

2000 Year in Review

Columbia/Snake System Operations

Technical Management Team

October 11, 2000

March

- Shifted flood control from Dworshak to Grand Coulee:
65 ksf
- Dworshak ended March at elevation 1522.2 feet (10 feet above traditional flood control)
- Grand Coulee ended March at elevation 1263.1 (7.1 feet below shifted flood control elevation of 1270.2)
- Bonneville spilled March 9 - 16 for Spring Creek Hatchery release -- spill managed to downstream TDG levels and depth over chum redds.

April

- Operated Dworshak to meet end of April flood control and 100 kcfs at Lower Granite
- Operated Grand Coulee to meet end of April flood control and 135 at Priest Rapids
- Spill test began in 3-day treatments at Bonneville and John Day. TDG at Camas-Washougal varied through spring and summer, due to Bonneville spill changes and other factors.

Maximum Spring Flood Control Evacuation

	expected	observed
– Libby end of March	2331.3	2337
– Hungry Horse end of April	3503.2	3507.4
– Grand Coulee end of April	1239.6	1243.4
• (shifted 65 ksfd) April 1	1270.2	1263.1
– Dworshak April 15	1483.9	1522.3
• (unshifted) April 1	1512.2	
• (shifted 65 ksfd) April 1		1522.2
– Brownlee April 31	2056.2	2055.9

May

- Flood control refill was available within the first 7 to 10 days in May
- Used Dworshak to meet 100 kcfs at Lower Granite through May 12 when refill began
- Used Grand Coulee to meet 260 kcfs at McNary through May 19 (drafting to elevation 1233.9, 5.7 feet below flood control needs). Refill began May 20

June

- Used reservoirs to attempt to meet flow, then attempt to refill
 - Dworshak refilled to elevation 1598.6 feet (1.4 feet down)
 - Grand Coulee refilled to elevation 1279 feet (11 feet down)
 - Hungry Horse refilled to elevation 3558.3 feet (1.7 feet down)
 - Libby refilled to elevation 2418.1 feet (40.9 feet down and supplied 17 days at full powerhouse in June for hatchery and natural sturgeon migrations)
- Spring season average flows were 85 kfs at Lower Granite, 157 kcfs at Priest Rapids, and 243 kcfs at McNary

July

- Used Dworshak to the maximum extent possible (up to 13.5 kcfs). July ended at 1566.4 feet
 - Average flow at Lower Granite was 37.8 kcfs
- Grand Coulee filled only to elevation 1286 feet on July 16. July ended at elevation 1284.1 feet
 - Average flow at McNary was 166.7 kcfs
- Dworshak discharge limited due to no TDG waiver; operated to not exceed 110% instantaneous. Summer flow augmentation began on July 7, when Lower Granite forebay water temperature exceeded 68.0° F.

August

- System was used to meet west coast power needs
- All projects drafted to interim draft limits, except Libby which ended August at elevation 2434.9 feet (24.1 feet down from full)
- Summer season average flows were 35 kcfs at Lower Granite and 156 kcfs at McNary
- Total 20.7 million juvenile fish transported (as of 14 Sep) from McNary, Lower Granite, Little Goose, and Lower Monumental. Included 4.3M year. chin., 9.5M subyr. chin., 6.6M sthd., 208K coho, and 48K sockeye