

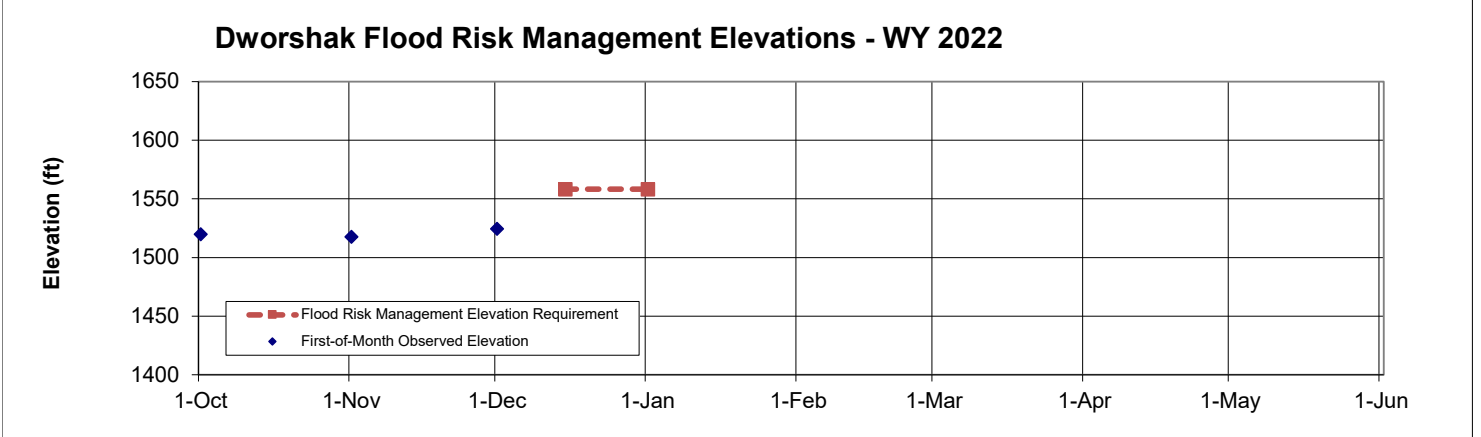
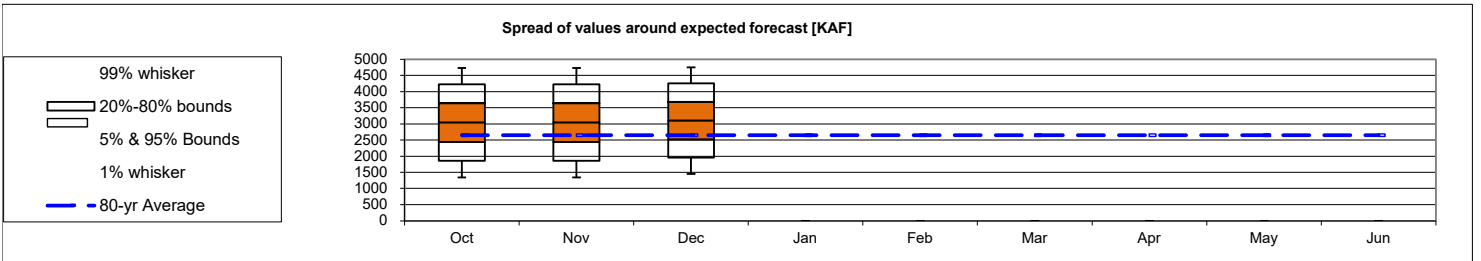
Runoff Forecast	December	1991-2020 Average	1991 - 2020 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	3104	2474	125%	2655	117%
Most Probable Runoff Volume: May-Jul (KAF)	2243	1788	125%	1959	114%

Flood Risk Management (FRM)	December Value
31-Dec Flood Risk Management Space (KAF)	700
31-Dec Flood Risk Management Elevation (ft)	1558.2

Seasonal Flood Risk Management (assumes no shift of Flood Risk Management space to Grand Coulee, nor refill on the Flood Control Refill Curve)

Seasonal FRM Forecast	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast (KAF)	3043	3043	3104						
First-of-Month Elevation (ft)	1519.7	1517.7	1524.3						

Seasonal FRM Space	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May
Flood Risk Management Space (KAF)	700	700						
Flood Risk Management Elevation (ft)	1558.2	1558.2						



Dworshak: December Runoff Forecast and Flood Risk Management Calculation

Apr-Jul Runoff Forecast Calculation:

Variable	Month(s)	Units	Observed Value A	Percent of Average (1991-2020)	Regression Coefficient B	Marginal Runoff (KAF) A*B
SOI	Sept		0.80		486.62	389.3
Headquarters Precipitation	Oct-Date	Inch	9.40	118%	81.25	763.8
Intercept			1		1950.56	1950.6
1-Dec Forecast	Apr-Jul	KAF				3103.6

Data used in Dworshak Water Supply Forecast:

Climate Data	Sept									
SOI	0.80									
Precipitation Data	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Headquarters, ID (inch)		2.30	7.10	--	--	--	--	--	--	
Cumulative HQSI Data (inch)		2.30	9.40	--	--	--	--	--	--	
Snow Water Equivalent, 1st of Month	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Elk Butte, ID (inch)				--	--	--	--	--	--	
Cool Creek, ID (inch)				--	--	--	--	--	--	
Hoodoo Basin, MT (inch)				--	--	--	--	--	--	
Sherwin, ID (inch)				--	--	--	--	--	--	
Shanghi Summit, ID (inch)				--	--	--	--	--	--	
Lost Lake, ID (inch)				--	--	--	--	--	--	
Hemlock, ID (inch)				--	--	--	--	--	--	
Crater Meadows Mar (inch)				--	--	--	--	--	--	
Streamflow	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Dworshak Inflow Volume (KAF)				--	--	--	--	--	--	

- Notes:
1. The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Willow Walker (509-527-7073), 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.
 3. 15-Dec and 31-Dec Flood Management Space is fixed at 700 KAF

Approval:

John J. Heitstuman P.E., D.WRE
 Chief Hydrology Section
 Walla Walla District USACE

William D. Proctor, P.E.
 Ch., Hydrologic Engineering and Power Branch
 Columbia Basin Water Management Division