

Dworshak : March Runoff Forecast & Flood Control Calculation

WY 2007

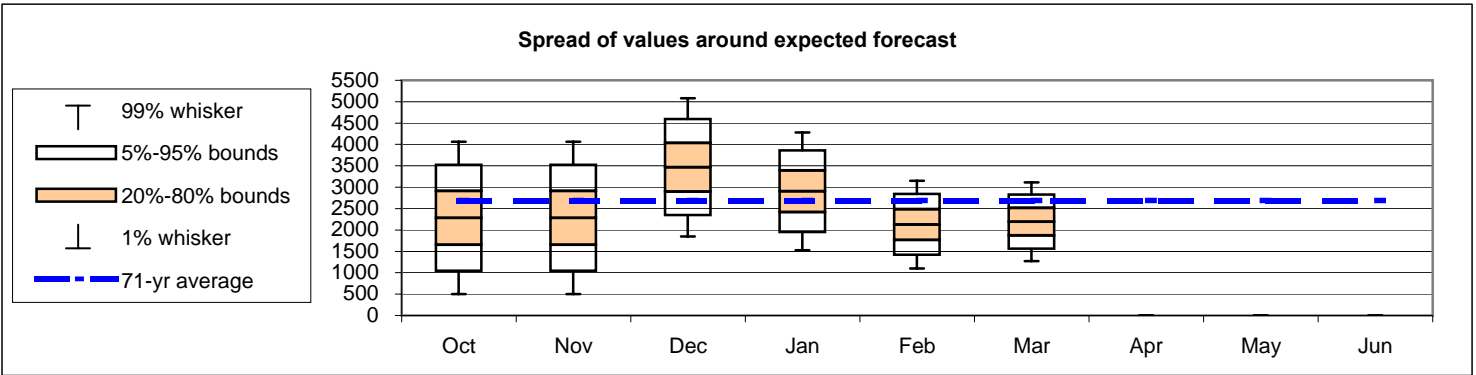
Runoff Forecast and Flood Control

Most Probable Runoff Volume	Apr-Jul	2192	KAF
	May-Jul	1618	KAF
31-Mar Flood Control Space		742	KAF
31-Mar Flood Control Elevation		1555.4	ft

1929-1999 Average	Percent of Average
2683	82%
1980	82%

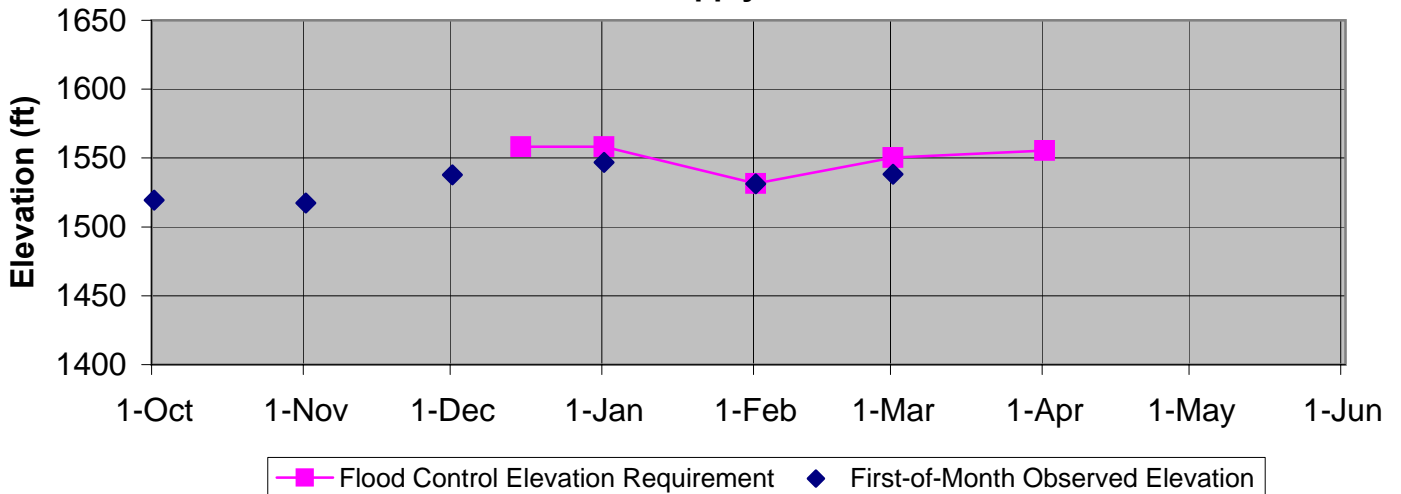
Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	2283	2283	3465	2905	2126	2192			
First-of-Month Elev	1519.51	1517.31	1537.71	1546.94	1531.2	1538.2			
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1078	814	742			
Flood Control Elevation	--	1558.2	1558.2	1531.4	1550.4	1555.4			



Dworshak Flood Control Elevations - 2007

Latest water supply forecast: Mar



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 Etzel (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.

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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	-0.70		116.52	-81.6
Elk Butte SWE	1-Mar	29.60	86%	14.89	440.9
Hemlock Butte SWE	1-Mar	37.10	92%	15.61	579.1
Hoodoo Basin SWE	1-Mar	31.70	83%	15.63	495.5
Pierce SWE	1-Mar	7.90	83%	38.10	301.0
DWR January Inflow	Jan	144.40	71%	0.977	141.1
DWR February Inflow	Feb	216.80	79%	0.147	31.9
Intercept		1		284.62	284.6
1-Mar Forecast (KAF)				Σ	2192.4

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 (monthly depth, inches)									
Headquarters, ID		10.79	4.36						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				14.4	22.4	29.6	--	--	--
Hemlock Butte, ID				19.0	26.6	37.1	--	--	--
Hoodoo Basin, MT				18.2	24.6	31.7	--	--	--
Pierce RS, ID				3.0	6.0	7.9			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				144	217	--	--	--	--