

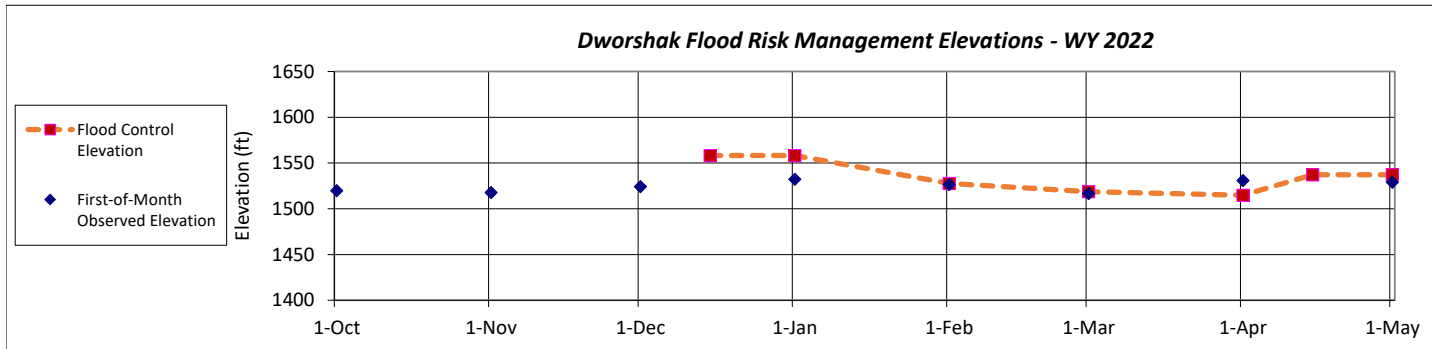
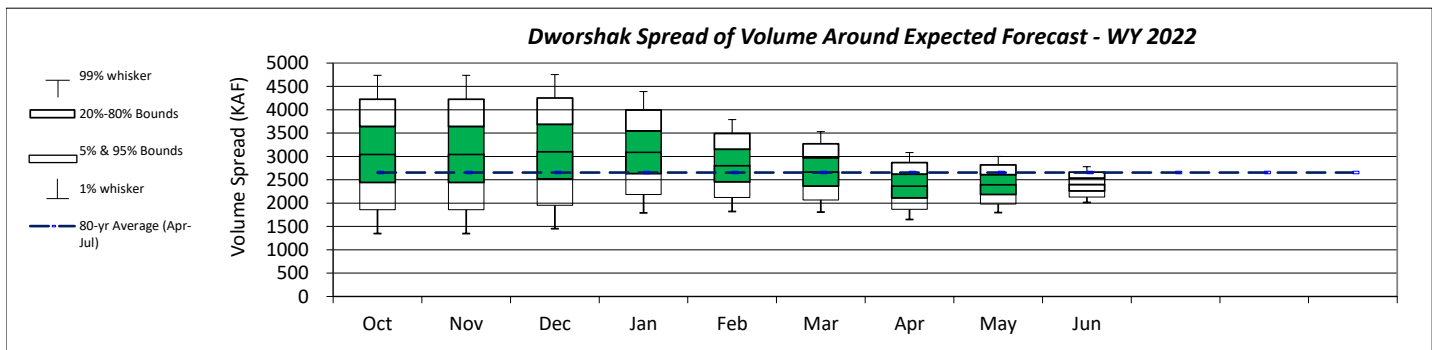
**Dworshak : June Runoff Forecast & Flood Risk Management Calculation**

Runoff Forecast	June Value	1991-2020 Average	1991 - 2020 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	2397	2474	97%	2655	90%
Most Probable Runoff Volume: Jun-Jul (KAF)	954	810	118%	914	104%

**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	2669	2367	2399	2397
First-of-Month Elevation (ft)	1519.7	1517.7	1524.3	1532.3	1526.5	1516.7	1530.9	1529.0	1580.6

Seasonal FRM Space	15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr
Flood Risk Management Space (KAF)	700	700	1127	1248	1297	1000	1000
Flood Risk Management Elevation (ft)	1558	1558	1527.8	1518.6	1514.8	1537	1537.2



**Dworshak : June Runoff Forecast & Flood Risk Management Calculation**

**Jun-Jul Runoff Forecast Calculation**

<i>Variable</i>	<i>Month(s)</i>	<i>Units</i>	<i>Observed Value A</i>	<i>Percent of Average (1991-2020)</i>	<i>Regression Coefficient B</i>	<i>Marginal Runoff (KAF) A*B</i>
Hoodoo Basin SWE	1-Jun	Inch	37.40	130%	8.21	307.1
Shanghi Summit SWE	1-Jun	Inch	0.10	0%	10.26	1.0
Lost Lake SWE	1-Jun	Inch	44.70	135%	6.14	274.5
Hemlock SWE	1-Jun	Inch	30.80	178%	7.57	233.2
Intercept			1		138.78	138.8
1-Jun Forecast	Jun-Jul	KAF				954.5

**Data used in Dworshak Water Supply Forecast**

<i>Climate Data</i>	<i>Sept</i>								
SOI	0.80								
<i>Precipitation Data</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Headquarters, ID (inch)	2.30	7.10	7.50	5.70	2.60	3.30	4.20		
Cumulative HQSI Data (inch)	<b>2.30</b>	<b>9.40</b>	<b>16.90</b>	<b>22.60</b>	<b>25.20</b>	<b>28.50</b>	<b>32.70</b>		
<i>Snow Water Equivalent, 1st of Month</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>
Elk Butte, ID (inch)				13.0	21.4	24.8	25.6		
Cool Creek, ID (inch)				20.7	31.2				
Hoodoo Basin, MT (inch)				18.1	26.0	31.8	36.6	42.4	37.4
Sherwin, ID (inch)				6.1	9.1	10.9	2.5		
Shanghi Summit, ID (inch)								16.6	0.1
Lost Lake, ID (inch)				21.3	32.5	39.4	42.3	49.3	44.7
Hemlock, ID (inch)								51.0	30.8
Crater Meadows Mar (inch)						37.0	41.3		
<i>Streamflow</i>	<i>Sept</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>
Dworshak Inflow Volume (KAF)				205	145	109	533	414	1029

**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:

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