

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

WY 2018

Issue Date: 10-Apr-2018

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, ksfid	6076.9	3579.6	2510.5	705.1	1502.9	2697.1	491.7	1016.3

Mar. 31 Project Conditions								
Elevation, ft (MSL)	2367.4	1408.6	2358.4	1798.3	3496.0	1249.5	2036.4	1456.0
Draft, kaf	9353.2	4198.3	3555.8	1365.1	1314.6	2982.5	482.1	1915.0
Usable Stor. less Draft, kaf	2700.1	2901.6	1423.7	33.5	1666.4	2367.1	493.3	100.7

Draft Required to meet Apr. 30 Flood Risk Management								
Elevation Reduction, ft	-	-	-	-	20.5	26.9	21.7	-
Storage Reduction, kaf	-	-	-	-	328.3	1619.5	201.3	-

1-Apr Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	6436	3040	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	118%	126%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	771	-53	-
Apr-Aug, kaf	11727	23310	7189	2209	-	68335	-	-	103337
Apr-Aug %-Normal (2)	107%	106%	122%	110%	-	120%	-	-	118%
Apr-Aug Change, kaf (1)	-26	-221	-16	35	-	2465	-	-	5205
May-Sep, kaf	-	-	-	-	2395	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	141%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	93	-	-	-	-

System Draft Requirements									
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	-	-	-	-	1625	3964	592	1783	1363
Apr. 30, kaf	4080	3600	3534	1270	1643	4602	683	1474	-

System Elevation Requirements									
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	-	-	-	-	3476.6	1234.0	2025.0	1470.0	1509.4
Apr. 30, ft	-	1414.1	2359.3	1807.7	3475.5	1222.7	2014.7	1500.0	-

Flood Risk Management Summary at The Dalles, Oregon			
Apr-Aug, kaf	103337		
Apr-Aug %-Normal	118.1%		Upstream Storage Adjustment, kaf, Chart #2 (3) = 27353
Apr-Aug Change, kaf (1)	5205		Initial Controlled Flow, ICF, kcfs, Chart #1 (3) = 381
May-Aug, kaf	87036		Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) = 650

- 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