

Assumptions:

- * Streamflows were adjusted to the May Final Final Water Supply Forecast for the period of May thru August of 54.6 MAF (69%) at The Dalles and shaped 59 different ways based on observed historical runoff.
- * Starting elevations were observed data from Apr 30, 2004.
- * Grand Coulee operates to meet Priest Rapids flow objective of 135 kcfs from May 1-31, then tries to refill by Jun 30.
- * Hungry Horse targets elevation 3554 feet by May 31 with a minimum flow of 900 cfs, meets minimum flow of 3500 cfs at Columbia Falls, targets full in June, and drafts to 3540 ft by Aug 31.
- * Brownlee targets 2077 ft by May 31, stays full in June, and drafts to 2070 ft by Jul 31, and 2057 ft by Aug 31.
- * Dworshak targets elevation 1590 ft by May 31, full by June 30 with a minimum flow of 1.5 kcfs. The project releases a maximum of 13 kcfs in July - August to meet LWG flow objectives, and targets 1520 ft by Aug 31.
- * Libby begins releasing sturgeon pulse water the last week of May and targets 13.2 kcfs in June for Sturgeon, based on discussions with USFWS. Minimum flow for bull trout in July and August is 7,000 cfs. Libby drafts to elevation 2449 ft by Jul 31 and 2439 ft by Aug 31.

Results:

Priest Rapids Meets Flow Objectives of 135 kcfs from May 1 - Jun 30.

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
May	57	136
Jun	2	91

Lower Granite Meets Flow Objectives of 85 kcfs in May, 73.3 kcfs in June, and 50 kcfs in Jul - Aug:

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
May	1	63
Jun	5	59
Jul	0	37
Aug 15	0	34
Aug 31	0	19

McNary Meets Flow Objectives of 220 kcfs from May 1 - Jun 30 and 200 kcfs from Jul 1 - Aug 31:

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
May	3	198
Jun	0	147
Jul	0	135
Aug 15	0	127
Aug 31	0	103

Project Elevations - May 31

	Average (feet)	Median (feet)
Libby	2434	2433
Hungry Horse	3547	3547
Grand Coulee	1258	1252
Dworshak	1590	1590

Projects Refill by 30 June:

	Occurrences out of 59 Years	Average Elevation on 30 Jun for 59 Years
Libby	15	2454
Hungry Horse	58	3560
Grand Coulee	59	1290
Dworshak	59	1600

QADJ Period Average Flows (kcfs)

	MAY 1-31	JUN 1-30	JUL 1-31	AUG 1-15	AUG 16-31	May-Aug WSF (maf)	WSF % of Norm
LIB	6	14	18	15	13	4.3	75%
HGH	4	3	6	5	4	1.2	69%
GCL	131	83	98	94	85	42.5	80%
PRD	136	91	100	94	85		
DWR	4	5	14	14	5	1.4	68%
BRN	10	10	8	12	7	1.9	38%
LWG	63	59	37	34	19	10.3	57%
MCN	198	147	135	127	103		
TDA	210	155	140	131	107	54.6	69%
BON	212	157	142	133	108		

**PRIEST RAPIDS OUTFLOW
REGULATED JUNE FLOW TO FILL COULEE**

