



## COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

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TO: Technical Management Team (TMT)  
 FROM: Kyle Martin, *Senior Hydrologist*, CRITFC Hydro Program  
 DATE: August 4, 2004

SUBJECT: Impact of Pool Fluctuations on the 2004 Summer Treaty Fishery

CRITFC submitted four System Operation Requests (2004-C5 through 2004-C8) via the NMFS' TMT forum to support spring treaty fishing. The CRITFC requests asked for (1) specific elevations and (2) stable pool elevations during each week of treaty fishing.

Criterion #1 asked to operate the pools as a hard constraint within a one-foot specified elevation range. The Corps replied with a commitment as a hard constraint to a 1.5-foot range, or 1-foot as a soft constraint, as they have done so since 1996.

The table shows the hourly compliance of CRITFC's elevation range criteria, as well as the Corps' criteria, during the treaty fishery. Averages from the two-week 2003 summer season are also shown.

<b>2004</b>	Bonneville Pool	The Dalles Pool	John Day pool
1 foot range (CRITFC):	75.5 - 76.5 ft	158.5 -159.5 ft	263.5 - 264.5 ft
JUNE 23 - 25	98%	28%	18%
JUNE 30 - JULY 2	87%	28%	25%
JULY 14 - JULY 17	0%	85%	0%
JULY 21 - JULY 24	91%	82%	27%
JULY 26 - JULY 31	79%	68%	14%
average:	<b>71%</b>	<b>58%</b>	<b>17%</b>
2003 average:	82%	54%	18%
1.5 foot range (COE):	75 - 76.5 ft	158 -159.5 ft	263 - 264.5 ft
JUNE 23 - 25	100%	51%	84%
JUNE 30 - JULY 2	100%	75%	82%
JULY 14 - JULY 17	39%	100%	66%
JULY 21 - JULY 24	100%	99%	98%
JULY 26 - JULY 31	100%	93%	95%
average:	<b>88%</b>	<b>84%</b>	<b>85%</b>
2003 average:	100%	95%	84%

Pool elevation data is a good objective measure as to the absolute pool fluctuations (Criterion #2) as shown in Figures 1 through 15. Bonneville pool saw 0.3 – 0.7/1.3 foot swings (compared to 0.8 - 1.0 foot swings in summer 2003). The Dalles pool saw 0.5 – 1.5/2.0 foot swings (compared to 0.8 – 1.8 foot swings in summer 2003). John Day pool saw 0.4 – 0.6/0.8 foot swings (compared to 0.5 - 1.0 foot swings in summer 2003).

cc: CRITFC Hydro Program (Heinith, Lorz) and Fish Management Division (Ellis, Matylewich)



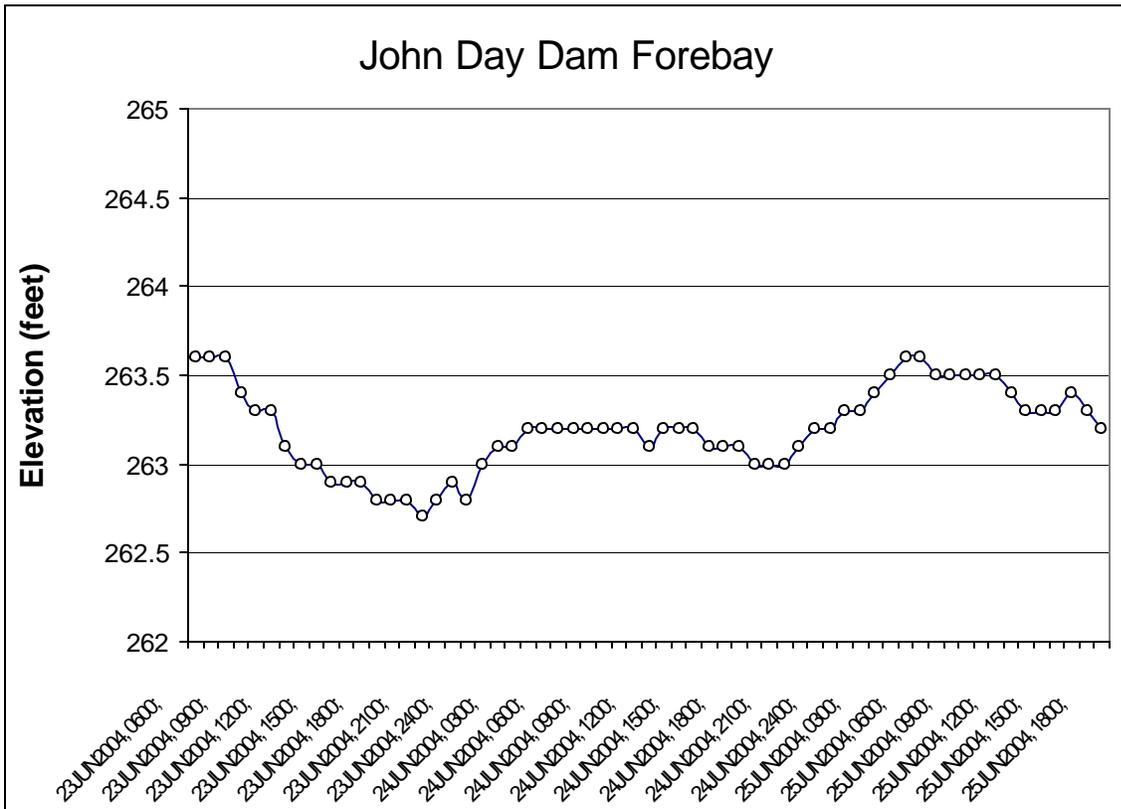


Figure 3. Observed JDA pool elevations during June 23-25, 2004 summer treaty fishing.

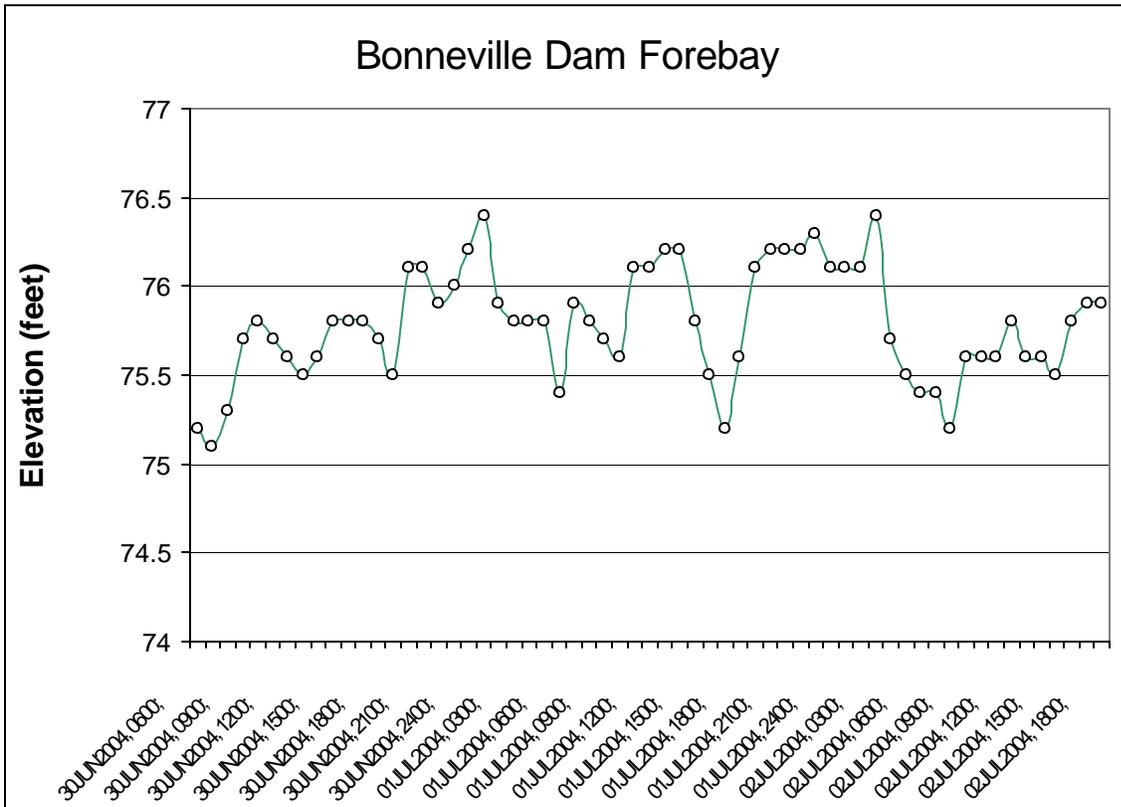


Figure 4. Observed BON pool elevations during June 30 - July 2, 2004 spring treaty fishing.

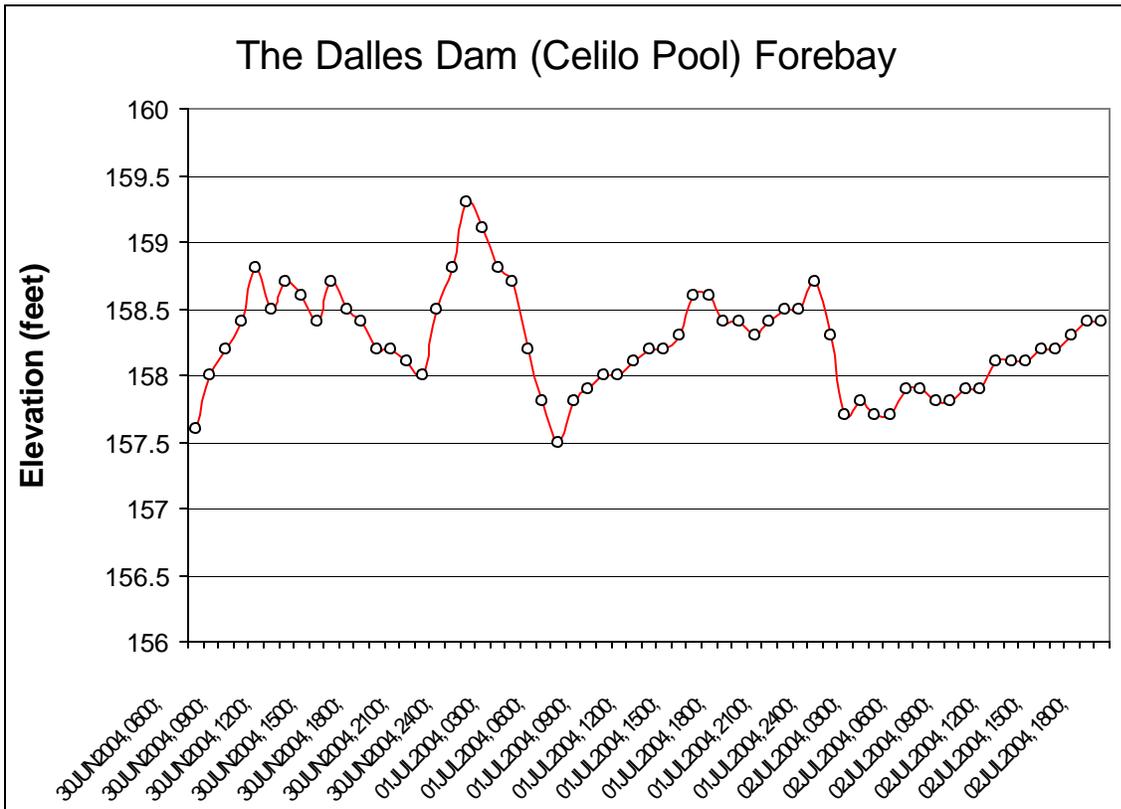


Figure 5. Observed TDA pool elevations during June 30 - July 2, 2004 spring treaty fishing.

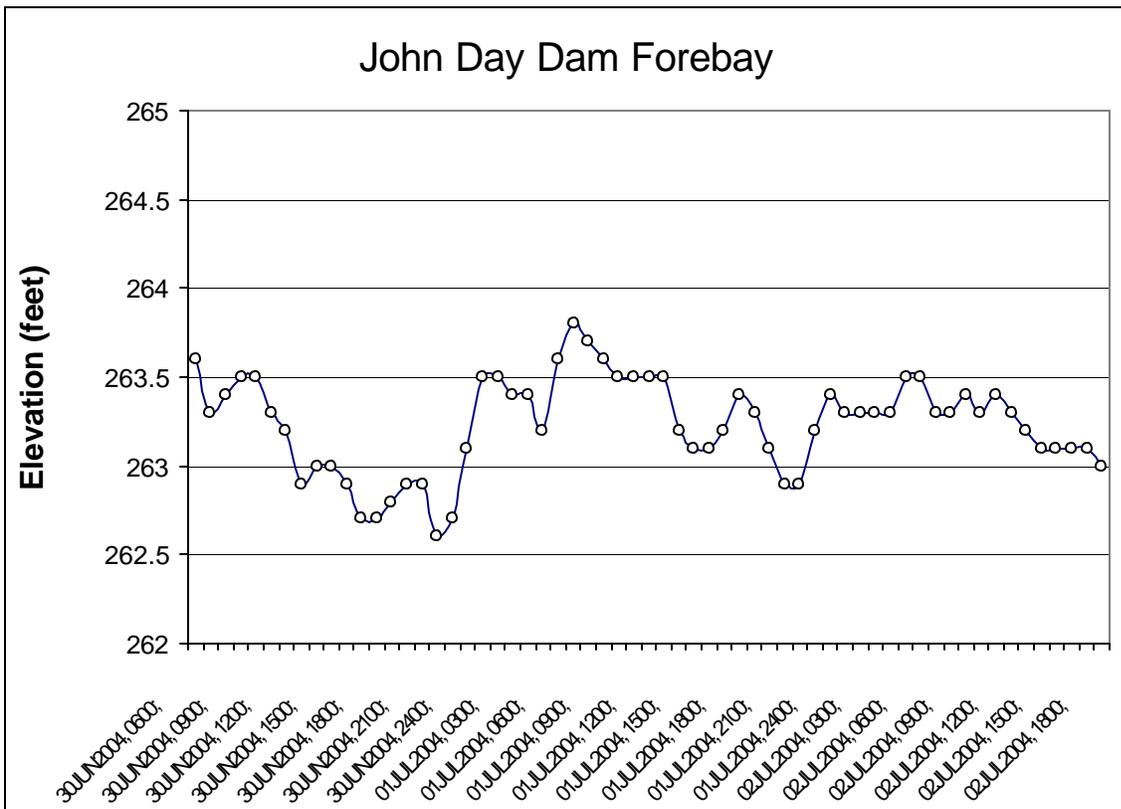


Figure 6. Observed JDA pool elevations during June 30 - July 2, 2004 summer treaty fishing.

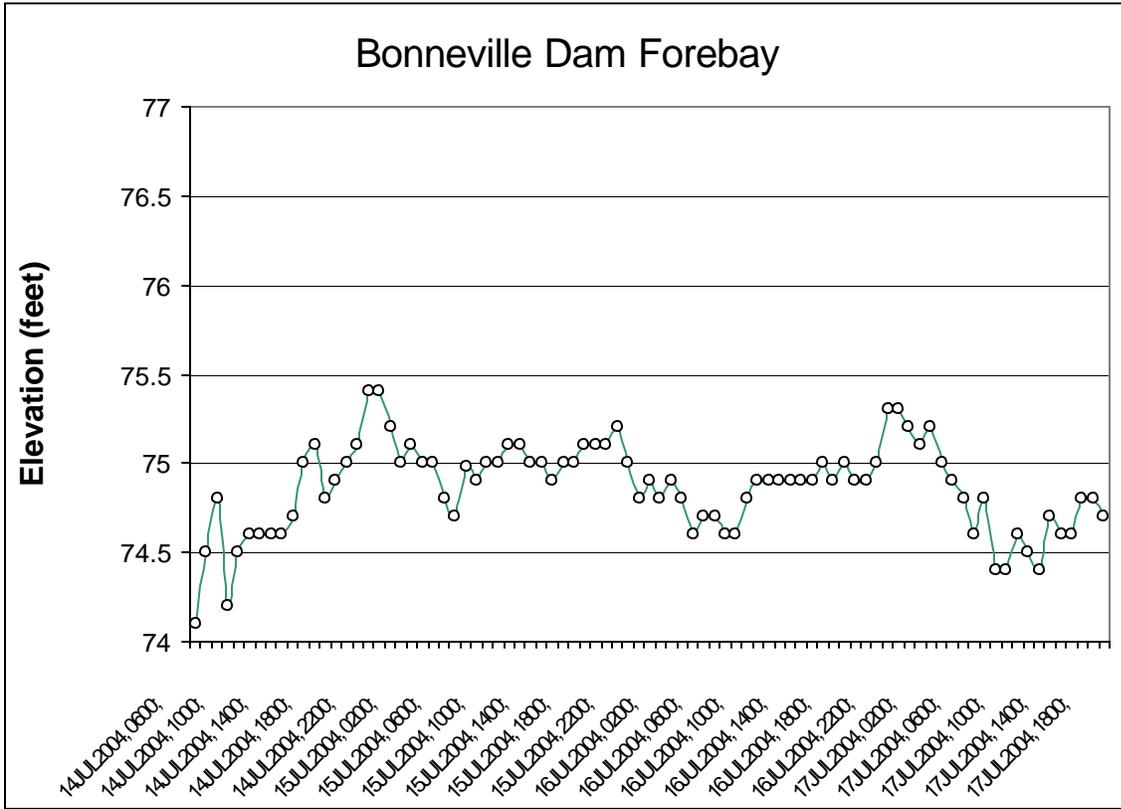


Figure 7. Observed BON pool elevations during July 14-17, 2004 summer treaty fishing.

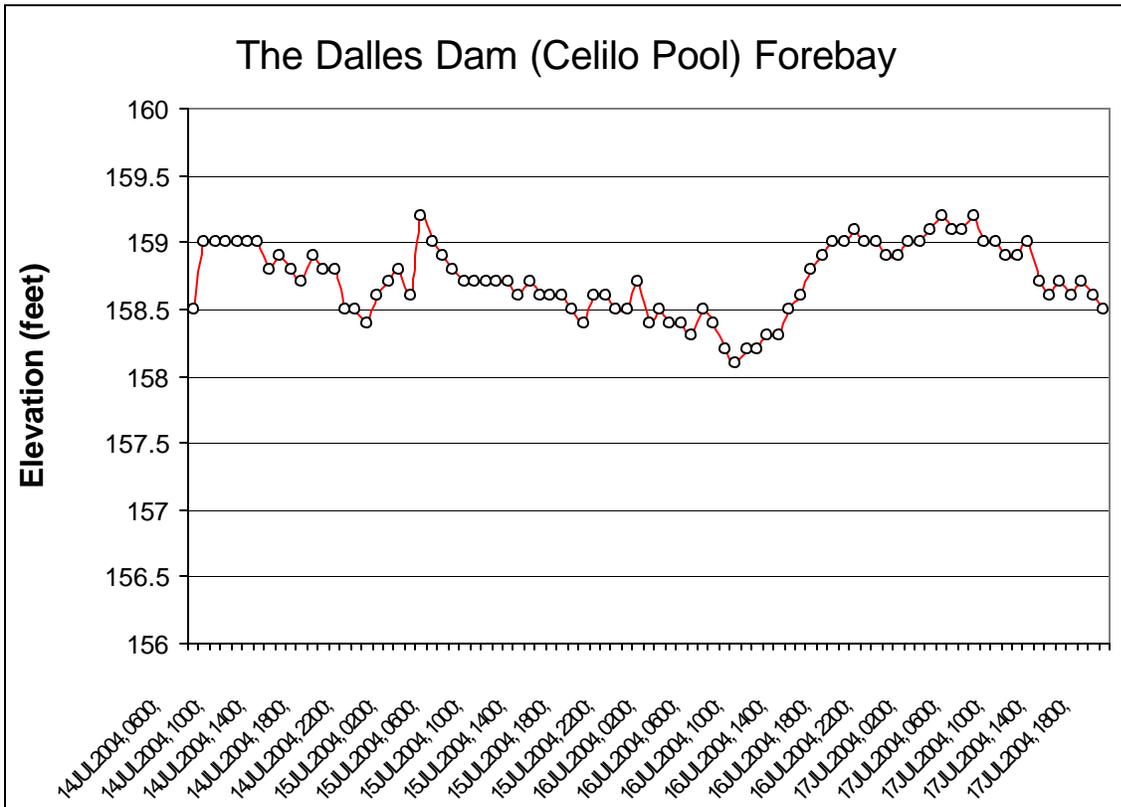


Figure 8. Observed TDA pool elevations during July 14-17, 2004 summer treaty fishing.

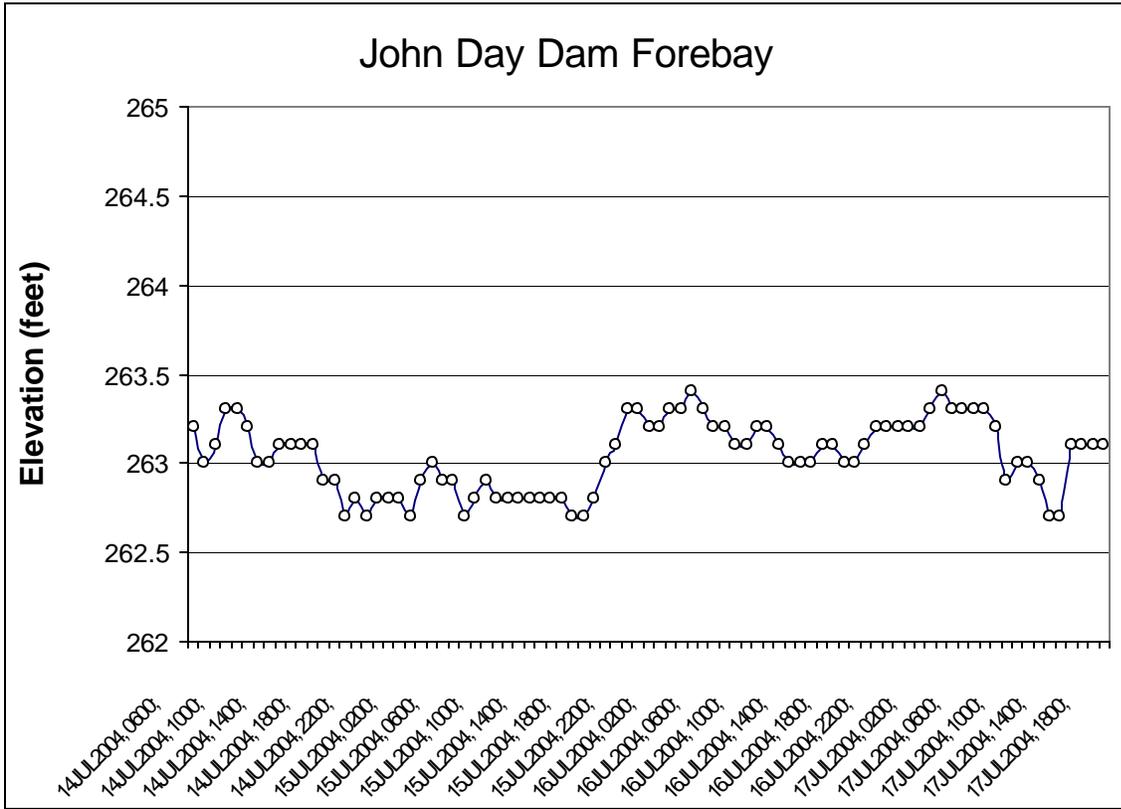


Figure 9. Observed JDA pool elevations during July 14-17, 2004 summer treaty fishing.

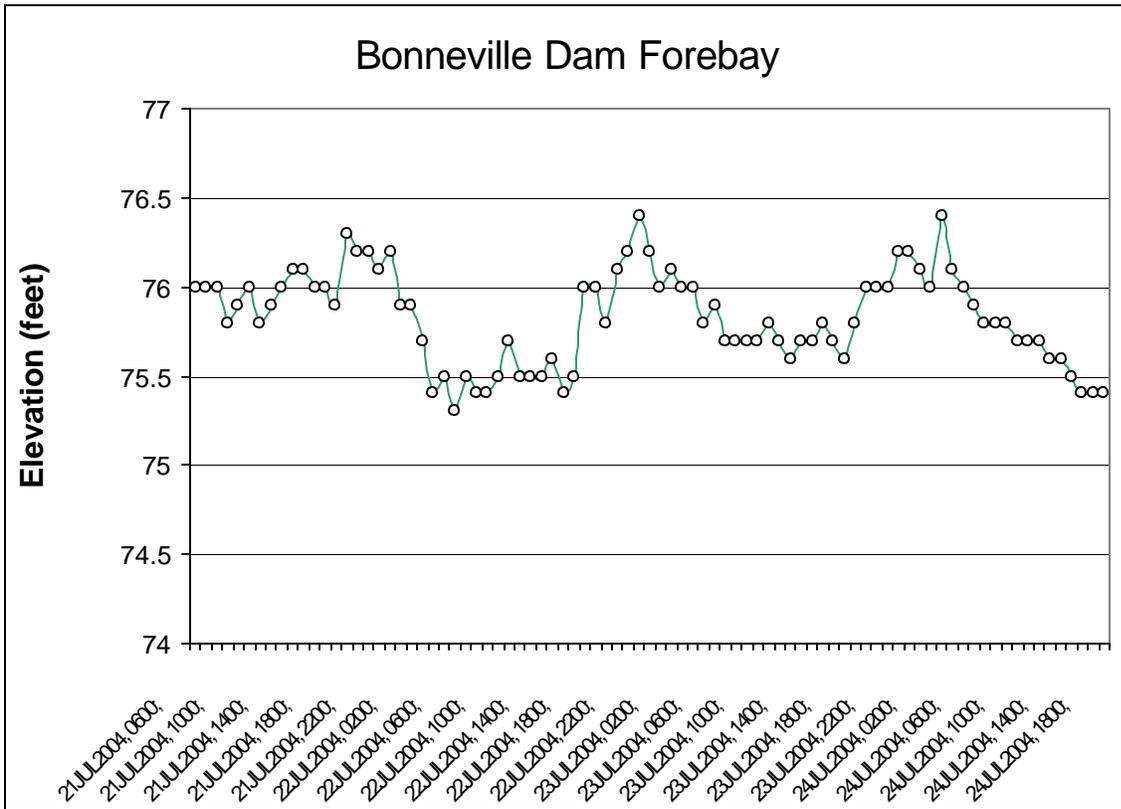


Figure 10. Observed BON pool elevations during July 21-24, 2004 summer treaty fishing.

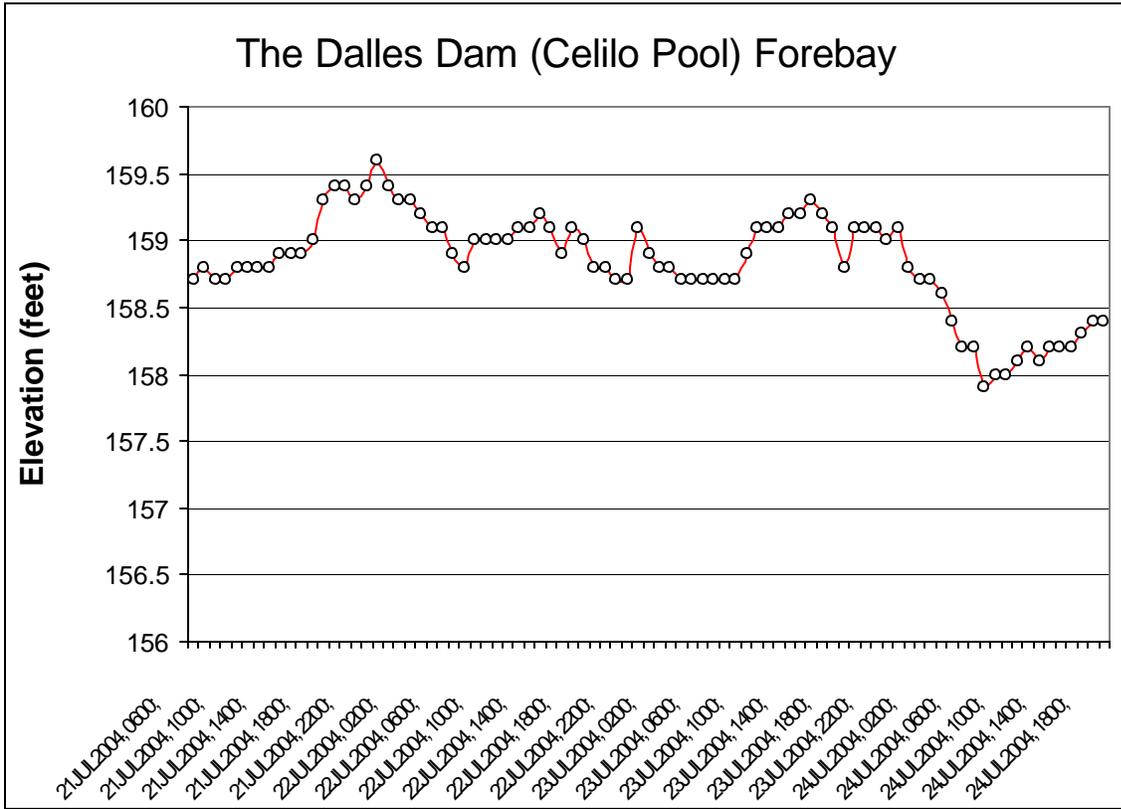


Figure 11. Observed TDA pool elevations during July 21-24, 2004 summer treaty fishing.

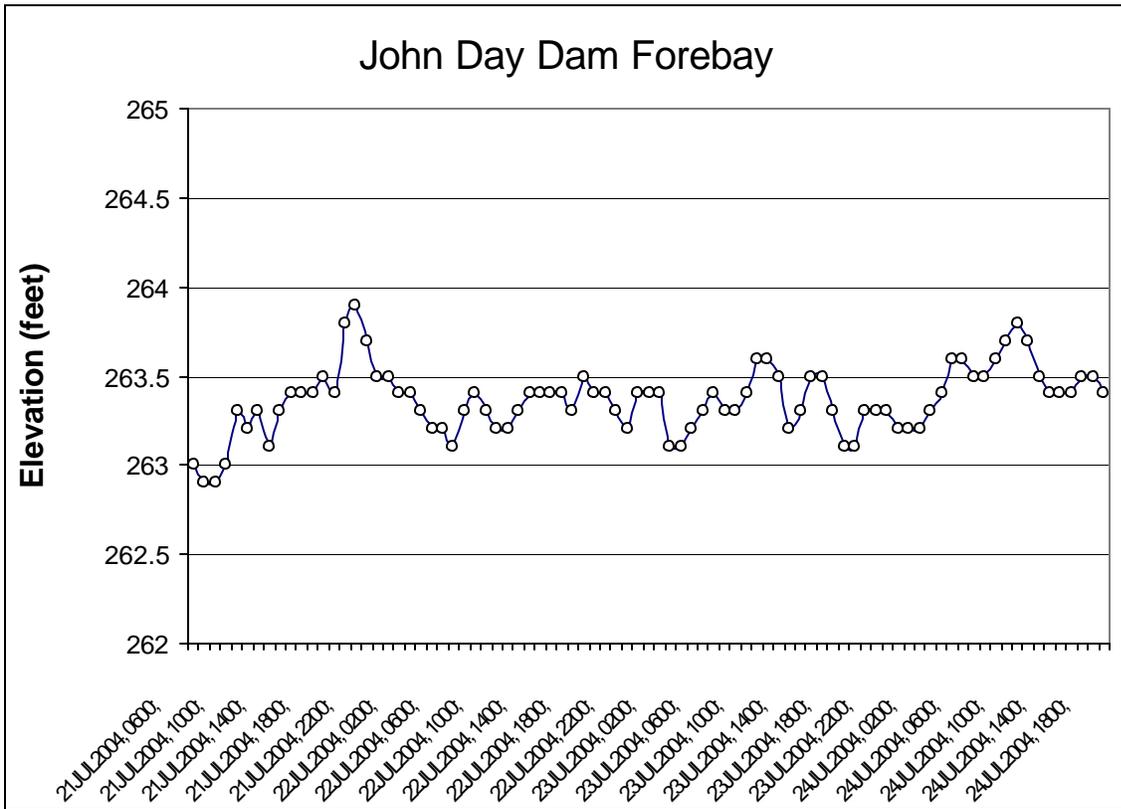


Figure 12. Observed JDA pool elevations during July 21-24, 2004 summer treaty fishing.

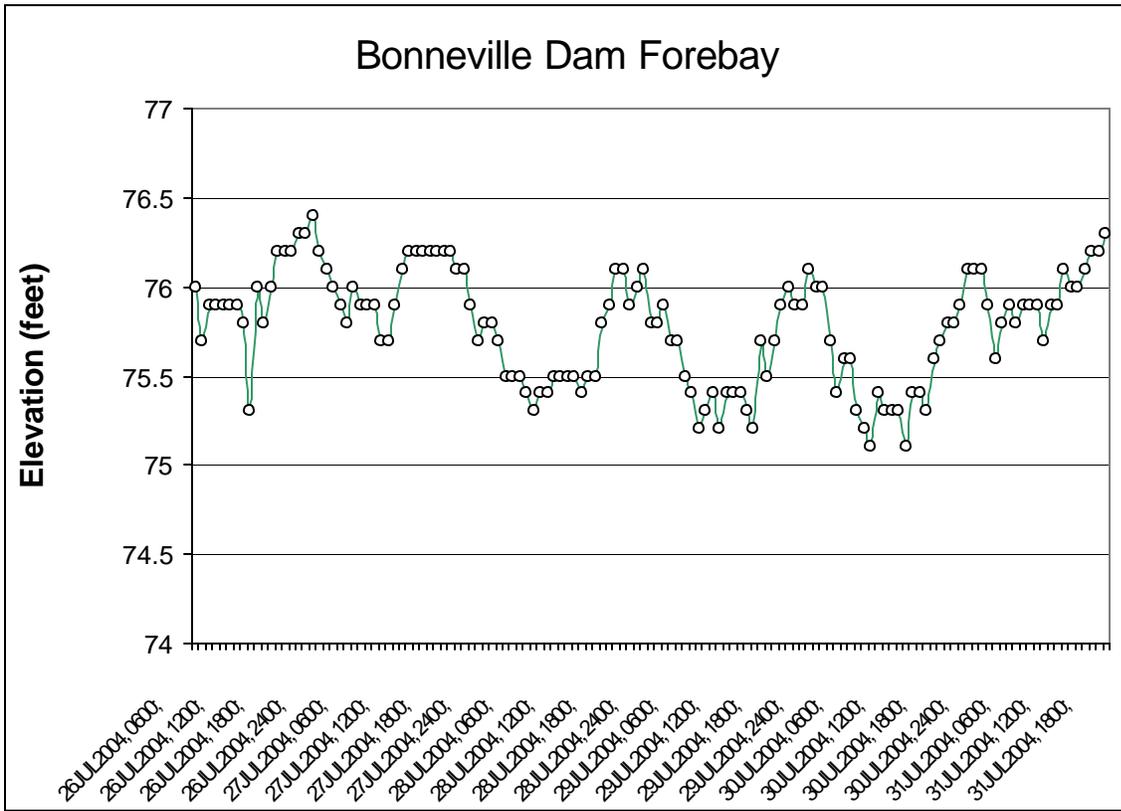


Figure 13. Observed BON pool elevations during July 26-31, 2004 summer treaty fishing.

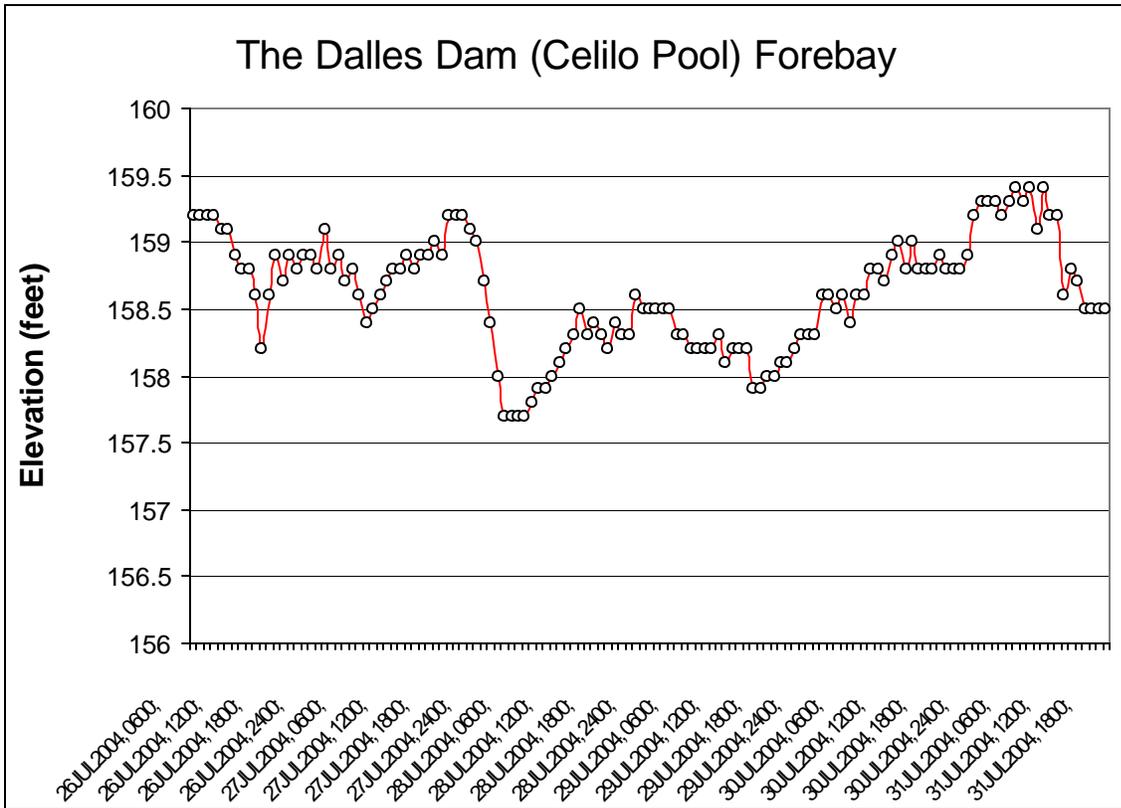


Figure 14. Observed TDA pool elevations during July 26-31, 2004 summer treaty fishing.

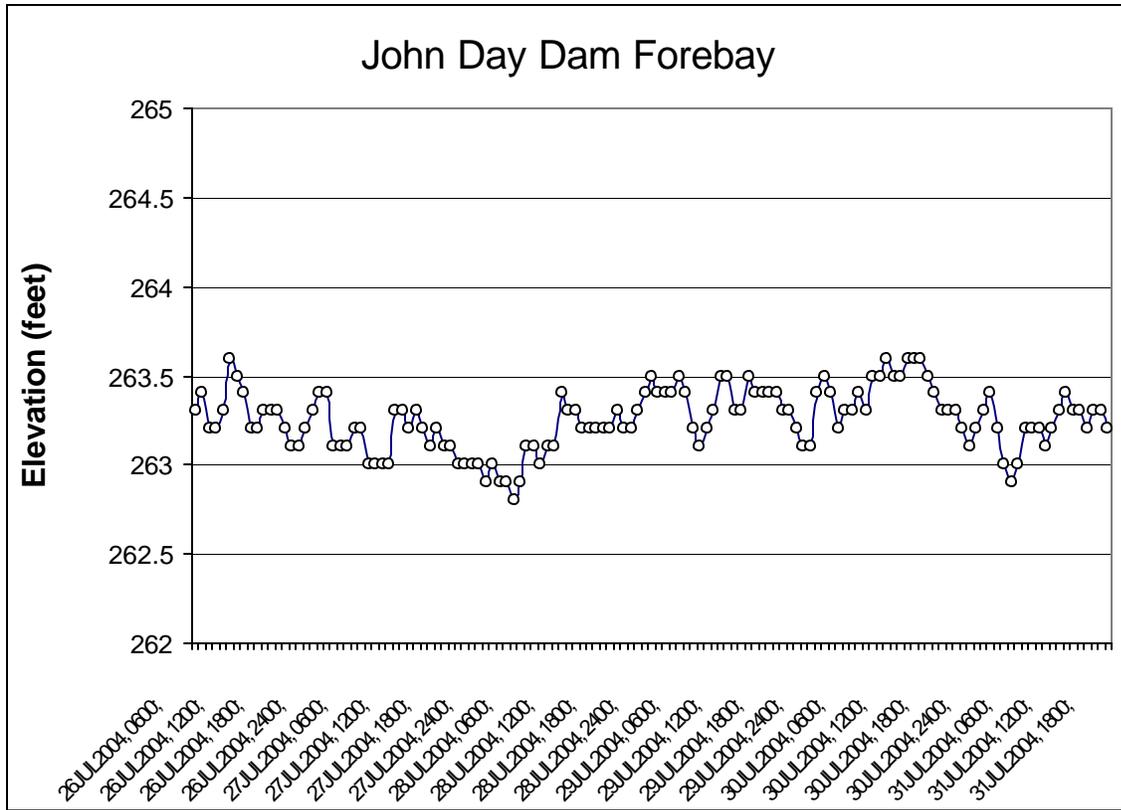


Figure 15. Observed JDA pool elevations during July 26-31, 2004 summer treaty fishing.