

Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR
<b>Project Limits</b>								
Maximum Elevation, ft	2475.0	1446.0	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	7361.6	4979.5	1398.6	2981.0	5185.3	975.3	2015.7
Usable Storage, ksfd	6076.9	3711.5	2510.5	705.1	1502.9	2614.3	491.7	1016.3

(4)

<b>Feb. 28 Project Conditions</b>								
Elevation, ft (MSL)	2382.4	1418.1	2399.2	1811.7	3513.6	1259.4	2033.1	1521.8
Draft, kaf	8345.0	3417.4	2407.2	1224.4	994.6	2272.8	514.7	1206.3
Usable Stor. less Draft, kaf	3708.4	3944.2	2572.3	174.1	1986.4	2912.5	460.6	809.4

(4)

<b>To Meet Mar. 31 Flood Control Requirements</b>								
Elevation <b>Change</b> , ft	-	-4.0	-5.7	-4.0	0.0	0.0	0.0	-21.7
Draft <b>Change</b> , kaf	0.0	182.6	179.4	45.6	0.0	0.0	0.0	266.6

(4)

<b>1-Mar Water Supply Forecast</b>									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	5500	2810	-
Apr-Jul %-Normal <b>2</b>	-	-	-	-	-	-	87.1%	104.7%	-
Apr-Jul <b>Change</b> , kaf <b>1</b>	-	-	-	-	-	-	240	72	-
Apr-Aug, kaf	11716	23480	6558	2091	-	61300	-	-	94300
Apr-Aug %-Normal <b>2</b>	101.1%	103.7%	103.5%	102.4%	-	101.7%	-	-	101.3%
Apr-Aug <b>Change</b> , kaf <b>1</b>	-6	-157	44	0	-	2100	-	-	2500
May-Sep, kaf	-	-	-	-	1876	-	-	-	-
May-Sep %-Normal <b>2</b>	-	-	-	-	102.2%	-	-	-	-
May-Sep <b>Change</b> , kaf <b>1</b>	-	-	-	-	17	-	-	-	-

<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	2039	857	377	0	0	997	1015
Feb. 28, kaf	2810	2603	2418	1215	505	0	363	1197	1206
Mar. 15, kaf	-	-	2587	1270	-	-	-	-	-
Mar. 31, kaf	4080	3600	2587	1270	657	2222	448	1473	1241
Apr. 15, kaf	4080	3600	2587	1270	725	3371	485	1668	1138
Apr. 30, kaf	4080	3600	2587	1270	793	4137	520	1396	-

<b>System Flood Control Requirements, Elevations</b>									
Jan. 31, ft	-	1430.5	2410.0	1839.3	3543.6	1290.0	2077.0	1537.4	1536.1
Feb. 28/29, ft	-	1422.9	2398.9	1812.5	3537.7	1290.0	2047.9	1522.5	1521.8
Mar. 15, ft	-	-	2393.5	1807.7	-	-	-	-	-
Mar. 31, ft	-	1414.1	2393.5	1807.7	3530.5	1260.1	2039.8	1500.1	1519.1
Apr. 15, ft	-	1416.5	2393.5	1807.7	3527.2	1242.3	2036.1	1481.9	1526.9
Apr. 30, ft	-	1416.5	2393.5	1807.7	3523.9	1229.1	2032.6	1506.7	-

(4)

<b>Flood Control Summary at The Dalles, Oregon</b>			
Apr-Aug, kaf	94300		
Apr-Aug %-Normal	101.3%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	23981
Apr-Aug <b>Change</b> , kaf (1)	2500	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	356.4
May-Aug, kaf	79941	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	585.4

- 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 Columbia River Treaty Flood Control Operating Plan, Corps of Engineers, Northwestern Division, 2003
  - 4 ARDB flood control space requirements based on deviation request from BC Hydro, and adjusted from 1446.0 for 31-Jul.

**Questions?** Contact Ken Soderlind, 503-808-3950; John McCoskery, 503-808-3951; or Patti Low, 503-808-3958.

Summary of Columbia River Flood Control, 1-Mar

WY 2008

Maximum Flood Control Shift from DWR to GCL												Maximum Flood Control 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>	-	<b>a</b>	2-1	-	-	4-5	Min 3,6	4-7	-	1+7	-	2-10	-	Min 12,13	13-14	-	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	997	1015	0	0	<b>1015</b>	<b>1536.1</b>	<b>0</b>	<b>1290.0</b>	2745	0	0	0	<b>2077.0</b>	<b>0</b>	<b>1290.0</b>
Feb. 28	0	2745	2745	1197	1206	0	0	<b>1206</b>	<b>1521.8</b>	<b>0</b>	<b>1290.0</b>	2745	0	0	363	<b>2047.9</b>	<b>0</b>	<b>1290.0</b>
Mar. 31	2222	4355	2133	1473	1241	232	232	<b>1241</b>	<b>1519.1</b>	<b>2454</b>	<b>1256.7</b>	1901	0	0	448	<b>2039.8</b>	<b>2454</b>	<b>1256.7</b>
Apr. 15	3371	3639	268	1668	1138	529	268	<b>1400</b>	<b>1506.4</b>	<b>3639</b>	<b>1237.9</b>	0	0	0	485	<b>2036.1</b>	<b>3639</b>	<b>1237.9</b>
Apr. 30 <b>b</b>	4137	4137	0	1396	-	0	0	<b>1396</b>	<b>1506.7</b>	<b>4137</b>	<b>1229.1</b>	0	0	0	<b>520</b>	<b>2032.6</b>	<b>4137</b>	<b>1229.1</b>

**Notes:** Under certain conditions the required flood control space at DWR and BRN may be shifted to GCL prior to 30-April. The shifted rule curve shown above represents the maximum allowable flood control shift(s) for the current water year based on the current month's flood control 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 control 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 control requirements at the end of Apr.
- b** No shift is allowed, all projects to be back to their non-shifted flood control requirement by 30-April.

**Questions?** Contact Ken Soderlind, 503-808-3950; John McCoskery, 503-808-3951; or Patti Low, 503-808-3958.