

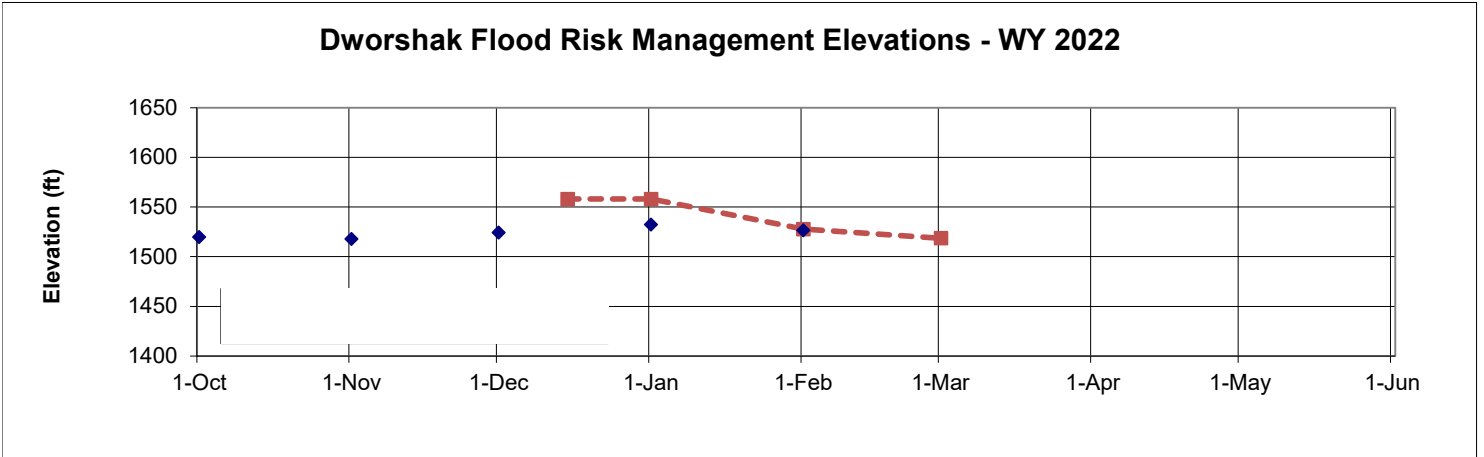
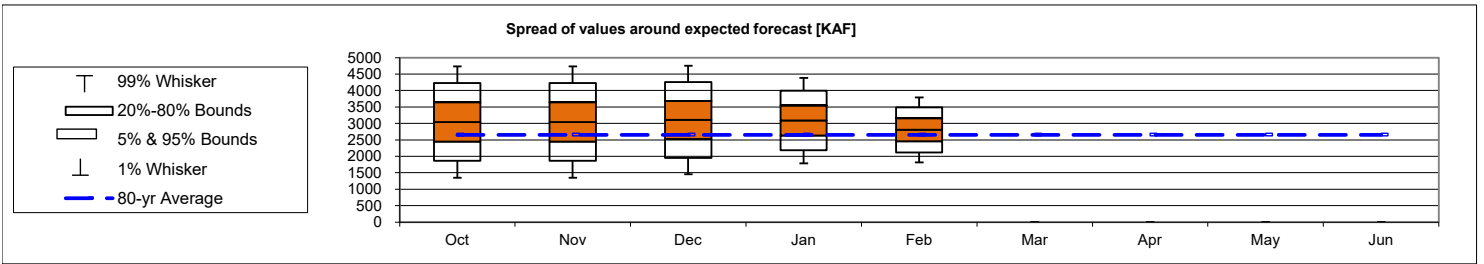
Runoff Forecast	February	1991-2020 Average	1991 - 2020 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	<b>2805</b>	2474	113%	2655	106%
Most Probable Runoff Volume: May-Jul (KAF)	<b>2027</b>	1788	113%	1959	103%

Flood Risk Management (FRM)	February Value
28-February Flood Risk Management Space (KAF)	<b>1248</b>
28-February Flood Risk Management Elevation (ft)	<b>1518.6</b>

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	3090	2805				
First-of-Month Elevation (ft)	1519.7	1517.7	1524.3	1532.3	1526.5				

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	1127	1248				
Flood Risk Management Elevation (ft)	1558.2	1558.2	1527.8	1518.6				



## Dworshak : February 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		264.27	211.4
HQSI Cumulative Precipitation	Oct-Date	Inch	22.60	126%	27.04	611.1
Elk Butte SWE	1-Feb	Inch	21.4	89%	12.06	258.1
Cool Creek SWE	1-Feb	Inch	31.2	104%	11.35	354.1
Hoodoo Basin SWE	1-Feb	Inch	26.0	99%	10.97	285.2
Sherwin SWE	1-Feb	Inch	9.1	118%	29.17	265.4
Lost Lake SWE	1-Feb	Inch	32.5	96%	7.60	247.0
Intercept			1		572.93	572.9
1-Feb Forecast	Apr-Jul	KAF				2805.3

### 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	7.50	5.70	--	--	--	--	
Cumulative HQSI Data (inch)		2.30	9.40	16.90	22.60	--	--	--	--	
Snow Water Equivalent, 1st of Month	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Elk Butte, ID (inch)				13.0	21.4	--	--	--	--	
Cool Creek, ID (inch)				20.7	31.2	--	--	--	--	
Hoodoo Basin, MT (inch)				18.1	26.0	--	--	--	--	
Sherwin, ID (inch)				6.1	9.1	--	--	--	--	
Shanghi Summit, ID (inch)						--	--	--	--	
Lost Lake, ID (inch)				21.3	32.5	--	--	--	--	
Hemlock, ID (inch)						--	--	--	--	
Crater Meadows Mar (inch)						--	--	--	--	
Streamflow	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Dworshak Inflow Volume (KAF)				205	145	--	--	--	--	

- 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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