

Summary of Columbia River Flood Control, 1-Mar

WY 2011

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>Feb. 28 Project Conditions</b>								
Elevation, ft (MSL)	2398.7	1420.2	2391.2	1815.5	3519.2	1262.9	2043.3	1504.3
Draft, kaf	7151.0	2916.4	2658.3	1179.4	886.8	2032.3	412.7	1424.4
Usable Stor. less Draft, kaf	4902.3	4183.6	2321.2	219.2	2094.2	3153.0	562.6	591.3

<b>To Meet Mar. 31 Flood Control Requirements</b>								
Elevation <b>Change</b> , ft	-	-6.1	-26.9	-0.2	-15.7	-	-4.6	-59.3
Draft <b>Change</b> , kaf	-	683.6	748.9	2.9	296.5	-	47.0	591.6

<b>1-Mar Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5690	3329	-
Apr-Jul %-Normal <b>2</b>	-	-	-	-	-	-	90.1%	124.0%	-
Apr-Jul <b>Change</b> , kaf <b>1</b>	-	-	-	-	-	-	-590	187	-
Apr-Aug, kaf	10932	22333	7105	1912	-	62200	-	-	92300
Apr-Aug %-Normal <b>2</b>	94.3%	98.6%	112.1%	93.7%	-	103.2%	-	-	99.2%
Apr-Aug <b>Change</b> , kaf <b>1</b>	-290	-328	449	-30	-	800	-	-	-200
May-Sep, kaf	-	-	-	-	2221	-	-	-	-
May-Sep %-Normal <b>2</b>	-	-	-	-	121.1%	-	-	-	-
May-Sep <b>Change</b> , kaf <b>1</b>	-	-	-	-	82	-	-	-	-

<b>System Flood Control Requirements, Drafts</b>									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	1488	776	415	0	0	1148	1148
Feb. 28, kaf	2810	2603	2612	1173	768	0	400	1510	1459
Mar. 15, kaf	-	-	3407	1182	-	-	-	-	-
Mar. 31, kaf	4080	3600	3407	1182	1183	1519	460	2016	1679
Apr. 15, kaf	4080	3600	3407	1182	1335	2732	500	2016	1621
Apr. 30, kaf	4080	3600	3407	1182	1353	3687	531	1725	-

  

<b>System Flood Control Requirements, Elevations</b>									
Jan. 31, ft	-	1430.5	2424.5	1844.8	3541.8	1290.0	2077.0	1526.2	1526.2
Feb. 28, ft	-	1422.9	2392.7	1816.0	3525.1	1290.0	2044.5	1496.8	1501.4
Mar. 15, ft	-	-	2364.3	1815.2	-	-	-	-	-
<b>4</b> Mar. 31, ft	-	1414.1	2364.3	1815.2	3503.4	1270.2	2038.7	1445.0	1480.7
<b>4</b> Apr. 15, ft	-	1414.1	2364.3	1815.2	3494.8	1252.5	2034.6	1445.0	1486.5
<b>4</b> Apr. 30, ft	-	1414.1	2364.3	1815.2	3493.7	1237.0	2031.4	1476.1	-

<b>Flood Control Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	92300		
Apr-Aug %-Normal	99.2%	Upstream Storage Adjustment, kaf, Chart #2 <b>(3)</b> =	25172
Apr-Aug <b>Change</b> , kaf <b>(1)</b>	-200	Initial Controlled Flow, ICF, kcfs, Chart #1 <b>(3)</b> =	335.5
May-Aug, kaf	78245	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A <b>(3)</b> =	571

- Notes:**
- 1 Change in official forecast from the previous month.
  - 2 Normal Runoff Volumes based on 71-Year, 1929-1999, averages for MCDB, ARDB, LIB, DCDB, DWR as reported in the *2000 Level Modified Streamflow Report, 2004*. Normal Runoff Volumes based on 30-Year, 1971-2000, averages for HGH, GCL, BRN, and TDA 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**.
  - 4 Due to work on the Drum gates at Grand Coulee, no volume shifts from DWR or BRN are available after March.

**Questions?** Contact Maler Annamalai, 503-808-3994, or Bill Proctor, 503-808-3952.