

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

WY 2014

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	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

<b>Dec. 31 Project Conditions</b>								
Elevation, ft (MSL)	2440.9	1407.0	2426.3	1859.6	3539.4	1280.2	2066.0	1524.6
Draft, kaf	3434.7	4367.7	1416.7	546.0	469.1	775.7	151.4	1169.7
Usable Stor. less Draft, kaf	8618.7	2732.3	3562.8	852.5	2511.9	4409.6	823.9	846.0

<b>Draft Required to meet Jan. 31 Flood Risk Management</b>								
Elevation Reduction, ft	-	-	-	12.7	-	-	-	-
Storage Reduction, kaf	-	-	-	198.2	-	-	-	-

<b>1-Jan Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	3723	2296	-
Apr-Jul %-Normal <b>2</b>	-	-	-	-	-	-	68%	95%	-
Apr-Jul <b>Change</b> , kaf <b>1</b>	-	-	-	-	-	-	-	-	-
Apr-Aug, kaf	10300	19678	5432	1785	-	54638	-	-	84888
Apr-Aug %-Normal <b>2</b>	94%	90%	92%	89%	-	96%	-	-	97%
Apr-Aug <b>Change</b> , kaf <b>1</b>	-	-	-	-	-	-	-	-	-
May-Sep, kaf	-	-	-	-	1787	-	-	-	-
May-Sep %-Normal <b>2</b>	-	-	-	-	106%	-	-	-	-
May-Sep <b>Change</b> , kaf <b>1</b>	-	-	-	-	-	-	-	-	-

<b>System Draft Requirements</b>									
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	2810	2603	1000	1055	455	0	257	923	926
Mar. 15, kaf	-	-	-	1055	-	-	-	-	-
Mar. 31, kaf	4080	3600	780	1055	563	1032	243	865	766
Apr. 15, kaf	-	-	-	-	615	2232	193	894	605
Apr. 30, kaf	4080	3600	752	1055	667	3317	179	894	-

<b>System Elevation Requirements</b>									
Jan. 31, ft	-	1430.5	2426.7	1846.9	3544.4	1290.0	2077.0	1546.9	1546.5
Feb. 28/29, ft	-	1422.9	2436.4	1825.2	3540.0	1290.0	2057.3	1542.7	1542.4
Mar. 15, ft	-	-	-	1825.2	-	-	-	-	-
Mar. 31, ft	-	1414.1	2441.6	1825.2	3535.0	1276.8	2058.6	1546.8	1553.7
Apr. 15, ft	-	-	-	-	3532.5	1260.0	2062.7	1544.7	1564.6
Apr. 30, ft	-	1414.1	2442.2	1825.2	3530.0	1243.2	2063.8	1544.7	-

<b>Flood Risk Management Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	84888		
Apr-Aug %-Normal	97.0%	Upstream Storage Adjustment, kaf, Chart #2 <b>(3)</b> =	20230
Apr-Aug <b>Change</b> , kaf <b>(1)</b>	-	Initial Controlled Flow, ICF, kcfs, Chart #1 <b>(3)</b> =	322
May-Aug, kaf	71497	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A <b>(3)</b> =	519

- 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, or Jason Ward, 503-808-3952.