

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

**WY 2025**

Issue Date: 10-Jan-2025

**Project Limits**

Project >>	MCDB	ARDB	DCDB	LIB	HGH	DWR	BRN	GCL
Maximum Elevation, ft	2475.0	1444.0	1892.0	2459.0	3560.0	1600.0	2077.0	1290.0
Minimum Elevation, ft	2320.0	1378.0	1794.2	2287.0	3336.0	1445.0	1976.0	1208.0
Usable Storage, kaf	12053.3	7100.0	1398.6	4979.5	2981.0	2015.7	975.3	5349.6

**Dec. 31 Project Conditions**

Project >>	MCDB	ARDB	DCDB	LIB	HGH	DWR	BRN	GCL
Elevation, ft (MSL)	2436.9	1397.8	1855.9	2414.7	3525.3	1519.6	2070.7	1286.1
Draft, kaf	3834.7	5316.7	604.6	1866.0	764.3	1235.0	88.8	319.1
Usable Stor. less Draft, kaf	8218.6	1783.3	794.0	3113.6	2216.7	780.7	886.5	5030.5

**Draft Required to meet Jan. 31 Flood Risk Management**

Project >>	MCDB (4)	ARDB (4)	DCDB (4)	LIB	HGH	DWR	BRN	GCL
Elevation Reduction, ft	-	-	-	3.2	-	-	-	-
Storage Reduction, kaf	-	-	-	117.3	-	-	-	-

**1-Jan Water Supply Forecast**

Project >>	MCDB	ARDB	DCDB	LIB	HGH	DWR	BRN	GCL	TDA
Apr-Jul, kaf	-	-	-	-	-	2154	5032	-	-
Apr-Jul %-Normal (2)	-	-	-	-	-	87%	98%	-	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-	-	-
Apr-Aug, kaf	10686	21797	1915	5871	-	-	-	50979	79356
Apr-Aug %-Normal (2)	96%	98%	94%	97%	-	-	-	88%	89%
Apr-Aug Change, kaf (1)	-	-	-	-	-	-	-	-	-
May-Sep, kaf	-	-	-	-	1675	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	95%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-	-	-	-	-

**System Draft Requirements**

Project >>	MCDB + ARDB (4)	ARDB (4)	DCDB (4)	LIB	HGH	DWR (3)	BRN	GCL
Jan. 31, kaf	1632	1632	-	1983	317	818	0	0
Feb. 28/29, kaf	2180	2180	-	2100	377	834	162	162
Mar. 31, kaf	3485	3485	-	2255	443	639	145	745
Apr. 15, kaf	-	-	-	-	475	465	131	1109
Apr. 30, kaf	3485	3485	-	2297	507	693	206	1428

**System Draft Requirements (continued) - Apr. 30 (kaf)**

Project >>	WEL	RRH	WAN+PRD	JDA
FRM Space Requirement, kaf	-	-	-	-

**System Elevation Requirements**

Project >>	MCDB (4)	ARDB (4)	DCDB (4)	LIB	HGH	DWR (3)	BRN	GCL
Jan. 31, ft	-	1431.0	-	2411.5	3546.3	1550.1	2077.0	1290.0
Feb. 28/29, ft	-	1426.5	-	2408.2	3543.6	1549.0	2065.1	1288.0
Mar. 31, ft	-	1415.2	-	2403.8	3540.6	1562.3	2066.5	1280.7
Apr. 15, ft	-	-	-	-	3539.1	1573.5	2067.5	1275.9
Apr. 30, ft	-	1415.2	-	2402.5	3537.6	1558.7	2061.6	1271.7

**Flood Risk Management Summary at The Dalles, Oregon**

Parameter	kaf	kcfs
The Dalles Apr-Aug Forecast	79356	-
The Dalles May-Aug Forecast	66348	-
Initial Controlled Flow, ICF	-	297
Estimated Unregulated Peak Discharge	-	479

**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 System numbers include shift if applicable, when shift is maximal the System values re the same as Local
- 4 MCDB and DCDB do not have system FRM requirements unless an Article IV(3) call is active.
- 5 If FRM space is required at John Day or the middle Columbia projects, the date for maximum drawdown will be coordinated with operators in real-time. It is anticipated that all requested space would be available by the start of system refill.

Questions? Contact Kasi Underhill 503-808-3950 or Haytham Oueidat 503-351-5362.

Maximum Flood Risk Storage Shift from DWR and/or BRN to GCL																		
Date	GCL Non-Shifted FC Draft (kaf)	GCL Maximum Draft Limit (kaf)	GCL Maximum Shift Potential (kaf)	DWR FC Draft - System (kaf)	DWR FC Draft - Local (kaf)	DWR FC Shift - Granted (kaf)	DWR / GCL FC Shift - Allowable (kaf)	DWR Shifted FC Draft (kaf)	DWR Shifted FC Elevation (ft)	GCL Shifted FC Draft (w/DWR Shift) (kaf)	GCL Shifted FC Elevation (w/DWR Shift) (ft)	GCL Maximum Shift Potential remaining (kaf)	BRN FC Shift - Granted (kaf)	BRN / GCL FC Shift - Allowable (kaf)	BRN Shifted FC Draft (kaf)	BRN Shifted FC Elevation (ft)	GCL Shifted FC Draft (w/DWR+BRN Shift) (kaf)	GCL Shifted FC Elevation(w/DWR+BRN Shift) (ft)
Jan. 31	0	2798	2798	809	818	0	0	818	1550.1	0	1290.0	2798	0	0	0	2077.0	0	1290.0
Feb. 28/29	0	2798	2798	823	834	0	0	834	1549.0	0	1290.0	2798	162	162	162	2065.1	162	1288.0
Mar. 31	537	3345	2808	702	639	63	63	639	1562.3	600	1282.5	2745	145	145	145	2066.5	745	1280.7
Apr. 15	750	2379	1629	693	465	228	228	465	1573.5	978	1277.7	1401	131	131	131	2067.5	1109	1275.9
Apr. 30 b	1428	1428	0	693	-	0	0	693	1558.7	1428	1271.7	0	0	0	206	2061.6	1428	1271.7
Column Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Notes	-	a	2-1	-	-	4-5	Min 3,6	4-7	-	1+7	-	2-10	-	Min 12,13	-	-	10+14	-

**Notes:**

Under certain conditions the required flood risk draft at DWR and BRN may be shifted to GCL prior to 30-April. The shifted rule curve shown above represents the maximum allowable flood risk storage shift(s) for the current water year based on the current month's flood risk management requirements for each project and evacuation limitations at GCL; however, the actual volume shifted to GCL on any date is ultimately determined by the Bureau of Reclamation. The shift of volume for DWR to GCL has priority over the shift of volume from BRN to GCL in cases when GCL cannot accept the total combined volume.

b No shift is allowed, all projects to be back to their non-shifted flood risk draft requirement by 30-April.

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

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