

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

WY 2019

Issue Date: 8-Apr-2019

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

Mar. 31 Project Conditions								
Elevation, ft (MSL)	2346.4	1413.3	2405.8	1800.5	3520.7	1259.2	2040.2	1531.3
Draft, kaf	10631.2	3695.9	2185.9	1345.0	856.6	2323.4	443.9	1080.1
Usable Stor. less Draft, kaf	1422.2	3404.0	2793.6	53.6	2124.4	3026.2	531.5	935.6

Draft Required to meet Apr. 30 Flood Risk Management								
Elevation Reduction, ft	-	-	-	-	-	-	-	-
Storage Reduction, kaf	-	-	-	-	-	-	-	-

1-Apr Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5450	1964	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	100%	81%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-413	-178	-
Apr-Aug, kaf	10252	19774	4752	1893	-	47853	-	-	75577
Apr-Aug %-Normal (2)	93%	90%	81%	94%	-	84%	-	-	86%
Apr-Aug Change, kaf (1)	-721	-1549	-726	-114	-	-1145	-	-	-1059
May-Sep, kaf	-	-	-	-	1400	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	83%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-180	-	-	-	-

System Draft Requirements									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	1577	834	267	0	0	844	849
Feb. 28/29, kaf	2206	2081	1000	1215	262	0	219	673	694
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	3420	3030	793	1270	344	537	348	689	629
Apr. 15, kaf	-	-	-	-	163	537	209	460	309
Apr. 30, kaf	3212	2851	276	1163	150	882	115	460	-

System Elevation Requirements									
Jan. 31, ft	-	1430.5	2422.2	1840.9	3548.5	1290.0	2077.0	1548.3	1547.9
Feb. 28/29, ft	-	1427.3	2436.4	1812.5	3548.7	1290.0	2060.6	1560.1	1558.6
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1419.2	2441.3	1807.7	3545.1	1283.3	2049.3	1559.0	1563.0
Apr. 15, ft	-	-	-	-	3553.1	1283.3	2061.3	1573.8	1582.9
Apr. 30, ft	-	1420.8	2453.0	1816.8	3553.6	1278.9	2068.7	1573.8	-

Flood Risk Management Summary at The Dalles, Oregon			
Apr-Aug, kaf	75577		
Apr-Aug %-Normal	86.3%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	18363
Apr-Aug Change, kaf (1)	-1059	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	277
May-Aug, kaf	63655	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	452

- 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 Tom Chisholm 503-808-3958.

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