

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

WY 2018

Issue Date: 7-Feb-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

Jan. 31 Project Conditions								
Elevation, ft (MSL)	2400.8	1420.3	2401.8	1828.8	3538.5	1279.0	2043.6	1529.1
Draft, kaf	6989.2	2908.3	2322.0	1005.9	487.9	872.6	409.3	1108.8
Usable Stor. less Draft, kaf	5064.1	4191.6	2657.5	392.7	2493.1	4477.0	566.1	906.9

Draft Required to meet Feb. 28/29 Flood Risk Management									
Elevation Reduction, ft	-	-	14.0	16.3	8.9	-	-	12.4	-
Storage Reduction, kaf	-	-	438.4	209.1	188.7	-	-	163.0	-

1-Feb Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5509	2849	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	101%	118%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-181	-92	-
Apr-Aug, kaf	11334	22445	6765	2061	-	64817	-	-	94748
Apr-Aug %-Normal (2)	103%	102%	115%	103%	-	114%	-	-	108%
Apr-Aug Change, kaf (1)	216	839	120	65	-	8965	-	-	7466
May-Sep, kaf	-	-	-	-	2062	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	122%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	98	-	-	-	-

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	4080	3600	2898	1270	901	2110	450	1526	1276
Apr. 15, kaf	-	-	-	-	1009	3290	488	1740	1177
Apr. 30, kaf	4080	3600	2898	1270	1077	4074	524	1391	-

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	-	1414.1	2383.0	1807.7	3518.4	1262.2	2039.6	1495.4	1516.4
Apr. 15, ft	-	-	-	-	3512.8	1244.8	2035.9	1474.5	1524.0
Apr. 30, ft	-	1414.1	2383.0	1807.7	3509.2	1232.1	2032.1	1507.1	-

Flood Risk Management Summary at The Dalles, Oregon			
Apr-Aug, kaf	94748		
Apr-Aug %-Normal	108.2%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	25259
Apr-Aug Change, kaf (1)	7466	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	347
May-Aug, kaf	79801	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	589

- 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