



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

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TO: Technical Management Team (TMT)
FROM: Kyle Dittmer, *Hydrologist - Meteorologist*, CRITFC Hydro Program
DATE: November 7, 2007
SUBJECT: Summary of Pool Operations – 2007 Autumn Treaty Fishery

CRITFC submitted four System Operation Requests (2007-C3 through C6) via the NMFS' TMT forum to support 2007 autumn treaty fishing. CRITFC requested: (1) one-foot elevation bands, (2) stable pool elevations during each treaty fishery. Criterion #1 is a hard constraint to operate within a one-foot elevation range for all of the Zone 6 pools (i.e. Bonneville, The Dalles, and John Day). The Corps committed to a hard constraint of a 1.5-foot range, or a 1-foot soft constraint, as they have done since 1996, but only for the Bonneville pool.¹ The fishing effort (36-47%) was in the John Day pool. The table summarizes the hourly compliance of CRITFC's 1-foot elevation band criteria and the 1.5-foot criteria during the 2007 and 2006 treaty fisheries.

| 2007 | | Bonneville Pool | The Dalles Pool | John Day pool |
|------------------------|---------------|-----------------|------------------|------------------|
| 1 foot range (CRITFC): | | 76.5-75.5 feet | 159.5-158.5 feet | 264.5-263.5 feet |
| AUG 22 - 24 | | 100% | 48% | 93% |
| AUG 28 - 31 | | 86% | 39% | 81% |
| SEPT 4 - 8 | | 98% | 97% | 83% |
| SEPT 11 - 14 | | 100% | 100% | 21% |
| SEPT 17 - 21 | | 100% | 100% | 75% |
| SEPT 25 – 28* | | 98% | 100% | 15% |
| OCT 3 - 6 | | 98% | 100% | 100% |
| *BON 73.5-74.5 | average: | 97% | 83% | 69% |
| | 2006 average: | 93% | 62% | 99% |
| 1.5 foot range: | | 76.5-75 feet | 159.5-158 feet | 264.5-263 feet |
| AUG 22 - 24 | | 100% | 57% | 100% |
| AUG 28 - 31 | | 100% | 71% | 99% |
| SEPT 4 - 8 | | 100% | 100% | 100% |
| SEPT 11 - 14 | | 100% | 100% | 100% |
| SEPT 17 - 21 | | 100% | 100% | 100% |
| SEPT 25 - 28 | | 100% | 100% | 99% |
| OCT 3 - 6 | | 100% | 100% | 100% |
| | average: | 100% | 90% | 100% |
| | 2006 average: | 100% | 82% | 100% |

Pool elevation data is a good objective measure as to the absolute pool fluctuations (Criterion #2) as shown in Figures 1 through 21. Bonneville pool operations saw 0.2 to 1.2 foot swings (compared to 0.3 – 1.0 foot swings in autumn 2006). The Dalles pool saw 0.3 – 2.7 foot swings (compared to 0.5 – 2.2 foot swings in autumn 2006). John Day pool saw 0.2 – 0.7 foot swings (compared to 0.2 – 0.7 foot swings in autumn 2006). Figures 22-23 show recent river conditions.

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

¹ CRITFC's member tribes are currently engaged in policy discussions with the Corps NWD commanders regarding providing appropriate pool operations for all of Zone 6 during the treaty fisheries.

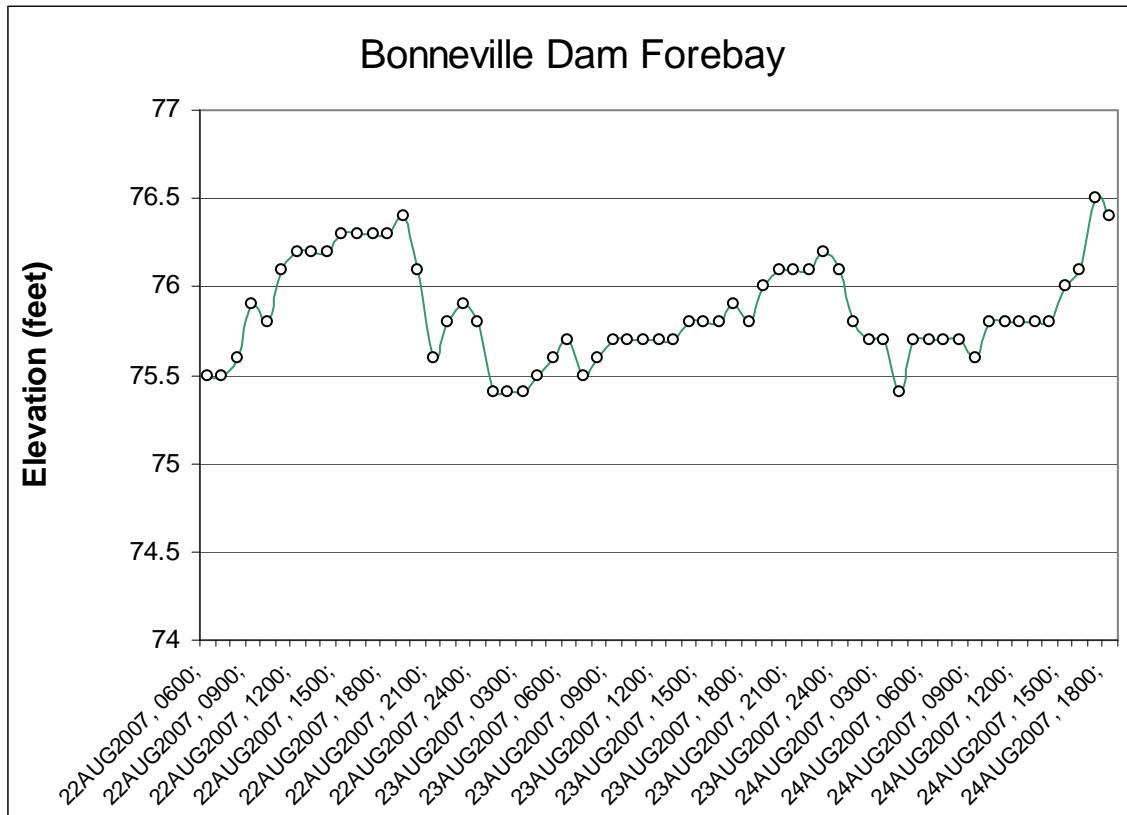


Figure 1. Observed BON pool elevations during August 22-24, 2007 autumn treaty fishing.

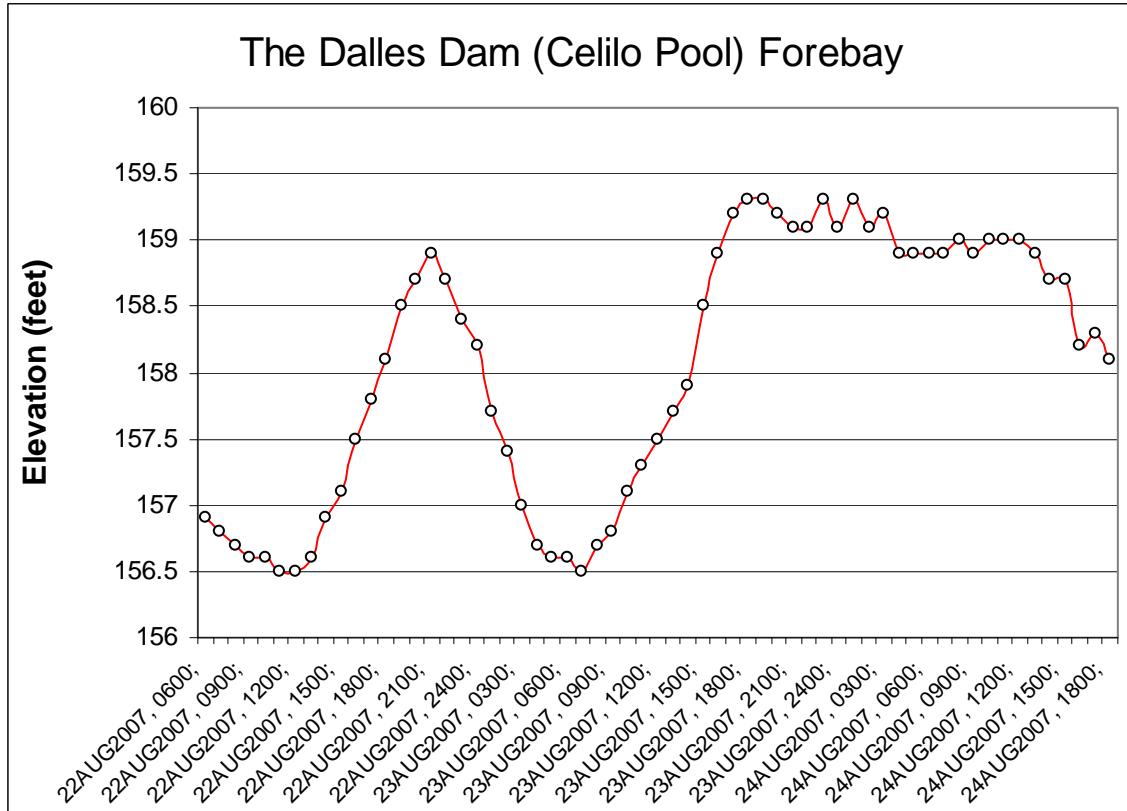


Figure 2. Observed TDA pool elevations during August 22-24, 2007 autumn treaty fishing.

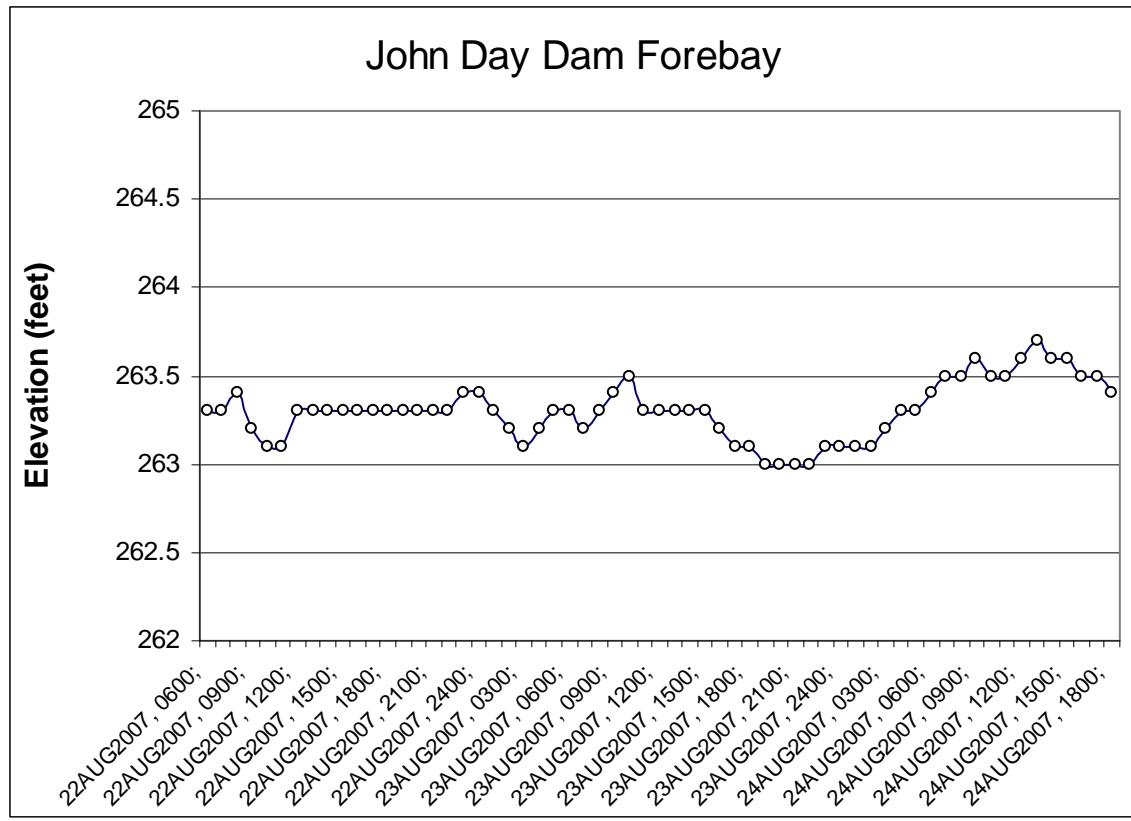


Figure 3. Observed JDA pool elevations during August 22-24, 2007 autumn treaty fishing.

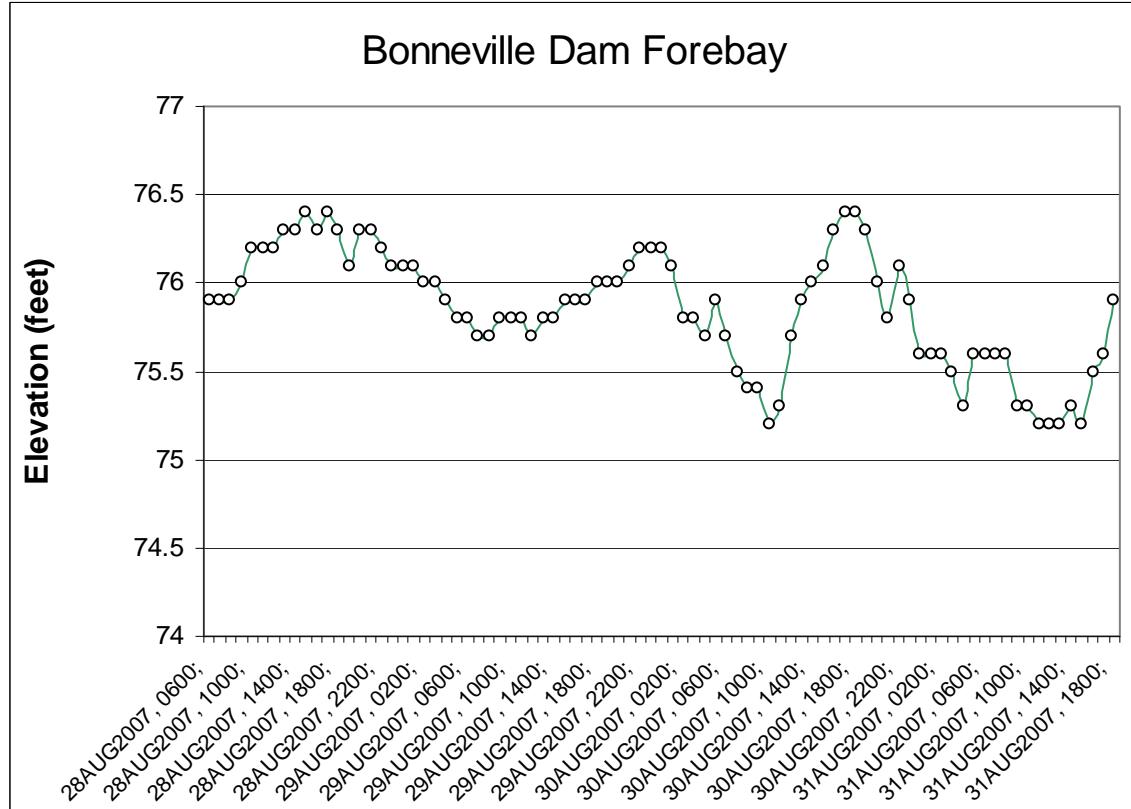


Figure 4. Observed BON pool elevations during August 28-31, 2007 autumn treaty fishing.

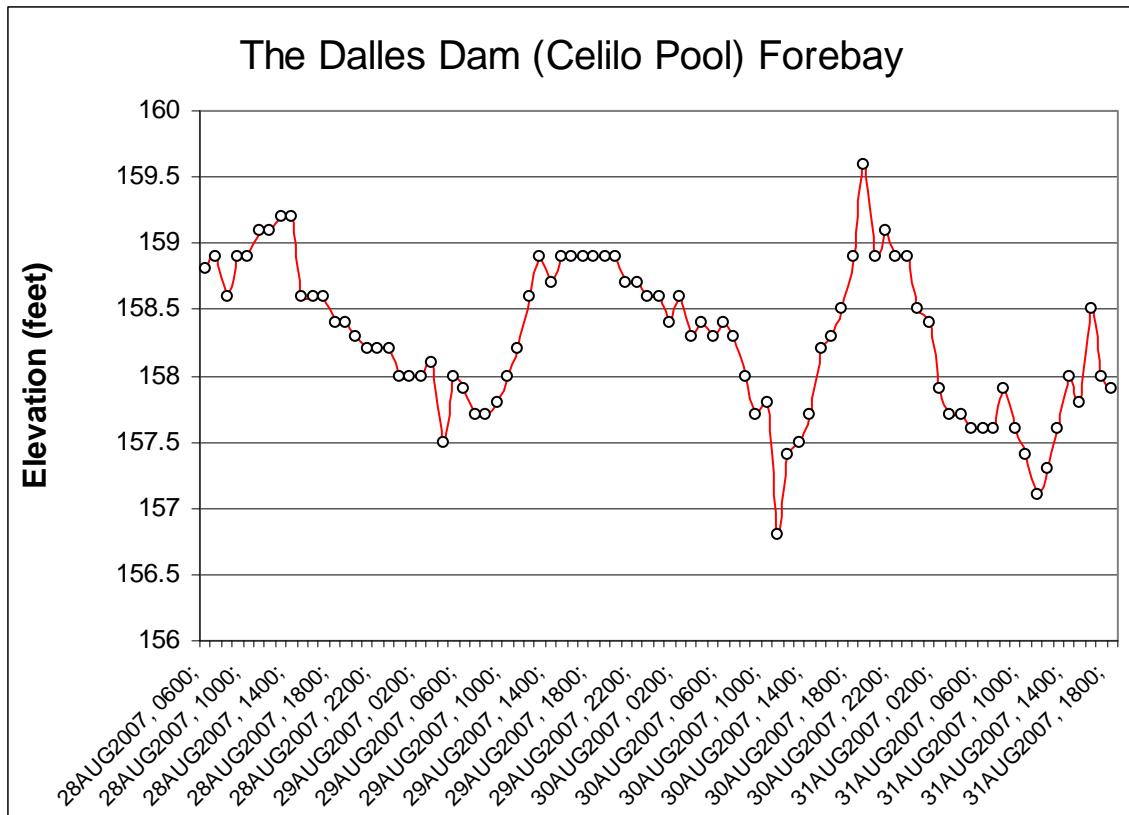


Figure 5. Observed TDA pool elevations during August 28-31, 2007 autumn treaty fishing.

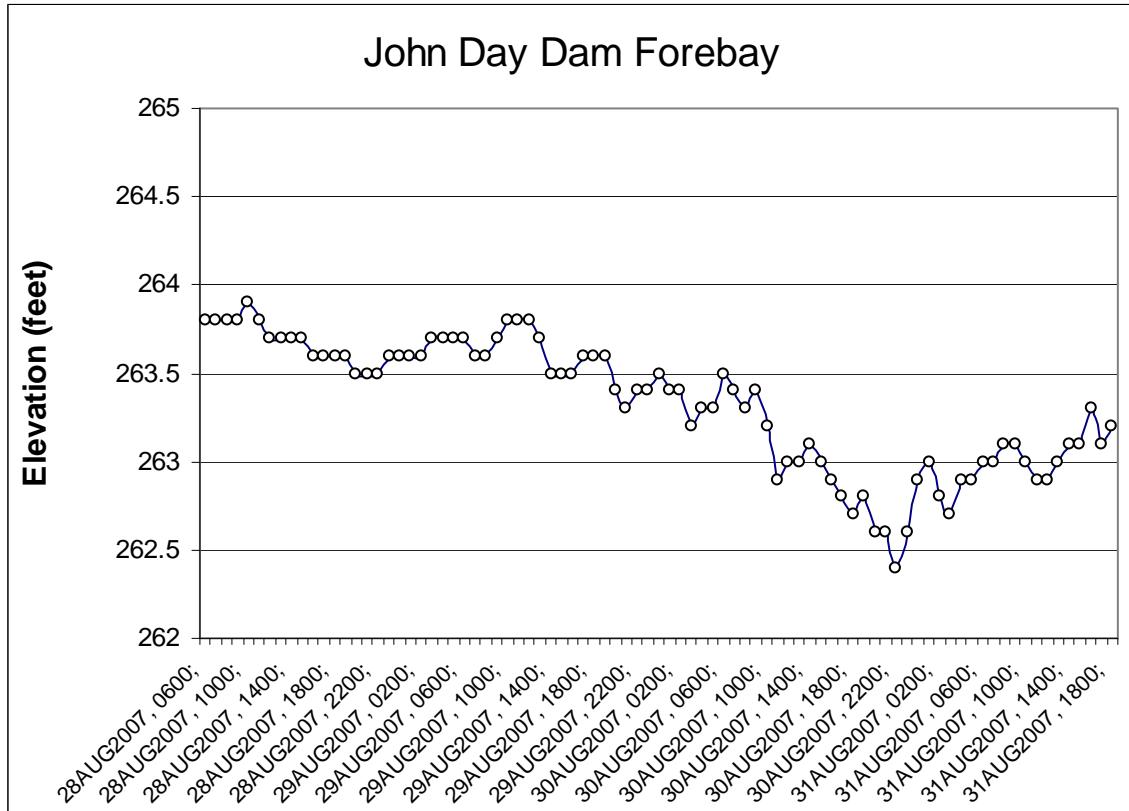


Figure 6. Observed JDA pool elevations during August 28-31, 2007 autumn treaty fishing.

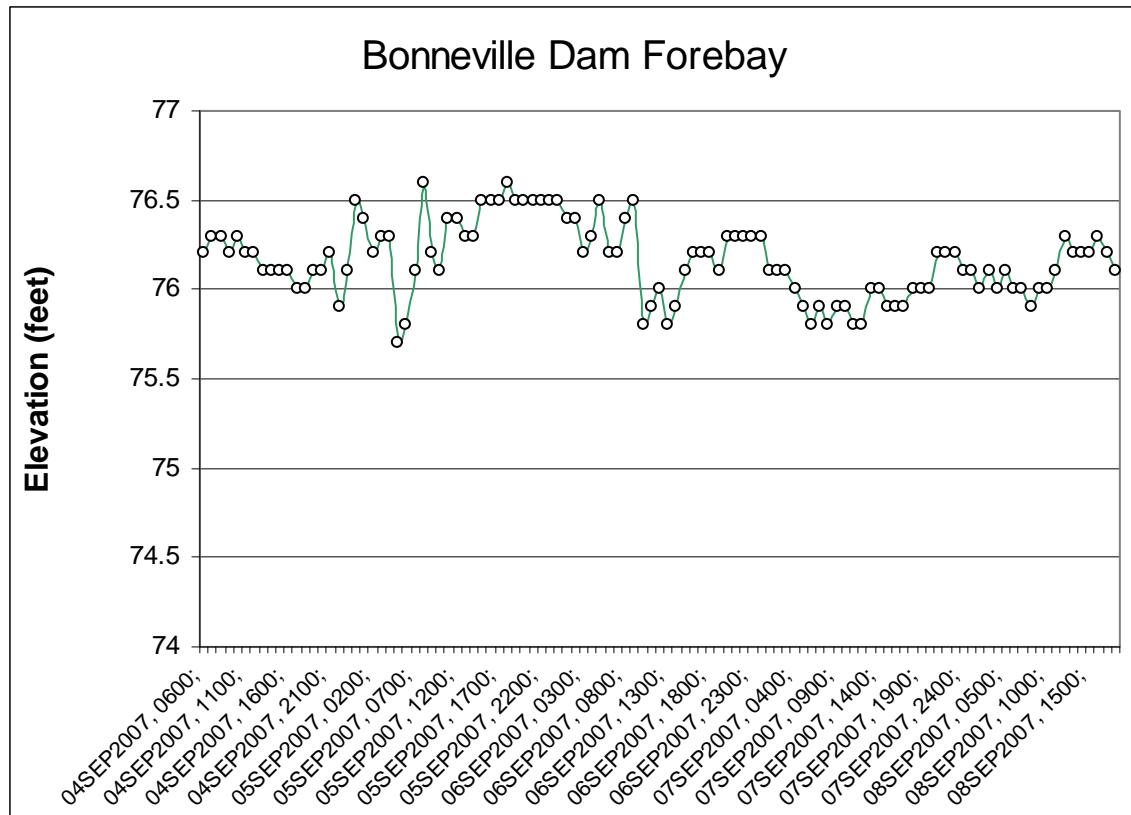


Figure 7. Observed BON pool elevations during September 4-8, 2007 autumn treaty fishing.

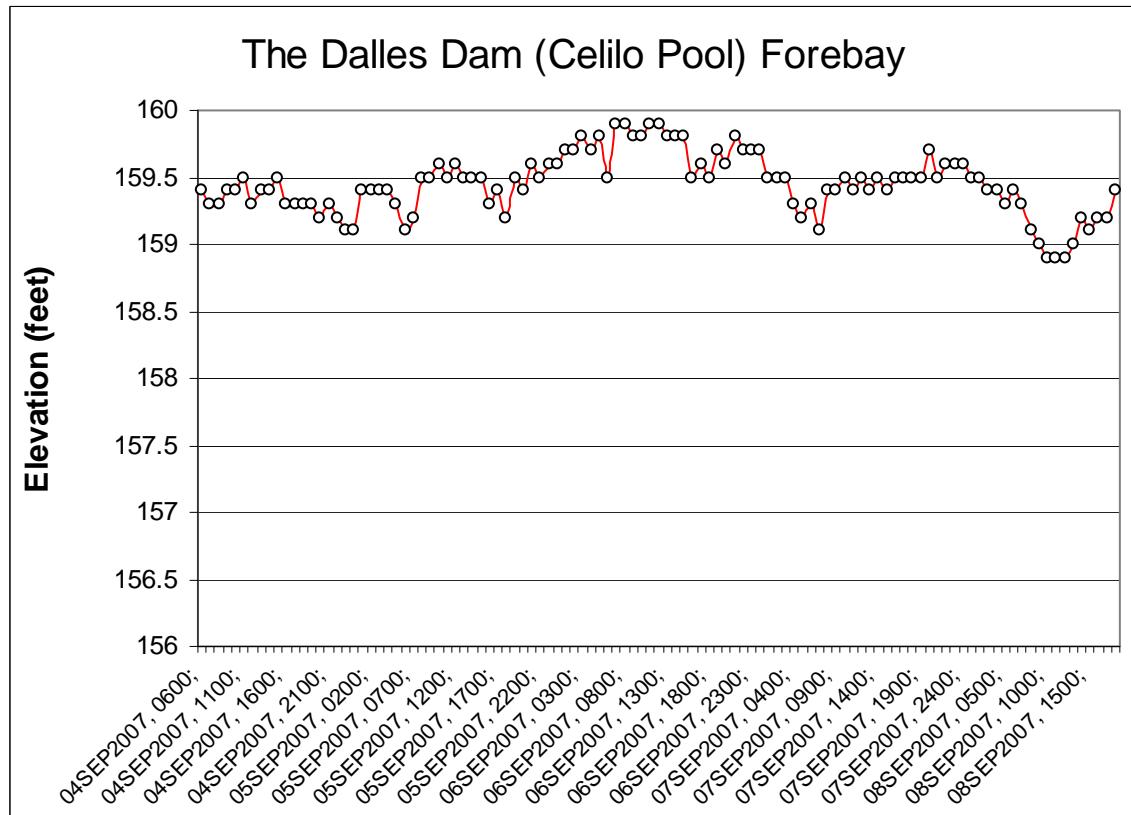


Figure 8. Observed TDA pool elevations during September 4-8, 2007 autumn treaty fishing.

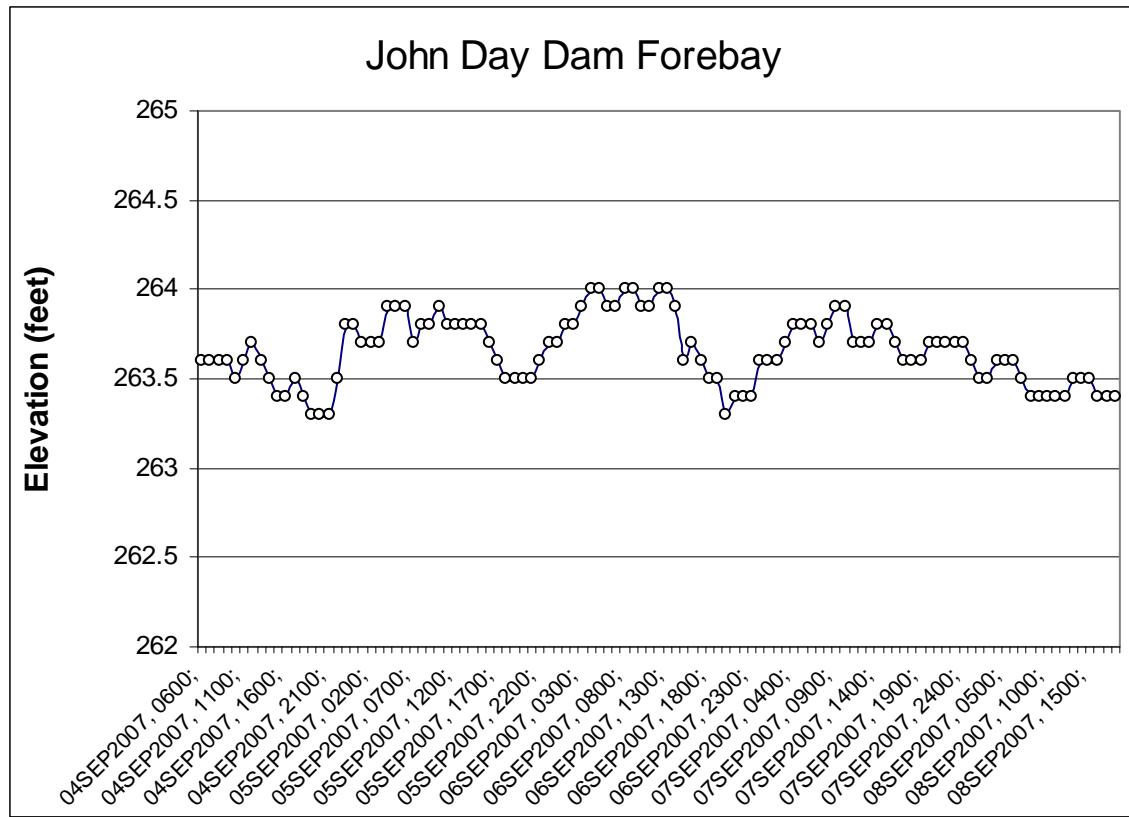


Figure 9. Observed JDA pool elevations during September 4-8, 2007 autumn treaty fishing.

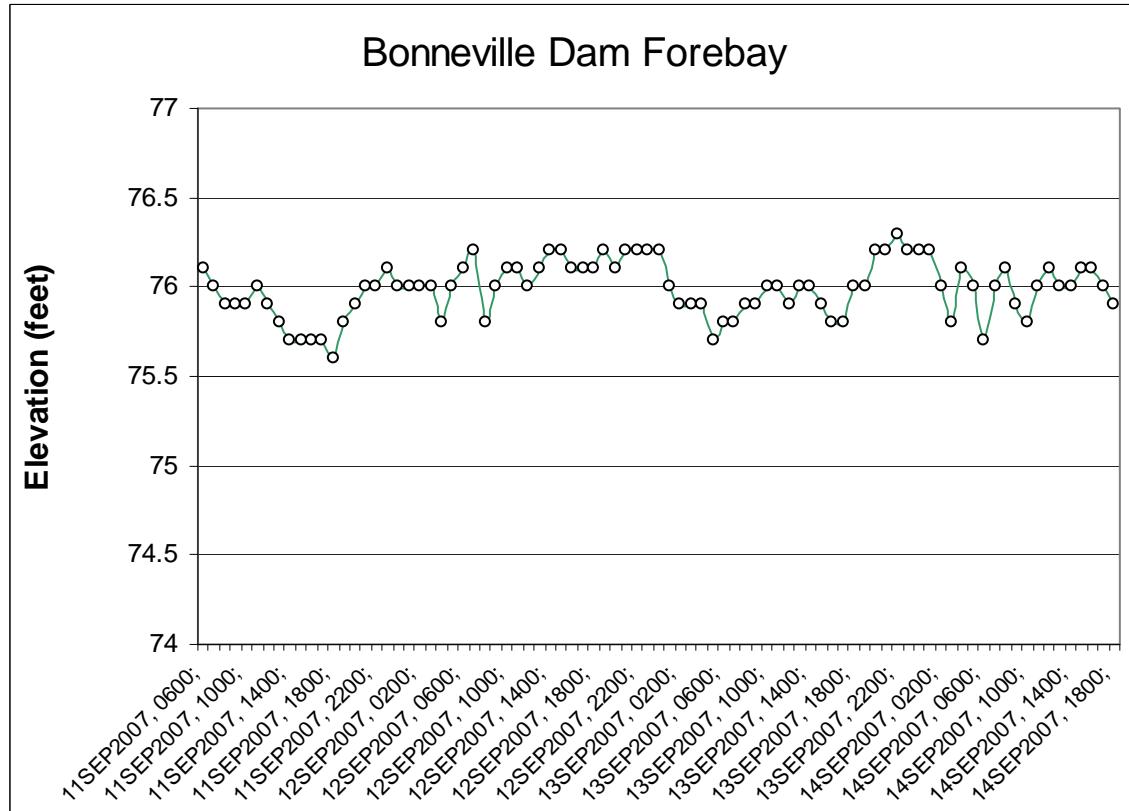


Figure 10. Observed BON pool elevations during September 11-14, 2007 autumn treaty fishing.

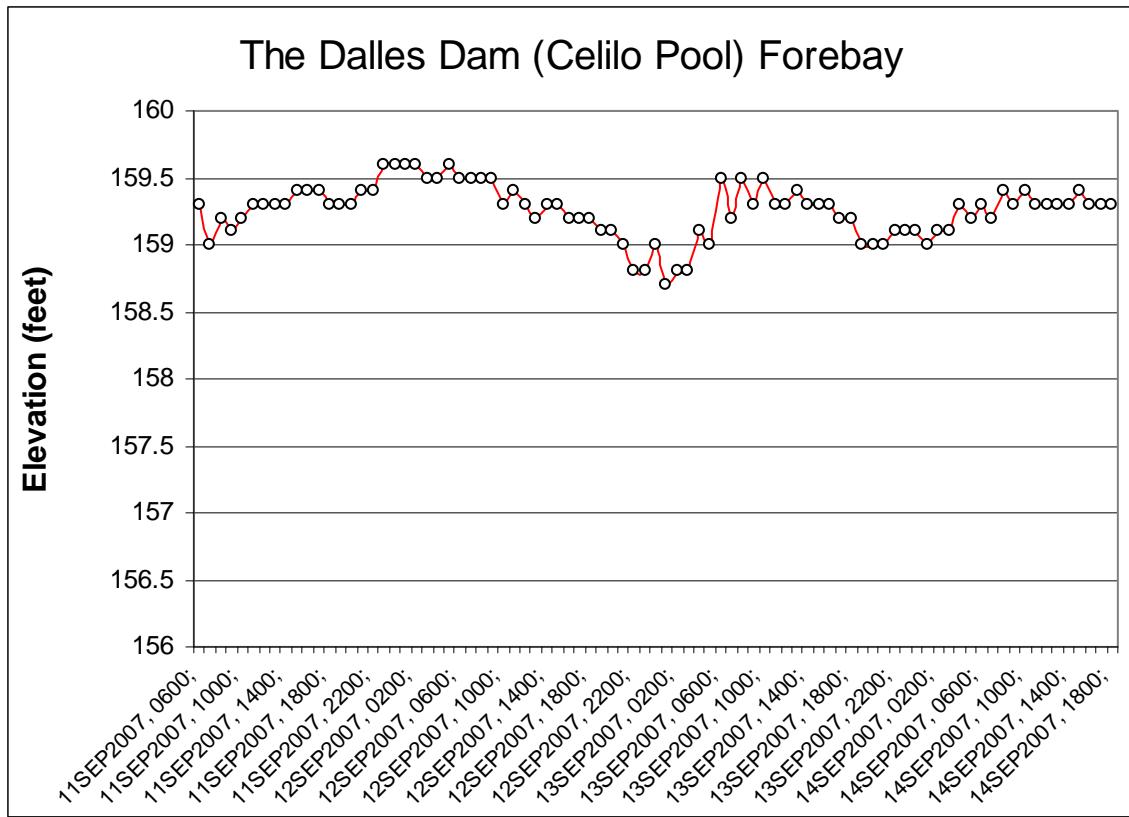


Figure 11. Observed TDA pool elevations during September 11-14, 2007 autumn treaty fishing.

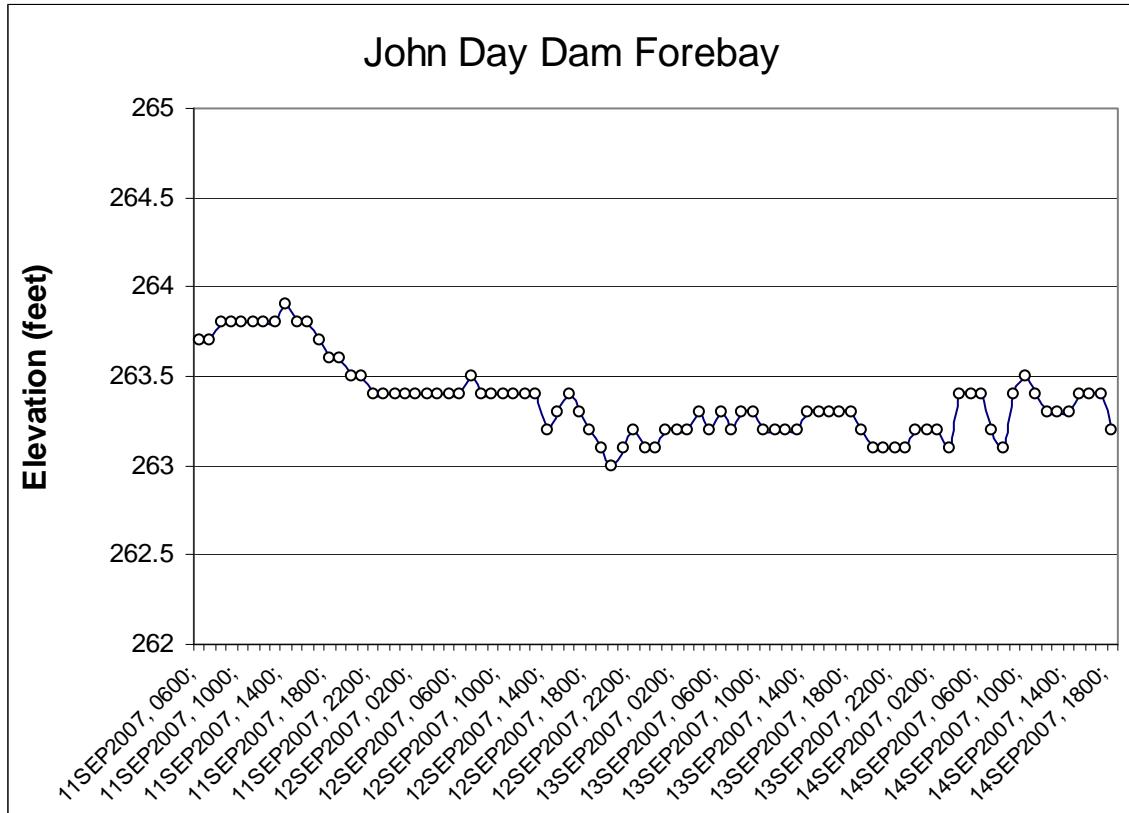


Figure 12. Observed JDA pool elevations during September 11-14, 2007 autumn treaty fishing.

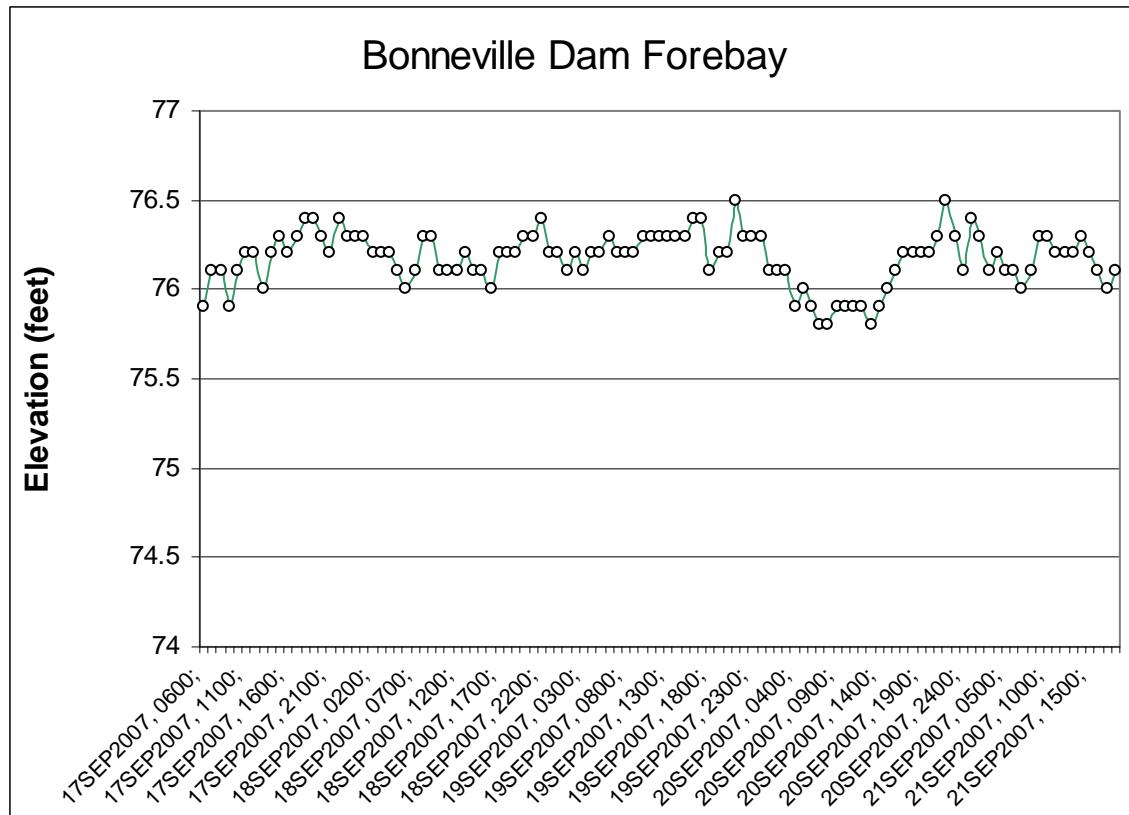


Figure 13. Observed BON pool elevations during September 17-21, 2007 autumn treaty fishing.

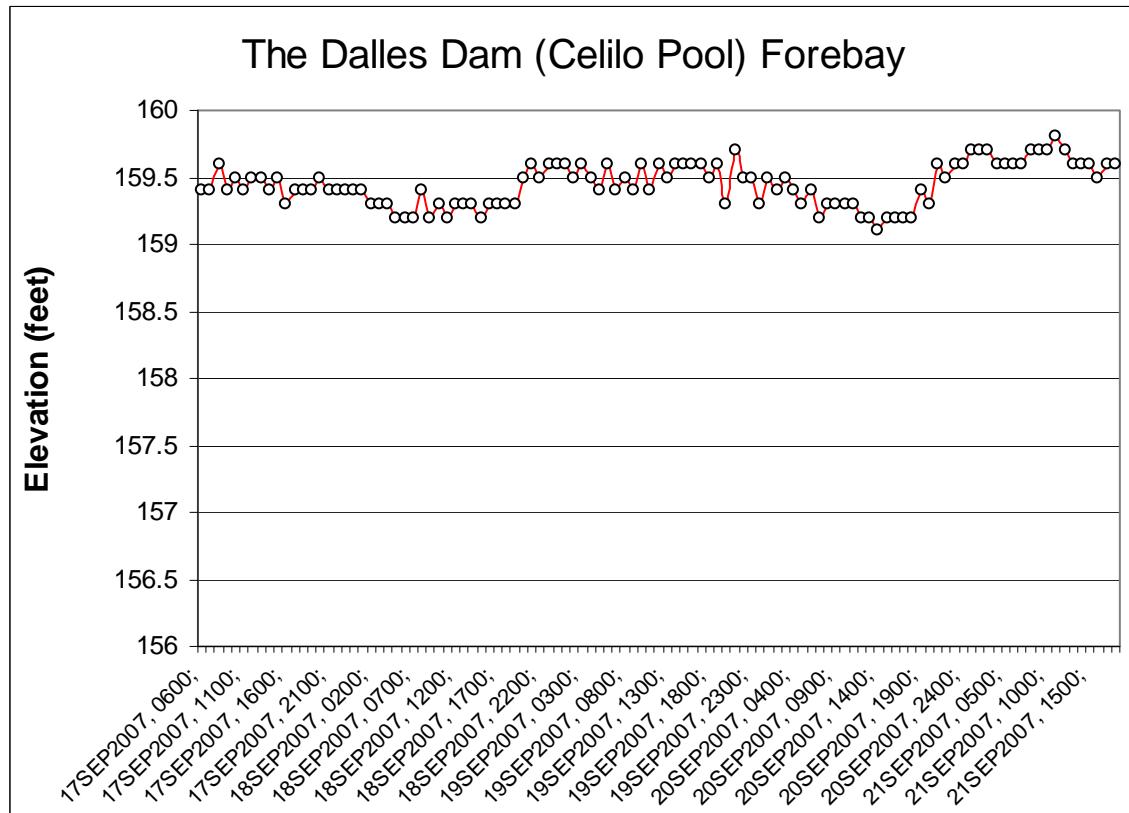


Figure 14. Observed TDA pool elevations during September 17-21, 2007 autumn treaty fishing.

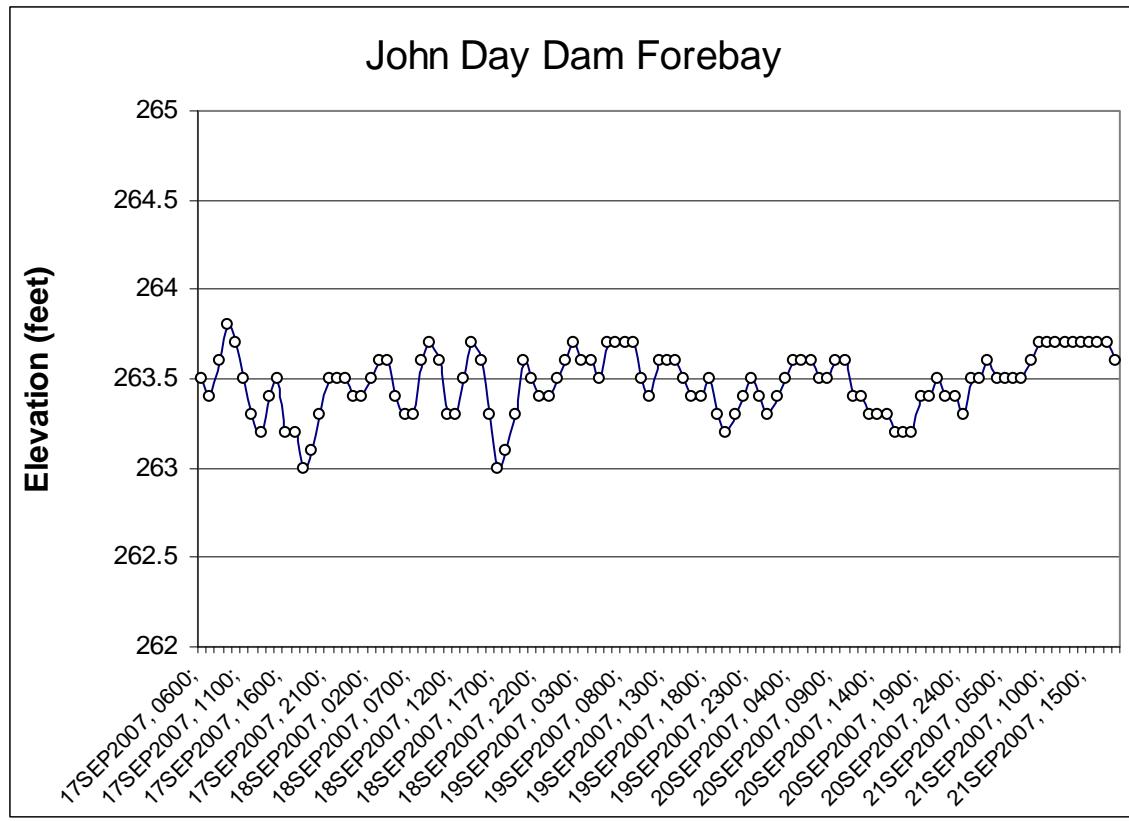


Figure 15. Observed JDA pool elevations during September 17-21, 2007 autumn treaty fishing.

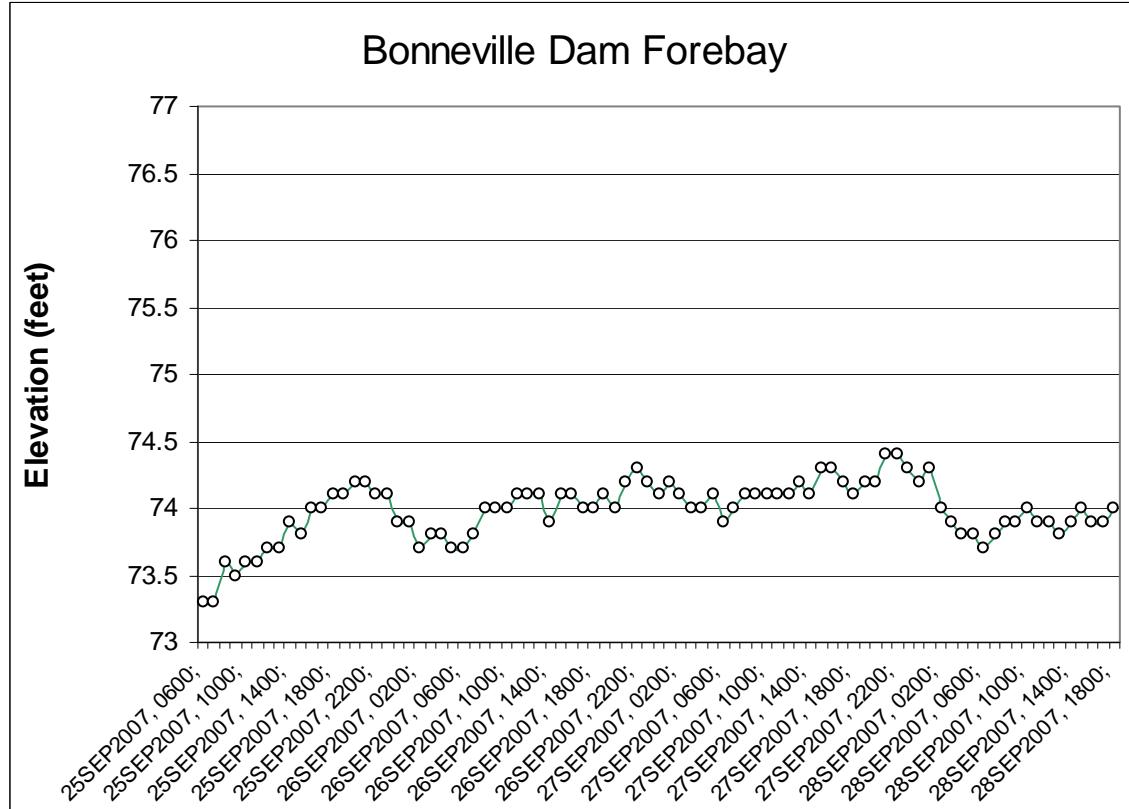


Figure 16. Observed BON pool elevations during September 25-28, 2007 autumn treaty fishing.

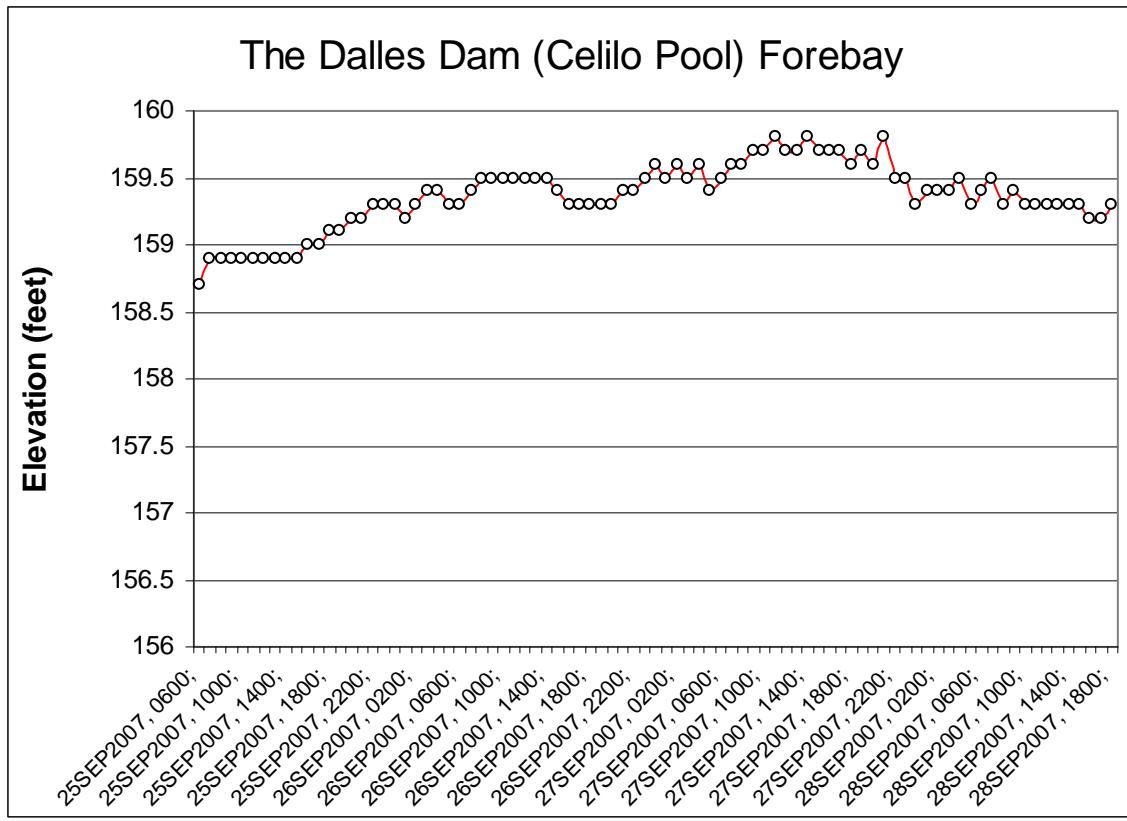


Figure 17. Observed TDA pool elevations during September 25-28, 2007 autumn treaty fishing.

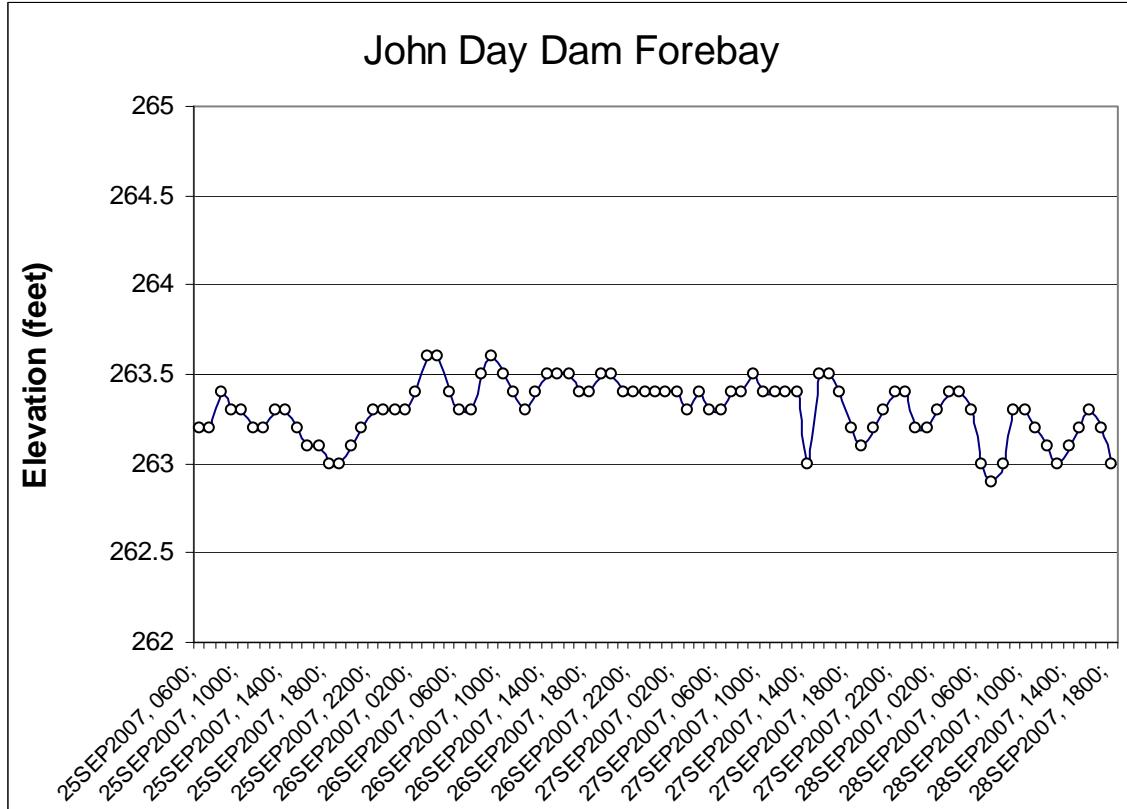


Figure 18. Observed JDA pool elevations during September 25-28, 2007 treaty fishing.

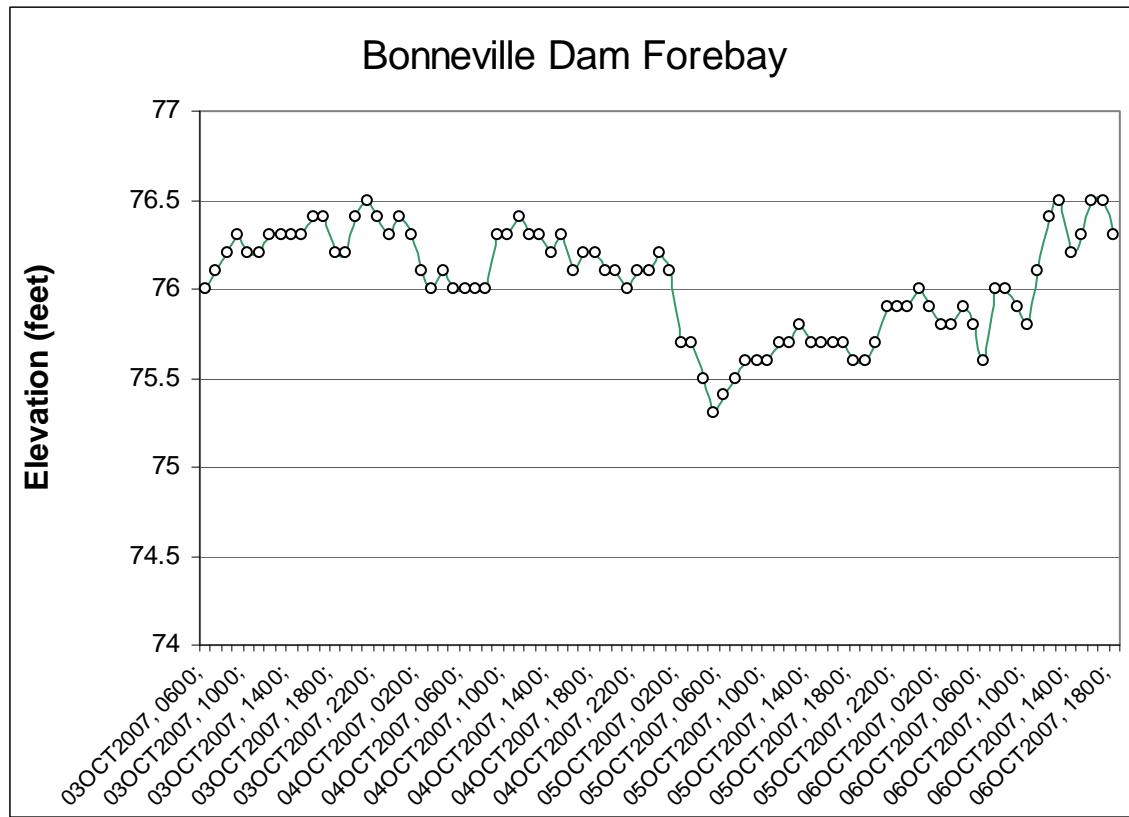


Figure 19. Observed BON pool elevations during October 3-6, 2007 autumn treaty fishing.

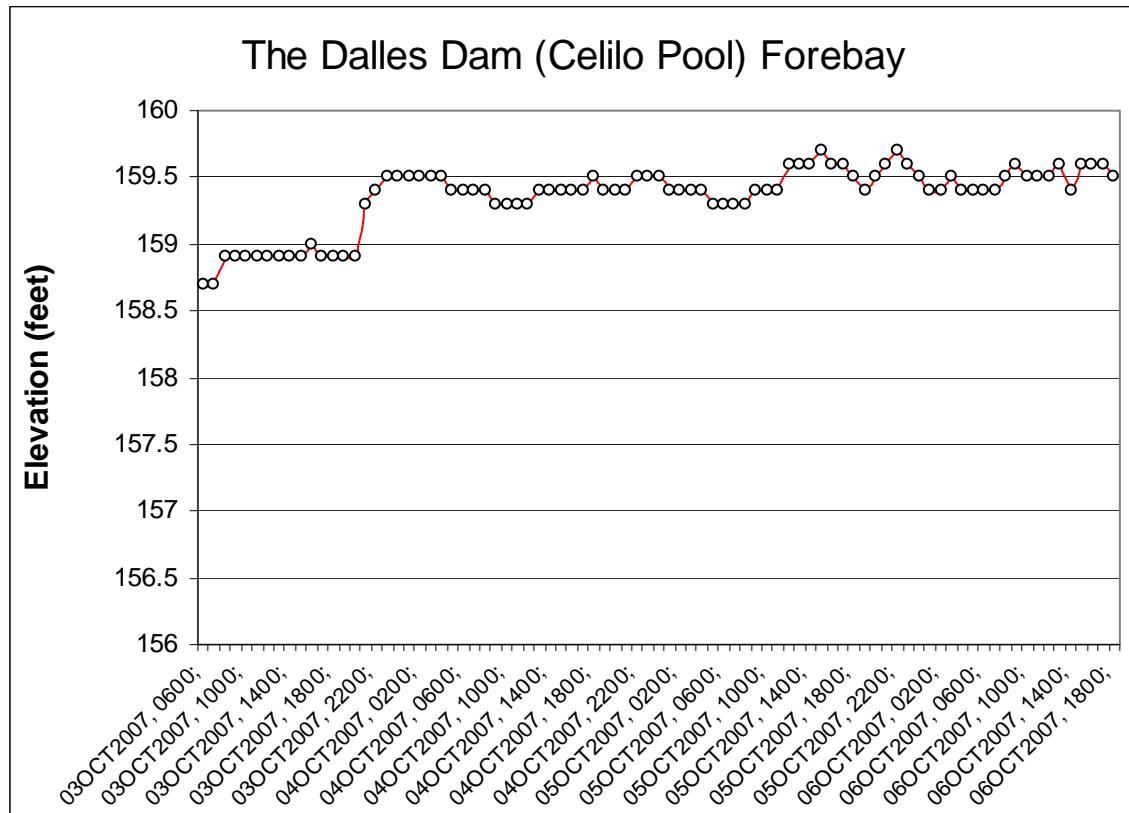


Figure 20. Observed TDA pool elevations during October 3-6, 2007 autumn treaty fishing.

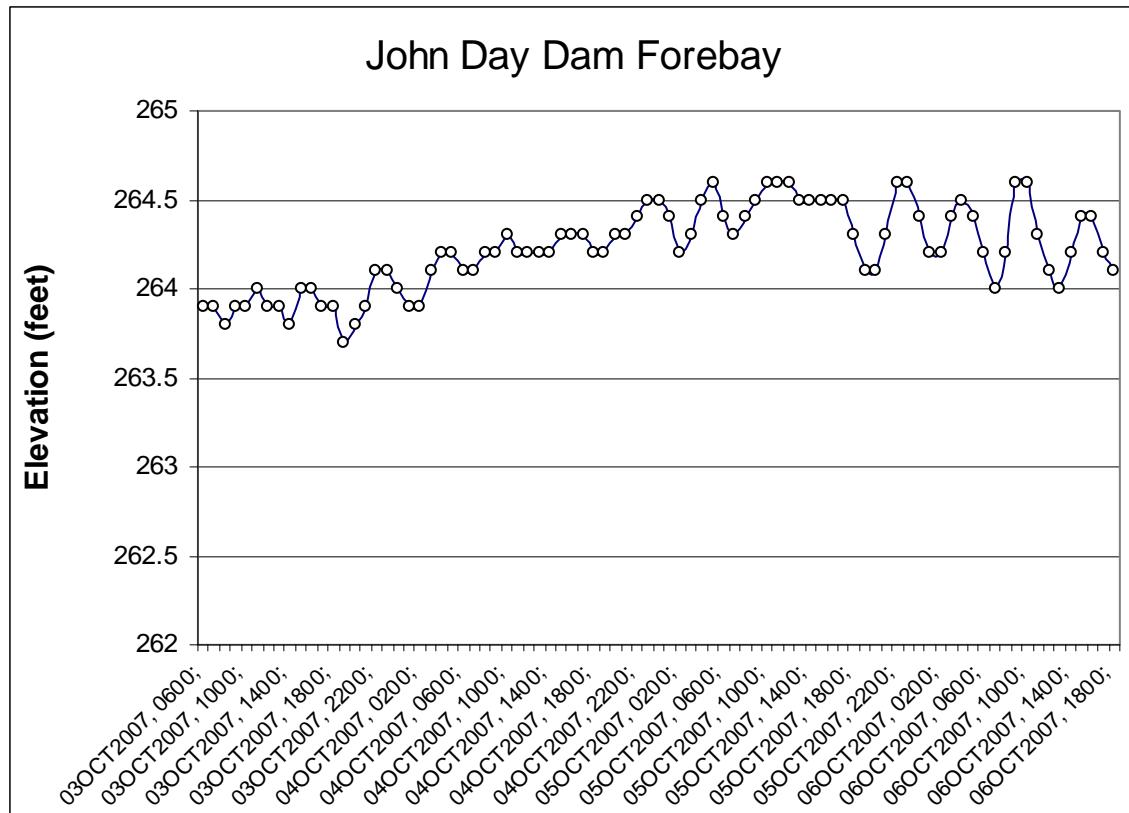


Figure 21. Observed JDA pool elevations during October 3-6, 2007 treaty fishing.

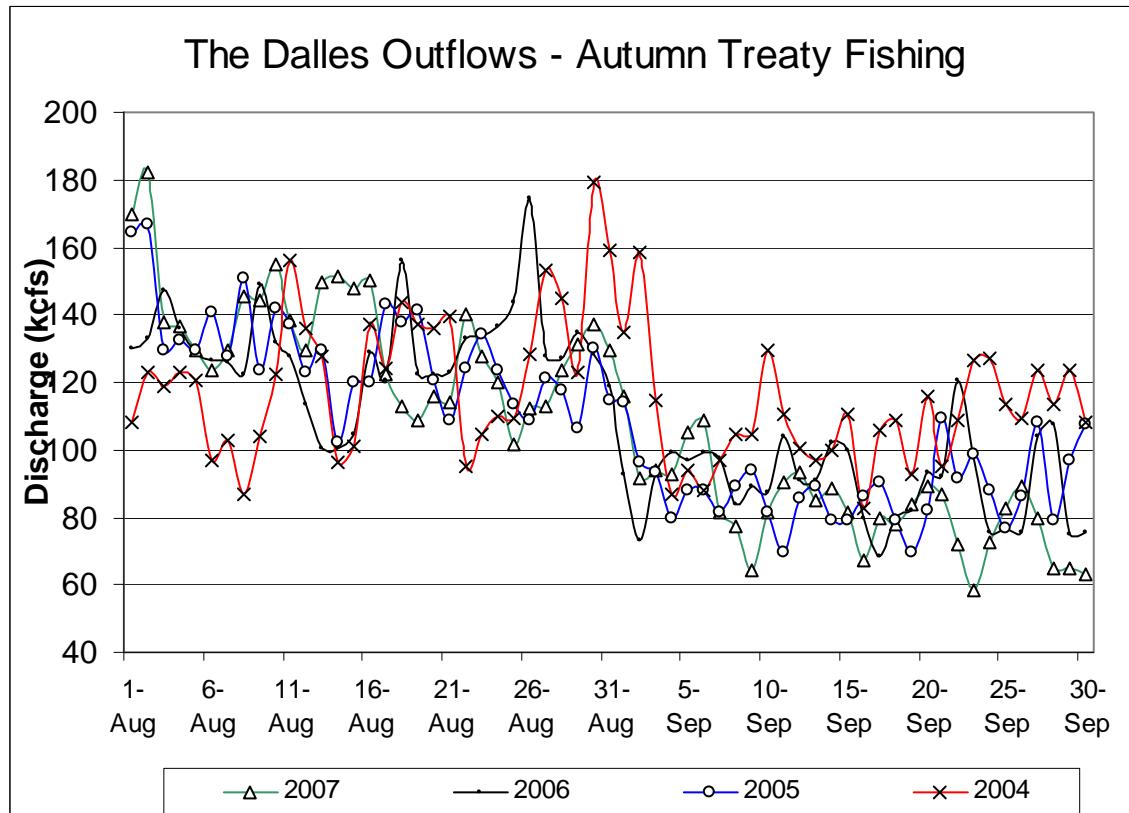


Figure 22. Observed TDA outflows during the autumn treaty fishing seasons of recent years.

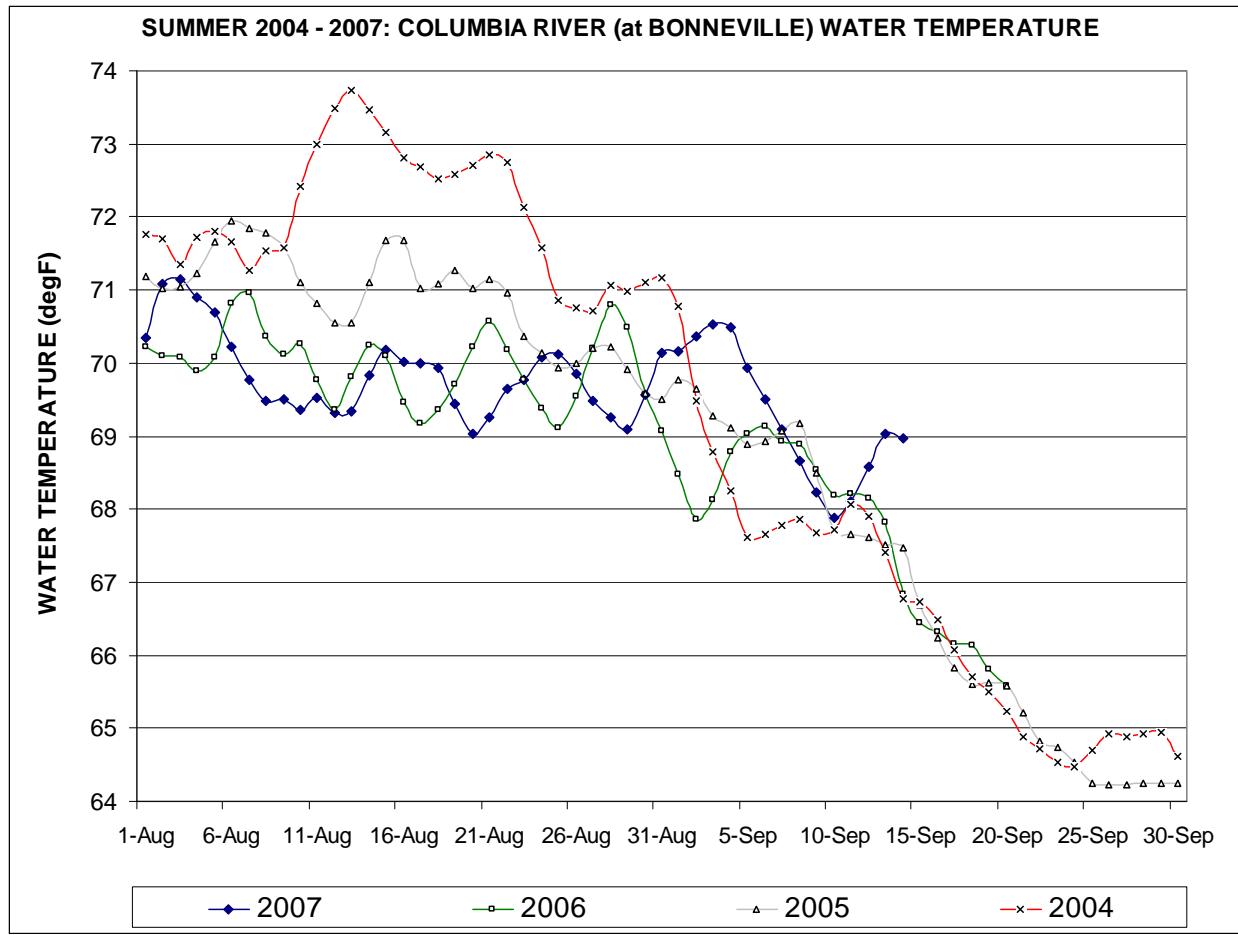


Figure 23. Water temperatures (WQM) during the autumn treaty fishing seasons of recent years.