

# Dworshak : February Runoff Forecast & Flood Control Calculation

WY 2008

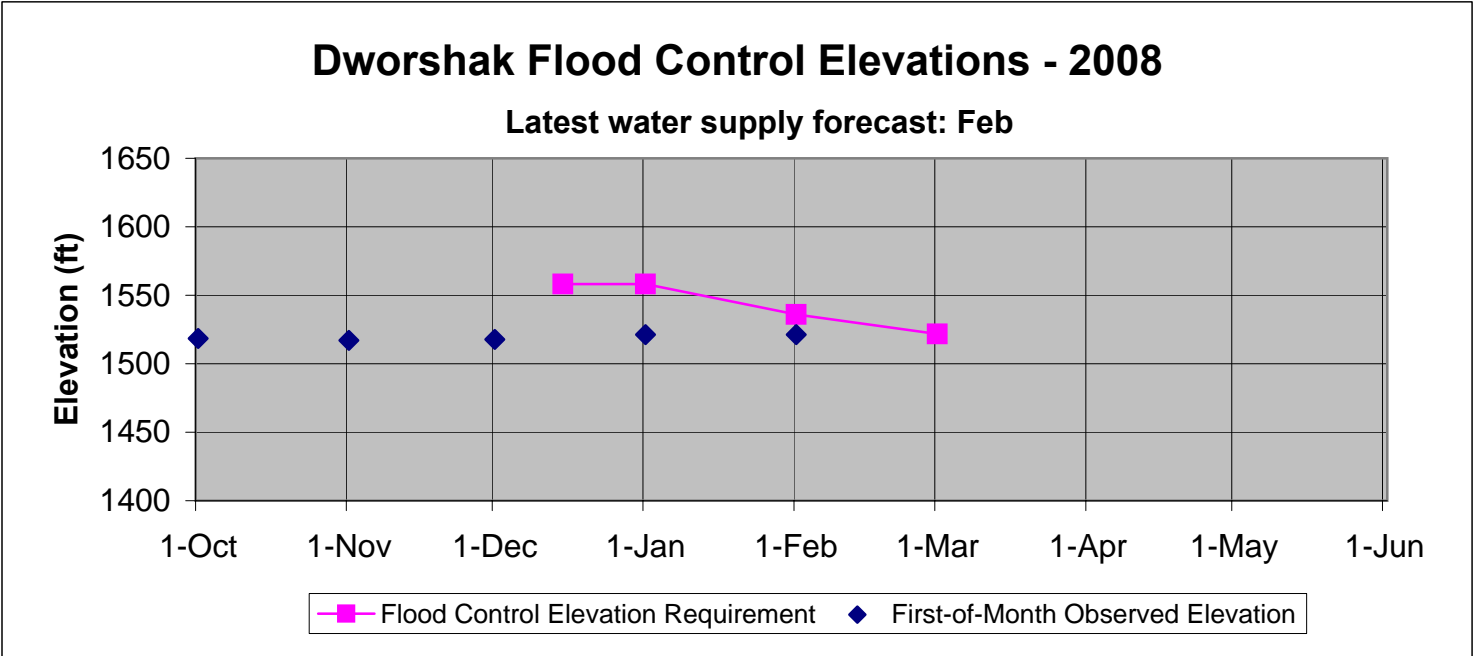
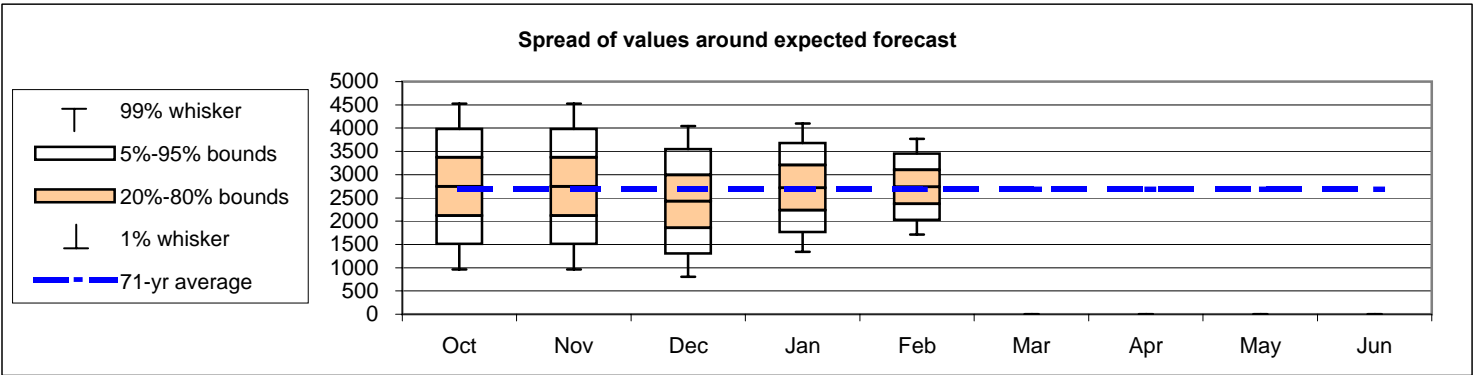
## Runoff Forecast and Flood Control

<b>Most Probable Runoff Volume</b>	<b>Apr-Jul</b>	<b>2738</b>	<b>KAF</b>
	<b>May-Jul</b>	<b>2021</b>	<b>KAF</b>
<b>28/29 Feb Flood Control Space</b>		<b>1206</b>	<b>KAF</b>
<b>28/29 Feb Flood Control Elevation</b>		<b>1521.8</b>	<b>ft</b>

1929-1999 Average	Percent of Average
2683	102%
1980	102%

## Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)

Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Apr-Jul Runoff Forecast</b>	2744	2744	2425	2717	2738				
<b>First-of-Month Elev</b>	1518.4	1517.1	1517.7	1521.2	1521.3				
<b>Date &gt;&gt;</b>		<b>15-Dec</b>	<b>31-Dec</b>	<b>31-Jan</b>	<b>28-Feb</b>	<b>31-Mar</b>	<b>15-Apr</b>	<b>30-Apr</b>	
<b>Flood Control Space</b>	--	700	700	1015	1206				
<b>Flood Control Elevation</b>	--	1558.2	1558.2	1536.1	1521.8				



Notes:

- The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Ken Soderlind (503 808-3950), Patti Low (503 808-3958), or John McCoskery (503 808-3951).
- Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
- 15-Dec and 31-Dec flood control space is fixed at 700 KAF.

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Apr-Jul Runoff Forecast Calculation:					
Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
SOI	Sep	0.20		108.05	21.6
Elk Butte SWE	1-Feb	29.70	110%	19.57	581.2
Hemlock Butte SWE	1-Feb	34.00	106%	17.27	587.2
Hoodoo Basin SWE	1-Feb	32.70	109%	19.13	625.6
Pierce SWE	1-Feb	8.90	115%	48.51	431.8
DWR January Inflow	Jan	86.68	43%	0.895	77.6
Intercept		1		413.05	413.1
1-Feb Forecast (KAF)				Σ	2738.0

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
<b>Climate (Stdzd SOI)</b>									
September SOI	0.20								
<b>Precipitation (monthly depth, inches)</b>									
Headquarters, ID		3.40	8.63						
<b>Snow Water Equiv (first of month SWE depth, inches)</b>									
Elk Butte, ID				16.7	29.7	--	--	--	--
Hemlock Butte, ID				19.6	34.0	--	--	--	--
Hoodoo Basin, MT				21.5	32.7	--	--	--	--
Pierce RS, ID				4.0	8.9	--			
Shanghi Summit, ID							--	--	
Lost Lake, ID								--	--
<b>Streamflow (monthly volume, KAF)</b>				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				87	--	--	--	--	--