

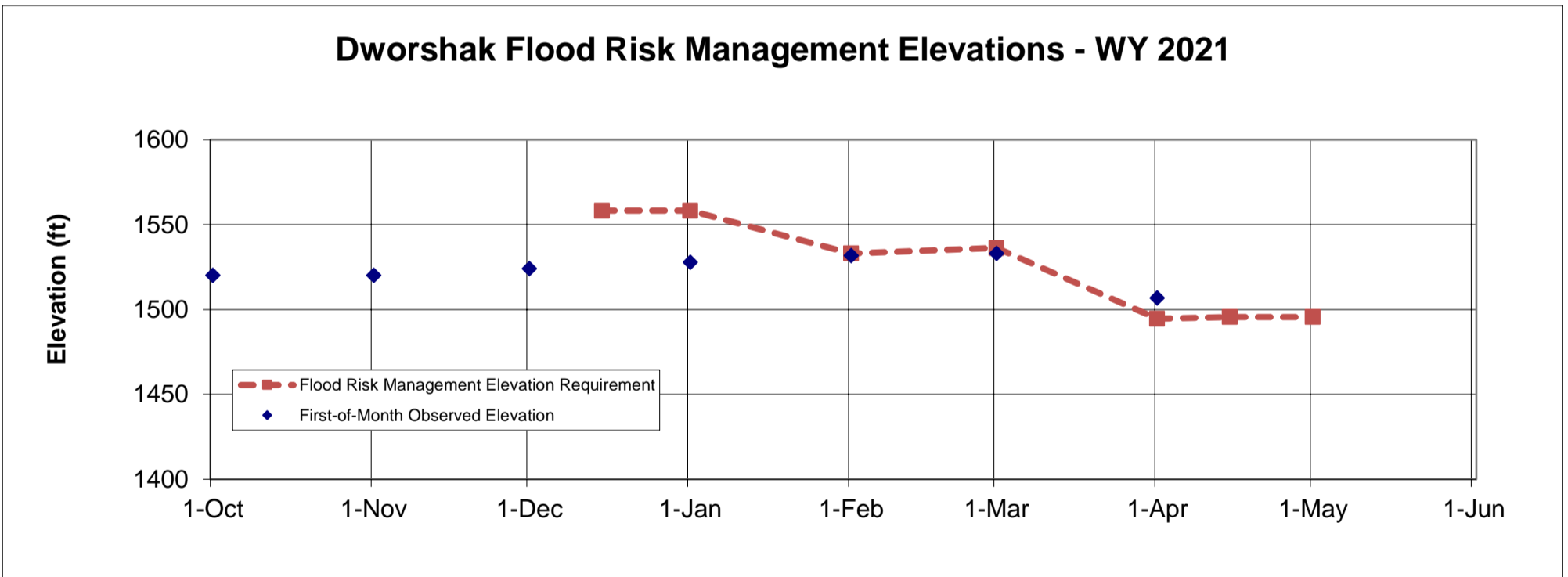
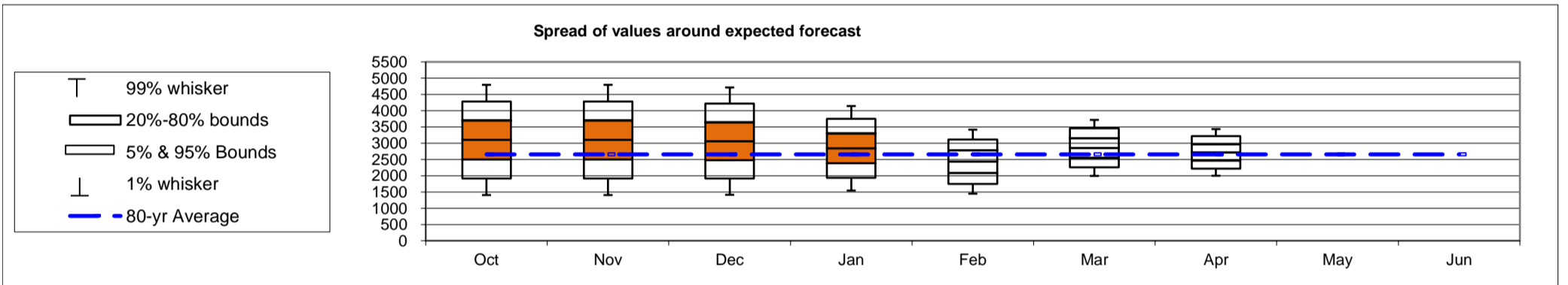
Runoff Forecast	April	1981 2010 Average	1981 2010 Percent of Average	1929 2008 Average	1929 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	2716	2438	111%	2655	102%
Most Probable Runoff Volume: May-Jul (KAF)	1987	1784	111%	1959	101%

Flood Risk Management (FRM) April	
30-April Flood Risk Management Space (KAF)	1525
30-April Flood Risk Management Elevation (ft)	1495.5

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)	3100	3100	3063	2843	2432	2855	2716		
First-of-Month Elevation (ft)	1520.2	1520.2	1524.2	1527.8	1531.7	1533.0	1506.8		

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	1525	1525	
Flood Risk Management Elevation (ft)	1558.2	1558.2	1533.0	1536.2	1494.6	1495.5	1495.5	



Dworshak : April Runoff Forecast & 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		171.32	154.2
HQSI Cumulative Precipitation (calculated based on HQSI1 and PIR11 due to gage outage)	Oct-Date	Inch	25.55	94%	22.32	570.3
Elk Butte SWE	1-Apr	Inch	37.4	108%	11.61	434.2
Hoodoo Basin SWE	1-Apr	Inch	34.2	87%	10.27	351.2
Sherwin SWE	1-Apr	Inch	9.0	130%	19.49	175.4
Lost Lake SWE	1-Apr	Inch	48.8	94%	7.91	386.0
Crater meadows SWE	1-Apr	Inch	49.4	115%	13.37	660.5
Intercept			1		-15.43	-15.4
1-Apr Forecast	Apr-Jul	KAF				2716.4

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	1.94	--	
Cumulative HQSI Data (inch)		4.00	8.30	13.40	17.70	23.61	25.55	--	
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	37.4		
Cool Creek, ID (inch)				16.4	24.3				
Hoodoo Basin, MT (inch)				14.9	21.1	30.9	34.2	--	--
Sherwin, ID (inch)				5.6	6.8	11.9	9.0		
Shanghi Summit, ID (inch)								--	--
Lost Lake, ID (inch)				18.8	27.0	44.0	48.8	--	--
Hemlock, ID (inch)								--	--
Crater Meadows Mar (inch)						41.4	49.4		
Streamflow	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Dworshak Inflow Volume (KAF)				160	205	146	255	--	--

- 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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