

Project Data - Federal Columbia River System

Project	Unit Number	Number of units	Sustained Capacity (MW)	Total Plant (MW)	Normal Full (ft)	Normal Minimum (ft)	Minimum Discharge (kcfs)	Hydraulic Capacity (kcfs)	Ramp Rates
Albeni Falls	1 - 3	3	16.3	49.0	2062.5	2051	4	33	Max daily change 5 kcfs/hr Max daily change 10 kcfs/day Max elevation change - above El 2,058 ft 0.4 ft, Below El 2,058 ft 0.5 ft
Bonneville	1 - 10	10	60.0	1,195.2	76.5	71.5	**80 instantaneous 100 daily average	136	
	11 - 18	8	76.5					152	
	2-F	2	13.1	26.2					
Chief Joseph	1 - 4	4	88.3	2,614.0	956	950	Min daily 35	219	
	5 - 14	10	88.3						
	15 - 16	2	88.3						
	17 - 27	11	109.0						
Dworshak	1 - 2	2	103.0	465.0	1600	1445	1*****	10.5	From Oct 1 to Sept 30 - At peck 1 ft/hr From Oct 1 to Nov 15 - The 7-day average release cannot exceed inflow by more than 1,300cfs, except during freshets or emergency power operations. Maximum change in any day shall not exceed 40% of the previous 7-day average release. (WCM 7-05.a.2)
	3	1	259.0						
Grand Coulee	1 - 18	18	125.0	7,079.0	1290	1208		280	Max. forebay (drawdown) change 1.5 ft/day, under most conditions
	19 - 21	3	690.0						
	22 - 24	3	805.0						
	3-S	3	10.0						
	2-PG	2	50.0						
	4-PG	4	53.5						
Hungry Horse	1 - 4	4	107.0	428.0	3560	3336	0.4	8.9	*
Ice Harbor	1 - 3	3	103.0	693.0	440	***437	15 Oct – end of Feb Mar – Jul 9.5 Aug – Nov 7.5	106	Max. rate of change 20 kcfs/hr
	4 - 6	3	128.0						
John Day	1 - 16	16	155.0	2,480.0	266.5	262.5 (15 Mar – 15 Nov) 262.0 (16 Nov – 14 Mar)	Dec – Feb 12.5 Mar – Nov 50 kcfs	322	Max. rate of change 200 kcfs/hr

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Libby	1 - 5	5	121.0	605.0	2459	2287	4	24.1	*
Little Goose	1 - 3	3	155.0	930.0	638	***633	15 Oct – End of Feb Mar – Nov 11.5	130	Max. rate of change 70 kcfs/hr
	4 - 6	3	155.0						
Lower Granite	1 - 3	3	155.0	930.0	738	***733	15 Oct – End of Feb Mar – Nov 11.5	130	Max. rate of change 70 kcfs/hr
	4 - 6	3	155.0						
Lower Monumental	1 - 3	3	155.0	930.0	540	***537	15 Oct – End of Feb Mar – Nov 11.5	130	Max. rate of change 70 kcfs/hr
	4 - 6	3	155.0						
McNary	1 - 14	14	80.0	1,120.0	340	337	Dec – Feb 12.5 Mar – Nov 50	232	Max. rate of change 150 kcfs/hr
The Dalles	1 - 14	14	90.0	2,052.0	160	****158	Dec – Feb 12.5 Mar – Nov 50	375	Max. rate of change 150 kcfs/hr
	15 - 22	8	99.0						
	2-F	2	14.0						

* - Project ramp rates specified in BiOps (see Water Management Plan)

** - When average weekly inflow is below 125 kcfs, the minimum instantaneous outflow limit is 70 kcfs and the minimum daily average discharge limit is 80% of the weekly average inflow.

*** - For Lower Snake River Dams: subject to minimum operating pool (MOP) Apr – Aug. See Water Management Plan.

**** - The Dalles Dam minimum is 155 feet but as noted above the normal minimum has been increase to 158 feet in order to ensure adequate depth at the John Day Dam fishway entrance (minimum depth requirement of 8 feet) criteria as described in the Fish Passage Plan.

***** - Dworshak Dam – Minimum generation on units 1 and 2 is approximately 1.5 to 1.6 kcfs.