

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

WY 2017

Issue Date: 9-Jan-2017

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, ksfd	6076.9	3579.6	2510.5	705.1	1502.9	2697.1	491.7	1016.3

<b>Dec. 31 Project Conditions</b>								
Elevation, ft (MSL)	2450.1	1417.8	2410.8	1863.7	3546.5	1281.6	2067.8	1537.3
Draft, kaf	2506.9	3188.6	2007.7	480.8	312.2	676.3	128.3	997.7
Usable Stor. less Draft, kaf	9546.5	3911.4	2971.8	917.8	2668.7	4673.3	847.0	1018.0

<b>Draft Required to meet Jan. 31 Flood Risk Management</b>								
Elevation Reduction, ft	-	-	14.6	24.3	2.7	-	-	8.5
Storage Reduction, kaf	-	-	495.5	376.2	60.7	-	-	115.5

<b>1-Jan Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	4801	3055	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	88%	126%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-	-	-
Apr-Aug, kaf	11569	23045	6861	2010	-	54930	-	-	84945
Apr-Aug %-Normal (2)	105%	105%	117%	100%	-	97%	-	-	97%
Apr-Aug Change, kaf (1)	-	-	-	-	-	-	-	-	-
May-Sep, kaf	-	-	-	-	1828	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	108%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-	-	-	-	-

<b>System Draft Requirements</b>									
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	2891	1215	484	0	340	1424	1404
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	4080	3600	3042	1270	607	537	379	1809	1454
Apr. 15, kaf	-	-	-	-	666	1344	369	1927	1376
Apr. 30, kaf	4080	3600	3042	1270	726	2520	368	1543	-

<b>System Elevation Requirements</b>									
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	2383.3	1812.5	3538.7	1290.0	2050.1	1504.3	1506.0
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1414.1	2377.9	1807.7	3532.9	1283.3	2046.5	1467.3	1501.8
Apr. 15, ft	-	-	-	-	3530.1	1272.8	2047.4	1454.7	1508.3
Apr. 30, ft	-	1414.1	2377.9	1807.7	3527.2	1256.4	2047.5	1493.8	-

<b>Flood Risk Management Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	84945		
Apr-Aug %-Normal	97.0%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	23493
Apr-Aug Change, kaf (1)	-	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	298
May-Aug, kaf	71545	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	519

- 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.