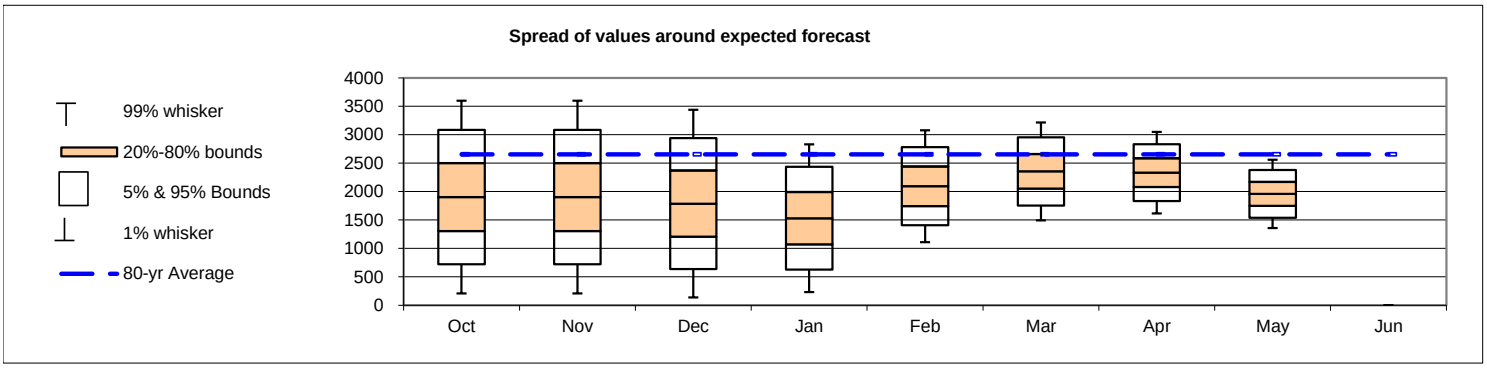
Dworshak : May Runoff Forecast & Flood Risk Management Calculation **WY 2020**

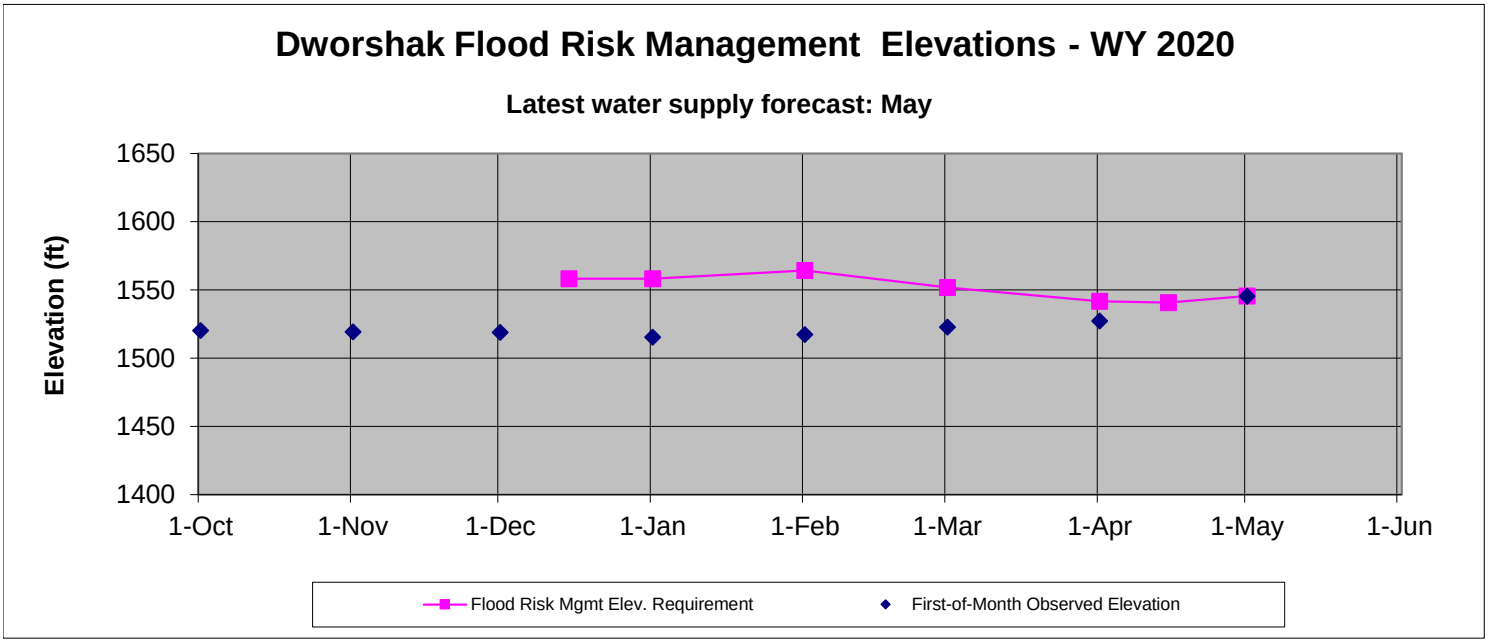
Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average
Most Probable Runoff Volume	**Apr-Jul**	**1960**	**KAF**	2438	80%	2655	74%
	May-Jul	**1442**	**KAF**	1784	81%	1959	74%

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	1904	1904	1789	1532	2095	2355	2333	1960	
First-of-Month Elev	1520.3	1519.3	1519.0	1515.4	1517.4	1522.7	1527.2	1545.4	

Date >>		15-Dec	31-Dec	31-Jan	29-Feb	31-Mar	15-Apr	30-Apr
FRM Space	--	700	700	610	793	936	950	883
FRM Elevation	--	1558.2	1558.2	1564.3	1551.9	1541.7	1540.8	1545.6





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Apr-Jul Runoff Forecast Calculation					
Variable	*Month*	*Observed Value*	*% of Average*	*Regression Coefficient*	*Marginal Runoff (KAF)*
		A		B	=A*B
SOI	*Sep*	-1.20		122.04	-146.4
Hoodoo Basin SWE	*1-May*	41.0	102%	11.71	480.1
Shanghi Summit SWE	*1-May*	6.8	49%	14.41	97.8
Lost Lake SWE	*1-May*	50.4	99%	9.67	486.9
Hemlock SWE	*1-May*	37.9	95%	11.58	439.1
Intercept		1		84.24	84.2
	1-May Forecast (KAF)			∑	1441.7

Data Station	*Sept*	*Nov*	*Dec*	*1-Jan*	*1-Feb*	*1-Mar*	*1-Apr*	*1-May*	*1-Jun*
Climate (Stdzd SOI)									
September SOI	-1.20								
Precipitation (in)	Oct								
Headquarters, ID	3.30	1.90	3.50	7.60	4.10	2.30	1.90		
Cumulative HQSI Data	**3.30**	**5.20**	**8.70**	**16.30**	**20.40**	**22.70**	**24.60**		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				8.8	26.2	35.2	40.0		
Cool Creek, ID				10.2	28.5				
Hoodoo Basin, MT				9.4	25.1	33.1	36.9	41.0	--
Sherwin, ID				2.3	7.9	10.5	6.4		
Shanghi Summit, ID								6.8	--
Lost Lake, ID				10.9	33.3	46.1	52.5	50.4	--
Hemlock, ID								37.9	--
Crater Meadows Mar						43.5	49.7		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				138	160	209	518	--	--

Notes:

1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact 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.

Approval: HEITSTUMAN.JOHN.JOSEPH.1159402580 Digitally signed by HEITSTUMAN.JOHN.JOSEPH.1159402580 Date: 2020.05.01 08:39:49 -07'00'

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