

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

WY 2024

Issue Date: 03-May-2024

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)	2379.8	1413.6	2419.7	1797.3	3541.5	1279.0	2066.4	1573.1
Draft, kaf	8528.5	3661.9	1675.1	1374.2	422.9	874.9	145.5	471.8
Usable Stor. less Draft, kaf	3524.8	3438.0	3304.4	24.4	2558.1	4474.7	829.9	1543.9

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	-	-	-	-	-	-	5625	1677	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	110%	68%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-34	-188	-
Apr-Aug, kaf	8124	15963	5129	1694	-	42955	-	-	68320
Apr-Aug %-Normal (2)	73%	72%	84%	83%	-	74%	-	-	77%
Apr-Aug Change, kaf (1)	-1346	-2576	93	-36	-	-3795	-	-	-3371
May-Sep, kaf	-	-	-	-	1142	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	65%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-137	-	-	-	-

System Draft Requirements (5)

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys (3)
Jan. 31, kaf	915	1034	1757	782	211	0	0	715
Feb. 28/29, kaf	1241	1177	1547	1041	160	0	276	559
Mar. 15, kaf	-	-	-	1158	-	-	-	-
Mar. 31, kaf	2886	2554	1799	1158	148	537	322	458
Apr. 15, kaf	-	-	-	-	123	537	216	348
Apr. 30, kaf	2450	2145	1666	1000	105	537	116	348

System Elevation Requirements (5)

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys (3)
Jan. 31, ft	-	1435.9	2417.6	1844.4	3550.9	1290.0	2077.0	1557.2
Feb. 28/29, ft	-	1434.7	2423.0	1826.2	3553.2	1290.0	2055.7	1567.6
Mar. 15, ft	-	-	-	1817.2	-	-	-	-
Mar. 31, ft	-	1423.3	2416.4	1817.2	3553.7	1283.3	2051.6	1574.0
Apr. 15, ft	-	-	-	-	3554.8	1283.3	2060.8	1580.6
Apr. 30, ft	-	1426.8	2419.9	1829.3	3555.6	1283.3	2068.7	1580.6

Flood Risk Management Summary at The Dalles, Oregon

Parameter	Chart (3)	kaf	kcfs
The Dalles Apr-Aug Forecast	-	68320	-
The Dalles May-Aug Forecast	-	55974	-
Upstream Storage Correction	#2	14028	-
Corrected The Dalles May-Aug Forecast	-	41945	-
Initial Controlled Flow, ICF	#1	-	254
Estimated Unregulated Peak Discharge	#1-A	-	401

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.
- 5 FRM requirements represent Columbia River System FRM.

Questions? Contact Kasi Underhill 503-808-3950 or Haytham Oueidat 503-808-3740.