

Dworshak : June Runoff Forecast & Flood Control Calculation

WY 2010

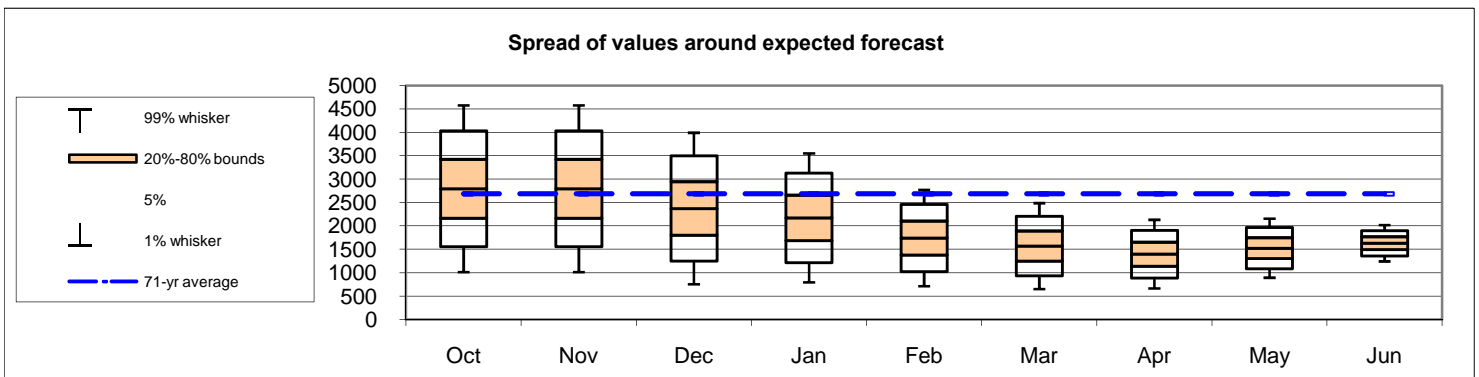
Runoff Forecast and Flood Control

Most Probable Runoff Volume	Apr-Jul	1630	KAF
	May-Jul	1248	KAF
	Jun-Jul	632	KAF

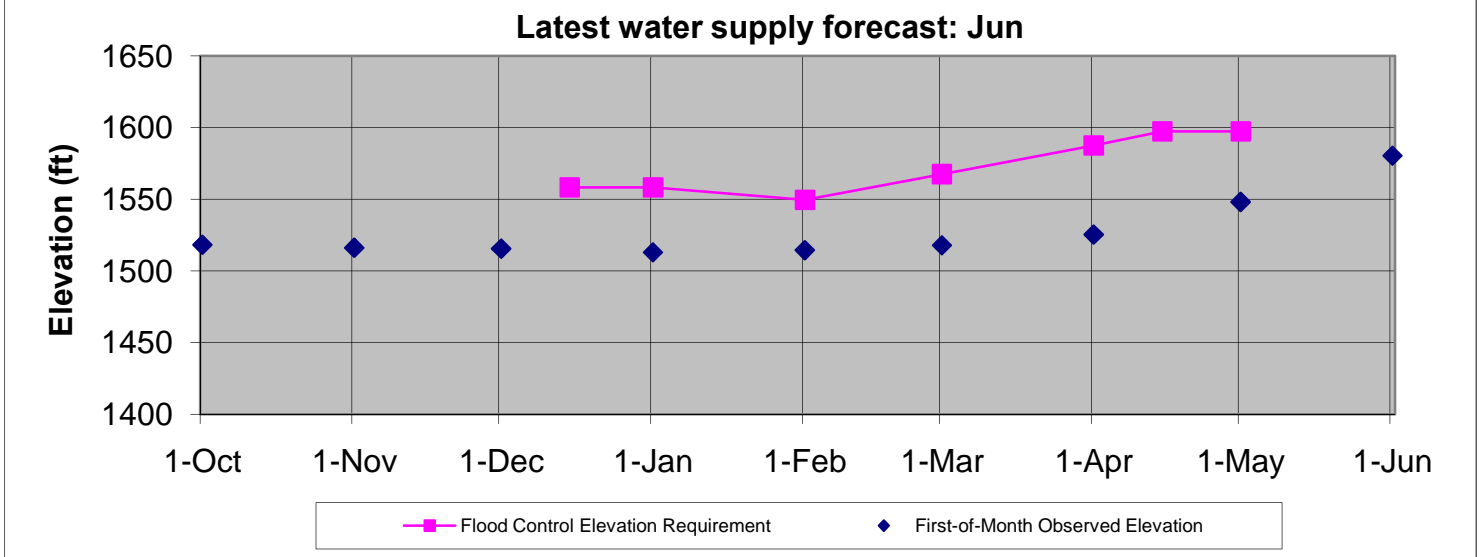
1929-1999 Average	Percent of Average
2683	61%
1980	63%
924	68%

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	2795	2795	2373	2174	1742	1571	1398	1526	1630
First-of-Month Elev	1518.2	1516.2	1515.6	1513.0	1514.5	1517.9	1525.4	1548.1	1580.4
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	825	560	230	50	50	
Flood Control Elevation	--	1558.2	1558.2	1549.6	1567.5	1587.5	1597.4	1597.4	



Dworshak Flood Control Elevations - 2010



Notes:

- 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).
- Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
- 15-Dec and 31-Dec flood control space is fixed at 700 KAF.

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Jun-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
Elk Butte SWE	1-Jun	3.90	29%	6.82	26.6
Hemlock Butte SWE	1-Jun	17.80	68%	6.20	110.3
Hoodoo Basin SWE	1-Jun	19.60	69%	6.42	125.9
Lost Lake SWE	1-Jun	23.00	53%	4.68	107.7
Shanghi Summit SWE	1-May	8.50	46%	7.80	66.3
Intercept		1		194.87	194.9
1-Jun Forecast (KAF)				Σ	631.7

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	0.30								
Precipitation (monthly depth, inches)									
Headquarters, ID		2.93	3.69						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				10.3	15.2	18.5	22.0	18.7	3.9
Hemlock Butte, ID				15.4	21.0	25.3	31.5	31.8	17.8
Hoodoo Basin, MT				10.8	15.2	17.7	23.3	26.7	19.6
Pierce RS, ID				2.9	5.0	4.6			
Shanghi Summit, ID							13.9	8.5	
Lost Lake, ID								32.9	23.0
Streamflow (monthly volume, KAF)									
Dworshak Inflow				Jan	Feb	Mar	Apr	May	Jun
				115	109	176	382	616	--