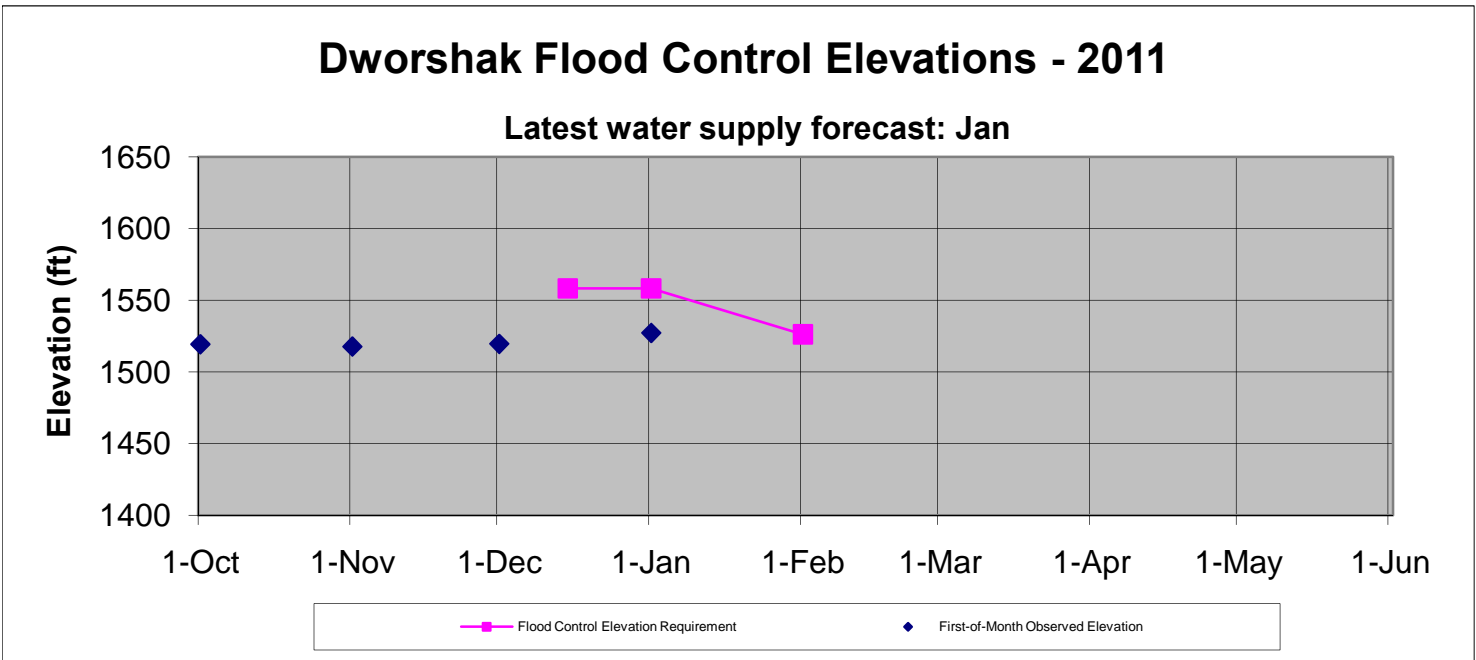
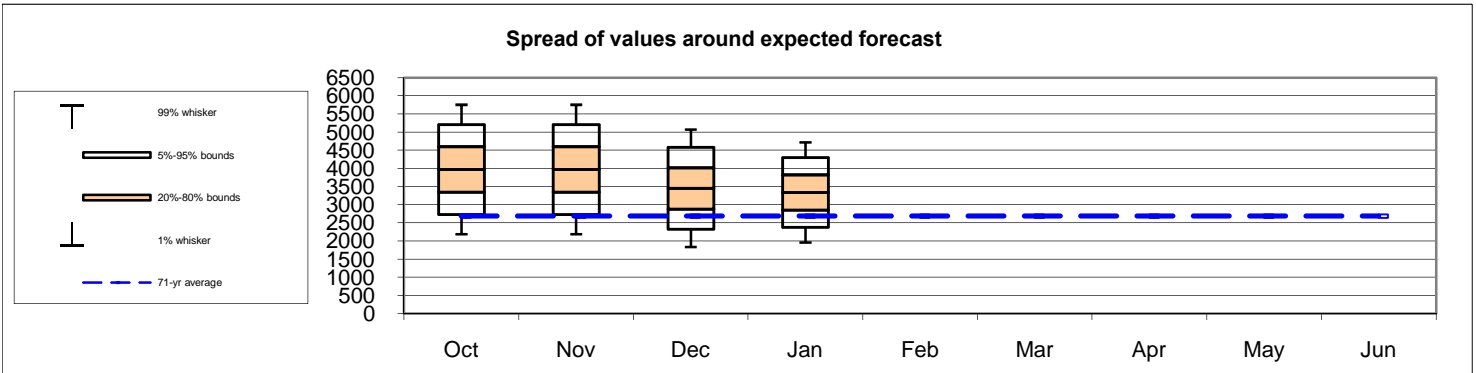
# Dworshak : January Runoff Forecast & Flood Control Calculation

WY 2011

Runoff Forecast and Flood Control			units
Most Probable Runoff Volume	Apr-Jul	3340	KAF
	May-Jul	2465	KAF
31-Jan Flood Control Space		1148	KAF
31-Jan Flood Control Elevation		1526.2	ft

1929-1999 Average	Percent of Average
2683	124%
1980	124%

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					
First-of-Month Elev	1519.4	1517.8	1519.7	1527.3					
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1148					
Flood Control Elevation	--	1558.2	1558.2	1526.2					



**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.

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Apr-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
SOI	Sep	2.60		271.68	706.4
Headquarters Precip	Nov	4.50	91%	99.83	449.2
Headquarters Precip	Dec	5.80	114%	45.83	265.8
Elk Butte SWE	1-Jan	13.0	78%	9.77	127.0
Hemlock Butte SWE	1-Jan	20.2	102%	12.05	243.3
Hoodoo Basin SWE	1-Jan	17.5	92%	13.61	238.2
Pierce SWE	1-Jan	6.1	142%	35.14	214.3
Intercept		1		1095.65	1095.6
1-Jan Forecast (KAF)				Σ	3339.9

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	--	--	--	--	--
Hemlock Butte, ID				20.2	--	--	--	--	--
Hoodoo Basin, MT				17.5	--	--	--	--	--
Pierce RS, ID				6.1	--	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
<b>Streamflow (monthly volume, KAF)</b>									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
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