

Columbia River System Flood Risk Management Requirements  
Report #4 for Water Year 2026  
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**A. Purpose of Flood Risk Management Requirements.**

These requirements provide maximum end-of-month reservoir elevations and/or outflows for flood risk management projects in the Columbia River Basin. These requirements are for use by U.S. Army Corps of Engineers, Bureau of Reclamation, Idaho Power, Energy Keepers, BC Hydro, Grant Co. PUD, Chelan Co. PUD, Douglas Co. PUD, and Bonneville Power Administration for operations planning and include all formally approved deviations to date. Any deviation from the flood risk management requirements herein will require approval from the Chief, Columbia Basin Water Management Division (CBWM) per the Northwestern Division's (NWD) Deviation Policy (NWDR 1110-2-6, 09 Sept 2023). Requirements are in accordance with the Columbia River Treaty and project-specific water control plans and manuals, with variations as described below. These system flood risk management requirements will be revised and re-issued as new information becomes available.

**B. List of Approved Flood Deviations from Water Control Manuals.**

Deviation at Albeni Falls Dam for ramping rates, summer pool exceedance, spill and total dissolved gas, and delayed refill.

Deviation at SKQ Dam for 15 April and 25 May (Memorial Day) FRM requirement.

**C. Flood Risk Management Requirements.**

These requirements have been prepared using the most recent official seasonal volume forecasts. The April-August volume forecast at The Dalles Dam based on the April 2026 official forecast is 83,904 kaf. All other forecasts can be found in Table 2 below or at:

<http://www.nwd-wc.usace.army.mil/report/colsum/>

Table 1 shows the flood risk management elevations, draft and flow limits for the evacuation, holding and refill periods. The Initial Control Flow at The Dalles based on the April official forecast is 318 kcfs.

**D. System Flood Risk Management Refill Requirement Discussion.**

The Flood Risk Management Requirements shown in Table 1 are based on the official April seasonal runoff volume forecasts. During the refill season, end-of-month reservoir elevation targets and control flow may change in response to the shape and timing of the runoff.

**E. Individual Project Flood Risk Management Requirements Discussion.**

30 April FRM for Grand Coulee includes an adjustment for a projected underdraft at Libby Dam.

**Table 1. Flood Risk Management Requirements**

Project	31 Jan	28 Feb	31 Mar	15 Apr	30 Apr <sup>3</sup>	Date Refill Started	31 May <sup>3</sup>	30 Jun <sup>3</sup>	31 Jul <sup>3</sup>
MCDB+ARDB (kaf) <sup>1</sup>	1670	2345.7	3600	3600	3600	-	1764	0	0
ARDB (kaf) <sup>1</sup>	1670	2345.7	3600	3600	3600	-	1764	0	0
ARDB (ft)	1430.7	1425.1	1414.1	1414.1	1414.1	-	1430.0	1444.0	1444.0
DCDB (kaf) <sup>1</sup>	-	-	-	-	-	-	-	-	-
LIB (ft) <sup>4</sup>	2374.4	2383.9	2380.2	n/a	2363.6		- <sup>9</sup>	- <sup>9</sup>	2459.0
LIB (kcfs)	n/a	n/a	n/a	n/a	n/a	-	tbd	tbd	tbd
HGH (ft)	3543.1	3547.0	3548.2	3546.4	3546.0		- <sup>9</sup>	3560.0	3560.0
HGH (kcfs)	n/a	n/a	n/a	n/a	n/a	-	tbd	tbd	tbd
SKQ (ft)	n/a	n/a	n/a	2889.0	n/a	-	2891.0 <sup>8</sup>	2893.0	2893.0
ALF (ft) <sup>2</sup>	2060.0	2060.0	2056.0	n/a	2056.0	-	2063.5	2063.5	2063.5
GCL (ft)	1290.0	1290.0	1279.3	1266.2	1255.3		1273.8	1289.7	1290.0
BRN (ft)	2077.0	2054.2	2054.2	2068.4	2070.5		2076.0	2077.0	2077.0
DWR (ft) <sup>7</sup>	1554.9	1567.2	1570.1	1575.5	1570.6		1590.0	1600.0	1600.0
WEL (kaf)	0	0	0	0	- <sup>6</sup>	-	0 <sup>6</sup>	0 <sup>6</sup>	0 <sup>6</sup>
RRH (kaf)	0	0	0	0	- <sup>6</sup>	-	0 <sup>6</sup>	0 <sup>6</sup>	0 <sup>6</sup>
WAN+PRD (kaf)	0	0	0	0	- <sup>6</sup>	-	0 <sup>6</sup>	0 <sup>6</sup>	0 <sup>6</sup>
JDA (kaf)	0	0	0	0	- <sup>6</sup>	-	0 <sup>6</sup>	0 <sup>6</sup>	0 <sup>6</sup>

Notes:

1. MCDB and DCDB do not have system Flood Risk Management requirements unless an Article IV(3) call is active.
2. Albeni Falls flood risk management elevations are based on readings at the Hope gage.
3. Flood risk management requirements for May, June and July are based on estimated normal runoff shape. Under certain circumstances, the Refill Guide Curve (also known as Flood Control Refill Curve) procedure may be used to determine when refill is to begin at each project where applicable and affect the 30 Apr elevations.
4. Per the Libby Dam WCM, Rule 1 of the VarQ operating procedures, releases will be limited to the hydraulic capacity of the powerhouse to the best extent possible.
5. Per the Libby Water Control Manual, when the official Libby Water Supply Forecast released at the start of April is less than 6.9 MAF, refill is initiated on May 1.
6. If FRM space is required at John Day or the middle Columbia projects, Northwestern Division will coordinate the exact timing for drawdown and refill with project operators in real-time. It is anticipated that all requested space would be made available prior to the start of system refill.
7. A shift in FRM storage is in place for 15 April targets per the 2026 Water Management Plan.
8. SKQ May FRM is for Memorial Day (May 25), not 31 May.
9. End-of-month elevation is guided by the minimum VarQ outflow during the FRM Fill period.

**Table 2. Water Supply Forecasts (Kaf)**

<b>Project</b>	<b>Forecast Period</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Current month Forecast % of Normal</b>
MCDB <sup>1</sup>	Apr-Aug	12577	12304	12216	13194	-	-	-	118%
ARDB <sup>1</sup>	Apr-Aug	24734	23894	23646	24974	-	-	-	113%
DCDB <sup>1</sup>	Apr-Aug	2354	2321	2291	2415	-	-	-	118%
LIB	Apr-Aug	7595	6831	6738	7117	-	-	-	117%
HGH	May-Sep	1867	1562	1505	1539	-	-	-	86%
SKQ <sup>2</sup>	Apr-Jul	5743	4965	4949	5035	-	-	-	82%
ALF <sup>2</sup>	Apr-Jul	11364	10089	10494	10693	-	-	-	86%
GCL <sup>2</sup>	Apr-Aug	58972	58106	60971	60862	-	-	-	105%
BRN <sup>2</sup>	Apr-Jul	5230	4279	4079	3412	-	-	-	67%
DWR <sup>2</sup>	Apr-Jul	1968	1752	2002	2009	-	-	-	81%
TDA <sup>2</sup>	Apr-Aug	88029	82642	84282	83904	-	-	-	94%

Notes:

1. Official water supply forecasts for MCDB, ARDB, and DCDB are provided by BC Hydro on official forecast days.
2. Official water supply forecasts for SKQ, ALF, GCL, BRN, DWR and TDA are the ESP 10-day-QPF median values published by the NWRFC on the official forecast days for 2026.

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