

# Dworshak : June Runoff Forecast & Flood Risk Management Calculation

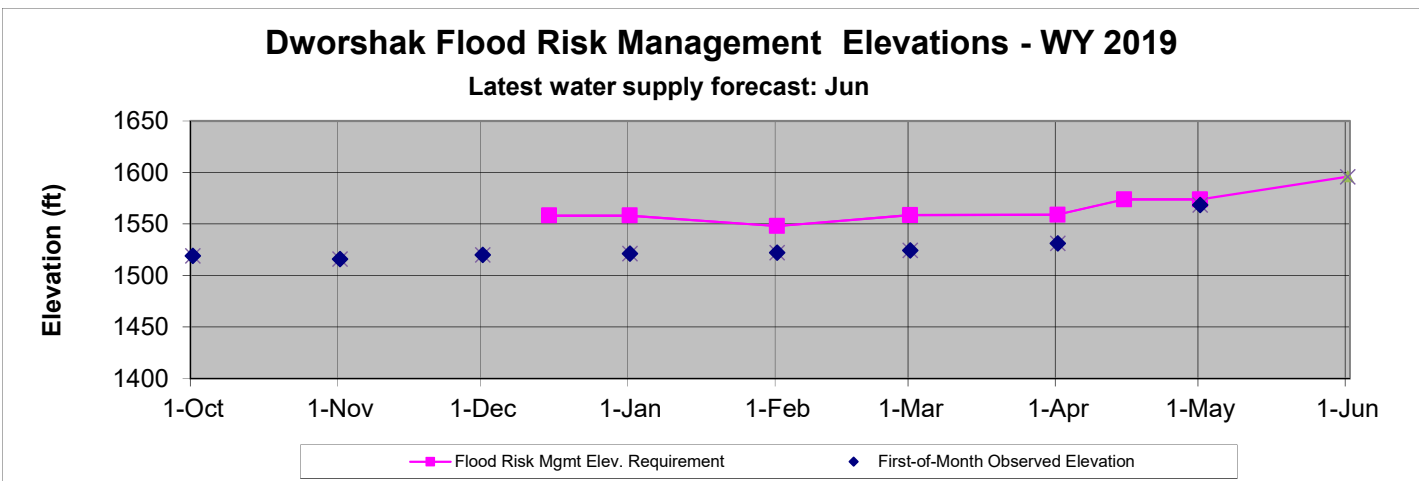
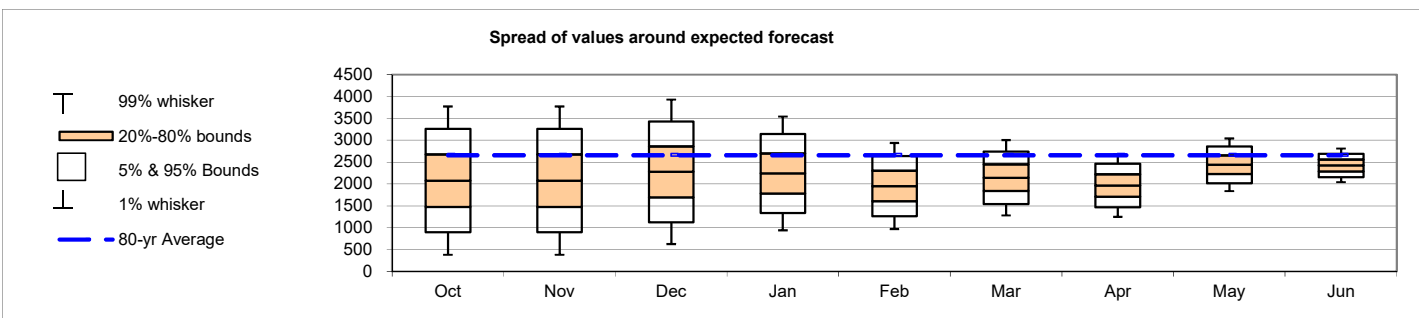
WY 2019

Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average
	Apr-Jul	2425	KAF	2438	99%	2655	91%
	May-Jul	1496	KAF	1784	84%	1959	76%
	Jun-Jul	543	KAF	853	64%	914	59%

Seasonal Flood Risk Management (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	2075	2075	2276	2239	1951	2142	1964	2438	2425
First-of-Month Elev	1519.3	1516.1	1520.1	1521.4	1522.3	1524.3	1531.3	1568.6	1595.9

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May
FRM Space	--	700	700	849	694	689	460	460
FRM Elevation	--	1558.2	1558.2	1547.9	1558.6	1559.0	1573.8	1573.8



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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	23.1	89%	8.21	189.7
Shanghi Summit SWE	1-Jun	0.0	0%	10.26	0.0
Lost Lake SWE	1-Jun	19.9	61%	6.14	122.0
Hemlock SWE	1-Jun	12.3	69%	7.57	92.9
Intercept		1		138.78	138.8
1-Jun Forecast (KAF)				Σ	543.4

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	-0.90								
<b>Precipitation (in)</b>									
Headquarters, ID	3.80	5.60	5.30	2.20	1.40	2.70	3.20		
Cumulative HQSI Data	3.80	9.40	14.70	16.90	18.30	21.00	24.20		
<b>Snow Water Equiv (First of Month values) (in)</b>									
Elk Butte, ID				15.5	20.6	29.9	31.3		
Cool Creek, ID				21.5	26.7				
Hoodoo Basin, MT				14.4	21.1	30.6	33.1	37.9	23.1
Sherwin, ID				3.7	6.1	10.2	5.7		
Shanghi Summit, ID								7.6	0.0
Lost Lake, ID				18.8	26.1	36.2	39.8	44.7	19.9
Hemlock, ID								47.4	12.3
Crater Meadows Mar						37.8	40.1		
<b>Streamflow (End of Month) (kaf)</b>									
				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				114	121	219	929	952	--

**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), Alfredo Rodriguez (509-527-7532), or Jon Roberts (509-527-7518).

**Approval:**

John J. Heitstuman P.E., D.WRE  
 Chief Hydrology Section  
 Walla Walla District USACE

William D. Proctor, P.E.  
 Ch., Hydrologic Engineering and Power Branch  
 Columbia Basin Water Management Division