

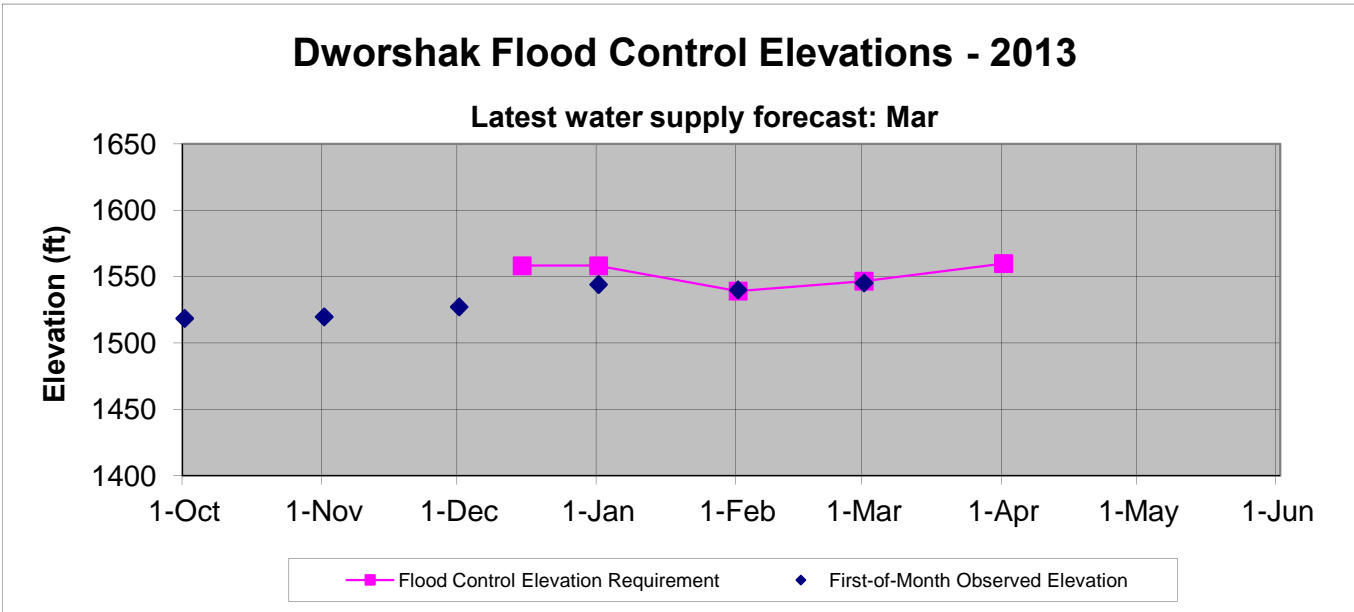
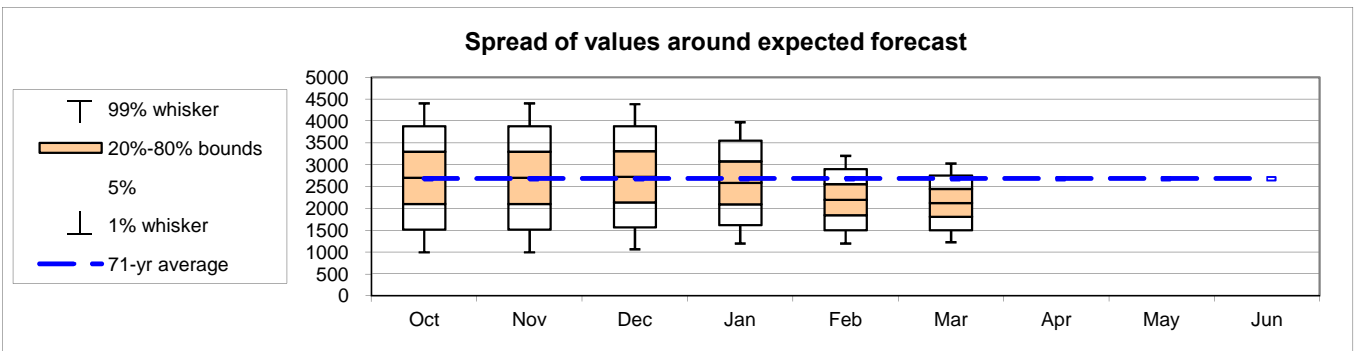
Dworshak : March Runoff Forecast & Flood Control Calculation

WY 2013

Runoff Forecast and Flood Control			
Most Probable Runoff Volume	Apr-Jul	2128	KAF
	May-Jul	1571	KAF
31-Mar Flood Control Space		675	KAF
31-Mar Flood Control Elevation		1560.0	ft

1929-1999 Average	Percent of Average
2683	79%
1980	79%

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	2202	2128			
First-of-Month Elev	1518.8	1519.9	1527.3	1544.2	1540.2	1545.3			
Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr		
Flood Control Space	--	700	700	970	867	675			
Flood Control Elevation	--	1558.2	1558.2	1539.2	1546.7	1560.0			



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	0.20		123.33	24.7
Elk Butte SWE	1-Mar	25.90	75%	15.95	413.1
Hemlock Butte SWE	1-Mar	32.00	79%	15.98	511.4
Hoodoo Basin SWE	1-Mar	29.90	78%	15.41	460.8
Pierce SWE	1-Mar	6.20	65%	38.57	239.1
DWR January Inflow	Jan	158.08	78%	0.860	135.9
DWR February Inflow	Feb	162.05	59%	0.220	35.7
Intercept		1		307.66	307.7
1-Mar Forecast (KAF)				Σ	2128.3

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	1-Jul
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	21.0	25.9	--	--	--	
Hemlock Butte, ID				15.1	25.6	32.0	--	--	--	
Hoodoo Basin, MT				17.2	23.8	29.9	--	--	--	
Pierce RS, ID				1.9	5.6	6.2				
Shanghi Summit, ID							--	--		
Lost Lake, ID								--	--	
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun	Jul
Dworshak Inflow				158	162	--	--	--	--	--

Approval:

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