

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

WY 2022

Issue Date: 06-May-2022

Project Limits

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
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

Apr. 30 Project Conditions

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
Elevation, ft (MSL)	2359.0	1411.0	2369.0	1799.4	3527.6	1249.3	2055.6	1529.4
Draft, kaf	9885.9	3937.6	3283.5	1355.4	718.0	2995.7	277.8	1105.8
Usable Stor. less Draft, kaf	2167.4	3162.3	1696.0	43.2	2262.9	2353.9	697.5	909.9

Apr. 30 Flood Risk Management

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Elevation Reduction, ft	-	-	-	-	-	-	-	-	-
Storage Reduction, kaf	-	-	-	-	-	-	-	-	-

1-May Water Supply Forecast

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	3191	2399	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	62%	97%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-87	32	-
Apr-Aug, kaf	12507	24656	6740	2226	-	57157	-	-	83250
Apr-Aug %-Normal (2)	112%	111%	111%	109%	-	98%	-	-	93%
Apr-Aug Change, kaf (1)	-220	-6	-252	-88	-	-4689	-	-	-2757
May-Sep, kaf	-	-	-	-	1910	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	108%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	310	-	-	-	-

System Draft Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1609	1749	2851	857	407	0	0	1122	1127
Feb. 28/29, kaf	2810	2603	3417	1215	471	0	299	1248	1248
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	4080	3600	3209	1270	470	1442	237	1117	1116
Apr. 15, kaf	-	-	-	-	381	2395	111	681	681
Apr. 30, kaf	4080	3600	3238	1270	400	2903	0	960	-

System Elevation Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, ft	-	1430.1	2384.6	1839.3	3542.2	1290.0	2077.0	1528.2	1527.8
Feb. 28/29, ft	-	1422.9	2363.9	1812.5	3539.3	1290.0	2053.7	1518.6	1518.6
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1414.1	2371.8	1807.7	3539.3	1271.5	2059.1	1528.6	1528.6
Apr. 15, ft	-	-	-	-	3543.4	1258.2	2069.1	1559.5	1559.5
Apr. 30, ft	-	1414.1	2370.7	1807.7	3542.5	1250.7	2077.0	1540.0	-

Flood Risk Management Summary at The Dalles, Oregon

Parameter	Chart (3)	kaf	kcfs
The Dalles Apr-Aug Forecast	-	83250	-
The Dalles May-Aug Forecast	-	74656	-
Upstream Storage Correction	#2	24948	-
Corrected The Dalles May-Aug Forecast	-	49709	-
Initial Controlled Flow, ICF	#1	-	312
Estimated Unregulated Peak Discharge	#1-A	-	507

Notes:

- 1 Change in official forecast from the previous month.
- 2 All %-Normal values are based on 30-year (1991-2020) Runoff Volume averages as determined by the Northwest River Forecast Center.
- 3 Columbia River Treaty Flood Control Operating Plan, Corps of Engineers, Northwestern Division, Corps of Engineers, 2003.

Questions? Contact Kasi Whorley 503-808-3950, Christina Urbanczyk 503-808-3979, or Tom Chisholm 503-808-3958.