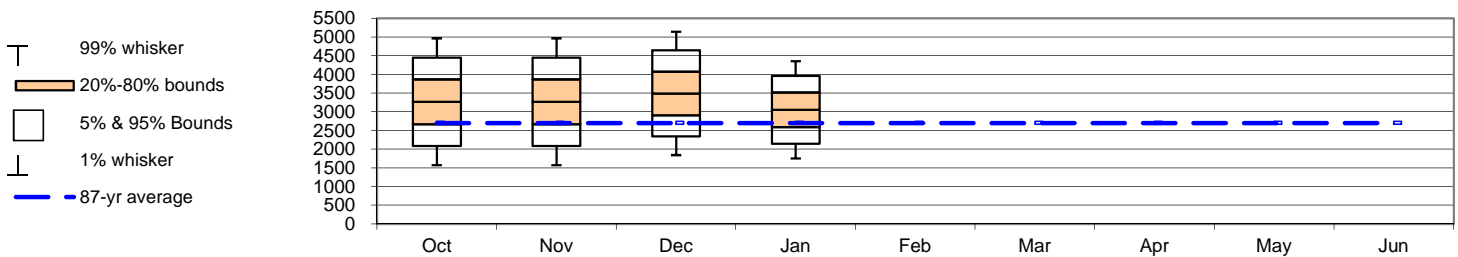


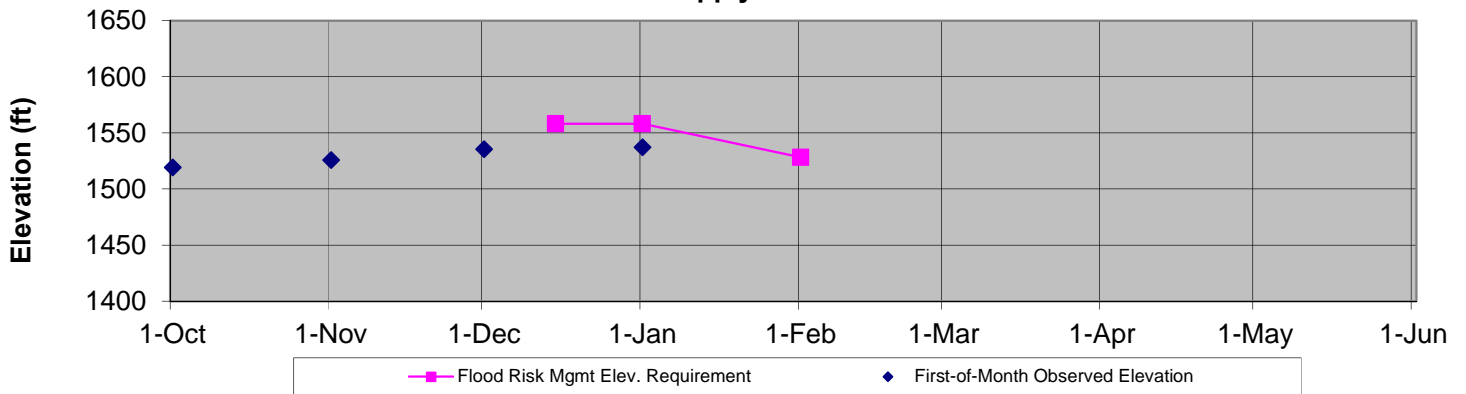
Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average		
Most Probable Runoff Volume	Apr-Jul	3055	KAF	2438	125%	2696	113%		
	May-Jul	2146	KAF	1784	120%	1972	109%		
31-Jan Flood Risk Management Space		1120	KAF						
31-Jan Flood Risk Management Elevation		1528.3	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					
First-of-Month Elev	1519.1	1525.9	1535.4	1537.3					
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May
FRM Space	--	700	700	1120					
FRM Elevation	--	1558.2	1558.2	1528.3					

Spread of values around expected forecast



### Dworshak Flood Risk Management Elevations - 2017

Latest water supply forecast: Jan



# Dworshak : January Runoff Forecast & Flood Risk Management Calculation

Apr-Jul Runoff Forecast Calculation					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Runoff (KAF)
		A		B	=A*B
SOI	Sep	1.20		355.71	426.9
HQSI Cumulative Precip	Oct-Date	15.50	111%	48.12	745.9
Elk Butte SWE	1-Jan	14.80	100%	6.25	92.5
Cool Creek SWE	1-Jan	15.9	88%	9.96	158.4
Hoodoo Basin SWE	1-Jan	11.9	70%	12.22	145.4
Sherwin SWE	1-Jan	6.5	142%	44.69	290.5
Lost Lake SWE	1-Jan	17.8	78%	4.24	75.5
Intercept		1		1119.86	1119.9
1-Jan Forecast (KAF)				$\Sigma$	3054.8

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	1.20								
<b>Precipitation (in)</b>									
Headquarters, ID	7.90	3.90	3.70	--	--	--	--		
Cumulative HQSI Data	7.90	11.80	15.50	--	--	--	--		
<b>Snow Water Equiv (First of Month values) (in)</b>									
Elk Butte, ID				14.8	--	--	--		
Cool Creek, ID				15.9	--				
Hoodoo Basin, MT				11.9	--	--	--	--	--
Sherwin, ID				6.5	--	--	--		
Shanghi Summit, ID								--	--
Lost Lake, ID				17.8	--	--	--	--	--
Hemlock, ID								--	--
Crater Meadows Mar						--	--		
<b>Streamflow (End of Month) (kaf)</b>				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				0	--	--	--	--	--

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), Amanda Connell (509-527-7632), 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.
4. Elk Butte SWE data was unavailable for Jan 1. NWW estimated a SWE value of 14.8" based on a linear regression with neighboring stations.

Approval:

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 Ch., Hydrologic Engineering and Power Branch  
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