

**Summary of Columbia River Basin Flood Risk Management Requirements, 1-Apr**  
**Issue Date: 07-Apr-2025**

**WY 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

**Mar. 31 Project Conditions**

Project >>	MCDB	ARDB	DCDB	LIB	HGH	DWR	BRN	GCL
Elevation, ft (MSL)	2395.8	1399.3	1805.4	2405.8	3512.5	1551.3	2047.4	1276.7
Draft, kaf	7372.8	5162.1	1295.5	2184.5	1015.1	800.5	368.7	1053.2
Usable Stor. less Draft, kaf	4680.6	1937.9	103.1	2795.0	1965.8	1215.2	606.6	4296.4

**Draft Required to meet Apr. 30 Flood Risk Management**

Project >>	MCDB (4)	ARDB (4)	DCDB (4)	LIB	HGH	DWR	BRN	GCL
Elevation Reduction, ft	-	-	-	-	-	5.0	-	11.5
Storage Reduction, kaf	-	-	-	-	-	71.0	-	848.6

**1-Apr Water Supply Forecast**

Project >>	MCDB	ARDB	DCDB	LIB	HGH	DWR	BRN	GCL	TDA
Apr-Jul, kaf	-	-	-	-	-	2281	5755	-	-
Apr-Jul %-Normal (2)	-	-	-	-	-	92%	112%	-	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	87	74	-	-
Apr-Aug, kaf	9929	19493	1815	5023	-	-	-	52841	81191
Apr-Aug %-Normal (2)	89%	88%	89%	83%	-	-	-	91%	91%
Apr-Aug Change, kaf (1)	315	380	74	19	-	-	-	6005	6068
May-Sep, kaf	-	-	-	-	1424	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	81%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	36	-	-	-	-

**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	1798	1798	-	1541	207	874	400	0
Mar. 31, kaf	2729	2729	-	1647	172	707	304	574
Apr. 15, kaf	-	-	-	-	189	670	380	1217
Apr. 30, kaf	3600	3600	-	1657	180	872	342	1902

**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	-	1429.7	-	2423.1	3551.2	1546.2	2044.5	1290.0
Mar. 31, ft	-	1421.8	-	2420.4	3552.7	1557.8	2053.3	1282.9
Apr. 15, ft	-	-	-	-	3551.9	1560.3	2046.3	1274.5
Apr. 30, ft	-	1414.1	-	2420.2	3552.3	1546.3	2049.9	1265.2

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

Parameter	kaf	kcfs
The Dalles Apr-Aug Forecast	81191	-
The Dalles May-Aug Forecast	67883	-
Initial Controlled Flow, ICF	-	306
Estimated Unregulated Peak Discharge	-	492

**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 Dworshak and Grand Coulee System numbers include shift if applicable, when shift is maximal the System values at Dworshak are 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.
- 6 BRN is targeting end of April FRM elevation of 2049.9 feet and not the April 15 target

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	869	874	0	0	874	1546.2	0	1290.0	2798	0	0	400	2044.5	0	1290.0
Mar. 31	537	3738	3201	743	670	37	73	707	1557.8	574	1282.9	3164	0	304	304	2053.3	574	1282.9
Apr. 15	1015	2619	1604	872	589	202	282	670	1560.3	1217	1274.5	1402	0	380	380	2046.3	1217	1274.5
Apr. 30 <b>b</b>	1902	1902	0	872	-	0	0	872	1546.3	1902	1265.2	0	0	0	342	2049.9	1902	1265.2
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.

BRN is targeting end of April FRM elevation of 2049.9 feet and not the April 15 target

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