

# Dworshak : February Runoff Forecast & Flood Control Calculation

WY 2012

## Runoff Forecast and Flood Control

Most Probable Runoff Volume	Apr-Jul	2504	KAF
	May-Jul	1848	KAF
28/29 Feb Flood Control Space		1059	KAF
28/29 Feb Flood Control Elevation		1532.9	ft

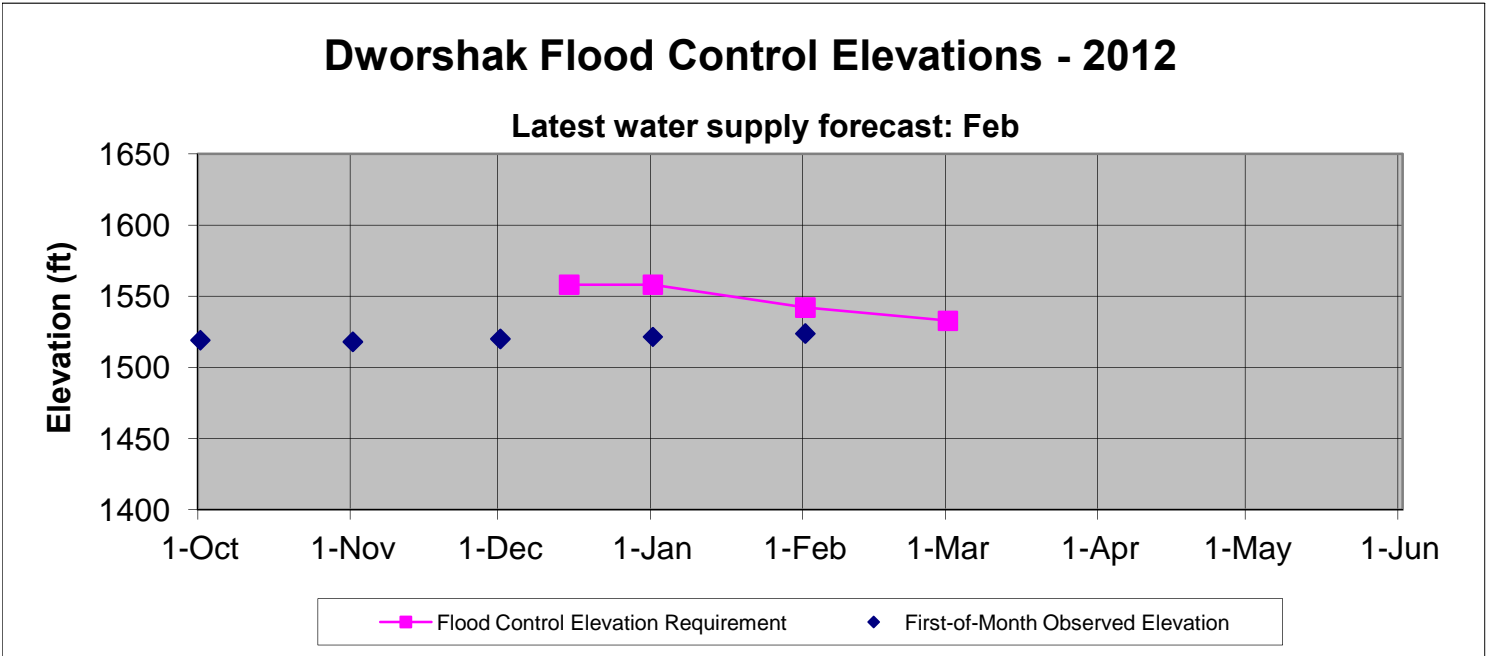
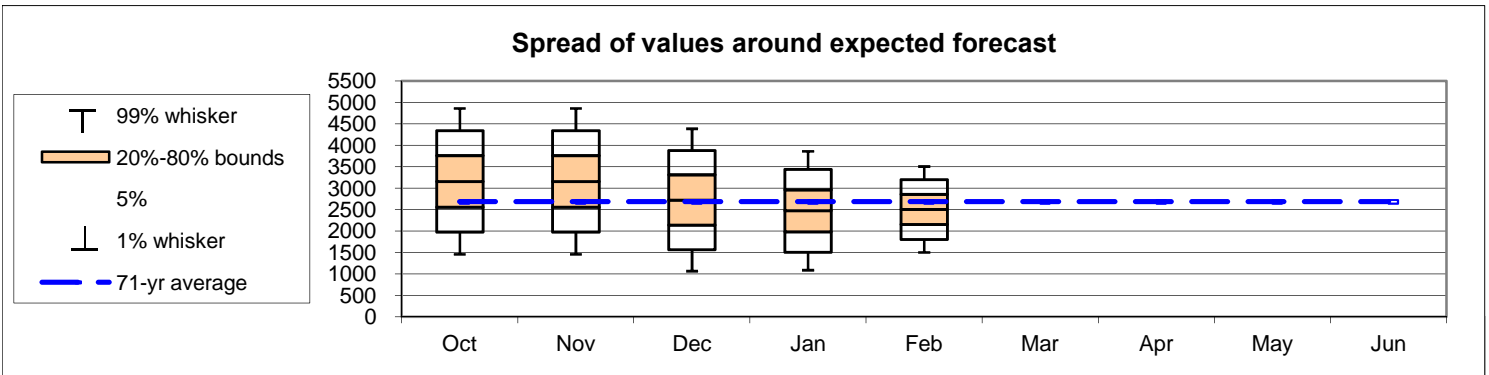
1929-1999 Average	Percent of Average
2683	93%
1980	93%

## 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	3157	3157	2724	2473	2504				
First-of-Month Elev	1519.2	1518.1	1520.2	1521.6	1523.9				

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr
Flood Control Space	--	700	700	931	1059		
Flood Control Elevation	--	1558.2	1558.2	1542.1	1532.9		



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.

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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	1.00		116.44	116.4
Elk Butte SWE	1-Feb	22.60	84%	21.02	475.1
Hemlock Butte SWE	1-Feb	29.10	91%	18.15	528.2
Hoodoo Basin SWE	1-Feb	29.50	98%	19.24	567.6
Pierce SWE	1-Feb	6.20	80%	50.18	311.1
DWR January Inflow	Jan	121.39	60%	0.790	95.9
Intercept		1		409.32	409.3
1-Feb Forecast (KAF)				Σ	2503.6

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	--	--	--	--
Hemlock Butte, ID				15.0	29.1	--	--	--	--
Hoodoo Basin, MT				16.4	29.5	--	--	--	--
Pierce RS, ID				1.7	6.2	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
<b>Streamflow (monthly volume, KAF)</b>				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				121	--	--	--	--	--