

Dworshak : March Runoff Forecast & Flood Control Calculation

WY 2012

Runoff Forecast and Flood Control

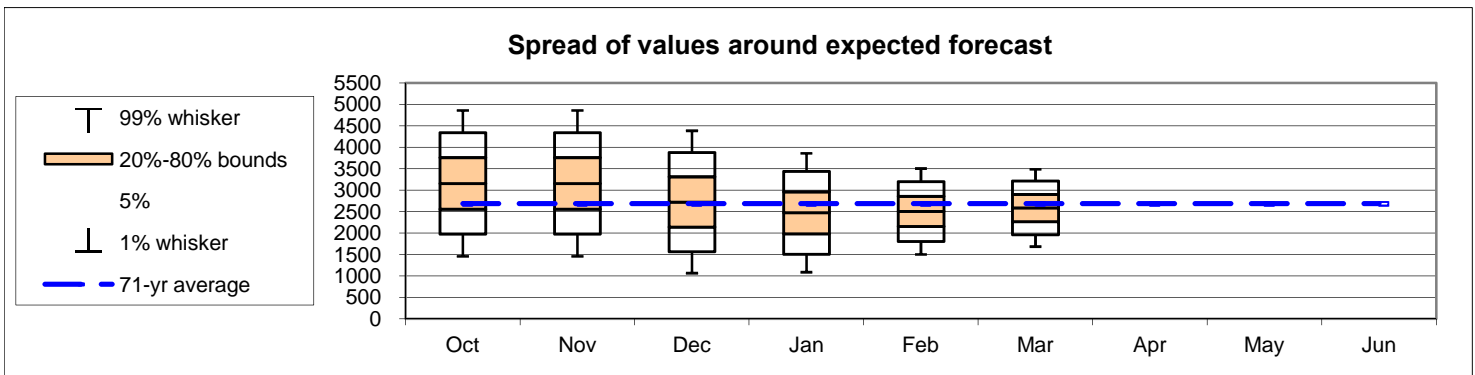
Most Probable Runoff Volume	Apr-Jul	2585	KAF
	May-Jul	1908	KAF
31-Mar Flood Control Space		1193	KAF
31-Mar Flood Control Elevation		1522.8	ft

1929-1999 Average	Percent of Average
2683	96%
1980	96%

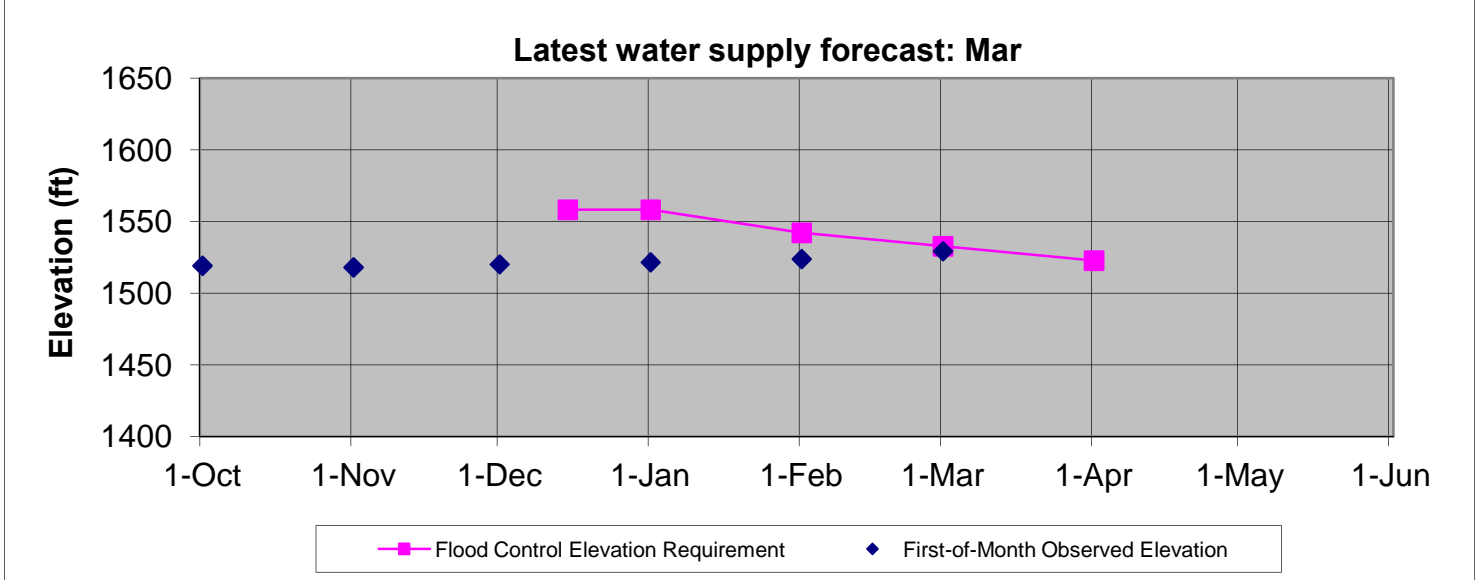
Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	3157	3157	2724	2473	2504	2585			
First-of-Month Elev	1519.2	1518.1	1520.2	1521.6	1523.9	1529.4			

Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr
Flood Control Space	--	700	700	931	1059	1193		
Flood Control Elevation	--	1558.2	1558.2	1542.1	1532.9	1522.8		



Dworshak Flood Control Elevations - 2012



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.

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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	1.00		123.33	123.3
Elk Butte SWE	1-Mar	30.40	88%	15.95	484.9
Hemlock Butte SWE	1-Mar	40.30	100%	15.98	644.0
Hoodoo Basin SWE	1-Mar	36.20	95%	15.41	557.8
Pierce SWE	1-Mar	8.40	88%	38.57	324.0
DWR January Inflow	Jan	121.39	60%	0.860	104.4
DWR February Inflow	Feb	176.73	65%	0.220	38.9
Intercept		1		307.66	307.7
1-Mar Forecast (KAF)				Σ	2585.0

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	1.00								
Precipitation (monthly depth, inches)									
Headquarters, ID		3.50	3.10						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				10.5	22.6	30.4	--	--	--
Hemlock Butte, ID				15.0	29.1	40.3	--	--	--
Hoodoo Basin, MT				16.4	29.5	36.2	--	--	--
Pierce RS, ID				1.7	6.2	8.4			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				121	177	--	--	--	--