

Summary of Columbia River Flood Control, 1-May

WY 2011

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	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

Apr. 30 Project Conditions								
Elevation, ft (MSL)	2379.7	1412.9	2349.9	1794.4	3475.3	1220.0	2015.3	1450.6
Draft, kaf	8533.3	3739.7	3761.0	1396.8	1645.7	4611.6	677.9	1965.0
Usable Stor. less Draft, kaf	3520.0	3360.2	1218.6	1.7	1335.3	573.7	297.4	50.7

Apr. 30 Flood Control Requirements								
Elevation Change , ft	-	-	-	-	-	-	-	-
Draft Change , kaf	-	-	-	-	-	-	-	-

1-May Water Supply Forecast									
Project >>	MCDB	ARDB	LIB	DCDB	HGH	GCL	BRN	DWR	TDA
Apr-Jul, kaf	-	-	-	-	-	-	9060	3772	-
Apr-Jul %-Normal 2	-	-	-	-	-	-	143.5%	140.6%	-
Apr-Jul Change , kaf 1	-	-	-	-	-	-	1550	385	-
Apr-Aug, kaf	11103	23260	8165	2057	-	70800	-	-	113000
Apr-Aug %-Normal 2	95.8%	102.7%	128.9%	100.7%	-	117.4%	-	-	121.4%
Apr-Aug Change , kaf 1	18	300	975	60	-	6100	-	-	12000
May-Sep, kaf	-	-	-	-	2798	-	-	-	-
May-Sep %-Normal 2	-	-	-	-	152.5%	-	-	-	-
May-Sep Change , kaf 1	-	-	-	-	441	-	-	-	-

System Flood Control Requirements, Drafts									
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	-	-	3416	1182	-	-	-	-	-
Mar. 31, kaf	4080	3600	3416	1182	1183	1517	460	2016	1679
Apr. 15, kaf	4080	3600	3536	1267	1562	3964	580	2016	1674
Apr. 30, kaf	4080	3600	3536	1267	1580	4602	660	1768	-

System Flood Control Requirements, Elevations									
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	-	-	2364.0	1815.2	-	-	-	-	-
4 Mar. 31, ft	-	1414.1	2364.0	1815.2	3503.4	1270.2	2038.7	1445.0	1480.7
4, 5 Apr. 15, ft	-	1414.1	2359.2	1807.9	3480.7	1232.2	2026.2	1445.0	1481.2
4 Apr. 30, ft	-	1414.1	2359.2	1807.9	3479.5	1220.2	2017.4	1471.6	-

Flood Control Summary at The Dalles, Oregon			
Apr-Aug, kaf	113000		
Apr-Aug %-Normal	121.4%	Upstream Storage Adjustment, kaf, Chart #2 (3) =	27353
Apr-Aug Change , kaf (1)	12000	Initial Controlled Flow, ICF, kcfs, Chart #1 (3) =	439.6
May-Aug, kaf	95793	Estimated Unregulated Peak Discharge, kcfs, Chart #1-A (3) =	718

- 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. (2011)
 - 5 A deviation for Dworshak's Apr 15th elevation was approved at 1451.4 ft (Apr 2011)

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