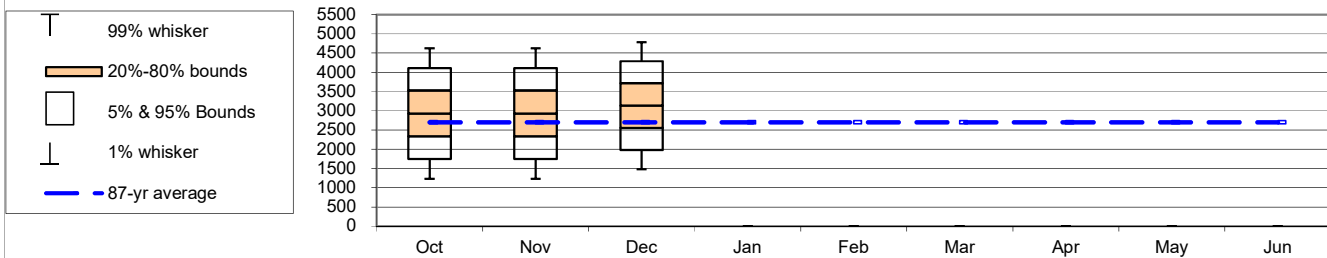


Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average
Most Probable Runoff Volume	Apr-Jul	3134	KAF	2438	129%	2696	116%
	May-Jul	2202	KAF	1784	123%	1972	112%
31-Dec Flood Risk Management Space		700	KAF				
31-Dec Flood Risk Management Elevation		1558.2	ft				

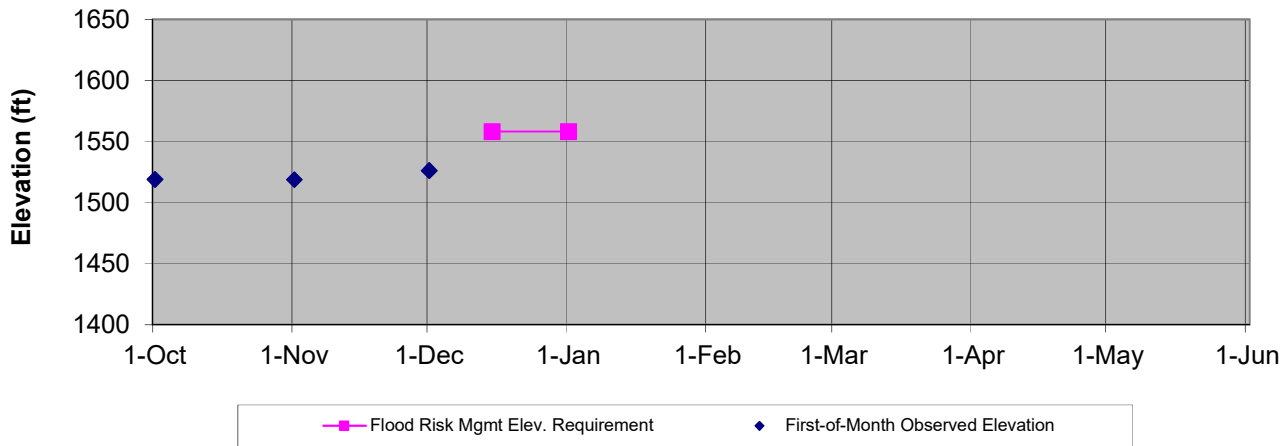
Seasonal Flood Risk Management (assumes no shift of flood risk management space to Grand Coulee)									
Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	2929	2929	3134						
First-of-Month Elev	1519.1	1518.7	1526.2						
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May
FRM Space	--	700	700						
FRM Elevation	--	1558.2	1558.2						

Spread of values around expected forecast



Dworshak Flood Risk Management Elevations - 2017

Latest water supply forecast: Dec



Dworshak : December 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	0.60		486.62	292.0
Headquarters Precip	Nov	10.97	131%	81.25	891.3
Intercept		1		1950.56	1950.6
1-Dec Forecast (KAF)				∑	3133.8

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	0.60								
Precipitation (in)									
Headquarters, ID	4.48	6.49	--	--	--	--	--		
Cumulative HQSI Data	4.48	10.97	--	--	--	--	--		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				--	--	--	--		
Cool Creek, ID				--	--				
Hoodoo Basin, MT				--	--	--	--	--	--
Sherwin, ID				--	--	--	--		
Shanghi Summit, ID								--	--
Lost Lake, ID				--	--	--	--	--	--
Hemlock, ID								--	--
Crater Meadows Mar						--	--		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				--	--	--	--	--	--

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 Morelos (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. Due to bad data feeds, the HQSI precip was unavailable, the Pierce (PIEI) SNOTEL precip gage data was substituted. If or when the HQSI data becomes available, the forecast will be updated with the correct gage data.

Approval:

John J. Heitstuman P.E.
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 Walla Walla District USACE

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 Ch., Hydrologic Engineering and Power Branch
 Columbia Basin Water Management Division