

Summary of Columbia River Basin Flood Risk Management Requirements, 1-Jan
Issue Date: 07-Jan-2022

WY 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

Dec. 31 Project Conditions

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
Elevation, ft (MSL)	2435.9	1414.1	2414.4	1868.2	3547.6	1285.7	2062.5	1532.3
Draft, kaf	3927.9	3601.4	1876.4	406.2	287.3	348.8	195.5	1066.5
Usable Stor. less Draft, kaf	8125.5	3498.6	3103.1	992.3	2693.7	5000.8	779.8	949.2

Draft Required to meet Jan. 31 Flood Risk Management

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Elevation Reduction, ft	-	-	29.7	28.9	5.4	-	-	4.1	-
Storage Reduction, kaf	-	-	974.5	450.8	119.3	-	-	55.1	-

1-Jan Water Supply Forecast

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5216	3090	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	102%	125%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-	-	-
Apr-Aug, kaf	13115	25497	7273	2361	-	60042	-	-	91310
Apr-Aug %-Normal (2)	117%	115%	120%	116%	-	103%	-	-	102%
Apr-Aug Change, kaf (1)	-	-	-	-	-	-	-	-	-
May-Sep, kaf	-	-	-	-	1920	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	109%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-	-	-	-	-

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	2720	2674	3450	1215	548	142	361	1459	1426
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	3949	3698	3660	1270	705	2006	418	1859	1482
Apr. 15, kaf	-	-	-	-	780	2837	441	1958	1408
Apr. 30, kaf	3949	3698	3660	1270	856	3613	460	1569	-

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	-	1422.3	2362.6	1812.5	3535.7	1288.3	2048.1	1501.3	1504.2
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1413.2	2354.2	1807.7	3528.2	1263.7	2042.8	1462.0	1499.3
Apr. 15, ft	-	-	-	-	3524.5	1251.7	2040.5	1451.3	1505.7
Apr. 30, ft	-	1413.2	2354.2	1807.7	3520.7	1239.7	2038.6	1491.4	-

Flood Risk Management Summary at The Dalles, Oregon

Parameter	Chart (3)	kaf	kcfs
The Dalles Apr-Aug Forecast	-	91310	-
The Dalles May-Aug Forecast	-	76343	-
Upstream Storage Correction	#2	26927	-
Corrected The Dalles May-Aug Forecast	-	49416	-
Initial Controlled Flow, ICF	#1	-	308
Estimated Unregulated Peak Discharge	#1-A	-	564

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, Ron Thomasson 503-808-3994, or Tom Chisholm 503-808-3958.

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