

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

WY 2017

Issue Date: 10-Apr-2017

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
Project Limits								
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, ksfd	6076.9	3579.6	2510.5	705.1	1502.9	2697.1	491.7	1016.3

Mar. 31 Project Conditions								
Elevation, ft (MSL)	2396.1	1407.8	2385.6	1799.4	3537.8	1248.1	2025.4	1527.0
Draft, kaf	7350.2	4285.4	2823.8	1355.5	503.9	3080.7	587.7	1138.1
Usable Stor. less Draft, kaf	4703.1	2814.6	2155.7	43.1	2477.1	2268.8	387.6	877.6

Draft Required to meet Apr. 30 Flood Risk Management								
Elevation Reduction, ft	-	-	60.1	-	6.5	25.4	12.8	78.8
Storage Reduction, kaf	-	-	1478.1	-	137.0	1521.3	113.3	848.6

1-Apr Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	10845	2984	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	198%	123%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	3285	117	-
Apr-Aug, kaf	11316	22616	7654	2005	-	64955	-	-	105039
Apr-Aug %-Normal (2)	103%	103%	130%	100%	-	114%	-	-	120%
Apr-Aug Change, kaf (1)	518	1367	871	63	-	7619	-	-	12702
May-Sep, kaf	-	-	-	-	1769	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	105%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	78	-	-	-	-

System Draft Requirements									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	2503	857	373	0	0	1113	1120
Feb. 28/29, kaf	2810	2603	1116	1181	256	0	359	1068	1082
Mar. 15, kaf	-	-	-	1212	-	-	-	-	-
Mar. 31, kaf	4080	3600	2925	1212	460	1766	487	1550	1292
Apr. 15, kaf	-	-	-	-	592	3964	601	1987	1312
Apr. 30, kaf	4080	3600	4302	1270	641	4602	701	1987	-

System Elevation Requirements									
Jan. 31, ft	-	1430.5	2396.2	1839.3	3543.8	1290.0	2077.0	1528.8	1528.3
Feb. 28/29, ft	-	1422.9	2433.7	1815.3	3549.0	1290.0	2048.3	1532.2	1531.1
Mar. 15, ft	-	-	-	1812.8	-	-	-	-	-
Mar. 31, ft	-	1414.1	2382.1	1812.8	3539.8	1267.1	2036.0	1493.1	1515.2
Apr. 15, ft	-	-	-	-	3533.6	1234.0	2024.0	1448.2	1513.6
Apr. 30, ft	-	1414.1	2325.4	1807.7	3531.3	1222.7	2012.6	1448.2	-

Flood Risk Management Summary at The Dalles, Oregon			
Apr-Aug, kaf	105039		
Apr-Aug %-Normal	120.0%		Upstream Storage Adjustment, kaf, Chart #2 (3) = 25490
Apr-Aug Change, kaf (1)	12702		Initial Controlled Flow, ICF, kcfs, Chart #1 (3) = 368
May-Aug, kaf	88469		Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) = 662

- 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.