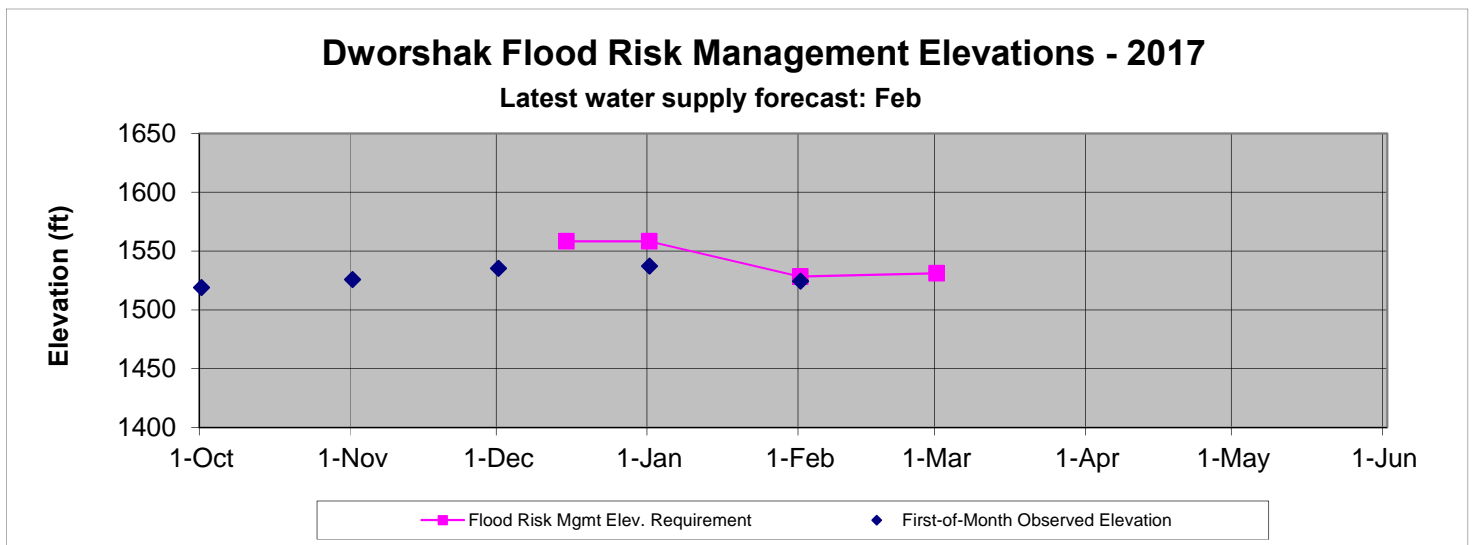
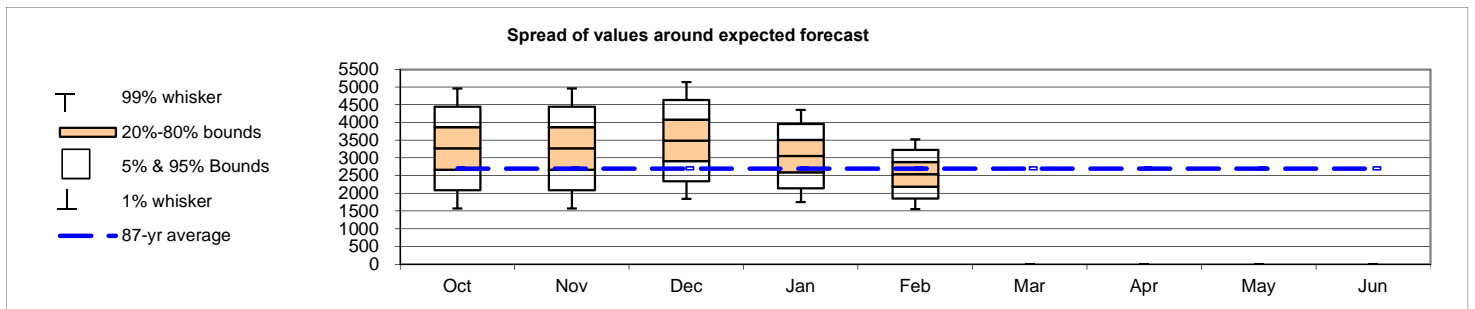


Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average		
Most Probable Runoff Volume	Apr-Jul	2541	KAF	2438	104%	2696	94%		
	May-Jul	1858	KAF	1784	104%	1972	94%		
28/29-Feb Flood Risk Management Space		1082	KAF						
28/29-Feb Flood Risk Management Elevation		1531.1	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	3271	3271	3493	3055	2541				
First-of-Month Elev	1519.1	1525.9	1535.4	1537.3	1524.5				
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May
FRM Space	--	700	700	1120	1082				
FRM Elevation	--	1558.2	1558.2	1528.3	1531.1				



Dworshak : February 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	1.20		264.27	317.1
HQSI Cumulative Precip	Oct-Date	20.20	104%	27.04	546.2
Elk Butte SWE	1-Feb	20.3	87%	12.06	244.8
Cool Creek SWE	1-Feb	20.8	72%	11.35	236.1
Hoodoo Basin SWE	1-Feb	17.2	67%	10.97	188.7
Sherwin SWE	1-Feb	8.5	110%	29.17	247.9
Lost Lake SWE	1-Feb	24.6	71%	7.60	187.0
Intercept		1		572.93	572.9
1-Feb Forecast (KAF)				Σ	2540.7

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)									
Headquarters, ID	7.90	3.90	3.70	4.70	--	--	--		
Cumulative HQSI Data	7.90	11.80	15.50	20.20	--	--	--		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				14.8	20.3	--	--		
Cool Creek, ID				15.9	20.8				
Hoodoo Basin, MT				11.9	17.2	--	--	--	--
Sherwin, ID				6.5	8.5	--	--		
Shanghi Summit, ID								--	--
Lost Lake, ID				17.8	24.6	--	--	--	--
Hemlock, ID								--	--
Crater Meadows Mar						--	--		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				127	--	--	--	--	--

Notes:

- 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), Amanda Connell (509-527-7632), or Alfredo Rodriguez (509-527-7532).
- Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
- 15-Dec and 31-Dec Flood Management Space is fixed at 700 KAF.
- The Elk Butte SNOTEL is still down, the value was estimated by NRCS to be around 20.3", our in house analysis concurred
- HQSI Precip had to be estimated as the data stopped gaining around 15Jan despite everything around it gaining more precip. HQSI's precip was estimated to have a value equal to the average gain of Hemlock Butte, Shanghai, Sherwin , and Moscow Mt. SNOTEL's stations

Approval:

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