

Dworshak : June Runoff Forecast & Flood Control Calculation

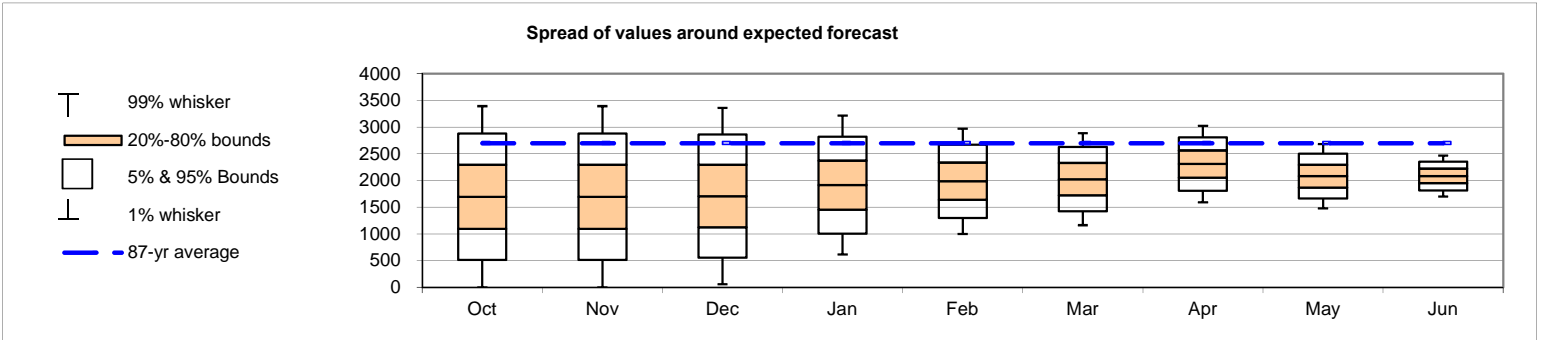
WY 2016

Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average
	Apr-Jul	2083	KAF	2418	86%	2696	77%
	May-Jul	1182	KAF	1771	67%	1972	60%
	Jun-Jul	411	KAF	847	49%	926	44%

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

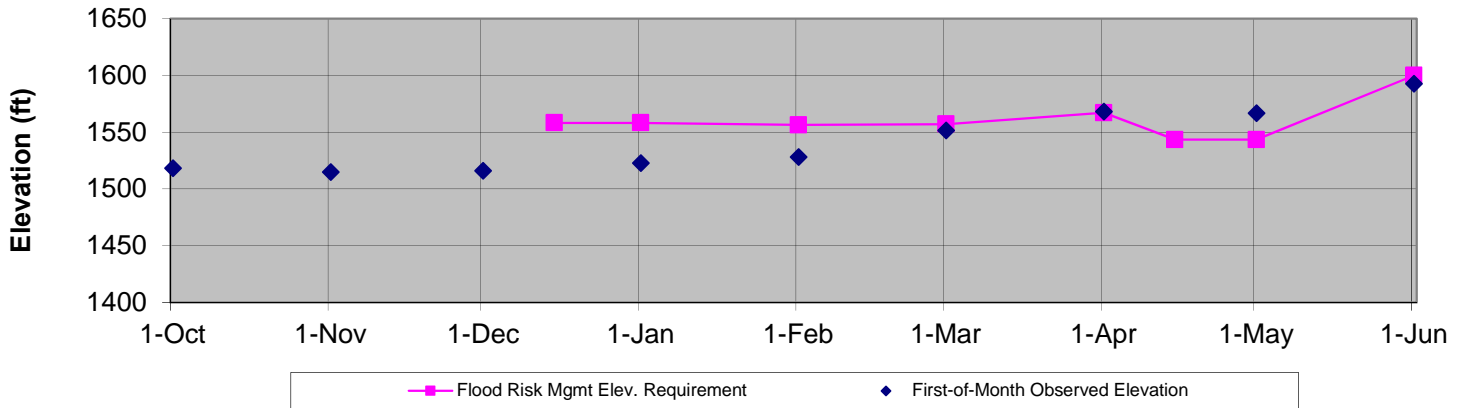
Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	1676	1676	1708	1913	1986	2025	2308	2080	1827
First-of-Month Elev	1518.2	1515.0	1516.1	1522.7	1528.2	1551.6	1568.2	1566.8	1562.7

Date >>	15-Dec	31-Dec	31-Jan	29-Feb	31-Mar	15-Apr	30-Apr	31-May	
FRM Space	--	700	700	727	718	567	912	912	0.0
FRM Elevation	--	1558.2	1558.2	1556.4	1557.0	1567.1	1543.5	1543.5	1600



Dworshak Flood Risk Mgmt Elevations - 2016

Latest water supply forecast: Jun



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Apr-Jul Runoff Forecast Calculation					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
Hoodoo Basin SWE	1-Jun	19.0	73%	8.21	156.0
Shanghi Summit SWE	1-Jun	0.0	0%	10.26	0.0
Lost Lake SWE	1-Jun	19.0	58%	6.14	116.7
Hemlock SWE	1-Jun	0.0	0%	7.57	0.0
Intercept		1		138.78	138.8
1-Jun Forecast (KAF)				∑	411.4

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	-1.60								
Precipitation (in)									
Headquarters, ID	2.80	3.80	6.40	6.30	4.20	6.90	2.50		
Cumulative HQSI Data	2.80	6.60	13.00	19.30	23.50	30.40	32.90		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				14.6	25.8	30.8	38.1		
Cool Creek, ID				17.2	26.5				
Hoodoo Basin, MT				15.1	22.6	29.6	36.7	31.7	19.0
Sherwin, ID				4.6	7.3	5.5	0.7		
Shanghi Summit, ID								8.4	0.0
Lost Lake, ID				19.9	31.7	41.2	52.3	44.4	19.0
Hemlock, ID								31.8	0.0
Crater Meadows Mar						37.9	50.3		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				171	415	631	901	770	--

Notes:

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Steve Hall (509 527 7550), Wayne Jousma (509-527-7606), or Alfredo Rodriguez (509-527-7532).
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 Management Space is fixed at 700 KAF.

Approval:

John J. Heitstuman P.E.
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