

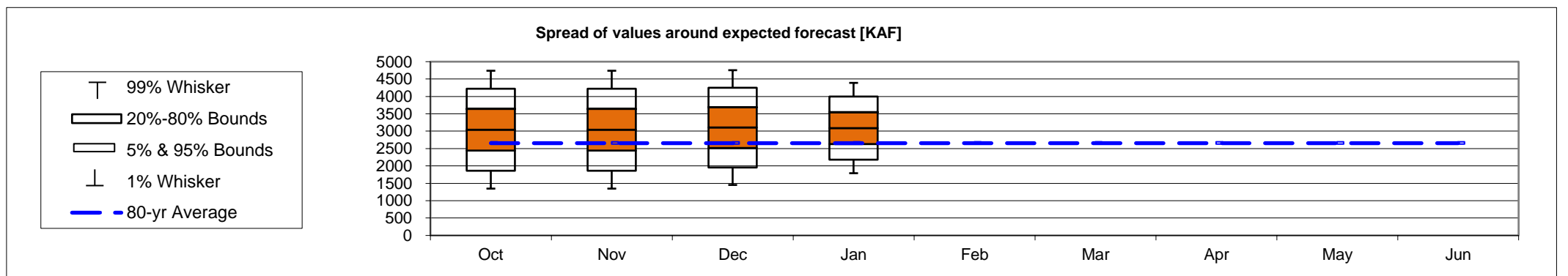
Runoff Forecast	January	1991-2020 Average	1991 2020 Percent of Average	1929-2008 Average	1929 2008 Percent of Average
Most Probable Runoff Volume: Apr-Jul (KAF)	3090	2474	125%	2655	116%
Most Probable Runoff Volume: May-Jul (KAF)	2233	1788	125%	1959	114%

Flood Risk Management (FRM)	January Value
31-January Flood Risk Management Space (KAF)	1127
31-January Flood Risk Management Elevation (ft)	1527.8

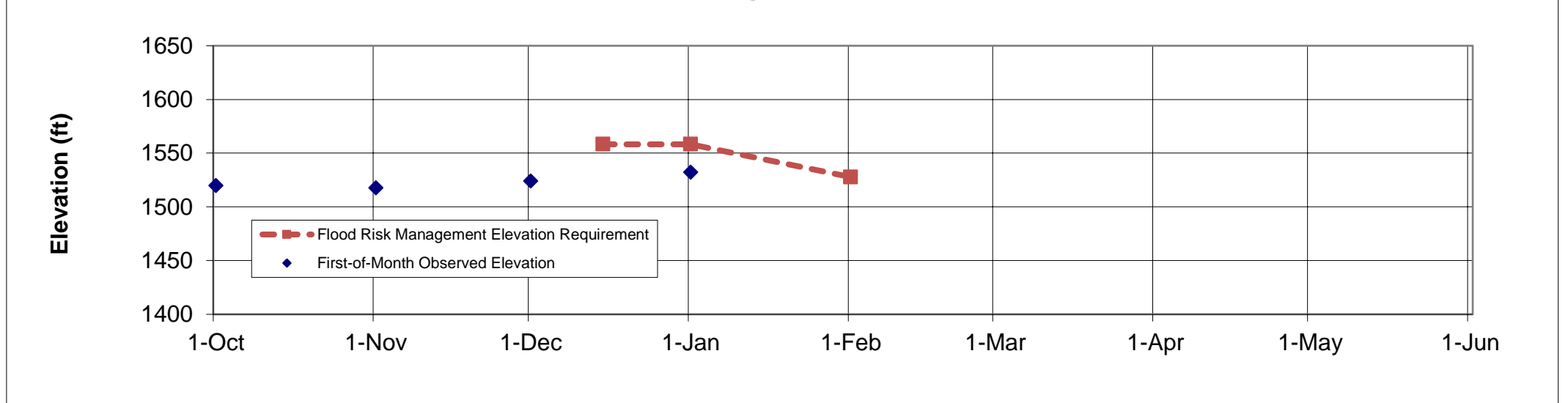
Seasonal Flood Risk Management (assumes no shift of Flood Risk Management space to Grand Coulee, nor refill on the Flood Control Refill Curve)

Seasonal FRM Forecast	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast (KAF)	3043	3043	3104	3090					
First-of-Month Elevation (ft)	1519.7	1517.7	1524.3	1532.3					

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	1127					
Flood Risk Management Elevation (ft)	1558.2	1558.2	1527.8					



### Dworshak Flood Risk Management Elevations - WY 2022



## Dworshak : January Runoff Forecast and Flood Risk Management Calculation

### Apr-Jul Runoff Forecast Calculation:

Variable	Month(s)	Units	Observed Value A	Percent of Average (1991-2020)	Regression Coefficient B	Marginal Runoff (KAF) A*B
SOI	Sept		0.80		355.71	284.6
HQSI Cumulative Precipitation	Oct-Date	Inch	16.90	129%	48.12	813.2
Elk Butte SWE	1-Jan	Inch	12.98	88%	6.25	81.1
Cool Creek SWE	1-Jan	Inch	20.7	109%	9.96	206.2
Hoodoo Basin SWE	1-Jan	Inch	18.1	106%	12.22	221.2
Sherwin SWE	1-Jan	Inch	6.1	136%	44.69	273.9
Lost Lake SWE	1-Jan	Inch	21.3	98%	4.24	90.3
Intercept			1		1119.86	1119.9
1-Jan Forecast	Apr-Jul	KAF				3090.4

### Data used in Dworshak Water Supply Forecast:

Climate Data		Sept								
SOI		0.80								
Precipitation Data		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Headquarters, ID (inch)			2.30	7.10	7.50	--	--	--	--	
Cumulative HQSI Data (inch)			2.30	9.40	16.90	-	-	-	-	
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)					20.7	--				
Hoodoo Basin, MT (inch)					18.1	--	--	--	--	--
Sherwin, ID (inch)					6.1	--	--	--		
Shanghi Summit, ID (inch)									--	--
Lost Lake, ID (inch)					21.3	--	--	--	--	--
Hemlock, ID (inch)									--	--
Crater Meadows Mar (inch)							--	--		
Streamflow		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Dworshak Inflow Volume (KAF)					205	--	--	--	--	--

#### 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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