

Summary of Columbia River Basin Flood Risk Management Requirements, 1-May
Issue Date: 06-May-2021

WY 2021

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)	2360.7	1413.4	2403.9	1795.1	3526.0	1269.1	2038.8	1521.8
Draft, kaf	9775.8	3676.2	2249.9	1392.1	749.7	1614.2	458.3	1205.8
Usable Stor. less Draft, kaf	2277.5	3423.8	2729.6	6.4	2231.3	3735.4	517.1	809.9

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	-	-	-	-	-	-	3007	2149	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	55%	89%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-446	-567	-
Apr-Aug, kaf	10783	21691	5191	2026	-	50446	-	-	74529
Apr-Aug %-Normal (2)	98%	99%	88%	101%	-	89%	-	-	85%
Apr-Aug Change, kaf (1)	-1011	-1417	-358	-146	-	-3409	-	-	-4204
May-Sep, kaf	-	-	-	-	1600	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	95%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-26	-	-	-	-

System Draft Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	2105	857	370	0	0	1045	1057
Feb. 28/29, kaf	2810	2603	2173	1215	373	0	276	1008	1013
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	4080	3600	2349	1270	582	790	265	1281	1281
Apr. 15, kaf	-	-	-	-	413	1204	67	1046	1046
Apr. 30, kaf	3831	3385	2039	1270	437	1341	42	1293	-

System Elevation Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, ft	-	1430.5	2408.1	1839.3	3543.9	1290.0	2077.0	1533.8	1533.0
Feb. 28/29, ft	-	1422.9	2406.2	1812.5	3543.8	1290.0	2055.7	1536.6	1536.2
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1414.1	2401.0	1807.7	3534.1	1280.1	2056.7	1516.0	1516.0
Apr. 15, ft	-	-	-	-	3541.9	1274.7	2072.3	1533.8	1533.8
Apr. 30, ft	-	1416.1	2409.9	1807.7	3540.9	1272.8	2074.1	1515.1	-

Flood Risk Management Summary at The Dalles, Oregon

Parameter	Chart (3)	kaf	kcfs
The Dalles Apr-Aug Forecast	-	74529	-
The Dalles May-Aug Forecast	-	64461	-
Upstream Storage Correction	#2	21434	-
Corrected The Dalles May-Aug Forecast	-	43027	-
Initial Controlled Flow, ICF	#1	-	260
Estimated Unregulated Peak Discharge	#1-A	-	445

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 Columbia River Treaty Flood Control Operating Plan, Corps of Engineers, Northwestern Division, Corps of Engineers, 2003.
- Questions?** Contact Ron Malmgren 503-808-3975, Kasi Whorley 503-808-3950, or Ron Thomasson 503-808-3994, or Tom Chisholm 503-808-3958.

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