

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
Project Limits								
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	5185.3	975.3	2015.7
Usable Storage, ksfd	6076.9	3579.6	2510.5	705.1	1502.9	2614.3	491.7	1016.3

Feb. 28/29 Project Conditions								
Elevation, ft (MSL)	2399.3	1408.9	2422.8	1816.6	3528.4	1272.8	2071.9	1529.6
Draft, kaf	7107.5	4166.4	1554.3	1165.4	701.0	1327.4	72.6	1102.6
Usable Stor. less Draft, kaf	4945.9	2933.6	3425.2	233.2	2280.0	3857.9	902.7	913.1

Draft Required to meet Mar. 31 Flood Risk Management									
Elevation Reduction, ft	-	-	-	-	-	3.0	16.1	18.0	-
Storage Reduction, kaf	-	-	-	-	-	220.0	202.3	233.6	-

1-Mar Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	3861	2701	-
Apr-Jul %-Normal 2	-	-	-	-	-	-	71%	112%	-
Apr-Jul Change , kaf 1	-	-	-	-	-	-	615	427	-
Apr-Aug, kaf	10207	19926	5505	1761	-	57818	-	-	88832
Apr-Aug %-Normal 2	93%	91%	94%	88%	-	102%	-	-	101%
Apr-Aug Change , kaf 1	-151	-77	314	34	-	9621	-	-	16374
May-Sep, kaf	-	-	-	-	1839	-	-	-	-
May-Sep %-Normal 2	-	-	-	-	109%	-	-	-	-
May-Sep Change , kaf 1	-	-	-	-	55	-	-	-	-

System Draft Requirements									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	1400	744	358	0	0	864	869
Feb. 28/29, kaf	1840	1742	1000	998	453	0	49	908	912
Mar. 15, kaf	-	-	-	1031	-	-	-	-	-
Mar. 31, kaf	4080	3600	809	1031	619	1547	275	1336	1145
Apr. 15, kaf	-	-	-	-	680	2760	241	1502	1030
Apr. 30, kaf	4080	3600	809	1031	741	3706	234	1282	-

System Elevation Requirements									
Jan. 31, ft	-	1430.5	2426.7	1846.9	3544.4	1290.0	2077.0	1546.9	1546.5
Feb. 28/29, ft	-	1430.1	2436.4	1829.4	3540.1	1290.0	2073.6	1543.8	1543.5
Mar. 15, ft	-	-	-	1826.9	-	-	-	-	-
Mar. 31, ft	-	1414.1	2440.9	1826.9	3532.4	1269.8	2055.8	1511.6	1526.5
Apr. 15, ft	-	-	-	-	3529.4	1252.1	2058.7	1497.6	1534.9
Apr. 30, ft	-	1414.1	2440.9	1826.9	3526.4	1236.7	2059.3	1515.9	-

Flood Risk Management Summary at The Dalles, Oregon			
Apr-Aug, kaf	88832		
Apr-Aug %-Normal	101.5%		Upstream Storage Adjustment, kaf, Chart #2 (3) = 21927
Apr-Aug Change , kaf (1)	16374		Initial Controlled Flow, ICF, kcfs, Chart #1 (3) = 334
May-Aug, kaf	74819		Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) = 547

- 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** See Charts 1 and 2 of Columbia River Treaty Flood Control Operating Plan, Corps of Engineers, Northwestern Division, Corps of Engineers.

Questions? Contact Maler Annamalai, 503-808-3994, Kasi Rodgers, 503-808-3950, or Jason Ward, 503-808-3952.

Maximum Flood Risk Storage Shift from DWR to GCL												Maximum Flood Risk Storage Shift from BRN to GCL							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	GCL	GCL	GCL	DWR	DWR	DWR	DWR / GCL	DWR	DWR	GCL	GCL	GCL	BRN	BRN / GCL	BRN	BRN	GCL	GCL	
	Non-Shifted FC Draft	Maximum Draft Limit	Maximum Shift Potential	FC Draft		FC Shift		Shifted FC		Shifted FC		Maximum Shift Potential remaining	FC Shift		Shifted FC Draft		Shifted FC		
				System	Local	Potential	Allowable	Draft	Elevation	Draft (w/DWR Shift)	Elevation (w/DWR Shift)		Potential	Allowable FC Shift	Draft	Elevation	Draft (w/DWR+BRN Shift)	Elevation (w/DWR+BRN Shift)	
<i>Notes</i>	-	a	2-1	-	-	4-5	Min 3,6	4-7	-	1+7	-	2-10	-	Min 12,13	-	-	10+14	-	
<i>Units</i>	kaf	kaf	kaf	kaf	kaf	kaf	kaf	kaf	ft	kaf	ft	kaf	ft	kaf	kaf	ft	kaf	ft	
Jan. 31	0	2745	2745	864	869	0	0	869	1546.5	0	1290.0	2745	0	0	0	2077.0	0	1290.0	
Feb. 28/29	0	2745	2745	908	912	0	0	912	1543.5	0	1290.0	2745	0	0	49	2073.6	0	1290.0	
Mar. 31	1547	3923	2376	1336	1145	192	75	1261	1517.6	1622	1268.7	2301	140	140	135	2067.3	1762	1266.8	
Apr. 15	2760	3124	363	1502	1030	471	25	1477	1499.8	2785	1251.7	338	70	70	171	2064.4	2855	1250.6	
Apr. 30 b	3706	3706	0	1282	-	0	0	1282	1515.9	3706	1236.7	0	0	0	234	2059.3	3706	1236.7	

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.

- a** The potential flood risk storage shift to GCL is limited to the operation at GCL above elevation 1252.3 ft (2744 kaf draft) at the end of February and elevation 1225.0 ft (4355 kaf draft) at end of March and 15-Apr, and also limited by the GCL maximum draft rate limit. All projects are to be at their non-shifted flood risk management draft requirements at the end of Apr.
- b** No shift is allowed, all projects to be back to their non-shifted flood risk draft requirement by 30-April.

Questions? Contact Maler Annamalai, 503-808-3994, Kasi Rodgers, 503-808-3950, or Jason Ward, 503-808-3952.

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