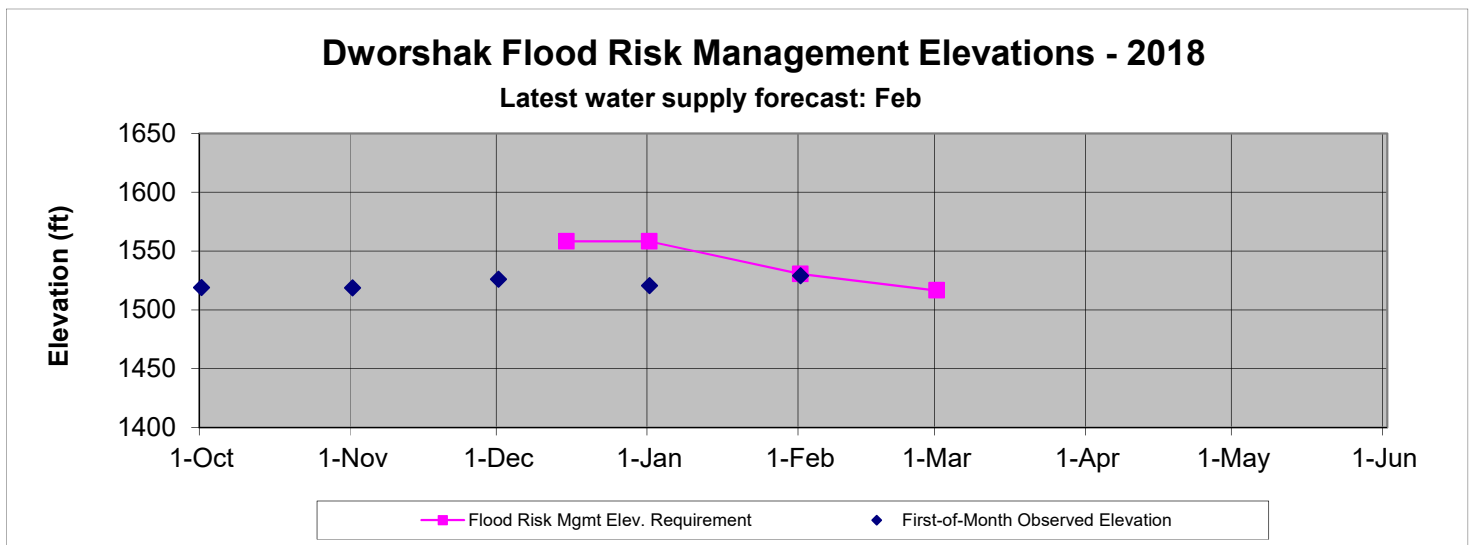
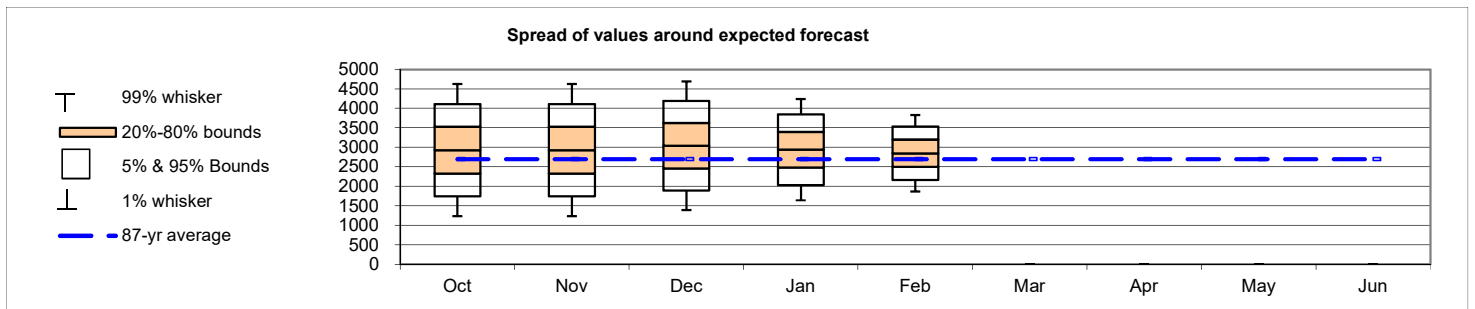


Runoff Forecast and Flood Risk Management (FRM)				1981-2010 Average	Percent of 30yr Average	1929-2008 Average	Percent of Average		
Most Probable Runoff Volume	Apr-Jul	2849	KAF	2438	117%	2696	106%		
	May-Jul	2083	KAF	1784	117%	1972	106%		
28/29-Feb Flood Risk Management Space		1276	KAF						
28/29-Feb Flood Risk Management Elevation		1516.5	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	3043	2941	2849				
First-of-Month Elev	1519.1	1518.7	1526.2	1520.7	1529.1				
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	31-May
FRM Space	--	700	700	1090	1276				
FRM Elevation	--	1558.2	1558.2	1530.5	1516.5				



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	0.60		264.27	158.6
HQSI Cumulative Precip	Oct-Date	20.45	105%	27.04	553.0
Elk Butte SWE	1-Feb	31.9	137%	12.06	384.7
Cool Creek SWE	1-Feb	32.0	111%	11.35	363.2
Hoodoo Basin SWE	1-Feb	29.5	114%	10.97	323.6
Sherwin SWE	1-Feb	7.0	91%	29.17	204.2
Lost Lake SWE	1-Feb	38.0	110%	7.60	288.8
Intercept		1		572.93	572.9
1-Feb Forecast (KAF)				Σ	2849.0

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	3.65	6.20	6.10	4.50	--	--	--		
Cumulative HQSI Data	3.65	9.85	15.95	20.45	--	--	--		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				16.1	31.9	--	--		
Cool Creek, ID				18.9	32.0				
Hoodoo Basin, MT				18.7	29.5	--	--	--	--
Sherwin, ID				5.1	7.0	--	--		
Shanghi Summit, ID								--	--
Lost Lake, ID				22.3	38.0	--	--	--	--
Hemlock, ID								--	--
Crater Meadows Mar						--	--		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				326	--	--	--	--	--

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. Elk Butte and Cool Creek SWE depth estimated by NRCS.
5. Headquarters Cumulative Precipitation was taken from the HDQI link and calculated from 1OCT-1FEB

Approval:

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

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