

Summary of Columbia River Basin Flood Risk Management Requirements, 1-Mar

WY 2018

Issue Date: 14-Mar-2018

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
<b>Project Limits</b>								
Maximum Elevation, ft	2475.0	1444.0	2459.0	1892.0	3560.0	1290.0	2077.0	1600.0
Minimum Elevation, ft	2320.0	1378.0	2287.0	1794.2	3336.0	1208.0	1976.0	1445.0
Usable Storage, kaf	12053.3	7100.0	4979.5	1398.6	2981.0	5349.6	975.3	2015.7
Usable Storage, ksf	6076.9	3579.6	2510.5	705.1	1502.9	2697.1	491.7	1016.3

<b>Feb. 28/29 Project Conditions</b>								
Elevation, ft (MSL)	2385.3	1408.9	2385.9	1811.1	3525.8	1262.4	2037.4	1506.0
Draft, kaf	8141.0	4164.3	2813.9	1231.2	754.9	2100.1	472.5	1404.4
Usable Stor. less Draft, kaf	3912.3	2935.7	2165.6	167.4	2226.0	3249.4	502.8	611.3

<b>Draft Required to meet Mar. 31 Flood Risk Management</b>									
Elevation Reduction, ft	-	0.4	27.6	3.4	29.6	5.5	0.2	44.4	-
Storage Reduction, kaf	-	45.6	743.6	38.8	555.6	385.7	1.9	458.6	-

<b>1-Mar Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5665	3093	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	103%	128%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	156	244	-
Apr-Aug, kaf	11753	23532	7205	2174	-	65870	-	-	98132
Apr-Aug %-Normal (2)	107%	107%	122%	108%	-	116%	-	-	112%
Apr-Aug Change, kaf (1)	419	1087	440	113	-	1053	-	-	3384
May-Sep, kaf	-	-	-	-	2302	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	136%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	241	-	-	-	-

<b>System Draft Requirements</b>									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	2322	855	423	0	0	1079	1090
Feb. 28/29, kaf	2810	2603	2760	1215	677	34	375	1272	1276
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	3267	4210	3558	1270	1311	2486	474	1863	1484
Apr. 15, kaf	-	-	-	-	1470	3563	529	2016	1410
Apr. 30, kaf	3267	4210	3558	1270	1488	4287	581	1571	-

<b>System Elevation Requirements</b>									
Jan. 31, ft	-	1430.5	2401.8	1839.5	3541.5	1290.0	2077.0	1531.3	1530.5
Feb. 28/29, ft	-	1422.9	2387.7	1812.5	3529.6	1289.6	2046.8	1516.8	1516.5
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1408.5	2358.3	1807.7	3496.2	1256.9	2037.2	1461.6	1499.1
Apr. 15, ft	-	-	-	-	3486.5	1240.5	2031.6	1445.0	1505.5
Apr. 30, ft	-	1408.5	2358.3	1807.7	3485.4	1228.4	2026.1	1491.2	-

<b>Flood Risk Management Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	98132		
Apr-Aug %-Normal	112.1%		Upstream Storage Adjustment, kaf, Chart #2 (3) = 27074
Apr-Aug Change, kaf (1)	3384		Initial Controlled Flow, ICF, kcfs, Chart #1 (3) = 354
May-Aug, kaf	82652		Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) = 613

- Notes:
- 1 Change in official forecast from the previous month.
  - 2 All %-Normal values are based on 30-year (1981-2010) Runoff Volume averages as determined by the Northwest River Forecast Center.
  - 3 See Charts 1 and 2 of Columbia River Treaty Flood Control Operating Plan, Corps of Engineers, Northwestern Division, Corps of Engineers.

Questions? Contact Ron Malmgren, 503-808-3975, or Ron Thomasson, 503-808-3994 or Jason Ward, 503-808-3952