

Dworshak : May Runoff Forecast & Flood Control Calculation

WY 2009

Runoff Forecast and Flood Control

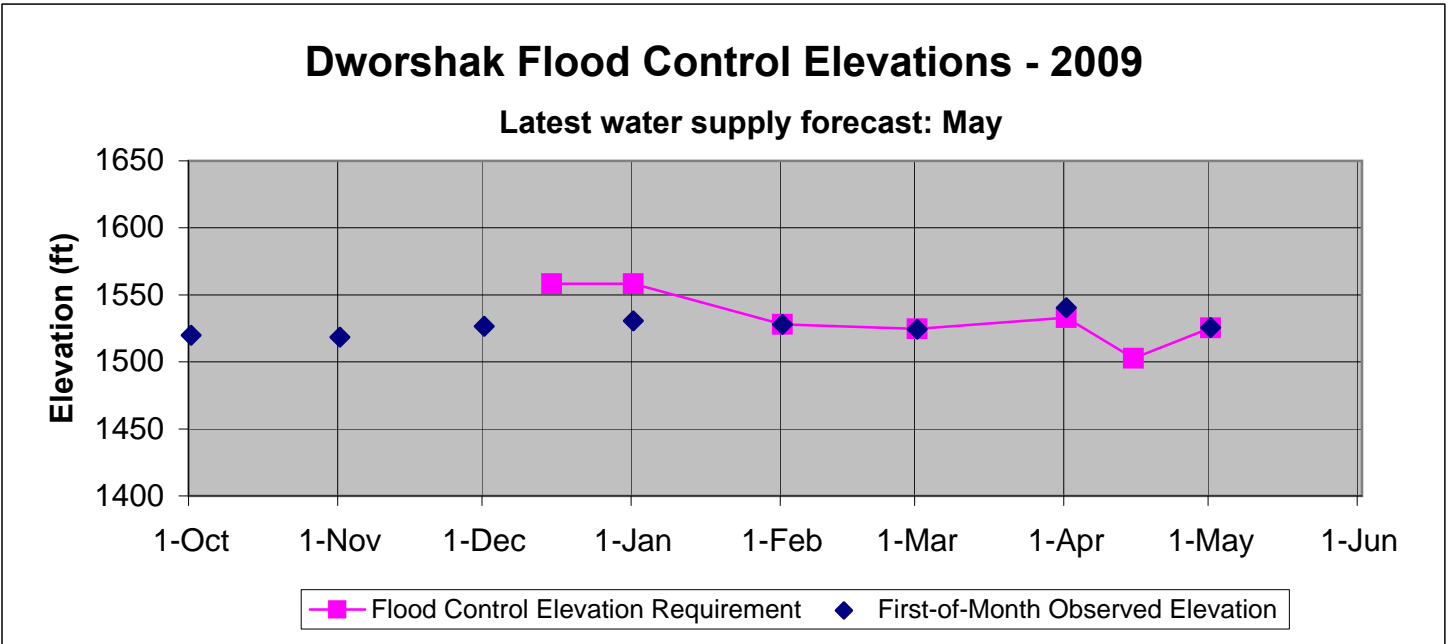
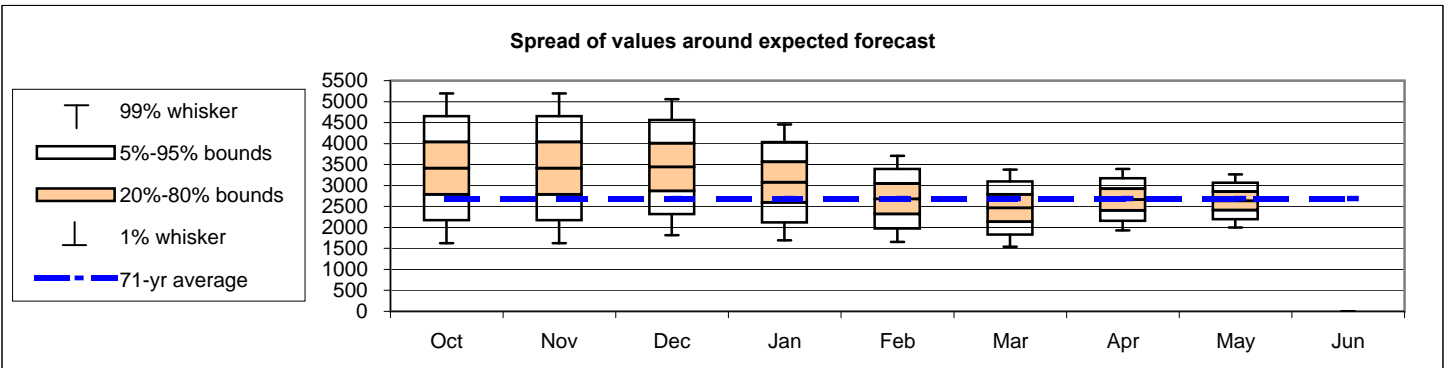
Most Probable Runoff Volume	Apr-Jul	2631	KAF
	May-Jul	1998	KAF

1929-1999 Average	Percent of Average
2683	98%
1980	101%

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	3409	3409	3437	3075	2681	2461	2662	2631	
First-of-Month Elev	1519.9	1518.4	1526.7	1530.6	1528.0	1524.4	1540.5	1525.5	

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr
Flood Control Space	--	700	700	1124	1170	1057	1442
Flood Control Elevation	--	1558.2	1558.2	1528.0	1524.5	1532.9	1502.8



Notes:

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Tracy Schwarz (509 527 7522), 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. 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	1.50		84.14	126.2
Elk Butte SWE	1-May	32.70	90%	10.77	352.1
Hemlock Butte SWE	1-May	48.70	102%	9.66	470.4
Hoodoo Basin SWE	1-May	40.60	88%	9.57	388.6
Shanghi Summit SWE	1-May	21.90	119%	11.37	249.0
Lost Lake SWE	1-May	53.40	88%	7.54	402.6
Intercept		1		9.13	9.1
1-May Forecast (KAF)				Σ	1998.1

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	1.50								
Precipitation (monthly depth, inches)									
Headquarters, ID		6.49	4.52						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				12.5	20.0	23.9	33.9	32.7	--
Hemlock Butte, ID				16.9	29.5	33.8	49.1	48.7	--
Hoodoo Basin, MT				13.0	23.9	28.9	37.5	40.6	--
Pierce RS, ID				6.1	10.1	9.5			
Shanghi Summit, ID							29.1	21.9	
Lost Lake, ID								53.4	--
Streamflow (monthly volume, KAF)									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				288	161	322	633	--	--