

# Dworshak : June Runoff Forecast & Flood Risk Management Calculation

WY 2018

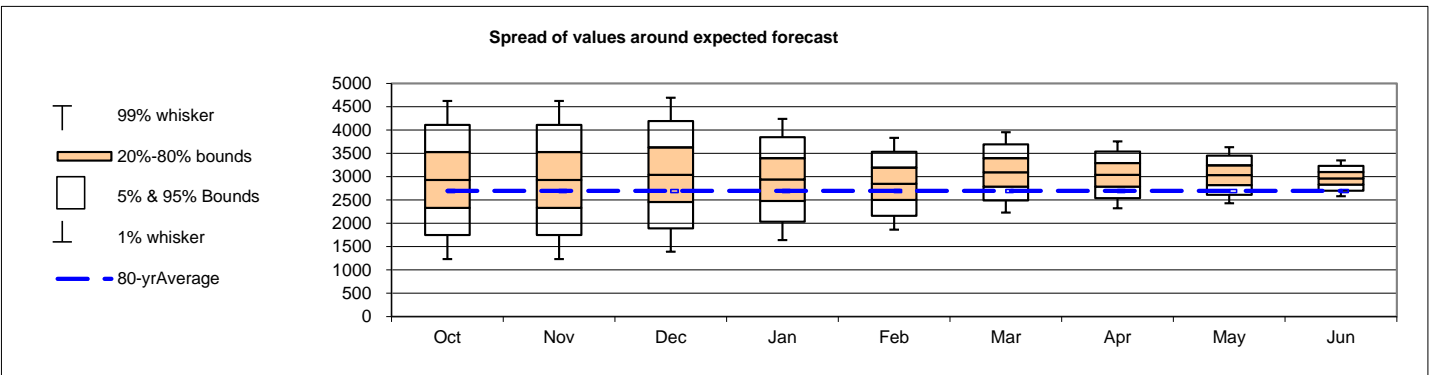
Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average
	Apr-Jul	2966	KAF	2438	122%	2696	110%
	May-Jul	2151	KAF	1784	121%	1972	109%
	Jun-Jul	674	KAF	853	79%	926	73%

## 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	2929	2929	3043	2941	2849	3093	3040	3032	2966
First-of-Month Elev	1519.1	1518.7	1526.2	1520.7	1529.1	1506.0	1456.0	1491.1	1581.1

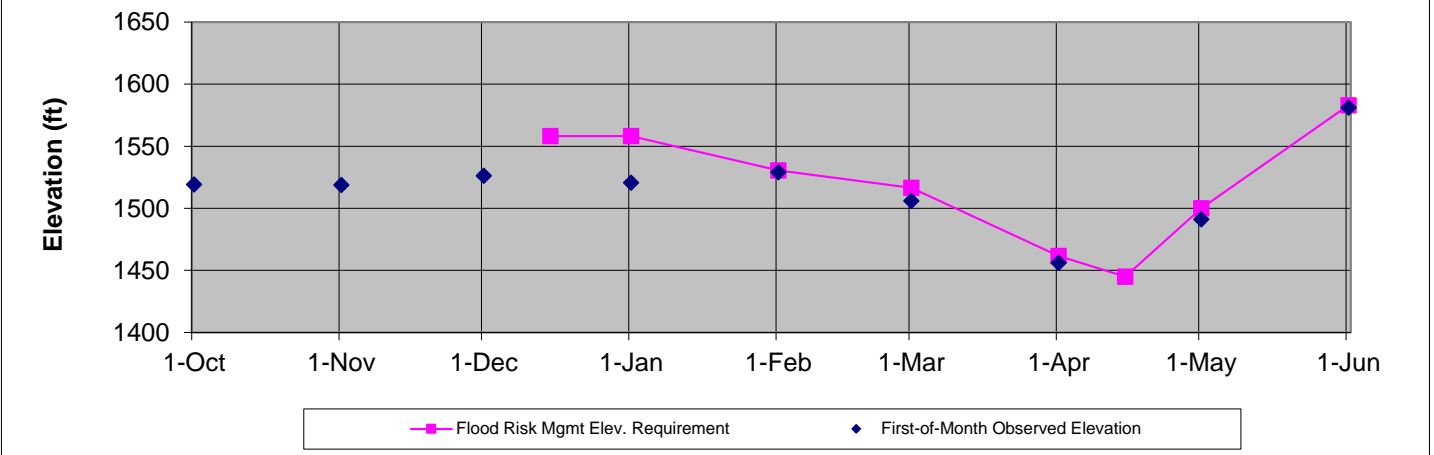
  

Date >>	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May	
FRM Space	--	700	700	1090	1276	1863	2016	2016	358
FRM Elevation	--	1558.2	1558.2	1530.5	1516.5	1461.6	1445.0	1500.0	1583



## Dworshak Flood Risk Mgmt Elevations - 2018

Latest water supply forecast: Jun



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Apr-Jul Runoff Forecast Calculation					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Runoff (KAF)
		A		B	=A*B
Hoodoo Basin SWE	1-Jun	30.2	116%	8.21	247.9
Shanghi Summit SWE	1-Jun	0.0	0%	10.26	0.0
Lost Lake SWE	1-Jun	34.1	105%	6.14	209.4
Hemlock SWE	1-Jun	10.3	58%	7.57	78.0
Intercept		1		138.78	138.8
1-Jun Forecast (KAF)				∑	674.1

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	0.60								
<b>Precipitation (in)</b>									
	Oct								
Headquarters, ID	3.65	6.20	6.10	4.50	7.00	3.10	--		
Cumulative HQSI Data	3.65	9.85	15.95	20.45	27.45	30.55	--		
<b>Snow Water Equiv (First of Month values) (in)</b>									
Elk Butte, ID				16.1	31.9	36.5	42.0		
Cool Creek, ID				18.9	32.0				
Hoodoo Basin, MT				18.7	29.5	39.8	43.6	49.7	30.2
Sherwin, ID				5.1	7.0	10.7	7.8		
Shanghi Summit, ID								15.2	0.0
Lost Lake, ID				22.3	38.0	52.6	59.9	65.6	34.1
Hemlock, ID								53.9	10.3
Crater Meadows Mar						46.9	53.1		
<b>Streamflow (End of Month) (kaf)</b>									
				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				316	520	358	815	1477	--

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), Amanda Morelos (509-527-7632), Alfredo Rodriguez (509-527-7532), or Jon Roberts (509-527-7518).
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:

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