



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

729 N.E. Oregon, Suite 200, Portland, Oregon 97232

Telephone (503) 238-0667

Fax (503) 235-4228

www.critfc.org

TO: Technical Management Team (TMT)
 FROM: Kyle Martin, *Senior Hydrologist*, CRITFC Hydro Program
 DATE: July 30, 2003

SUBJECT: Impact of Pool Fluctuations on the 2003 Summer Treaty Fishery

CRITFC submitted two System Operation Requests (2003-C3 and 2003-C5) via the NMFS' TMT forum in support of a summer treaty fishery—first one in 38 years. The CRITFC request asked for (1) specific elevations and (2) stable pool elevations during July 14-16 and July 21-23.

Criterion #1 asked to operate the pools within a one-foot specified elevation range. The Corps replied with a commitment to a 1.5-foot range, and then only in Bonneville pool, as they have done so since 1996 (according to the Corps' interpretation of the "Ted Strong agreement"). The Corps claims the top operating limit at the Bonneville pool is 76.5 feet, and not 77 feet (full pool) as outlined in the CRITFC request, and will not exceed that upper limit except for an emergency.

The table below shows the hourly compliance of CRITFC's elevation range criteria during the treaty fishery. On average, the Bonneville pool complied 22% of the time. Using the Corps 75.5 to 76.5 foot range, compliance was 82%. The Dalles (Celilo) pool complied 54% of the time. The John Day pool complied 17% of the time.

2003	Bonneville Pool	The Dalles Pool	John Day pool
1 foot range (CRITFC):	76 - 77 ft	158.5 -159.5 ft	263.5 - 264.5 ft
JUL 14 - 16	39%	34%	10%
JUL 21 - 23	5%	74%	25%
1 foot range (COE):	75.5 - 76.5 ft	158.5 -159.5 ft	263.5 - 264.5 ft
JUL 14 - 16	89%	34%	10%
JUL 21 - 23	75%	74%	25%
1.5 foot range (COE):	75 - 76.5 ft	158 -159.5 ft	263 - 264.5 ft
JUL 14 - 16*	100%	89%	77%
JUL 21 - 23	100%	100%	90%

*BPA reported transmission line problems from The Dalles to John Day dams.

Pool elevation data is a good measure as to the absolute pool fluctuations (Criterion #2) as shown in figures 1 (Bonneville) and 2 (The Dalles). Bonneville pool saw 0.8 - 1.0 foot swings. The Dalles pool saw 0.8 - 1.8 foot swings. John Day pool saw 0.5 - 1 foot swings. This data will serve as a base-line for future summer fisheries. The Tribal harvest of summer Chinook was ~2100 during the July 14-16 fishery and ~1500 during the July 21-23 fishery.

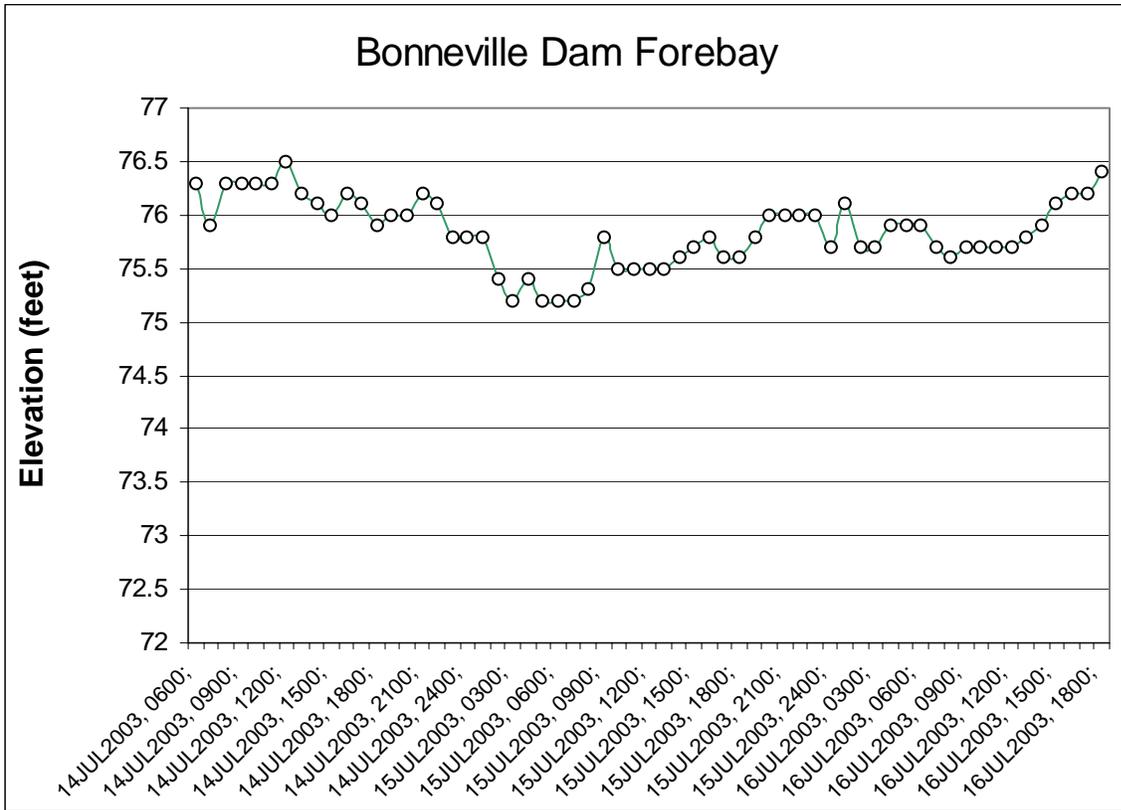


Figure 1a. Observed pool elevations during July 14-16, 2003 summer treaty fishing (BON pool).

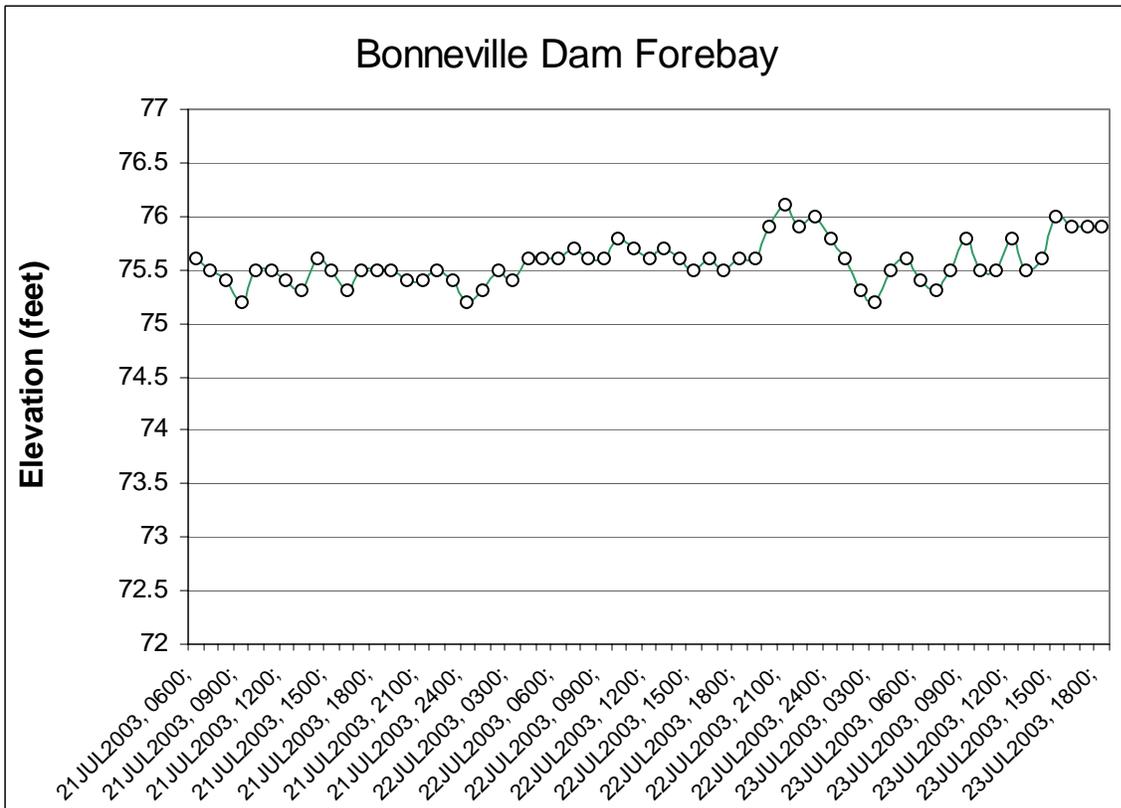


Figure 1b. Observed pool elevations during July 21-23, 2003 summer treaty fishing (BON pool).

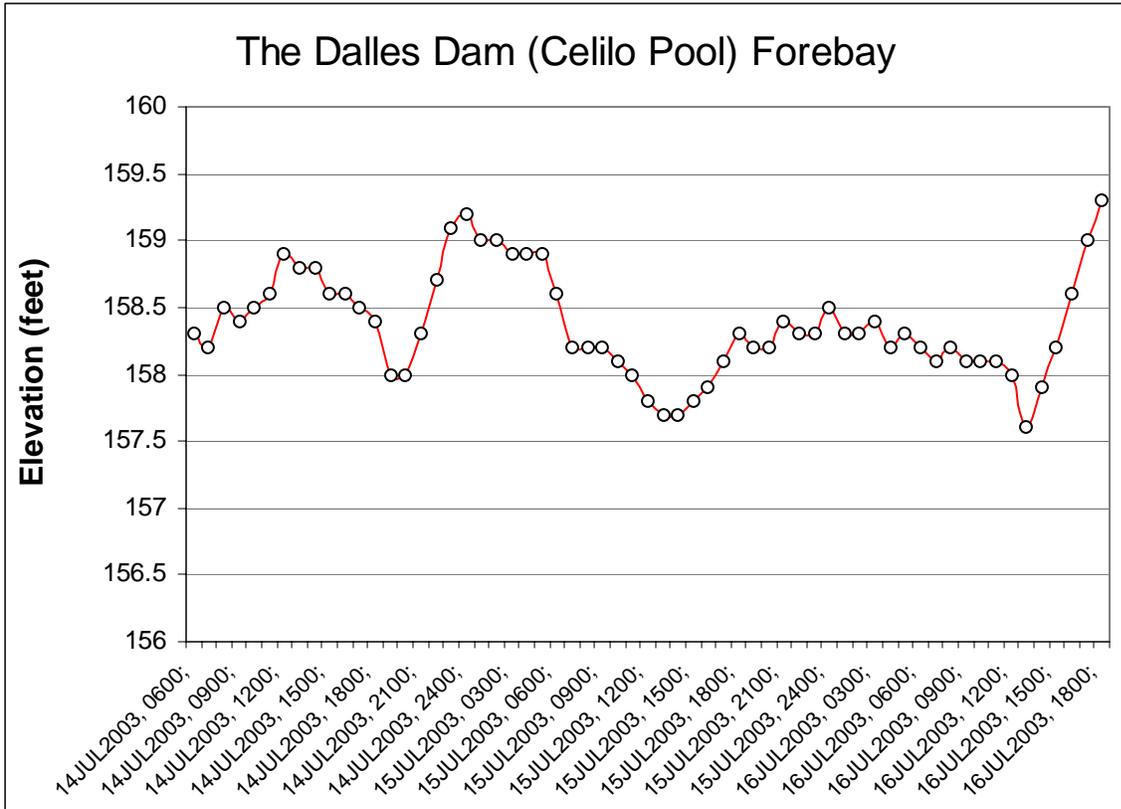


Figure 2a. Observed pool elevations during July 14-16, 2003 summer treaty fishing (TDA pool).

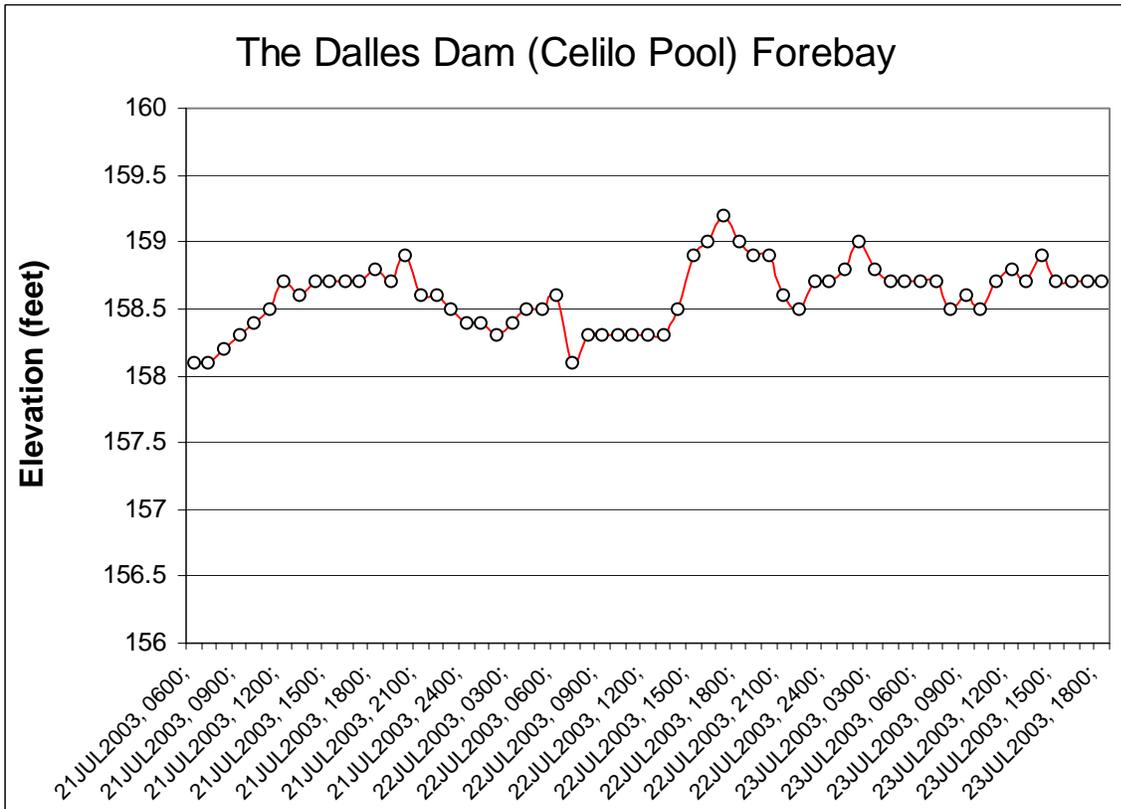


Figure 2b. Observed pool elevations during July 21-23, 2003 summer treaty fishing (TDA pool).

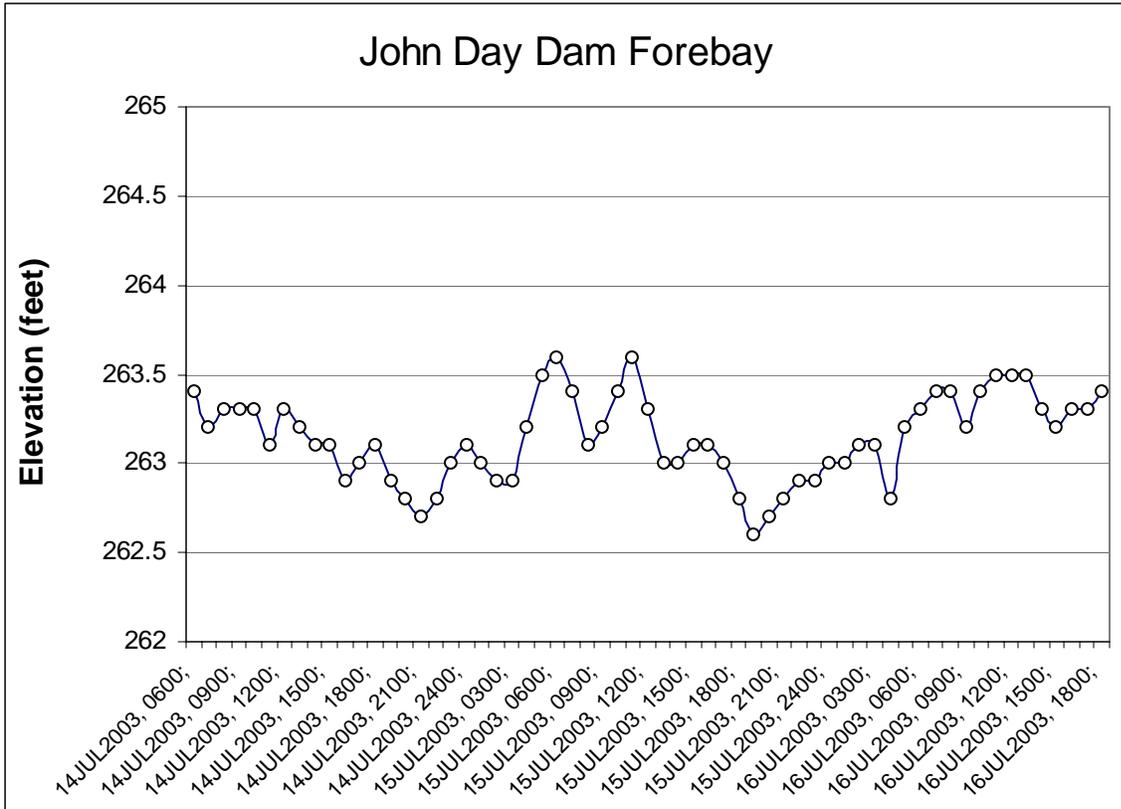


Figure 3a. Observed pool elevations during July 14-16, 2003 summer treaty fishing (JDA pool).

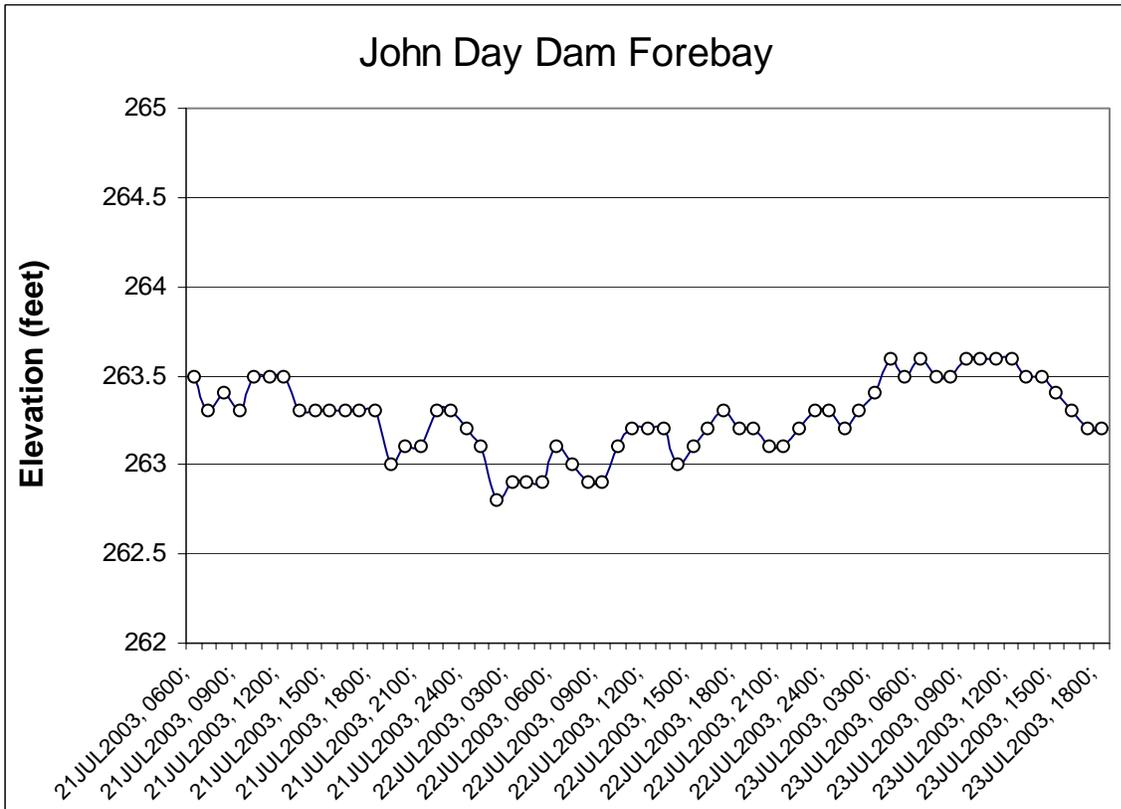


Figure 3b. Observed pool elevations during July 21-23, 2003 summer treaty fishing (JDA pool).