

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

WY 2017

Issue Date: 8-Mar-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

Feb. 28/29 Project Conditions								
Elevation, ft (MSL)	2406.0	1405.1	2395.2	1811.5	3541.9	1268.3	2050.0	1523.9
Draft, kaf	6585.1	4564.4	2534.5	1227.1	413.9	1676.2	340.9	1178.9
Usable Stor. less Draft, kaf	5468.3	2535.6	2445.0	171.5	2567.1	3673.4	634.4	836.8

Draft Required to meet Mar. 31 Flood Risk Management								
Elevation Reduction, ft	-	-	13.1	-	2.1	1.2	14.0	30.7
Storage Reduction, kaf	-	-	390.0	-	46.1	89.5	145.8	371.5

1-Mar Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	7560	2867	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	138%	119%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	2233	326	-
Apr-Aug, kaf	10798	21248	6783	1942	-	57336	-	-	92337
Apr-Aug %-Normal (2)	98%	97%	115%	97%	-	101%	-	-	105%
Apr-Aug Change, kaf (1)	61	183	1200	-12	-	3680	-	-	9516
May-Sep, kaf	-	-	-	-	1691	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	100%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	202	-	-	-	-

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	-	-	-	-	494	2979	537	1773	1195
Apr. 30, kaf	4080	3600	2925	1212	529	3854	573	1773	-

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	-	-	-	-	3538.2	1249.6	2030.8	1471.1	1522.6
Apr. 30, ft	-	1414.1	2382.1	1812.8	3536.6	1235.8	2026.9	1471.1	-

Flood Risk Management Summary at The Dalles, Oregon			
Apr-Aug, kaf	92337		
Apr-Aug %-Normal	105.5%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	24404
Apr-Aug Change, kaf (1)	9516	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	338
May-Aug, kaf	77770	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	571

- 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.