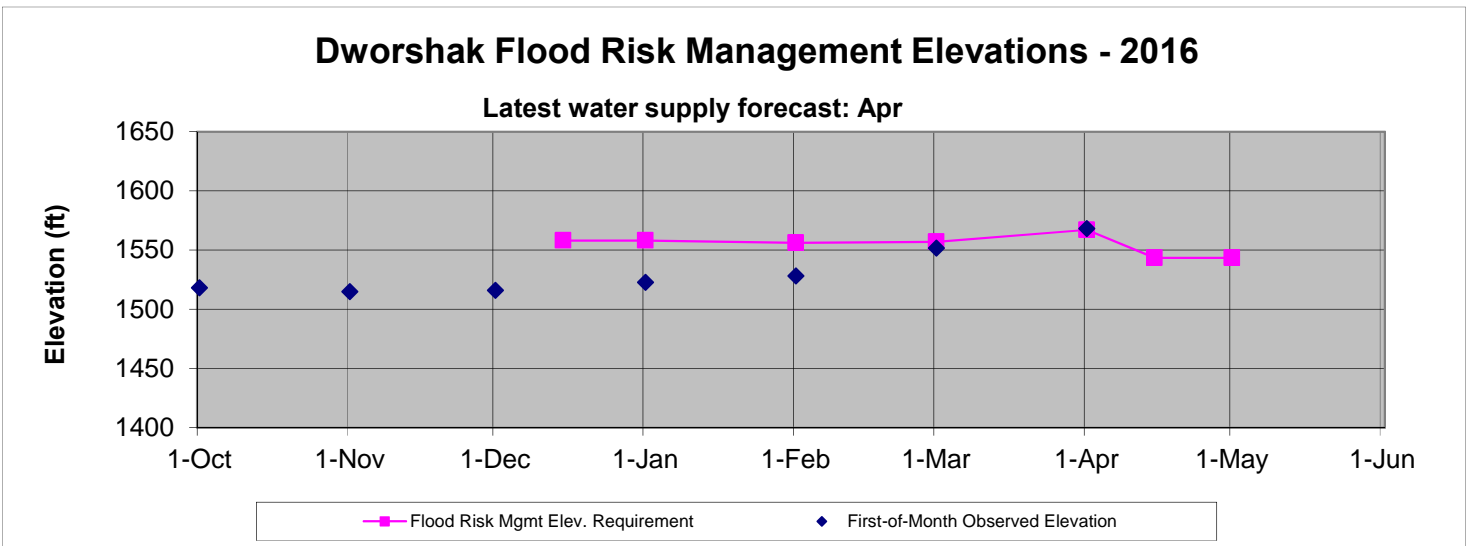
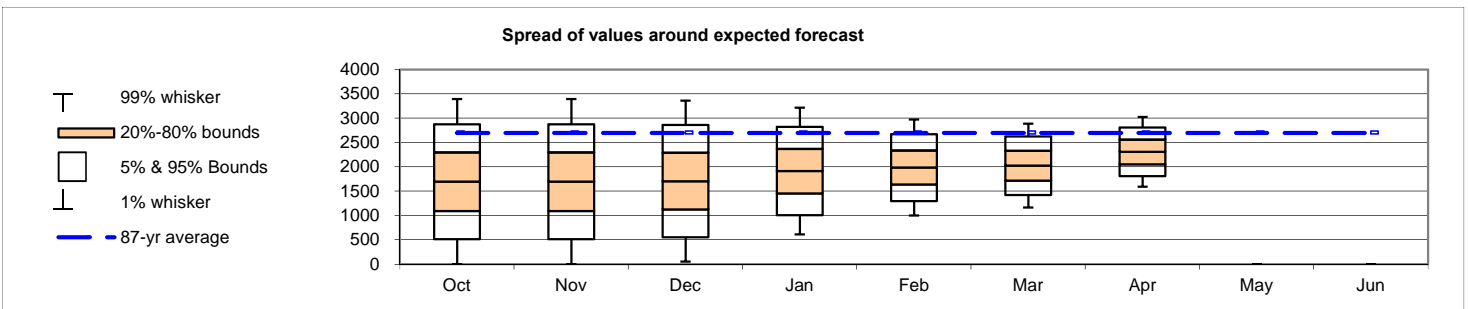


Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average		
Most Probable Runoff Volume	Apr-Jul	2308	KAF	2418	95%	2696	86%		
	May-Jul	1688	KAF	1771	95%	1972	86%		
30-Apr Flood Risk Management Space		912	KAF						
30-Apr Flood Risk Management Elevation		1543.5	ft						
Seasonal Flood Risk Management (assumes no shift of flood risk management 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		
First-of-Month Elev	1518.2	1515.0	1516.1	1522.7	1528.2	1551.6	1568.2		
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	
FRM Elevation	--	1558.2	1558.2	1556.4	1557.0	1567.1	1543.5	1543.5	



## Dworshak : April Runoff Forecast & Flood Risk Management Calculation

Apr-Jul Runoff Forecast Calculation					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
SOI	Sep	-1.60		171.32	-274.1
HQSI Cumulative Precip	Oct-Date	30.40	111%	22.32	678.5
Elk Butte SWE	1-Apr	38.1	110%	11.61	442.3
Hoodoo Basin SWE	1-Apr	36.7	93%	10.27	376.9
Sherwin SWE	1-Apr	0.7	10%	19.49	13.6
Lost Lake SWE	1-Apr	52.3	100%	7.91	413.7
Crater meadows SWE	1-Apr	50.3	117%	13.37	672.5
Intercept		1		-15.43	-15.4
1-Apr Forecast (KAF)				$\Sigma$	2308.1

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	-1.60								
<b>Precipitation (in)</b>									
Headquarters, ID	2.80	3.80	6.40	6.30	4.20	6.90	0.00		
Cumulative HQSI Data	2.80	6.60	13.00	19.30	23.50	30.40	30.40		
<b>Snow Water Equiv (First of Month values) (in)</b>									
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	0.0	0.0
Sherwin, ID				4.6	7.3	5.5	0.7		
Shanghi Summit, ID								0.0	0.0
Lost Lake, ID				19.9	31.7	41.2	52.3	0.0	0.0
Hemlock, ID								0.0	0.0
Crater Meadows Mar						37.9	50.3		
<b>Streamflow (End of Month) (kaf)</b>				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				171	415	631	--	--	--

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:

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