

Summary of Columbia River Flood Control, 1-Jan

WY 2008

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	9117.4	975.3	2015.7
Usable Storage, ksfd	6076.9	3579.6	2510.5	705.1	1502.9	4596.7	491.7	1016.3

Dec. 31 Project Conditions							
Elevation, ft (MSL)	2423.8	1420.7	2411.0	1855.6	3526.1	1286.4	2068.0
Draft, kaf	5067.5	2858.9	2000.4	610.0	748.0	292.0	125.1
Usable Stor. less Draft, kaf	6985.9	4241.1	2979.1	788.6	2232.9	8825.3	850.3

To Meet Jan. 31 Flood Control Requirements								
Elevation Change, ft	-	0.0	-0.7	-16.3	0.0	0.0	0.0	0.0
Draft Change, kaf	0.0	0.0	24.8	247.0	0.0	0.0	0.0	0.0

1-Jan Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDI
Apr-Jul, kaf	-	-	-	-	-	-	4390	2717	-
Apr-Jul %-Normal	2	-	-	-	-	-	69.5%	101.3%	-
Apr-Jul Change	kaf	1	-	-	-	-	-	-	-
Apr-Aug, kaf	11994	24258	6282	2202	-	59300	-	-	88200
Apr-Aug %-Normal	2	103.5%	107.1%	99.1%	107.8%	-	98.4%	-	94.8%
Apr-Aug Change	kaf	1	-	-	-	-	-	-	-
May-Sep, kaf	-	-	-	-	1840	-	-	-	-
May-Sep %-Normal	2	-	-	-	100.3%	-	-	-	-
May-Sep Change	kaf	1	-	-	-	-	-	-	-

System Flood Control Requirements, Drafts									
Project >>	MCDB	ARDB	LIB VarQ	DCDB	HGH VarQ	GCL	BRN	DWR Sys	DWR Loc
Jan. 31, kaf	1662	1703	2025	857	377	0	0	997	1015
	2810	2603	2094	1270	492	0	320	1182	1193
	-	-	2129	-	-	-	-	-	-
	4080	3600	2129	1270	620	1107	339	1357	1159
	4080	3600	2129	1270	681	2312	321	1526	1047
	4080	3600	2129	1270	743	3382	325	1328	-

System Flood Control Requirements, Elevations									
	Jan. 31, ft	Feb. 28, ft	Mar. 15, ft	Mar. 31, ft	Apr. 15, ft	Apr. 30, ft			
	-	1430.5	2410.3	1839.3	3543.6	1290.0	2077.0	1537.4	1536.1
	-	1422.9	2408.4	1807.7	3538.3	1290.0	2051.9	1523.6	1522.8
	-	-	2407.4	-	-	-	-	-	-
	-	1414.1	2407.4	1807.7	3532.3	1275.8	2050.1	1510.0	1525.4
	-	1414.1	2407.4	1807.7	3529.4	1258.8	2051.7	1495.4	1533.7
	-	1414.1	2407.4	1807.7	3526.4	1242.2	2051.4	1512.3	-

Flood Control Summary at The Dalles, Oregon				
Apr-Aug, kaf	88200			
Apr-Aug %-Normal	94.8%		Upstream Storage Adjustment, kaf, Chart #2 (3) =	22894
Apr-Aug Change, kaf (1)	-		Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	326.6
May-Aug, kaf	74769		Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	710.3

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

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

Summary of Columbia River Flood Control Shift, 1-Jan

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)	
Notes	-	a	2-1	-	-	4-5	Min 3,6	4-7	-	1+7	-	2-10	-	Min 12,13	13-14	-	10+14	-	
Units	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	1015	1536.1	0	1290.0	2745	0	0	0	2077.0	0	1290.0	
Feb. 28	0	2745	2745	1182	1193	0	0	1193	1522.8	0	1290.0	2745	0	0	320	2051.9	0	1290.0	
Mar. 31	1107	3164	2057	1357	1159	198	198	1159	1525.4	1305	1273.1	1859	0	0	339	2050.1	1305	1273.1	
Apr. 15	2312	2773	462	1526	1047	479	462	1064	1532.4	2773	1251.9	0	0	0	321	2051.7	2773	1251.9	
Apr. 30 b	3382	3382	0	0	-	0	0	0	1600.0	3382	1242.2	0	0	0	207	2061.6	3382	1242.2	

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 the end of March and 15-April. All projects to be at their non-shifted flood control requirements at the end of April.

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.