

Summary of Columbia River Basin Flood Risk Management Requirements, 1-May
Issue Date: 04-May-2023

WY 2023

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)	2350.4	1412.7	2403.9	1795.5	3513.3	1245.9	2060.6	1520.7
Draft, kaf	10403.0	3755.0	2250.6	1388.4	1000.3	3219.7	218.5	1220.8
Usable Stor. less Draft, kaf	1650.3	3344.9	2729.0	10.2	1980.7	2129.9	756.9	794.9

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	-	-	-	-	-	-	5496	2620	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	107%	106%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	562	99	-
Apr-Aug, kaf	9230	19586	4408	1787	-	51603	-	-	83148
Apr-Aug %-Normal (2)	83%	88%	73%	88%	-	89%	-	-	93%
Apr-Aug Change, kaf (1)	-703	-611	-286	-87	-	2314	-	-	6358
May-Sep, kaf	-	-	-	-	1550	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	88%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-130	-	-	-	-

System Draft Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys (3)	DWR Loc
Jan. 31, kaf	1146	1244	2054	829	418	0	0	827	827
Feb. 28/29, kaf	1882	1782	1678	1038	429	0	219	808	808
Mar. 15, kaf	-	-	-	1134	-	-	-	-	-
Mar. 31, kaf	2910	2576	1821	1134	534	648	130	812	812
Apr. 15, kaf	-	-	-	-	481	941	188	846	846
Apr. 30, kaf	3450	3056	1419	1144	514	761	108	1218	-

System Elevation Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys (3)	DWR Loc
Jan. 31, ft	-	1434.2	2409.5	1841.3	3541.7	1290.0	2077.0	1549.5	1549.5
Feb. 28/29, ft	-	1429.8	2419.6	1826.5	3541.2	1290.0	2060.5	1550.8	1550.8
Mar. 15, ft	-	-	-	1819.1	-	-	-	-	-
Mar. 31, ft	-	1423.1	2415.9	1819.1	3536.4	1281.9	2067.6	1550.5	1550.5
Apr. 15, ft	-	-	-	-	3538.8	1278.1	2063.1	1548.2	1548.2
Apr. 30, ft	-	1419.0	2426.2	1818.3	3537.3	1280.5	2069.3	1520.9	-

Flood Risk Management Summary at The Dalles, Oregon

Parameter	Chart (3)	kaf	kcfs
The Dalles Apr-Aug Forecast	-	83148	-
The Dalles May-Aug Forecast	-	73786	-
Upstream Storage Correction	#2	21735	-
Corrected The Dalles May-Aug Forecast	-	52051	-
Initial Controlled Flow, ICF	#1	-	329
Estimated Unregulated Peak Discharge	#1-A	-	506

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.
 - 4 Dworshak and Grand Coulee System Numbers include shift if applicable, when shift is maximal the System values at Dworshak are the same as Local
- Questions?** Contact Kasi Whorley 503-808-3950 or Haytham Oueidat 503-808-3740.