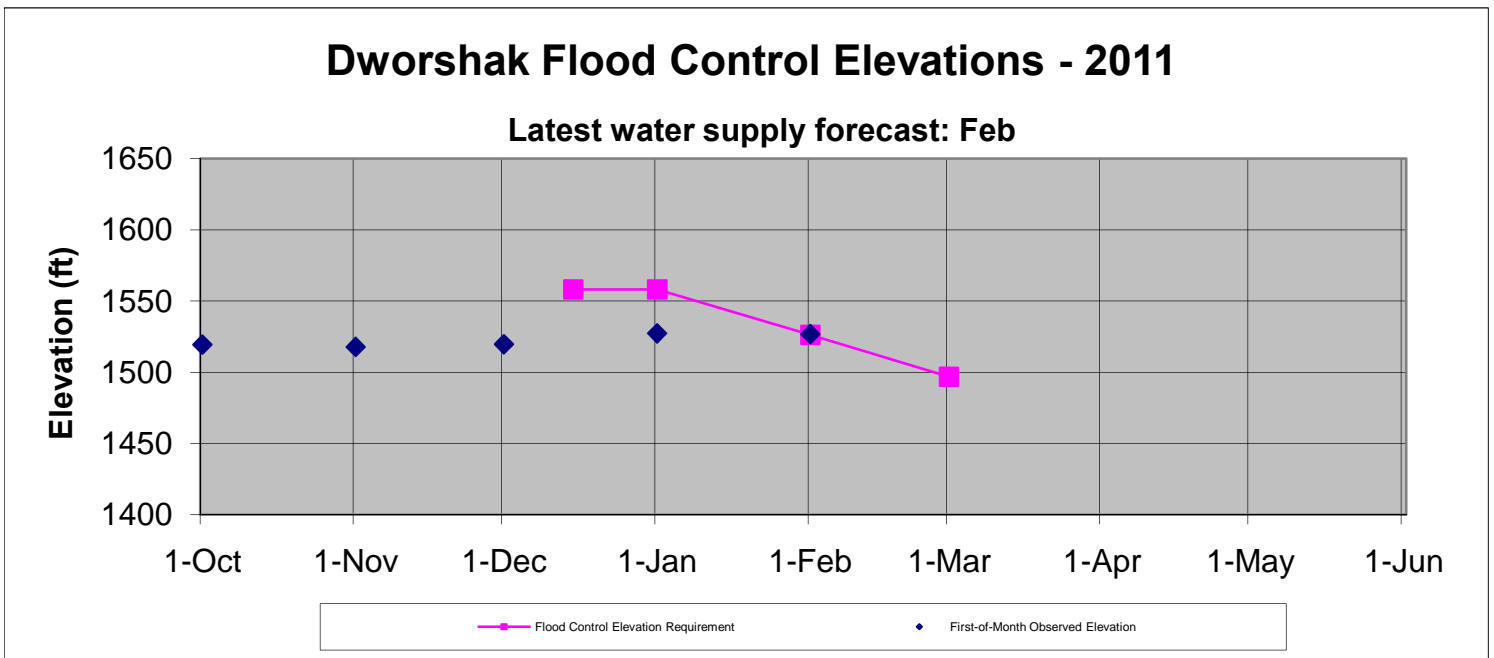
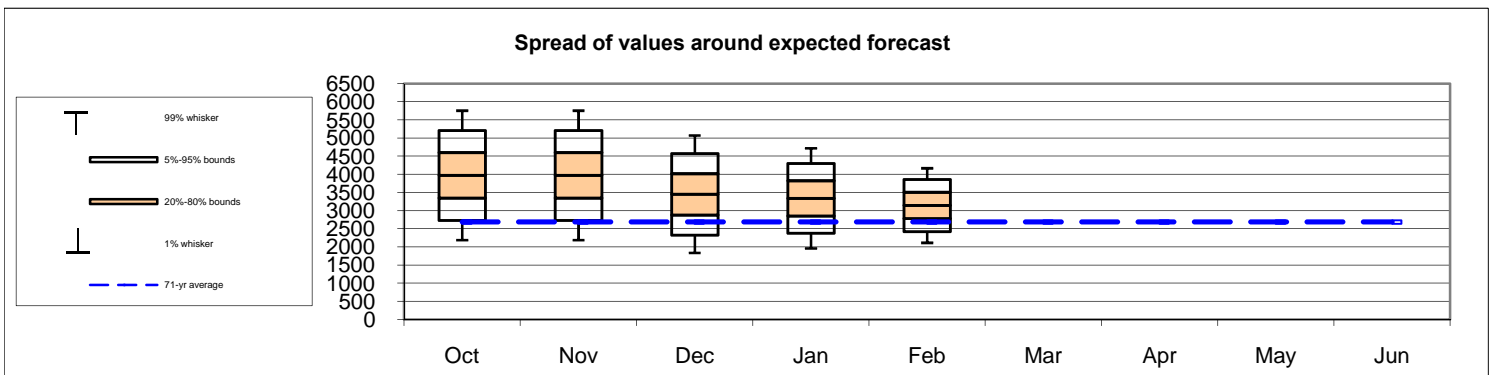


Dworshak : February Runoff Forecast & Flood Control Calculation

WY 2011

Runoff Forecast and Flood Control				1929-1999 Average	Percent of Average				
Most Probable Runoff Volume	Apr-Jul	3142	KAF	2683	117%				
	May-Jul	2319	KAF	1980	117%				
28/29 Feb Flood Control Space		1510	KAF						
28/29 Feb Flood Control Elevation		1496.8	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	3972	3972	3452	3340	3142				
First-of-Month Elev	1519.4	1517.8	1519.7	1527.3	1526.7				
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1148	1510				
Flood Control Elevation	--	1558.2	1558.2	1526.2	1496.8				



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 : February 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	2.60		108.05	280.9
Elk Butte SWE	1-Feb	24.20	90%	19.57	473.5
Hemlock Butte SWE	1-Feb	34.50	108%	17.27	595.8
Hoodoo Basin SWE	1-Feb	31.10	103%	19.13	595.0
Pierce SWE	1-Feb	8.20	106%	48.51	397.8
DWR January Inflow	Jan	430.70	211%	0.895	385.5
Intercept		1		413.05	413.1
1-Feb Forecast (KAF)				Σ	3141.6

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	2.60								
Precipitation (monthly depth, inches)									
Headquarters, ID		4.50	5.80						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				13.0	24.2	--	--	--	--
Hemlock Butte, ID				20.2	34.5	--	--	--	--
Hoodoo Basin, MT				17.5	31.1	--	--	--	--
Pierce RS, ID				6.1	8.2	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				431	--	--	--	--	--