

Dworshak : May Runoff Forecast & Flood Control Calculation

WY 2008

Runoff Forecast and Flood Control

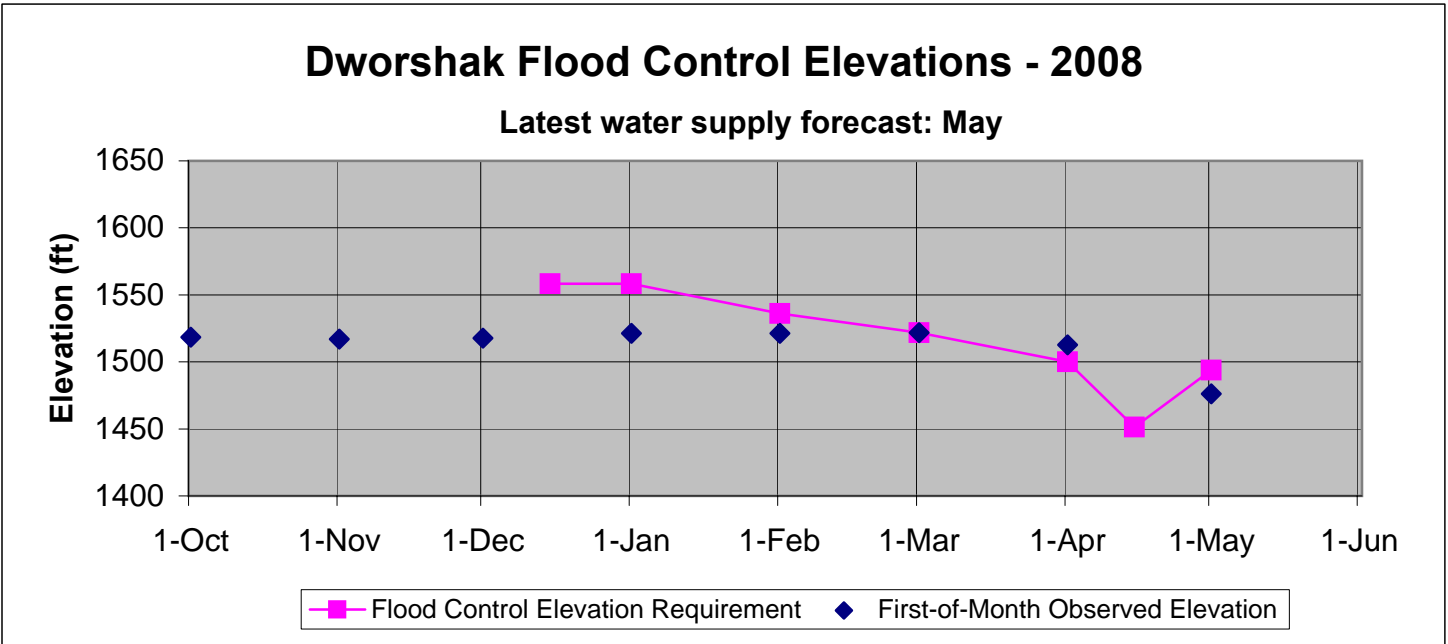
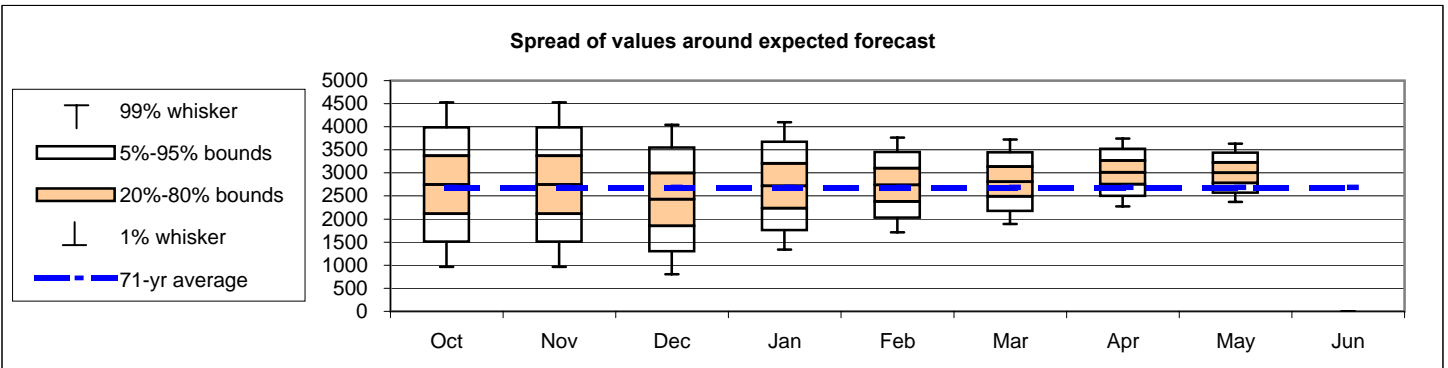
Most Probable Runoff Volume	Apr-Jul	3003	KAF
	May-Jul	2680	KAF

1929-1999 Average	Percent of Average
2683	112%
1980	135%

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	2744	2744	2425	2717	2738	2810	3010	3003	
First-of-Month Elev	1518.4	1517.1	1517.7	1521.2	1521.3	1521.8	1512.6	1476.1	

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr
Flood Control Space	--	700	700	1015	1206	1473	1958
Flood Control Elevation	--	1558.2	1558.2	1536.1	1521.8	1500.1	1451.3



Notes:

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Ken Soderlind (503 808-3950), Patti Low (503 808-3958), or John McCoskery (503 808-3951).
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. 30-Apr flood control elevation is based on the 95% confidence Flood Control Refill Curve as computed on 1 April.

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May-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
SOI	Sep	0.20		84.14	16.8
Elk Butte SWE	1-May	51.10	141%	10.77	550.2
Hemlock Butte SWE	1-May	64.40	135%	9.66	622.0
Hoodoo Basin SWE	1-May	54.80	119%	9.57	524.5
Shanghi Summit SWE	1-May	38.60	211%	11.37	438.9
Lost Lake SWE	1-May	68.80	114%	7.54	518.8
Intercept		1		9.13	9.1
1-May Forecast (KAF)				Σ	2680.4

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		3.40	8.63						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				16.7	29.7	39.0	48.7	51.1	--
Hemlock Butte, ID				19.6	34.0	45.0	59.0	64.4	--
Hoodoo Basin, MT				21.5	32.7	43.0	51.4	54.8	--
Pierce RS, ID				4.0	8.9	11.7			
Shanghi Summit, ID							38.2	38.6	
Lost Lake, ID								68.8	--
Streamflow (monthly volume, KAF)									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				87	108	198	323	--	--