

Dworshak : December Runoff Forecast & Flood Control Calculation

WY 2013

Runoff Forecast and Flood Control

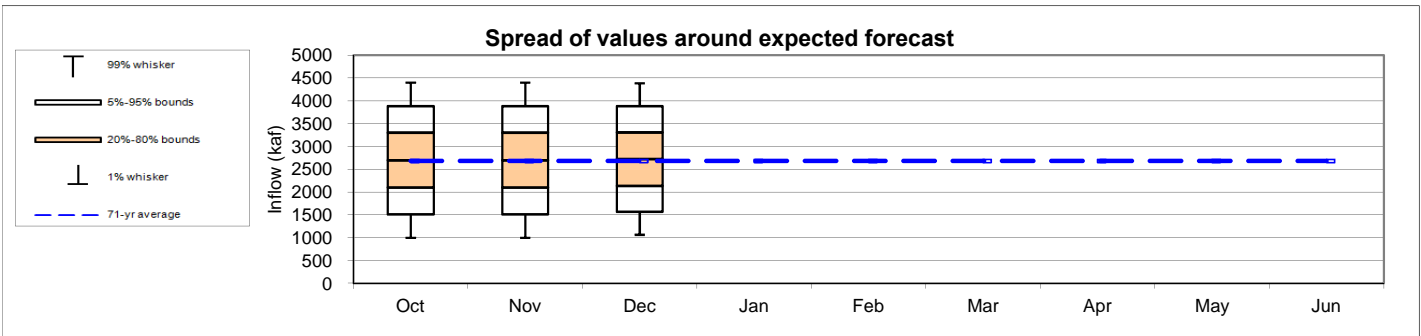
Most Probable Runoff Volume	Apr-Jul	2727	KAF
	May-Jul	2013	KAF
31-Dec Flood Control Space		700	KAF
31-Dec Flood Control Elevation		1558.2	ft

1929-1999 Average	Percent of Average
2683	102%
1980	102%

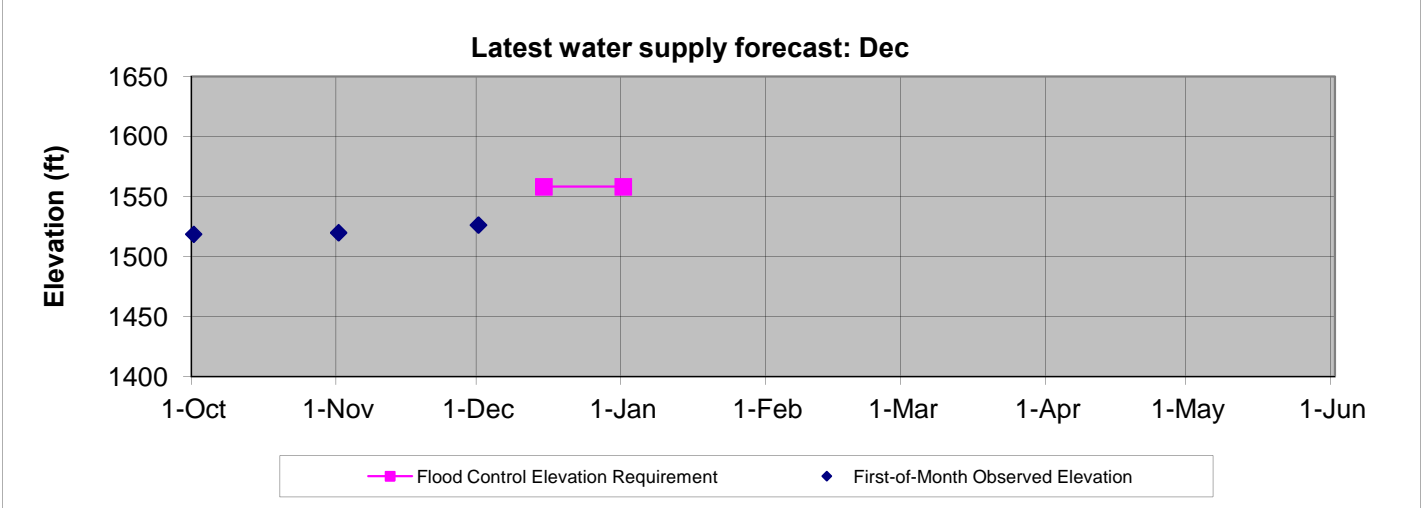
Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	2701	2701	2727						
First-of-Month Elev	1518.8	1519.9	1526.4						

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr
Flood Control Space	--	700	700				
Flood Control Elevation	--	1558.2	1558.2				



Dworshak Flood Control Elevations - 2013



Notes:

1. Headquarters Precipitation was obtained through the MesoWest website created by the Univ of Utah. (<http://mesowest.utah.edu/index.html>)
2. The regression coefficients have been updated to reflect observed data through September 2011 and updated SOI values from NOAA.
3. 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).
4. Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
5. 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	0.20		367.73	73.5
Headquarters Precip	Nov	5.30	107%	164.92	874.1
Intercept		1		1779.43	1779.4
1-Dec Forecast (KAF)				Σ	2727.1

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		5.30	6.30						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				--	--	--	--	--	--
Hemlock Butte, ID				--	--	--	--	--	--
Hoodoo Basin, MT				--	--	--	--	--	--
Pierce RS, ID				--	--	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
Streamflow (monthly volume, KAF)									
				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				--	--	--	--	--	--