

Dworshak : June Runoff Forecast & Flood Control Calculation

WY 2011

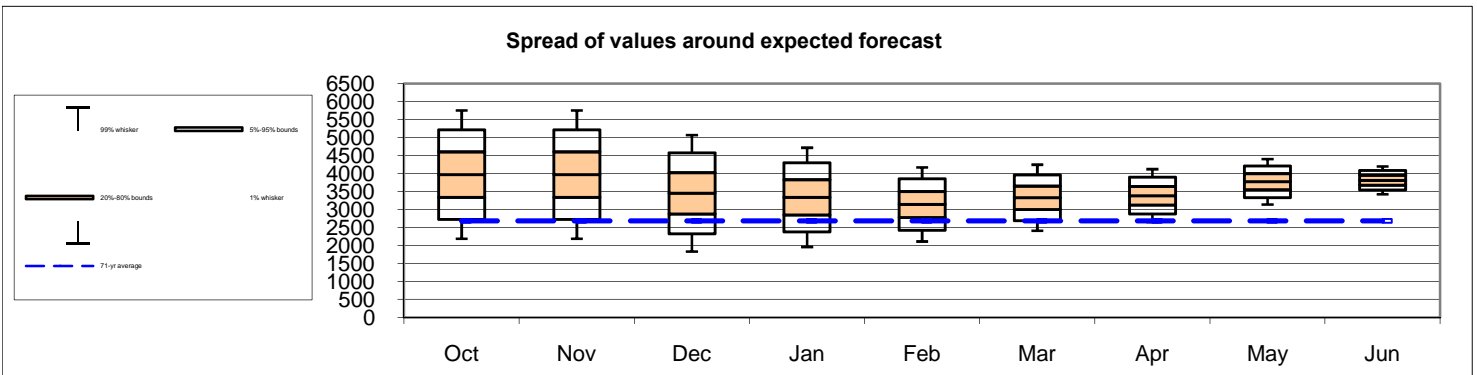
Runoff Forecast and Flood Control

Most Probable Runoff Volume	Apr-Jul	3813	KAF
	May-Jul	3033	KAF
	Jun-Jul	1770	KAF

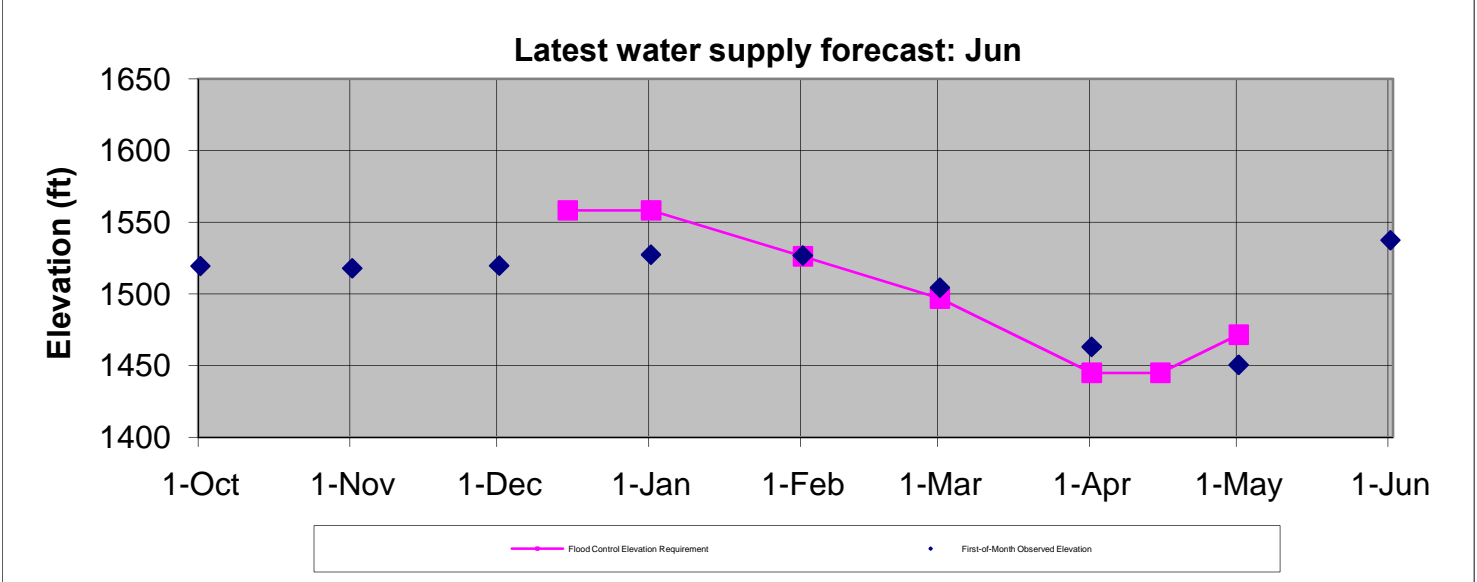
1929-1999 Average	Percent of Average
2683	142%
1980	153%
924	192%

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	3972	3972	3452	3340	3142	3329	3387	3772	3813
First-of-Month Elev	1519.4	1517.8	1519.7	1527.3	1526.7	1504.3	1463.1	1450.6	1537.4
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	1148	1510	2016	2016	1768	
Flood Control Elevation	--	1558.2	1558.2	1526.2	1496.8	1445.0	1445.0	1471.6	



Dworshak Flood Control Elevations - 2011



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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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	40.40	302%	6.82	275.4
Hemlock Butte SWE	1-Jun	59.30	227%	6.20	367.5
Hoodoo Basin SWE	1-Jun	53.80	189%	6.42	345.6
Lost Lake SWE	1-Jun	67.20	156%	4.68	314.8
Shanghi Summit SWE	1-May	34.90	190%	7.80	272.1
Intercept		1		194.87	194.9
1-Jun Forecast (KAF)				Σ	1770.3

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	2.60								
Precipitation (monthly depth, inches)									
Headquarters, ID		4.50	5.80						
Snow Water Equiv (first of month SWE depth, inches)									
Elk Butte, ID				13.0	24.2	33.8	41.5	52.1	40.4
Hemlock Butte, ID				20.2	34.5	45.4	56.1	69.2	59.3
Hoodoo Basin, MT				17.5	31.1	40.5	49.7	59.2	53.8
Pierce RS, ID				6.1	8.2	11.6			
Shanghi Summit, ID							30.8	34.9	
Lost Lake, ID								75.8	67.2
Streamflow (monthly volume, KAF)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				431	225	421	780	1263	--