

Runoff Forecast	January Value	1981-2010 Average	1981 - 2010 Percent of Average	1929-2008 Average	1929 - 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	2843	2438	117%	2655	107%
Most Probable Runoff Volume: May-Jul (KAF)	2080	1784	117%	1959	106%

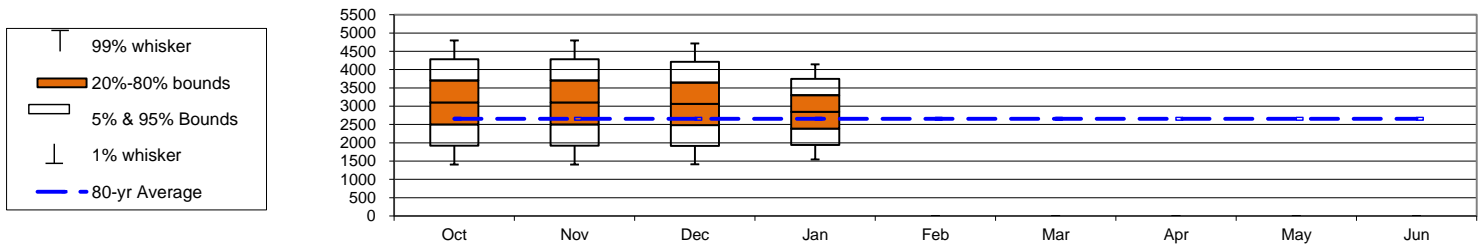
Flood Risk Management (FRM)	January Value
31-January Flood Risk Management Space (KAF)	1057
31-January Flood Risk Management Elevation (ft)	1533.0

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

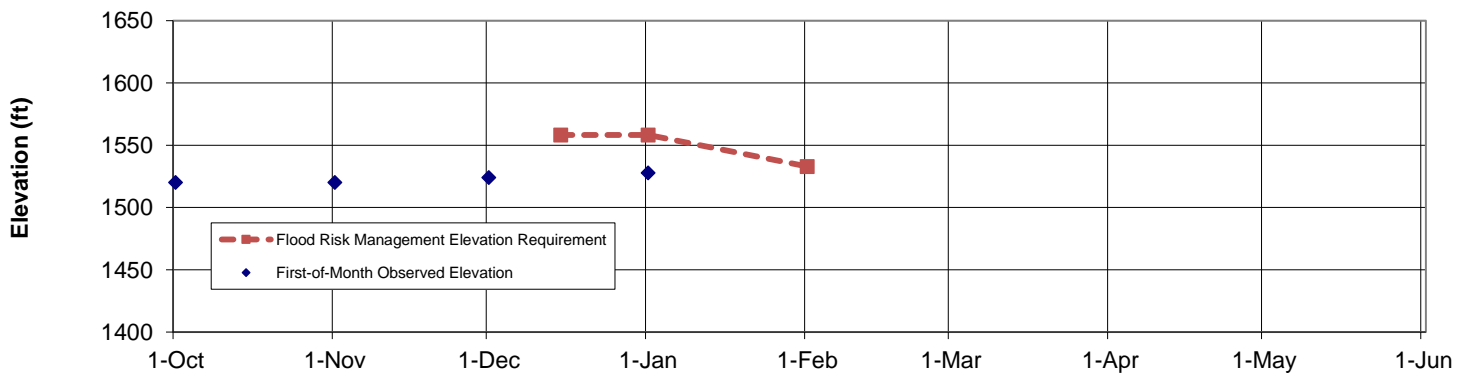
Seasonal FRM Forecast	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	3100	3100	3063	2843					
First-of-Month Elevation	1520.2	1520.2	1524.2	1527.8					

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	1057					
Flood Risk Management Elevation	1558.2	1558.2	1533.0					

Spread of values around expected forecast



Dworshak Flood Risk Management Elevations - WY 2021



Dworshak : January 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		355.71	320.1
HQSI Cumulative Precipitation	Oct-Date	Inch	13.40	96%	48.12	644.8
Elk Butte SWE	1-Jan	Inch	13.00	88%	6.25	81.3
Cool Creek SWE	1-Jan	Inch	16.4	91%	9.96	163.3
Hoodoo Basin SWE	1-Jan	Inch	14.9	88%	12.22	182.1
Sherwin SWE	1-Jan	Inch	5.6	123%	44.69	252.1
Lost Lake SWE	1-Jan	Inch	18.8	82%	4.24	79.6
Intercept			1		1119.86	1119.9
1-Jan Forecast	Apr-Jul	KAF				2843.2

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

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.

Approval:

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