

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

WY 2019

Issue Date: 8-Feb-2019

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
<b>Project Limits</b>								
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, ksfid	6076.9	3579.6	2510.5	705.1	1502.9	2697.1	491.7	1016.3

<b>Jan. 31 Project Conditions</b>								
Elevation, ft (MSL)	2395.1	1409.0	2413.3	1834.4	3532.3	1279.2	2057.8	1522.3
Draft, kaf	7425.2	4158.9	1915.3	927.6	620.9	862.6	251.2	1199.8
Usable Stor. less Draft, kaf	4628.1	2941.0	3064.2	471.0	2360.1	4487.0	724.1	815.9

<b>Draft Required to meet Feb. 28/29 Flood Risk Management</b>								
Elevation Reduction, ft	-	-	-	21.9	-	-	-	-
Storage Reduction, kaf	-	-	-	287.4	-	-	-	-

<b>1-Feb Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	4160	1951	-
Apr-Jul %-Normal (2)	-	-	-	-	-	-	76%	81%	-
Apr-Jul Change, kaf (1)	-	-	-	-	-	-	-223	-288	-
Apr-Aug, kaf	11079	22302	5318	2030	-	51352	-	-	75301
Apr-Aug %-Normal (2)	101%	101%	90%	101%	-	90%	-	-	86%
Apr-Aug Change, kaf (1)	519	658	-403	74	-	-4589	-	-	-8021
May-Sep, kaf	-	-	-	-	1500	-	-	-	-
May-Sep %-Normal (2)	-	-	-	-	89%	-	-	-	-
May-Sep Change, kaf (1)	-	-	-	-	-33	-	-	-	-

<b>System Draft Requirements</b>									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	1577	834	267	0	0	844	849
Feb. 28/29, kaf	2206	2081	1000	1215	262	0	219	673	694
Mar. 15, kaf	-	-	-	1270	-	-	-	-	-
Mar. 31, kaf	3158	2804	745	1270	269	537	122	502	479
Apr. 15, kaf	-	-	-	-	272	537	72	445	298
Apr. 30, kaf	3158	2804	673	1270	275	1179	16	445	-

<b>System Elevation Requirements</b>									
Jan. 31, ft	-	1430.5	2422.2	1840.9	3548.5	1290.0	2077.0	1548.3	1547.9
Feb. 28/29, ft	-	1427.3	2436.4	1812.5	3548.7	1290.0	2060.6	1560.1	1558.6
Mar. 15, ft	-	-	-	1807.7	-	-	-	-	-
Mar. 31, ft	-	1421.2	2442.4	1807.7	3548.4	1283.3	2068.2	1571.2	1572.7
Apr. 15, ft	-	-	-	-	3548.3	1283.3	2071.9	1574.8	1583.6
Apr. 30, ft	-	1421.2	2444.1	1807.7	3548.2	1275.0	2075.9	1574.8	-

<b>Flood Risk Management Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	75301		
Apr-Aug %-Normal	86.0%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	17007
Apr-Aug Change, kaf (1)	-8021	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	286
May-Aug, kaf	63422	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	451

- 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.

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