

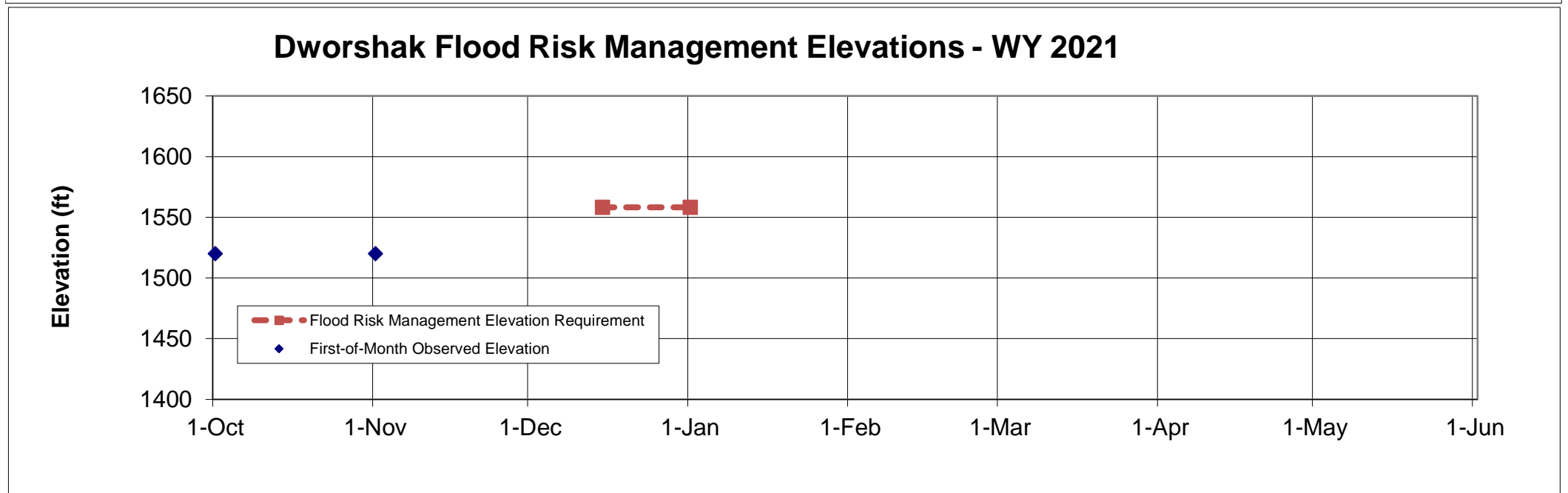
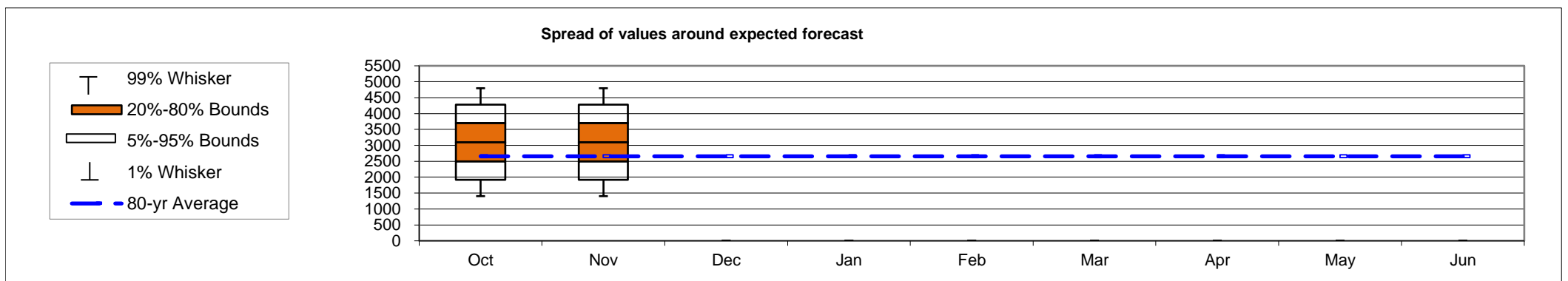
Runoff Forecast	November Value	1981-2010 Average	1981 - 2010 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (Kaf)	3100	2438	127%	2655	117%
Most Probable Runoff Volume: May-Jul (Kaf)	2268	1784	127%	1959	116%

Flood Risk Management (FRM)	November Value
31-December Flood Risk Management Space (Kaf)	700
31-December Flood Risk Management Elevation (ft)	1558.2

Seasonal Flood Risk Management (assumes no shift of Flood Risk Management space to Grand Coulee)

Seasonal FRM Forecast	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	3100	3100							
First-of-Month Elevation	1520.2	1520.2							

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



Dworshak: November Runoff Forecast and Flood Risk Management Calculation

Apr-Jul Runoff Forecast Calculation:

Variable	Month(s)	Units	Observed Value A	Percent of Average	Regression Coefficient B	Marginal Runoff (KAF) = A*B
SOI	Sept		0.90		569.47	512.5
Intercept			1		2587.57	2587.6
1-Nov Forecast	Apr-Jul	Kaf				3100.1

Data used in Dworshak Water Supply Forecast:

Climate Data										
	Sept									
SOI	0.90									
Precipitation Data		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Headquarters, ID (inch)		4.00	--	--	--	--	--	--	--	
Cumulative HQSI Data (inch)		4.00	--	--	--	--	--	--	--	
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