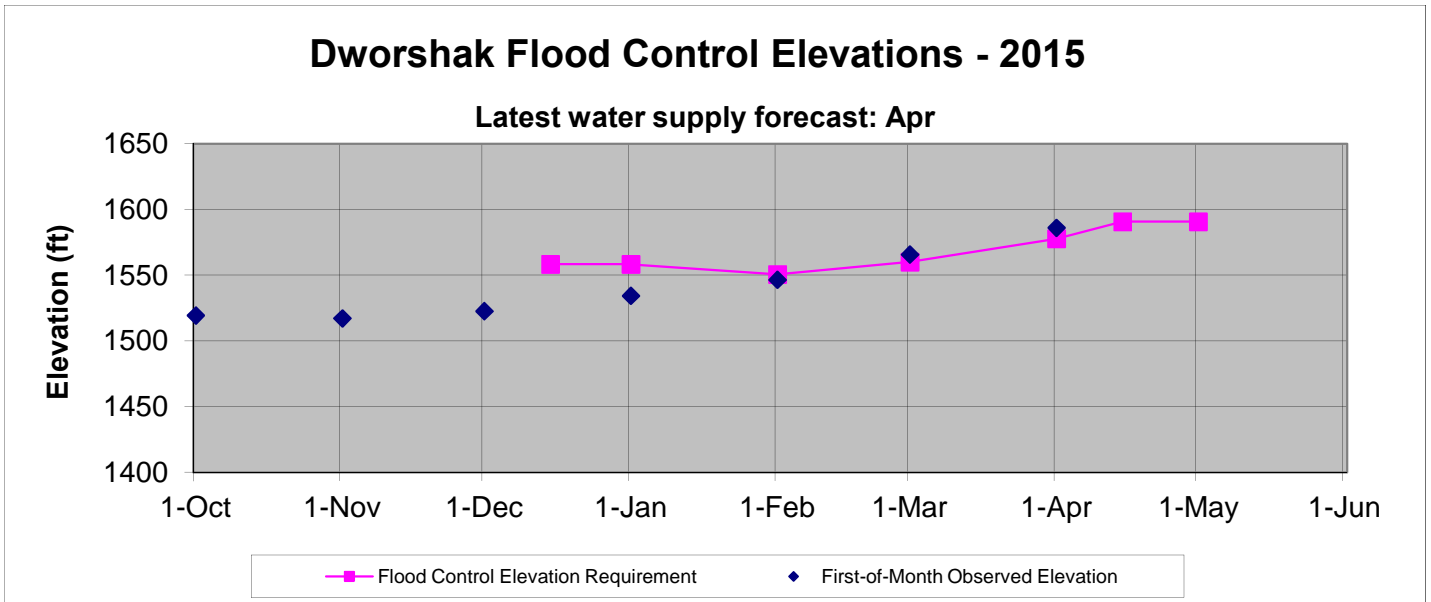
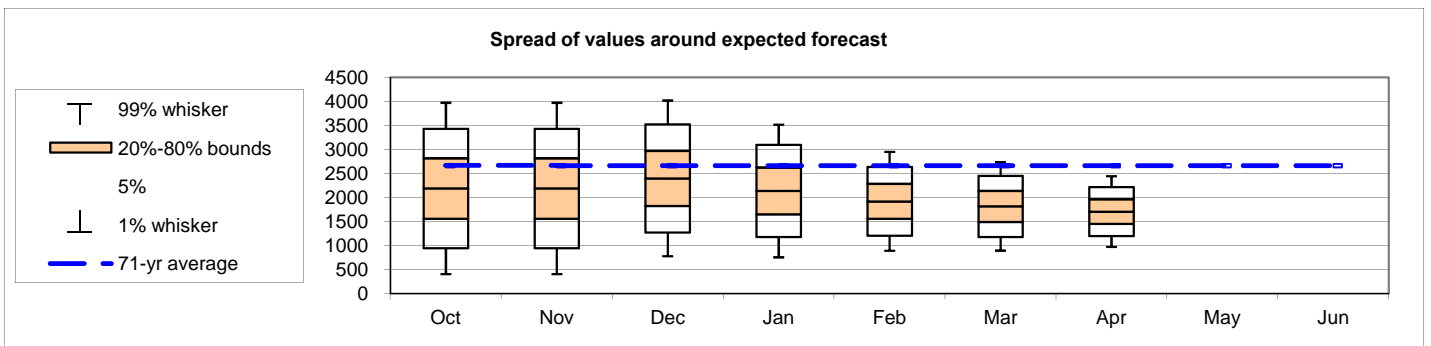


Dworshak : April Runoff Forecast & Flood Control Calculation

WY 2015

Runoff Forecast and Non-Shifted Flood Control				1981-2010 Average	Percent of 30yr Average	1929-2010 Average	Percent of Average		
Most Probable Runoff Volume	Apr-Jul	1709	KAF	2438	70%	2663	64%		
	May-Jul	1253	KAF	1784	70%	1953	64%		
30-Apr Flood Control Space		172	KAF						
30-Apr Flood Control Elevation		1590.7074	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	2189	2189	2398	2136	1922	1815	1709		
First-of-Month Elev	1519.4	1517.2	1522.7	1534.4	1546.5	1565.7	1586.1		
Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr		
Flood Control Space	--	700	700	811	674	397	172	172	
Flood Control Elevation	--	1558.2	1558.2	1550.6	1560.0	1577.7	1590.7	1590.7	



- 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.
 4. 15-Apr target elevation does not reflect flood control shift operation between Dworshak and Grand Coulee.
 5. 30-Apr target elevation may vary as runoff occurs throughout the month of April.

Dworshak : April 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	-0.70		171.32	-119.9
HQSI Cumulative Precip	Oct-Date	29.70	118%	22.32	662.9
Elk Butte SWE	1-Apr	17.9	45%	11.61	207.8
Hoodoo Basin SWE	1-Apr	25.8	57%	10.27	265.0
Sherwin SWE	1-Apr	0.0	0%	19.49	0.0
Lost Lake SWE	1-Apr	30.2	50%	7.91	238.9
Crater meadows SWE	1-Apr	35.1	77%	13.37	469.3
Intercept		1		-15.43	-15.4
1-Apr Forecast (KAF)				Σ	1708.5

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	-0.70								
Precipitation (in)									
Oct									
Headquarters, ID	2.60	7.10	5.50	5.30	4.40	4.80	--		
Cumulative HQSI Data	2.60	9.70	15.20	20.50	24.90	29.70	--		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				10.5	17.3	18.5	17.9		
Cool Creek, ID				16.7	23.5				
Hoodoo Basin, MT				14.0	20.2	24.2	25.8	--	--
Sherwin, ID				1.4	3.4	0.3	0.0		
Shanghi Summit, ID								--	--
Lost Lake, ID				16.1	24.1	28.2	30.2	--	--
Hemlock, ID								--	--
Crater Meadows Mar						34.9	35.1		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				260	584	569	--	--	--

Approval:

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