

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

WY 2016

Issue Date: 10-May-2016

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>Apr. 30 Project Conditions</b>								
Elevation, ft (MSL)	2406.0	1414.1	2406.5	1808.7	3534.0	1245.9	2050.3	1566.8
Draft, kaf	6581.9	3601.4	2161.2	1258.6	584.7	3222.9	336.9	571.3
Usable Stor. less Draft, kaf	5471.5	3498.6	2818.3	140.0	2396.3	2126.7	638.4	1444.4

<b>Apr. 30 Flood Risk Management</b>								
Elevation Reduction, ft	-	-	-	-	-	-	-	-
Storage Reduction, kaf	-	-	-	-	-	-	-	-

<b>1-May Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	4373	2090	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	80%	86%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-394	-218	-
Apr-Aug, kaf	10657	21988	5831	2063	-	56763	-	-	86841
Apr-Aug %-Normal (2)	97%	100%	99%	103%	-	100%	-	-	99%
Apr-Aug Change, kaf (1)	-385	-555	-850	91	-	-246	-	-	-26
May-Sep, kaf	-	-	-	-	1251	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	74%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-305	-	-	-	-

<b>System Draft Requirements</b>									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1648	1703	2083	850	300	0	0	712	727
Feb. 28/29, kaf	2824	2603	2145	1199	281	0	323	692	718
Mar. 15, kaf	-	-	-	1231	-	-	-	-	-
Mar. 31, kaf	4080	3600	2453	1231	337	1200	212	537	537
Apr. 15, kaf (4)	-	-	-	-	333	2650	296	618	618
Apr. 30, kaf	4080	3600	2772	1242	345	3357	374	912	-

<b>System Elevation Requirements</b>									
Jan. 31, ft	-	1430.5	2408.7	1839.8	3547.0	1290.0	2077.0	1557.4	1556.4
Feb. 28/29, ft	-	1422.9	2407.0	1813.8	3547.9	1290.0	2051.6	1558.8	1557.0
Mar. 15, ft	-	-	-	1811.1	-	-	-	-	-
Mar. 31, ft	-	1414.1	2397.8	1811.1	3545.4	1274.7	2061.1	1569.0	1569.0
Apr. 15, ft (4)	-	-	-	-	3545.6	1254.5	2054.0	1563.7	1563.7
Apr. 30, ft	-	1414.1	2387.4	1810.2	3545.0	1243.8	2046.9	1543.5	-

<b>Flood Risk Management Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	86841		
Apr-Aug %-Normal	99.2%		Upstream Storage Adjustment, kaf, Chart #2 (3) = 22243
Apr-Aug Change, kaf (1)	-26		Initial Controlled Flow, ICF, kcfs, Chart #1 (3) = 260
May-Aug, kaf	65204		Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) = 532

- 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.
  - 4 April 15 values include a shift of 294 kaf from DWR to GCL and a 75 kaf shift from BRN to GCL.

**Questions?** Contact Ron Malmgren, 503-808-3975, or Ron Thomasson, 503-808-3994.