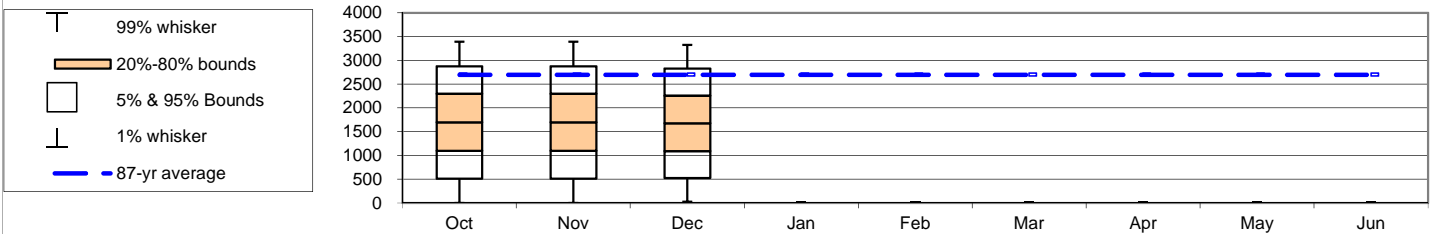


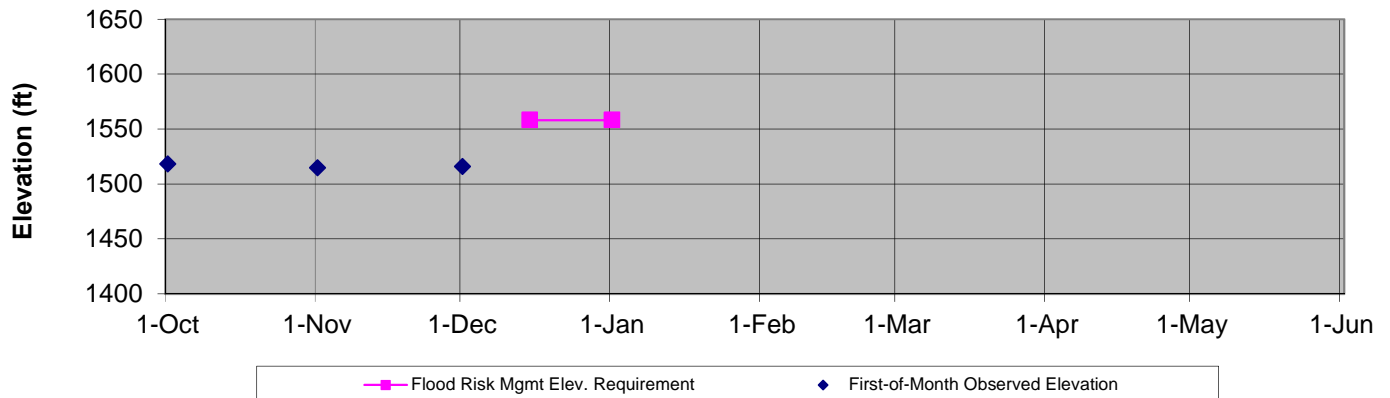
Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average		
Most Probable Runoff Volume	Apr-Jul	1676	KAF	2418	69%	2696	62%		
	May-Jul	1173	KAF	1771	66%	1972	60%		
31-Dec Flood Risk Management Space		700	KAF						
31-Dec Flood Risk 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	1676	1676	1676						
First-of-Month Elev	1518.2	1515.0	1516.1						
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
FRM Space	--	700	700						
FRM Elevation	--	1558.2	1558.2						

Spread of values around expected forecast



### Dworshak Flood Risk Management Elevations - 2016

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	-1.60		486.62	-778.6
Headquarters Precip	Nov	6.20	74%	81.25	503.8
Intercept		1		1950.56	1950.6
1-Dec Forecast (KAF)				$\Sigma$	1675.7

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	2.40	3.80	0.00	0.00	0.00	0.00	0.00		
Cumulative HQSI Data	2.40	6.20	6.20	6.20	6.20	6.20	6.20		
<b>Snow Water Equiv (First of Month values) (in)</b>									
Elk Butte, ID				0.0	0.0	0.0	0.0		
Cool Creek, ID				0.0	0.0				
Hoodoo Basin, MT				0.0	0.0	0.0	0.0	0.0	0.0
Sherwin, ID				0.0	0.0	0.0	0.0		
Shanghi Summit, ID								0.0	0.0
Lost Lake, ID				0.0	0.0	0.0	0.0	0.0	0.0
Hemlock, ID								0.0	0.0
Crater Meadows Mar						0.0	0.0		
<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), 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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 Walla Walla District USACE

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