

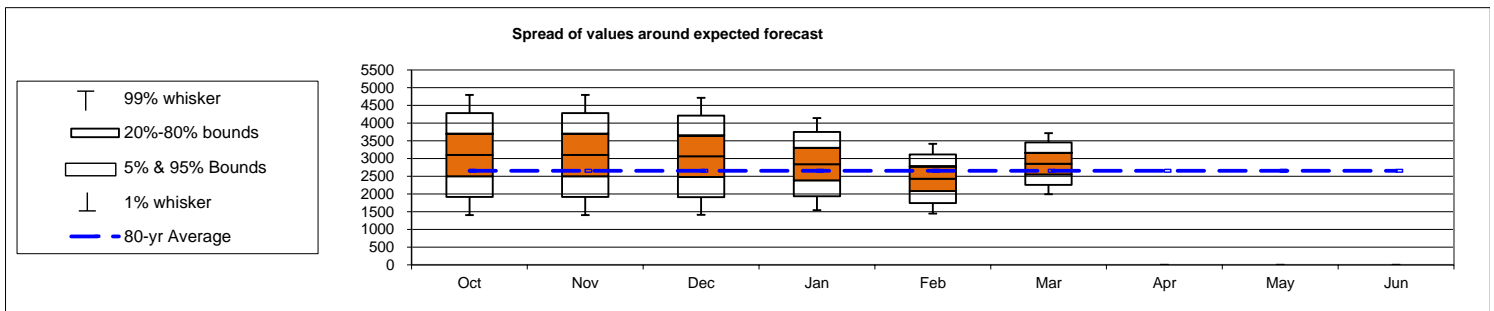
Runoff Forecast	March	1981-2010 Average	1981 2010 Percent of Average	1929-2008 Average	1929 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	2855	2438	117%	2655	108%
Most Probable Runoff Volume: May-Jul (KAF)	2089	1784	117%	1959	107%

Flood Risk Management (FRM)	March
31-March Flood Risk Management Space (KAF)	1534
31-March Flood Risk Management Elevation (ft)	1494.6

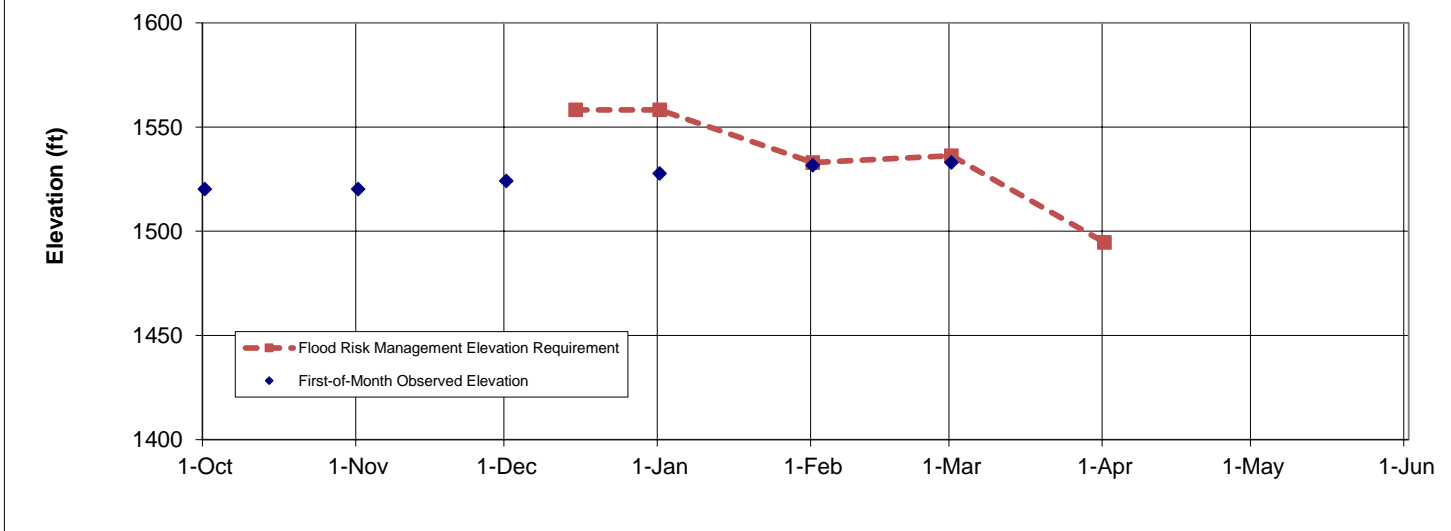
Seasonal Flood Risk Management (assumes no shift of Flood Risk Management space to Grand Coulee)

Seasonal FRM Forecast	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast (KAF)	3100	3100	3063	2843	2432	2855			
First-of-Month Elevation (ft)	1520.2	1520.2	1524.2	1527.8	1531.7	1533.0			

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	1534			
Flood Risk Management Elevation (ft)	1558.2	1558.2	1533.0	1536.2	1494.6			



Dworshak Flood Risk Management Elevations - WY 2021



Dworshak : March 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		220.73	198.7
HQSI Cumulative Precipitation	Oct-Date	Inch	23.61	105%	23.39	552.2
Elk Butte SWE	1-Mar	Inch	34.2	116%	10.16	347.5
Hoodoo Basin SWE	1-Mar	Inch	30.9	95%	10.01	309.3
Sherwin SWE	1-Mar	Inch	11.9	137%	25.42	302.5
Lost Lake SWE	1-Mar	Inch	44.0	102%	6.99	307.6
Crater meadows SWE	1-Mar	Inch	41.4	117%	13.06	540.7
Intercept			1		296.75	296.8
1-Mar Forecast	Apr-Jul	KAF				2855.2

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	4.30	5.91	--	--	
Cumulative HQSI Data (inch)			4.00	8.30	13.40	17.70	23.61	--	--	
Snow Water Equivalent, 1st of Month		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Elk Butte, ID (inch)					13.0	19.2	34.2	--		
Cool Creek, ID (inch)					16.4	24.3				
Hoodoo Basin, MT (inch)					14.9	21.1	30.9	--	--	--
Sherwin, ID (inch)					5.6	6.8	11.9	--		
Shanghi Summit, ID (inch)									--	--
Lost Lake, ID (inch)					18.8	27.0	44.0	--	--	--
Hemlock, ID (inch)									--	--
Crater Meadows Mar (inch)							41.4	--		
Streamflow		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Dworshak Inflow Volume (KAF)					160	205	146	--	--	--

Notes:

- 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).
- Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.

Approval:

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