

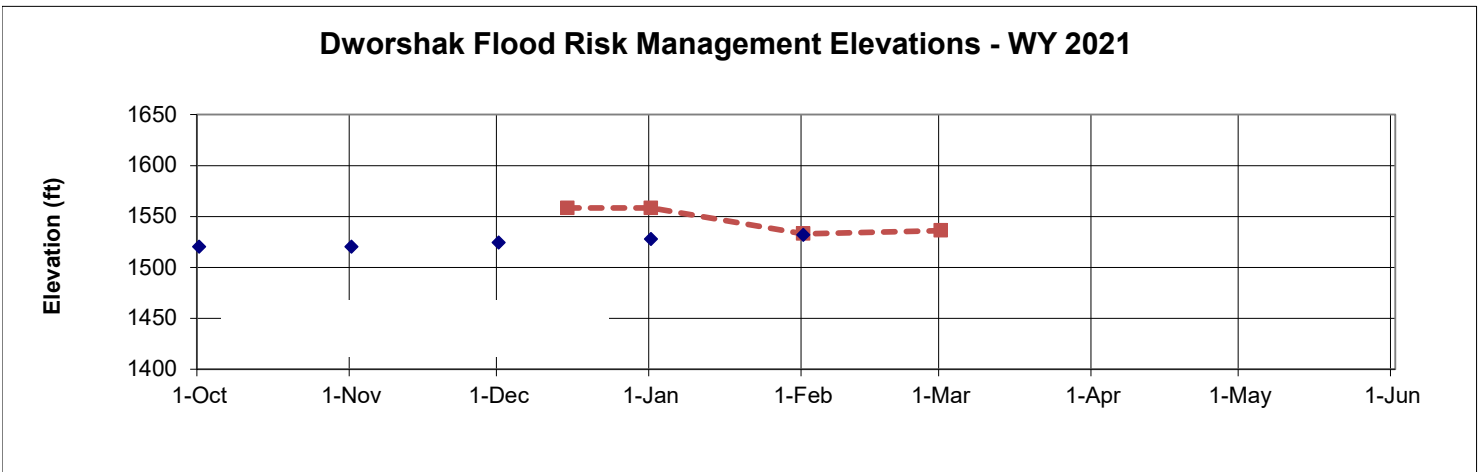
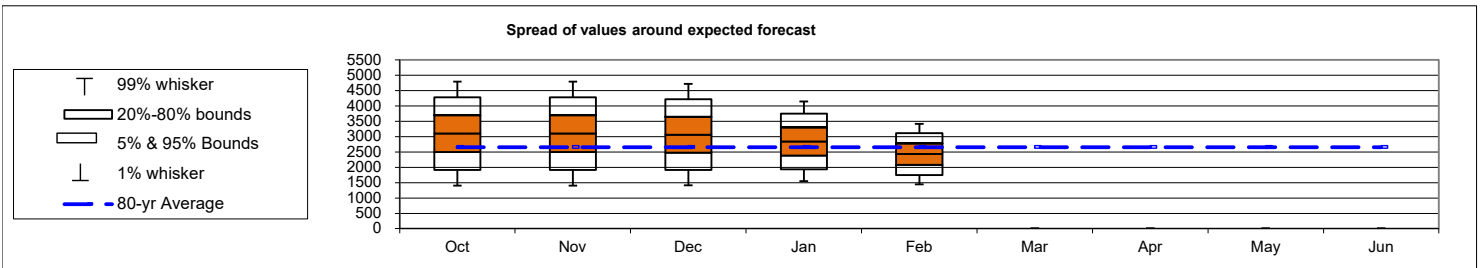
Runoff Forecast	February	1981-2010 Average	1981 - 2010 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	<b>2432</b>	2438	100%	2655	92%
Most Probable Runoff Volume: May-Jul (KAF)	<b>1779</b>	1784	100%	1959	91%

Flood Risk Management (FRM)	February Value
28-February Flood Risk Management Space (KAF)	<b>1013</b>
28-February Flood Risk Management Elevation (ft)	<b>1536.2</b>

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 (KAF)	3100	3100	3063	2843	2432				
First-of-Month Elevation (ft)	1520.2	1520.2	1524.2	1527.8	1531.7				

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	1057	1013				
Flood Risk Management Elevation (ft)	1558.2	1558.2	1533.0	1536.2				



## Dworshak : February 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		264.27	237.8
HQSI Cumulative Precipitation	Oct-Date	Inch	17.70	91%	27.04	478.6
Elk Butte SWE	1-Feb	Inch	19.2	83%	12.06	231.6
Cool Creek SWE	1-Feb	Inch	24.3	84%	11.35	275.8
Hoodoo Basin SWE	1-Feb	Inch	21.1	82%	10.97	231.5
Sherwin SWE	1-Feb	Inch	6.8	88%	29.17	198.4
Lost Lake SWE	1-Feb	Inch	27.0	78%	7.60	205.2
Intercept			1		572.93	572.9
1-Feb Forecast	Apr-Jul	KAF				2431.8

### 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	4.30	5.10	4.30	--	--	--	--	--
Cumulative HQSI Data (inch)		4.00	8.30	13.40	17.70	--	--	--	--	--
Snow Water Equivalent, 1st of Month		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Elk Butte, ID (inch)					13.0	19.2	--	--	--	--
Cool Creek, ID (inch)					16.4	24.3	--	--	--	--
Hoodoo Basin, MT (inch)					14.9	21.1	--	--	--	--
Sherwin, ID (inch)					5.6	6.8	--	--	--	--
Shanghi Summit, ID (inch)							--	--	--	--
Lost Lake, ID (inch)					18.8	27.0	--	--	--	--
Hemlock, ID (inch)							--	--	--	--
Crater Meadows Mar (inch)							--	--	--	--
Streamflow		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Dworshak Inflow Volume (KAF)					160	205	--	--	--	--

- 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. There is a snow flight scheduled in mid-Feb. to verify snow density in the basin.

Approval:

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