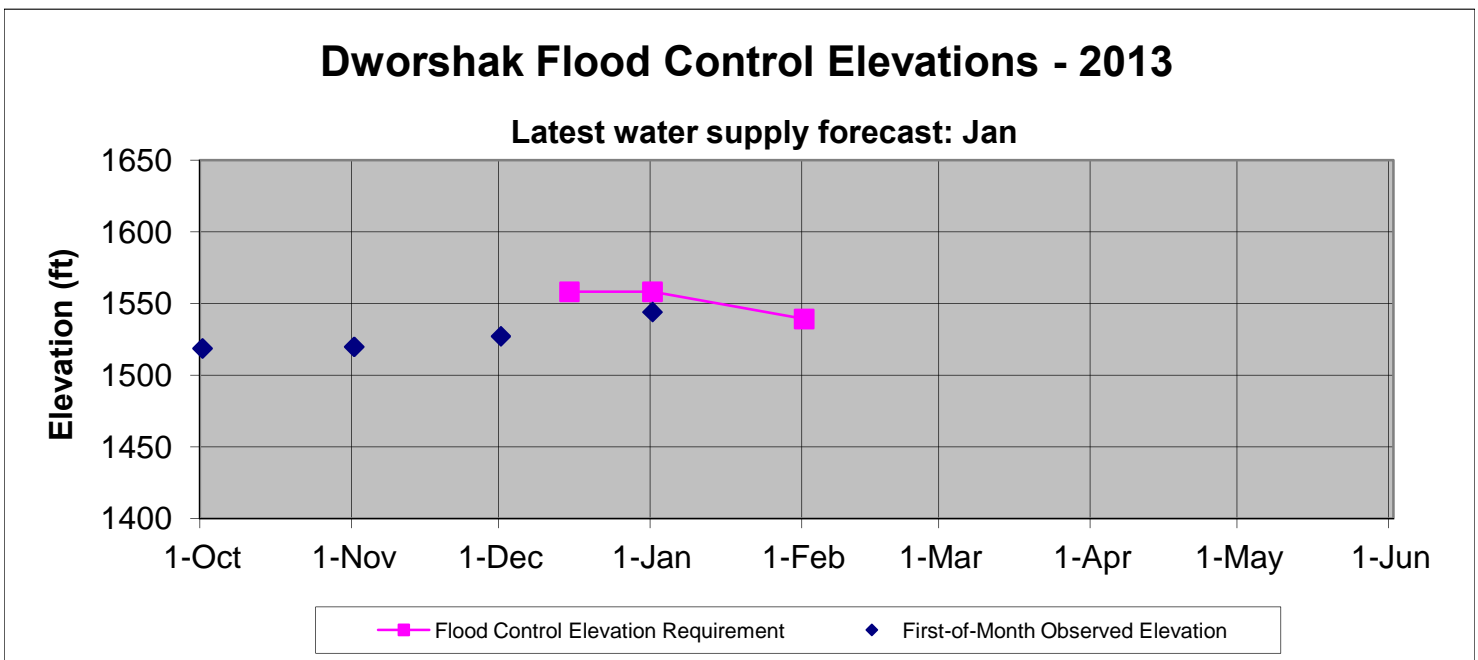
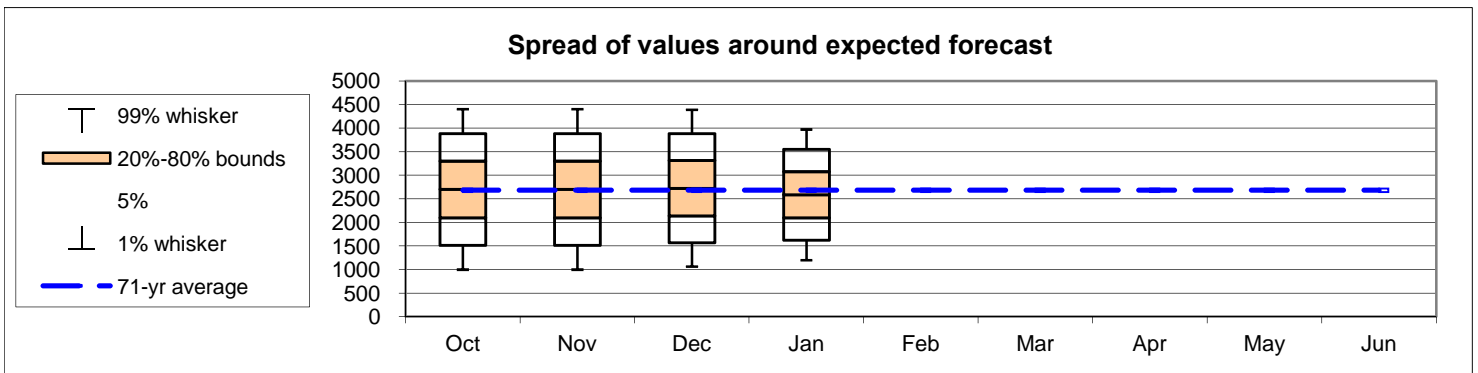


Dworshak : January Runoff Forecast & Flood Control Calculation

WY 2013

Runoff Forecast and Flood Control				1929-1999	Percent of				
				Average	Average				
Most Probable Runoff Volume	Apr-Jul	2587	KAF	2683	96%				
	May-Jul	1909	KAF	1980	96%				
31-Jan Flood Control Space		970	KAF						
31-Jan Flood Control Elevation		1539.3	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	2701	2701	2727	2587					
First-of-Month Elev	1518.8	1519.9	1527.3	1544.2					
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	970					
Flood Control Elevation	--	1558.2	1558.2	1539.3					



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 : January 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	0.20		335.76	67.2
Headquarters Precip	Nov	5.30	107%	63.63	337.2
Headquarters Precip	Dec	6.30	124%	73.57	463.5
Elk Butte SWE	1-Jan	12.6	75%	5.94	74.8
Hemlock Butte SWE	1-Jan	15.1	76%	11.29	170.5
Hoodoo Basin SWE	1-Jan	17.2	90%	12.05	207.3
Pierce SWE	1-Jan	1.9	44%	48.18	91.5
Intercept		1		1175.10	1175.1
1-Jan Forecast (KAF)				Σ	2587.1

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	0.20								
Precipitation (monthly depth, inches)									
Headquarters, ID		5.30	6.30						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				12.6	--	--	--	--	--
Hemlock Butte, ID				15.1	--	--	--	--	--
Hoodoo Basin, MT				17.2	--	--	--	--	--
Pierce RS, ID				1.9	--	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				--	--	--	--	--	--