

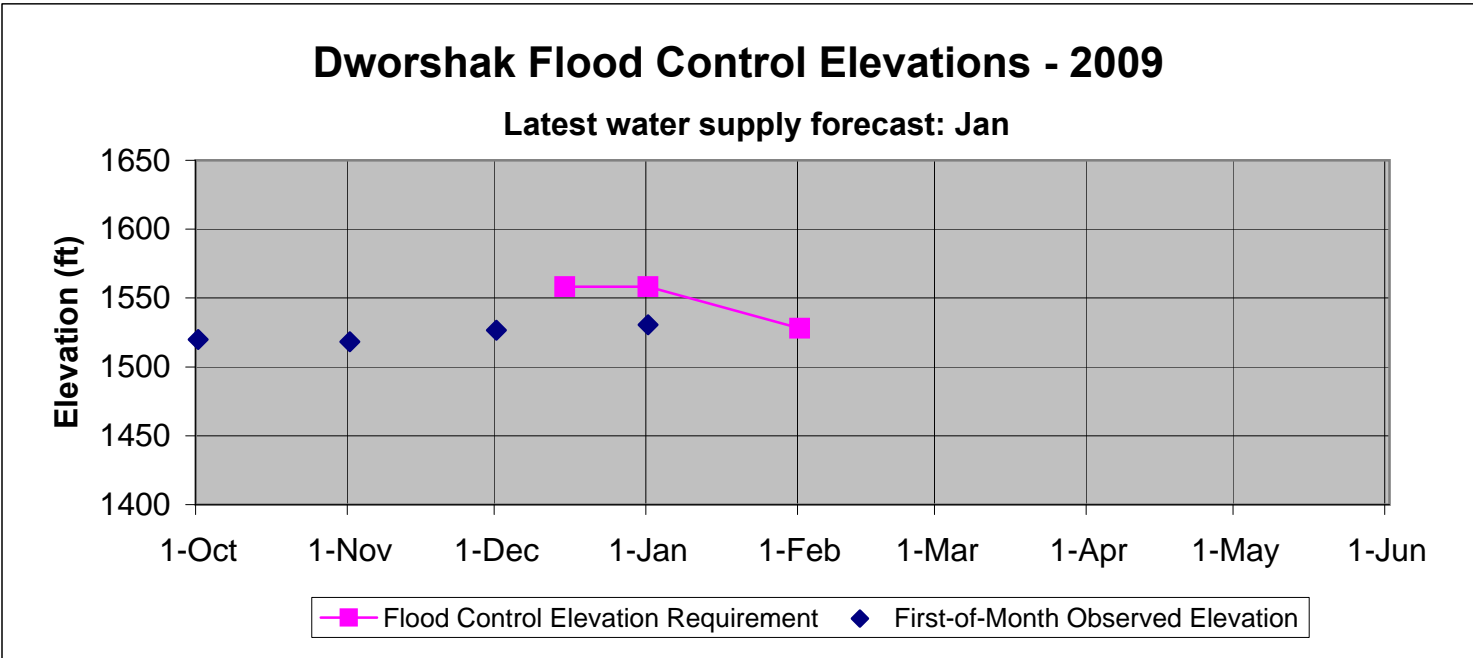
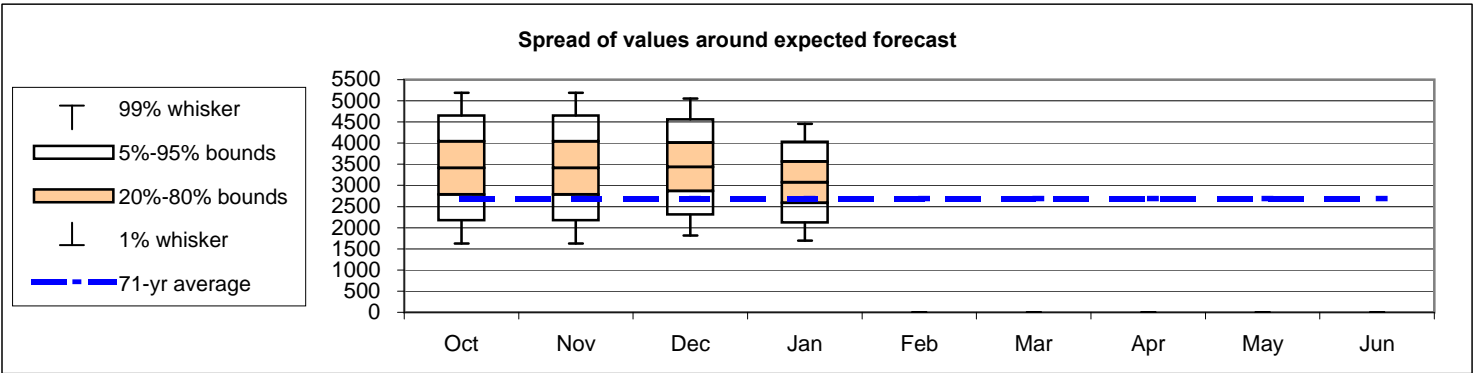
Dworshak : January Runoff Forecast & Flood Control Calculation

WY 2009

Runoff Forecast and Flood Control			units
Most Probable Runoff Volume	Apr-Jul	3075	KAF
	May-Jul	2270	KAF
31-Jan Flood Control Space		1124	KAF
31-Jan Flood Control Elevation		1528.0	ft

1929-1999 Average	Percent of Average
2683	115%
1980	115%

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	3409	3409	3437	3075					
First-of-Month Elev	1519.9	1518.4	1526.7	1530.6					
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1124					
Flood Control Elevation	--	1558.2	1558.2	1528.0					



Notes:

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Tracy Schwarz (509 527 7522), 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	1.50		271.68	407.5
Headquarters Precip	Nov	6.49	131%	99.83	647.9
Headquarters Precip	Dec	4.52	89%	45.83	207.1
Elk Butte SWE	1-Jan	12.5	75%	9.77	122.1
Hemlock Butte SWE	1-Jan	16.9	85%	12.05	203.6
Hoodoo Basin SWE	1-Jan	13.0	68%	13.61	176.9
Pierce SWE	1-Jan	6.1	142%	35.14	214.3
Intercept		1		1095.65	1095.6
1-Jan Forecast (KAF)				Σ	3075.2

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	1.50								
Precipitation (monthly depth, inches)									
Headquarters, ID		6.49	4.52						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				12.5	--	--	--	--	--
Hemlock Butte, ID				16.9	--	--	--	--	--
Hoodoo Basin, MT				13.0	--	--	--	--	--
Pierce RS, ID				6.1	--	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
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