

Summary of Columbia River Basin Flood Risk Management Requirements, 1-Mar
Issue Date: 07-Mar-2024

WY 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

Feb. 28/29 Project Conditions

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
Elevation, ft (MSL)	2391.7	1395.4	2416.4	1816.2	3534.1	1286.1	2049.2	1528.3
Draft, kaf	7677.5	5544.3	1800.4	1170.3	582.2	316.7	349.8	1119.5
Usable Stor. less Draft, kaf	4375.9	1555.7	3179.1	228.3	2398.8	5032.9	625.5	896.2

Draft Required to meet Mar. 31 Flood Risk Management

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Elevation Reduction, ft	-	-	-	-	-	2.8	-	-	-
Storage Reduction, kaf	-	-	-	-	-	220.3	-	-	-

1-Mar Water Supply Forecast

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5816	1894	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	113%	77%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	1058	154	-
Apr-Aug, kaf	10012	19684	5261	1888	-	48422	-	-	73915
Apr-Aug %-Normal (2)	90%	89%	87%	93%	-	83%	-	-	83%
Apr-Aug Change, kaf (1)	638	1428	518	117	-	4288	-	-	6149
May-Sep, kaf	-	-	-	-	1302	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	74%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	126	-	-	-	-

System Draft Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys (3)	DWR Loc
Jan. 31, kaf	915	1034	1757	782	211	0	0	715	715
Feb. 28/29, kaf	1241	1177	1547	1041	160	0	276	559	559
Mar. 15, kaf	-	-	-	1158	-	-	-	-	-
Mar. 31, kaf	2886	2554	1799	1158	148	537	322	458	434
Apr. 15, kaf	-	-	-	-	131	537	232	381	251
Apr. 30, kaf	2886	2554	1828	1158	113	594	132	381	-

System Elevation Requirements

Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys (3)	DWR Loc
Jan. 31, ft	-	1435.9	2417.6	1844.4	3550.9	1290.0	2077.0	1557.2	1557.2
Feb. 28/29, ft	-	1434.7	2423.0	1826.2	3553.2	1290.0	2055.7	1567.6	1567.6
Mar. 15, ft	-	-	-	1817.2	-	-	-	-	-
Mar. 31, ft	-	1423.3	2416.4	1817.2	3553.7	1283.3	2051.6	1574.0	1575.4
Apr. 15, ft	-	-	-	-	3554.4	1283.3	2059.5	1578.7	1586.3
Apr. 30, ft	-	1423.3	2415.7	1817.2	3555.2	1282.6	2067.5	1578.7	-

Flood Risk Management Summary at The Dalles, Oregon

Parameter	Chart (3)	kaf	kcfs
The Dalles Apr-Aug Forecast	-	73915	-
The Dalles May-Aug Forecast	-	61799	-
Upstream Storage Correction	#2	16054	-
Corrected The Dalles May-Aug Forecast	-	45745	-
Initial Controlled Flow, ICF	#1	-	283
Estimated Unregulated Peak Discharge	#1-A	-	441

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, when shift is maximal the System values at Dworshak are the same as Local
- Questions? Contact Kasi Underhill 503-808-3950 or Haytham Oueidat 503-808-3740.**

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