



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: October 27th, 2004
 SUBJECT: Impact of Pool Fluctuations on the 2004 Autumn Treaty Fishery

CRITFC submitted five System Operation Requests (2004-C9, C-10, C-11, C-12, C13) via the TMT forum to support autumn treaty fishing. The CRITFC requests asked for (1) specific pool 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 criteria and the Corps' criteria during the treaty fishery. Averages from the seven-week 2003 autumn season are also shown. Tribal harvest includes 124,700 Chinook and 13,200 steelhead.

| 2004 | 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 |
| AUGUST 25 - 27 | 74% | 36% | 15% |
| AUGUST 31 - SEPT 3 | 74% | 55% | 20% |
| SEPTEMBER 7 - 10 | 22% | 91% | 42% |
| SEPTEMBER 13 - 17 | 100% | 91% | 41% |
| SEPTEMBER 20 - 24 | 96% | 80% | 50% |
| SEPTEMBER 27 - 30 | 91% | 96% | 41% |
| OCTOBER 4 - 8 | 94% | 64% | 100% |
| OCTOBER 13 - 16 | 94% | 66% | 100% |
| average: | 81% | 72% | 51% |
| 2003 average: | 73% | 84% | 39% |
| | | | Aug-Sep: 262.5 - 264 ft |
| 1.5 foot range (COE): | 75 - 76.5 ft | 158 -159.5 ft | Oct: 263.5 - 265 ft |
| AUGUST 25 - 27 | 100% | 100% | 100% |
| AUGUST 31 - SEPT 3 | 100% | 69% | 100% |
| SEPTEMBER 7 - 10 | 41% | 100% | 100% |
| SEPTEMBER 13 - 17 | 100% | 100% | 100% |
| SEPTEMBER 20 - 24 | 100% | 100% | 100% |
| SEPTEMBER 27 - 30 | 100% | 100% | 100% |
| OCTOBER 4 - 8 | 100% | 99% | 100% |
| OCTOBER 13 - 16 | 100% | 100% | 100% |
| average: | 93% | 96% | 100% |
| 2003 average: | 92% | 96% | 100% |

For pool fluctuations (Criterion #2), shown in Figures 1 through 24, Bonneville pool saw 0.3 – 1.3 foot swings (compared to 0.3 - 1.2 foot swings in autumn 2003). The Dalles pool saw 0.3 – 1.7 foot swings (compared to 0.3 – 1.4 foot swings in autumn 2003). John Day pool saw 0.3 – 1.2 foot swings (compared to 0.3 – 1.0 foot swings in autumn 2003).

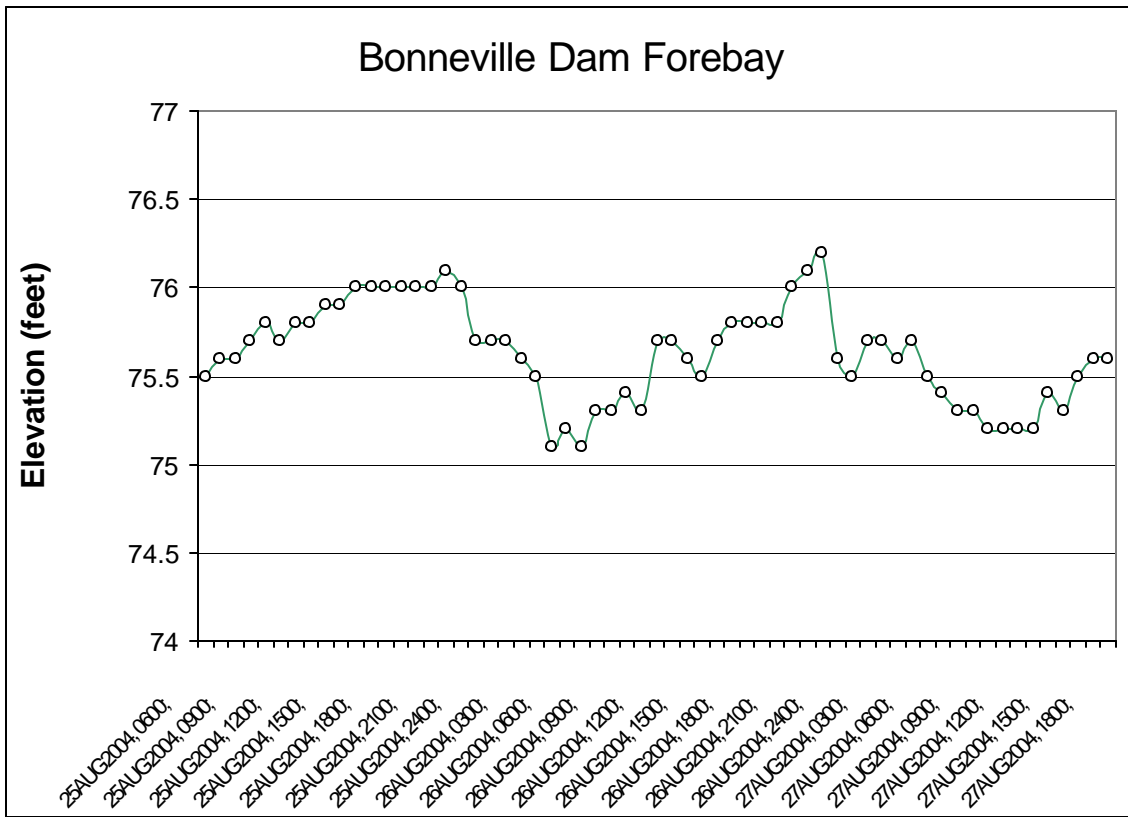


Figure 1. Observed BON pool elevations during August 25-27, 2004 autumn treaty fishing.

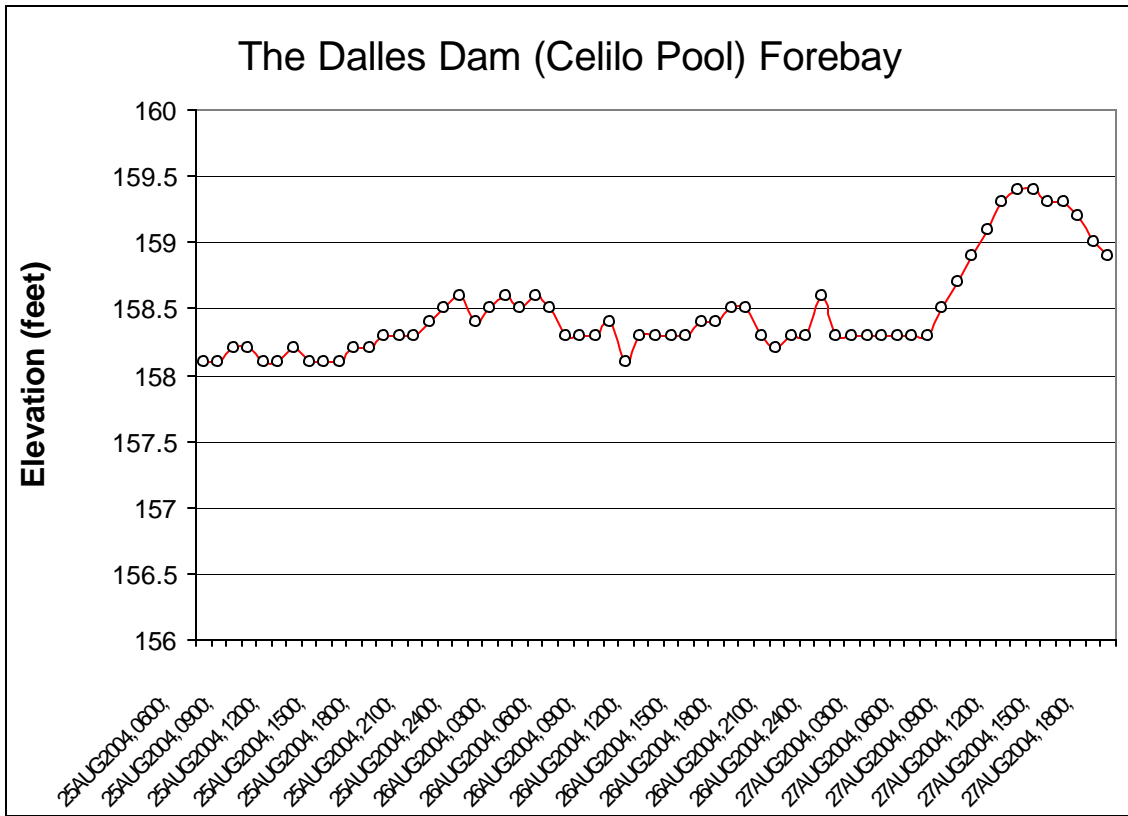


Figure 2. Observed TDA pool elevations during August 25-27, 2004 autumn treaty fishing.

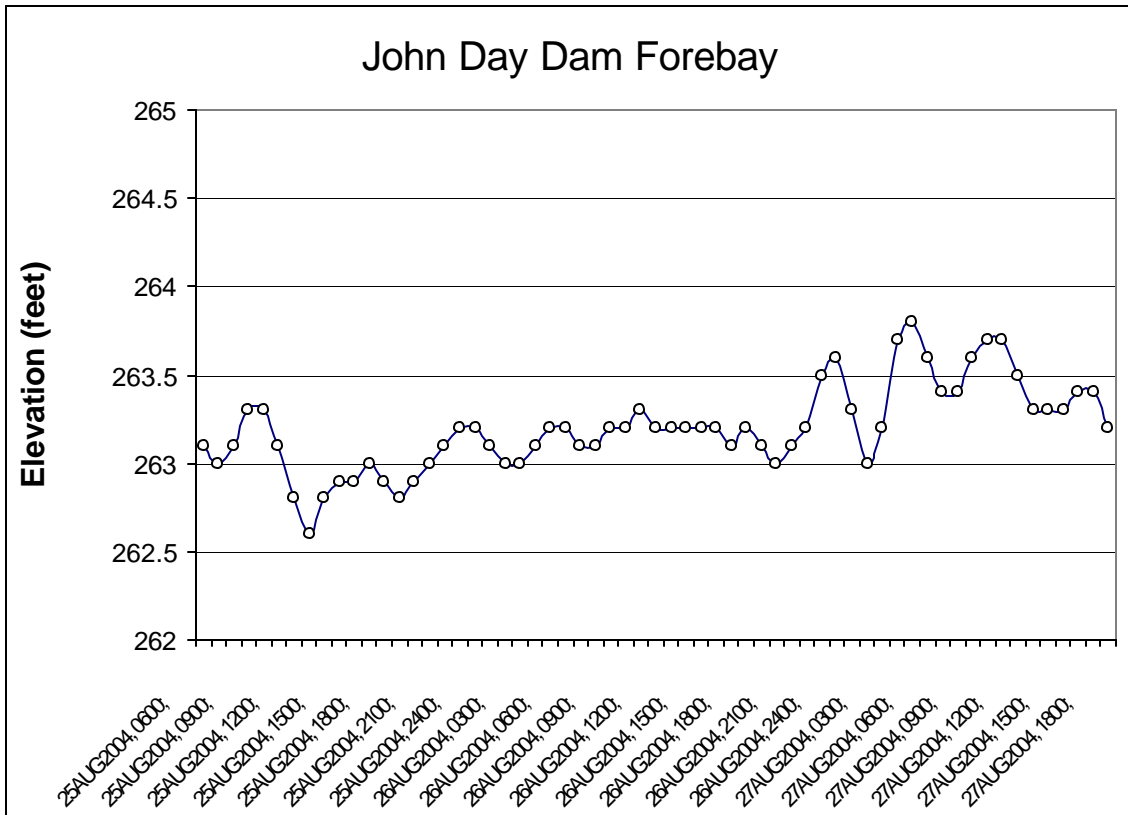


Figure 3. Observed JDA pool elevations during August 25-27, 2004 autumn treaty fishing.

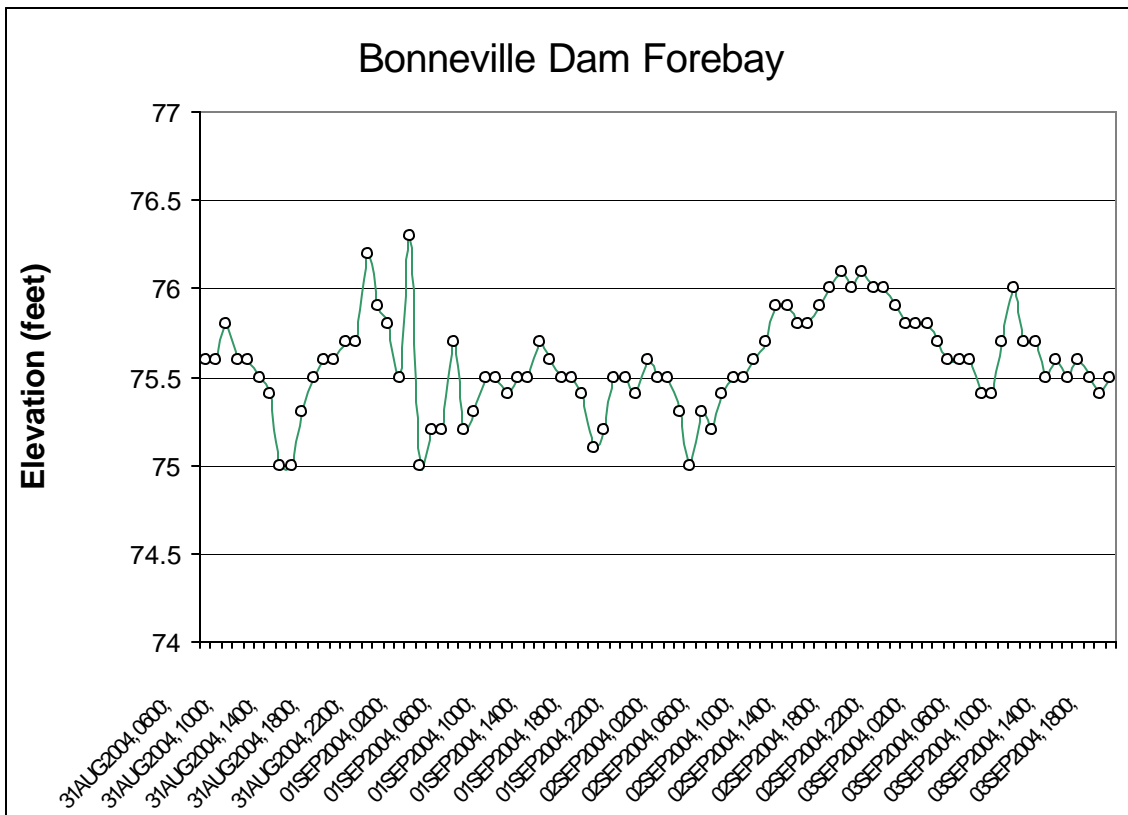


Figure 4. Observed BON pool elevations during August 31-Sept. 3, 2004 autumn treaty fishing.

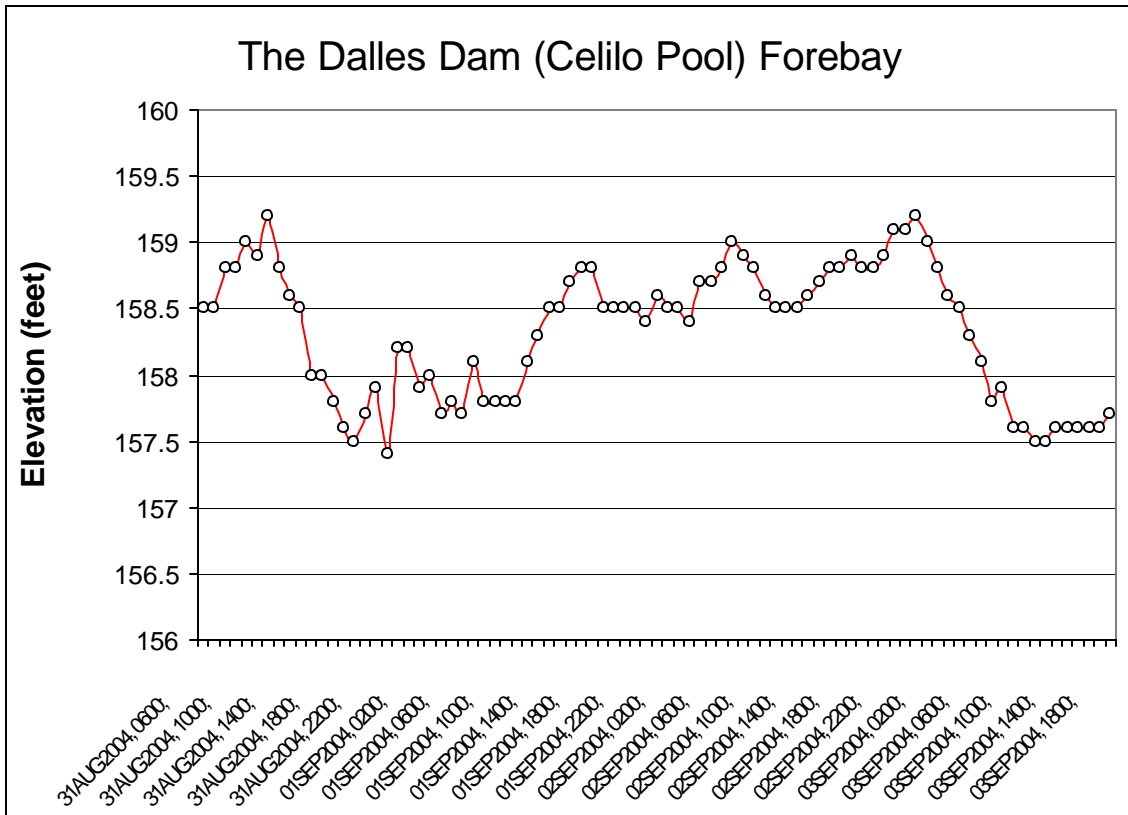


Figure 5. Observed TDA pool elevations during August 31-Sept. 3, 2004 autumn treaty fishing.

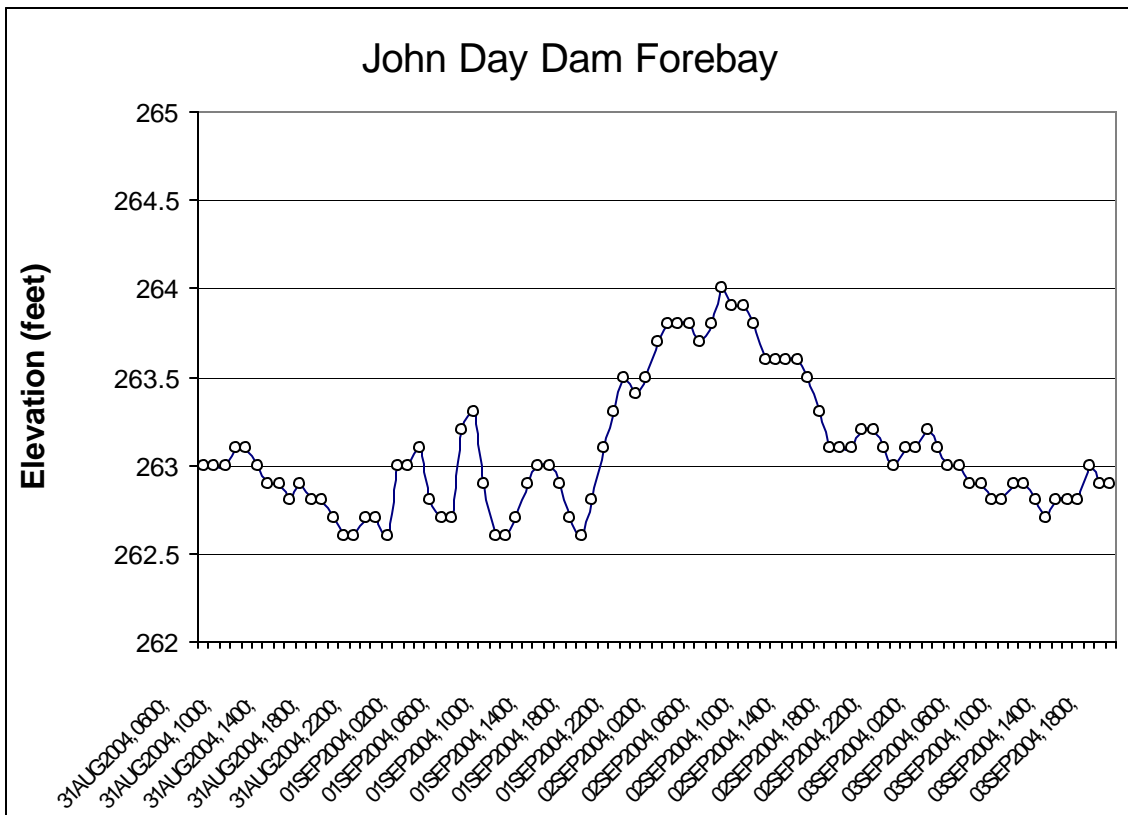


Figure 6. Observed JDA pool elevations during August 31-Sept. 3, 2004 autumn treaty fishing.

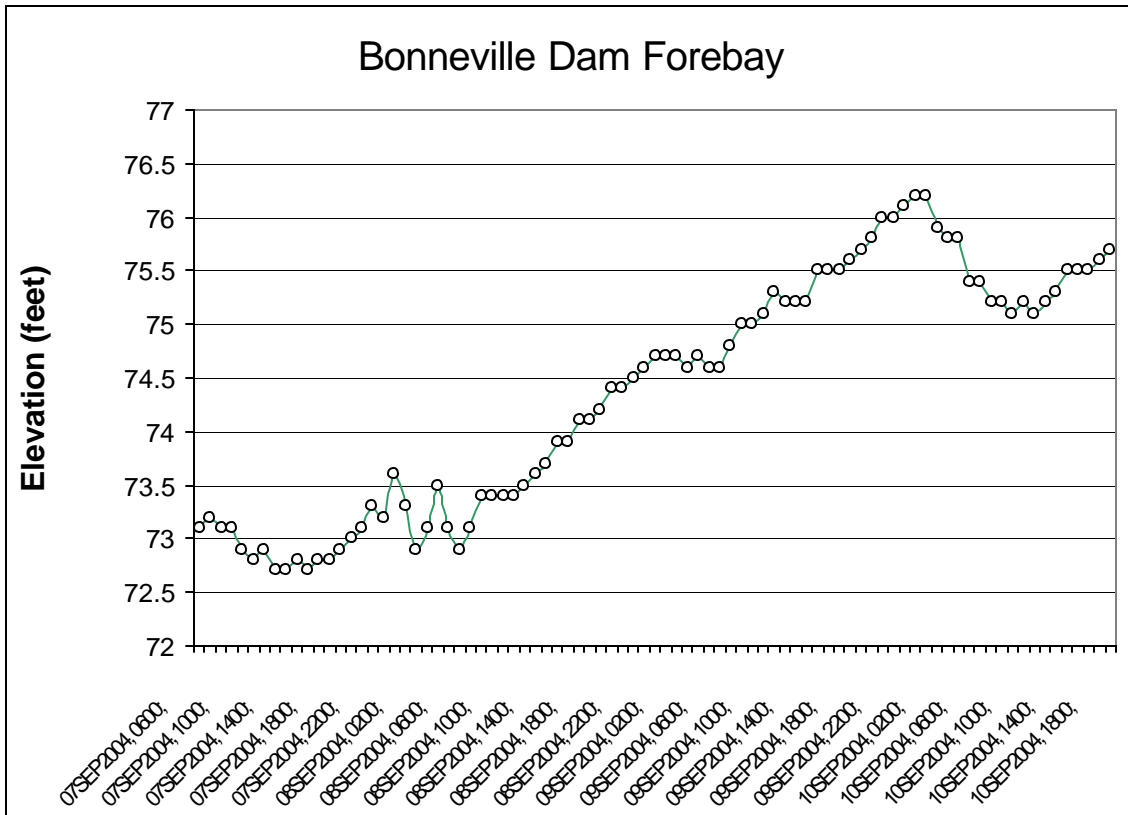


Figure 7. Observed BON pool elevations during September 7-10, 2004 autumn treaty fishing.

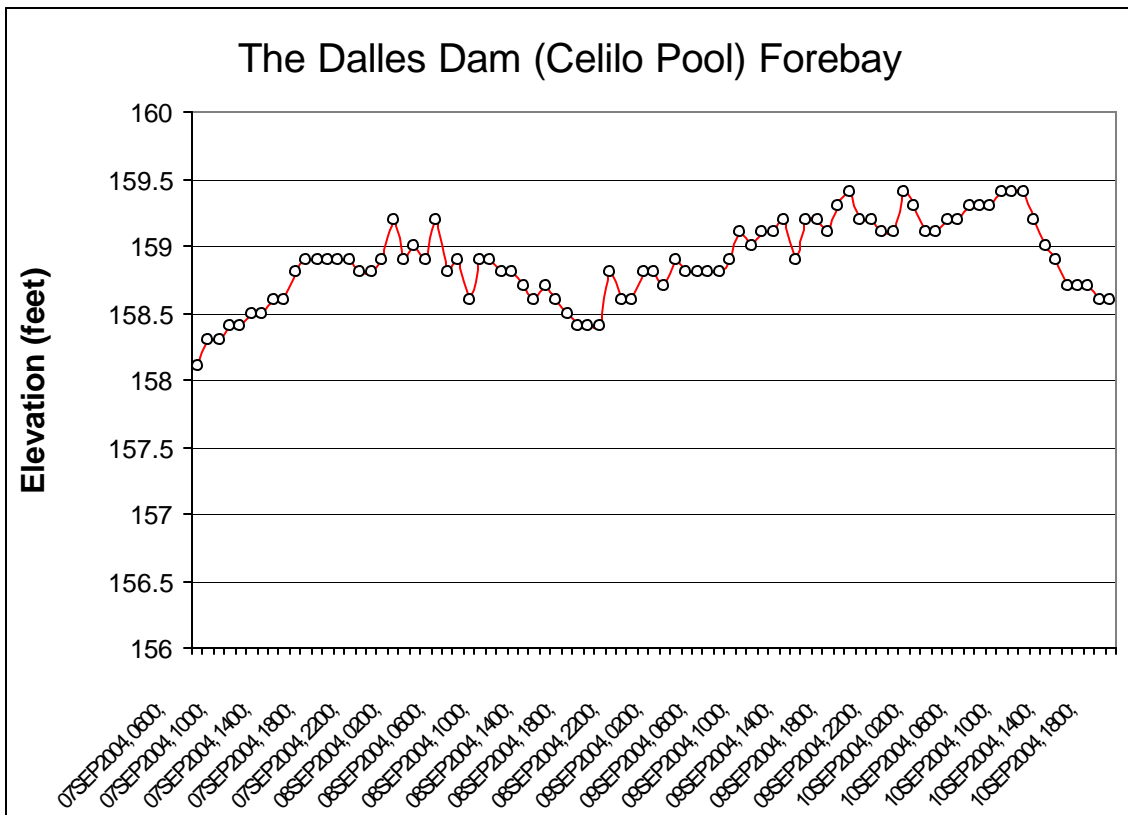


Figure 8. Observed TDA pool elevations during September 7-10, 2004 autumn treaty fishing.

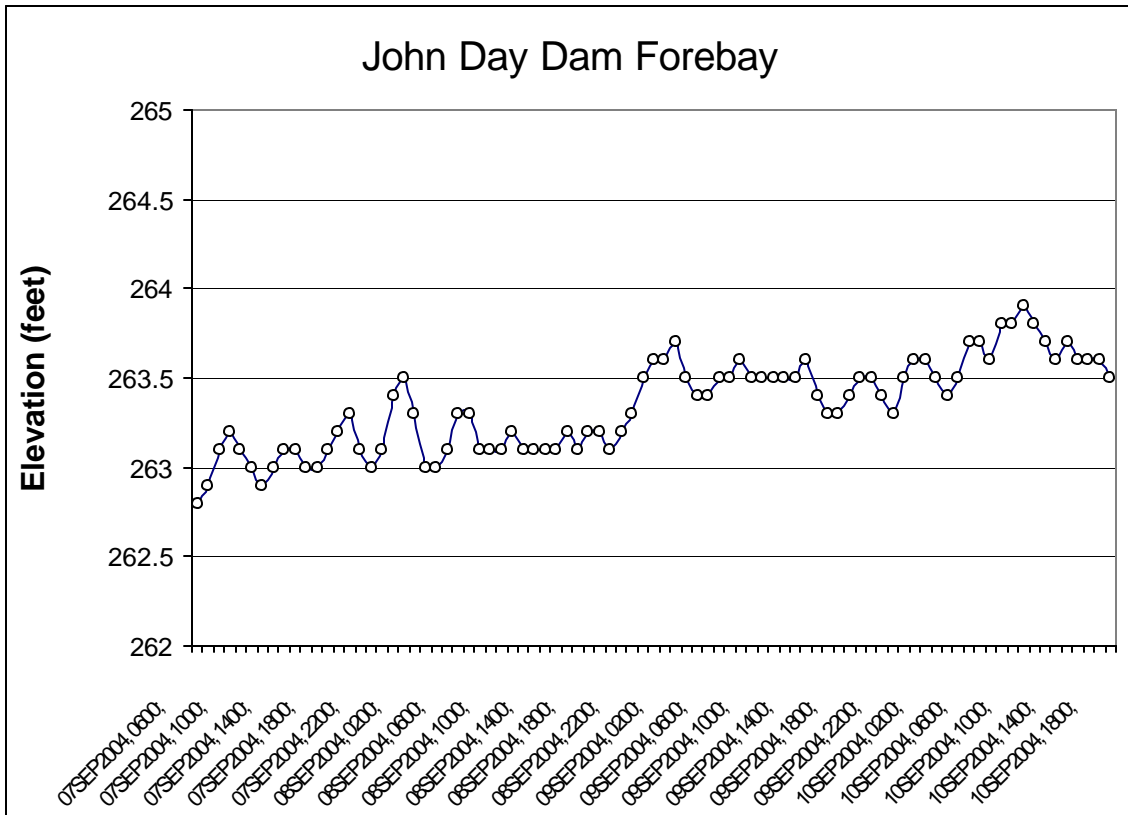


Figure 9. Observed JDA pool elevations during September 7-10, 2004 autumn treaty fishing.

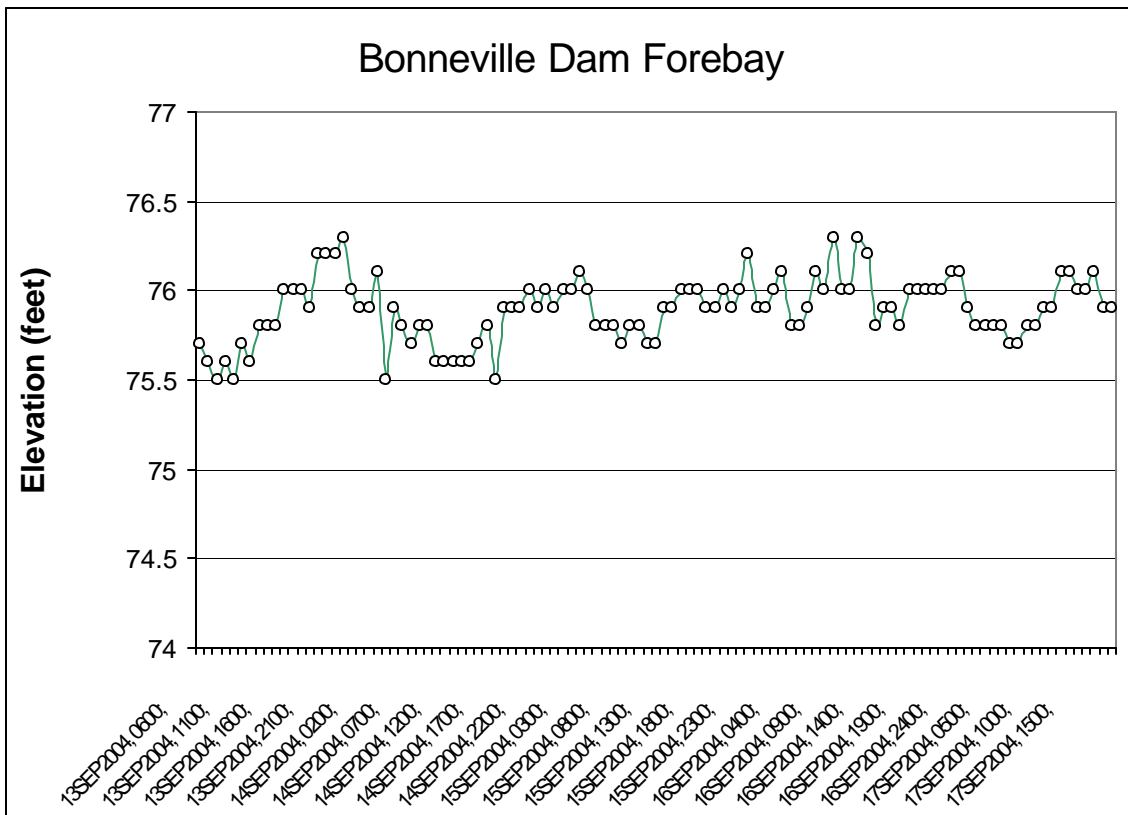


Figure 10. Observed BON pool elevations during September 13-17, 2004 autumn treaty fishing.

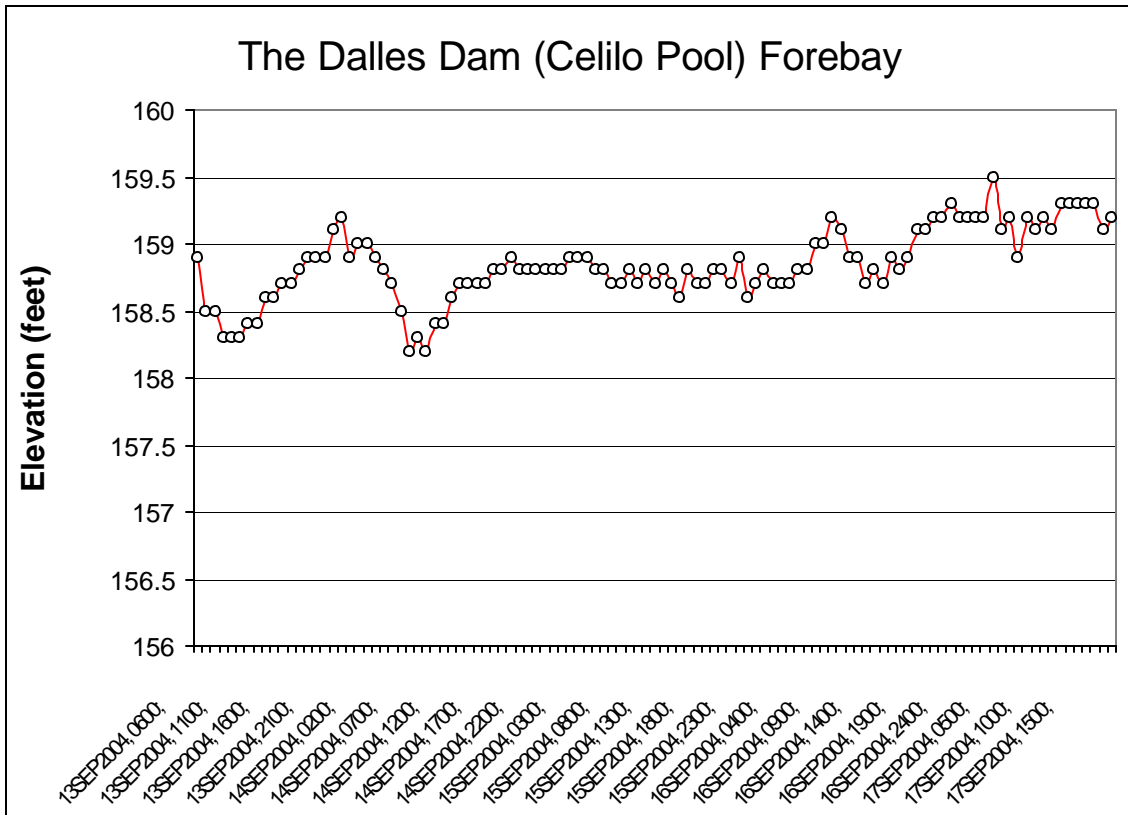


Figure 11. Observed TDA pool elevations during September 13-17, 2004 autumn treaty fishing.

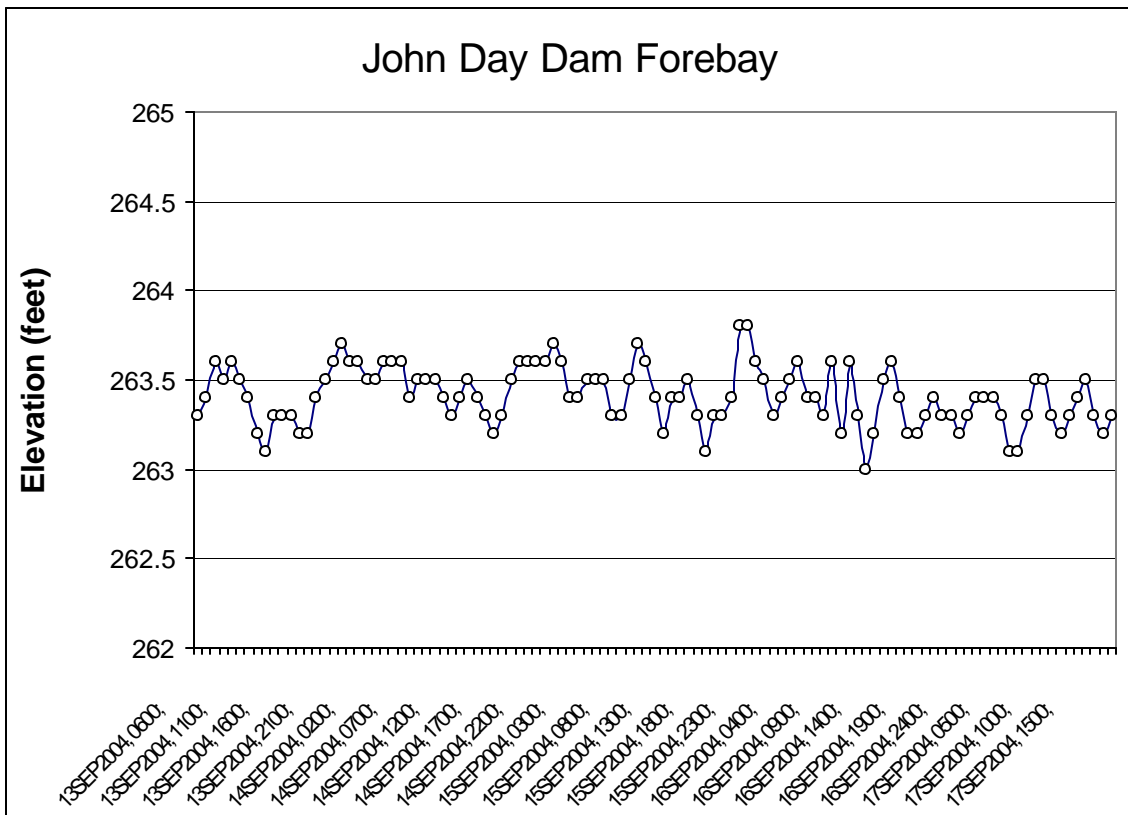


Figure 12. Observed JDA pool elevations during September 13-17, 2004 autumn treaty fishing.

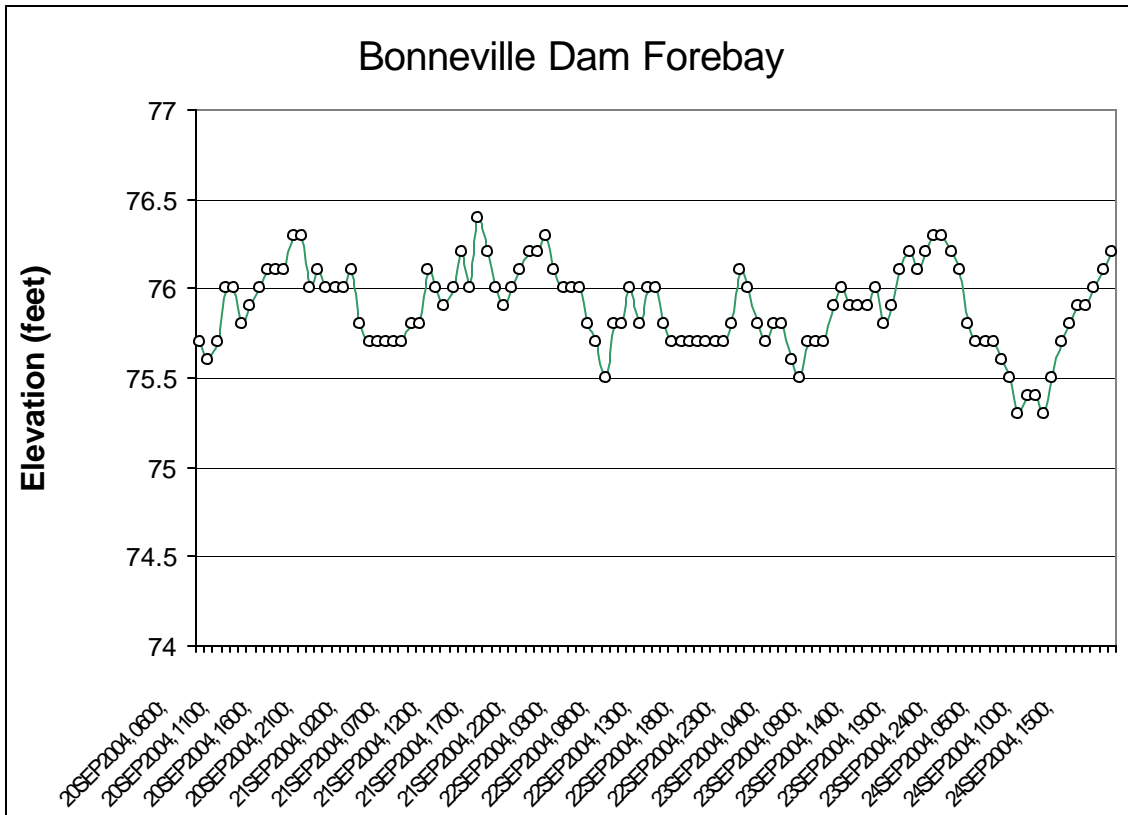


Figure 13. Observed BON pool elevations during September 20-24, 2004 autumn treaty fishing.

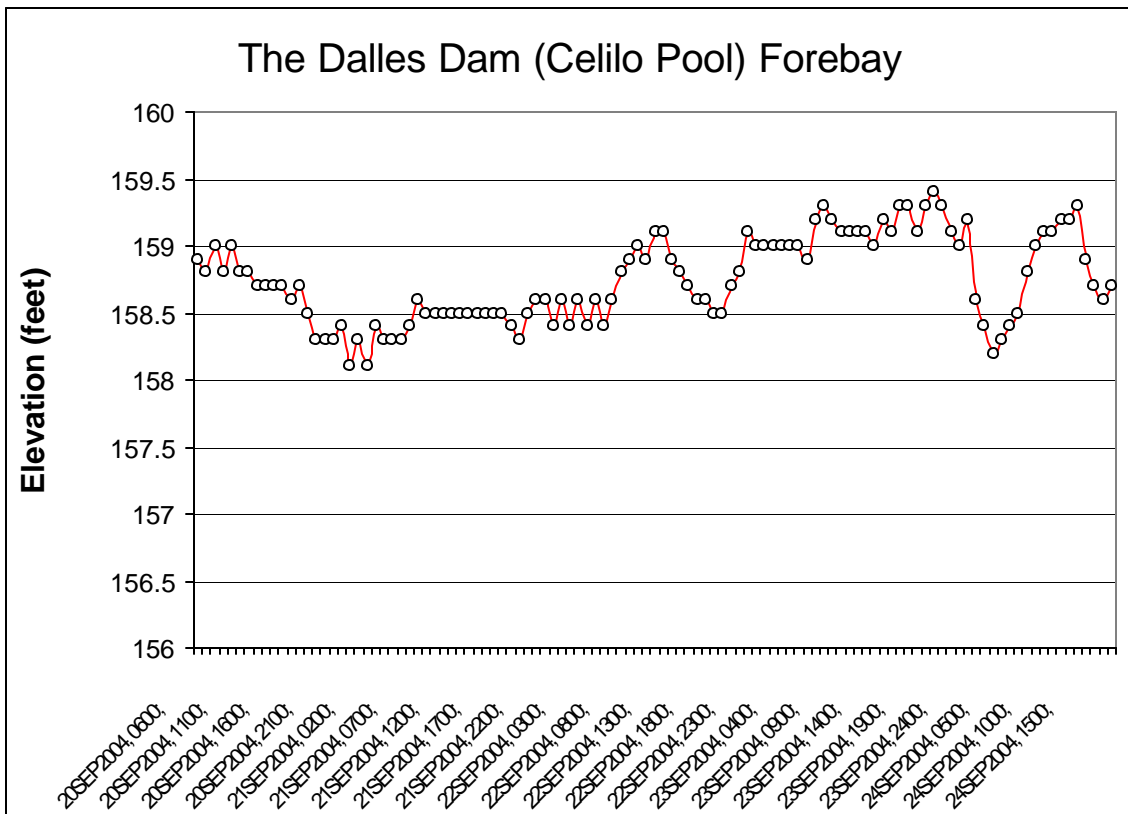


Figure 14. Observed TDA pool elevations during September 20-24, 2004 autumn treaty fishing.

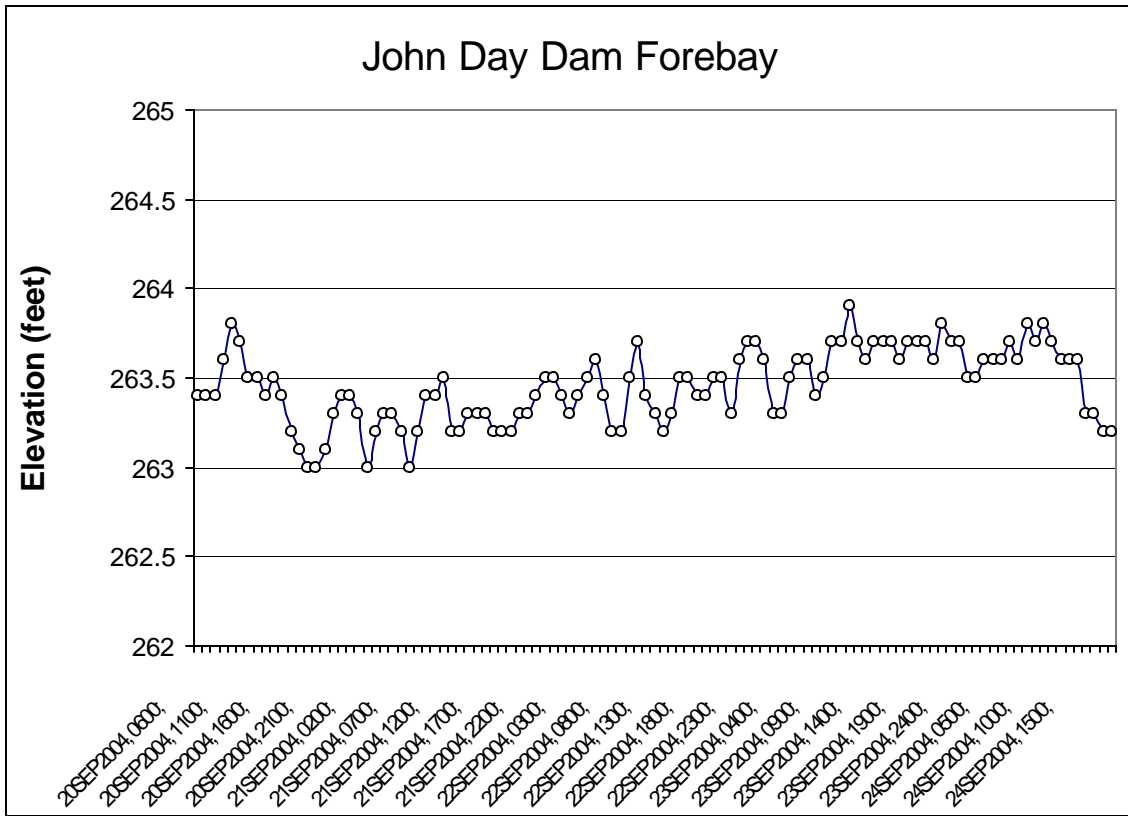


Figure 15. Observed JDA pool elevations during September 20-24, 2004 treaty fishing.

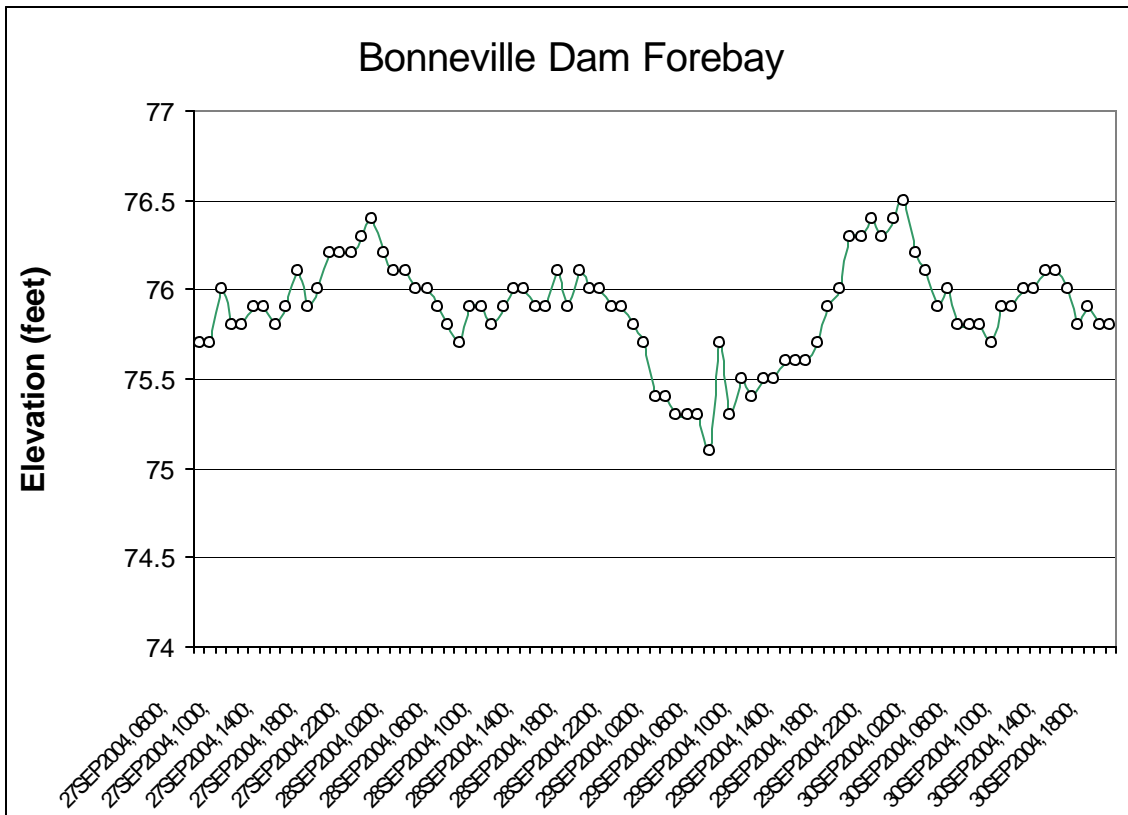


Figure 16. Observed BON pool elevations during September 27-30, 2004 treaty fishing.

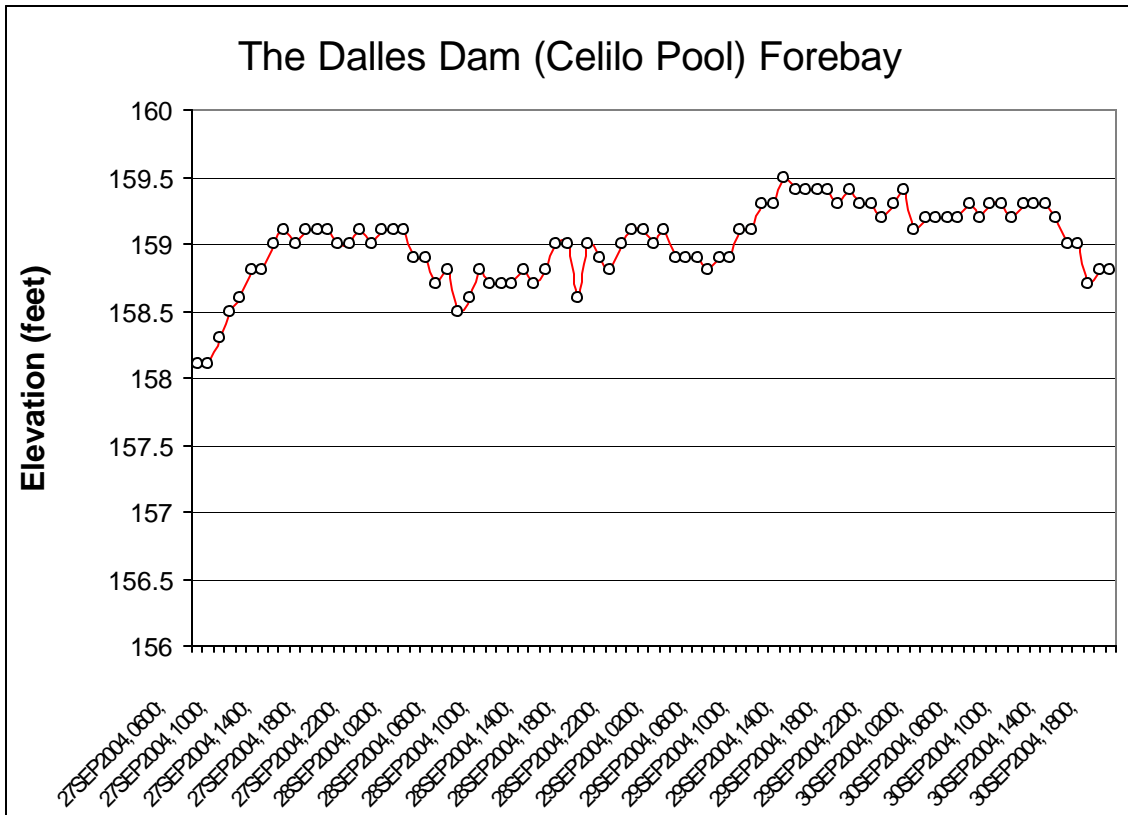


Figure 17. Observed TDA pool elevations during September 27-30, 2004 treaty fishing.

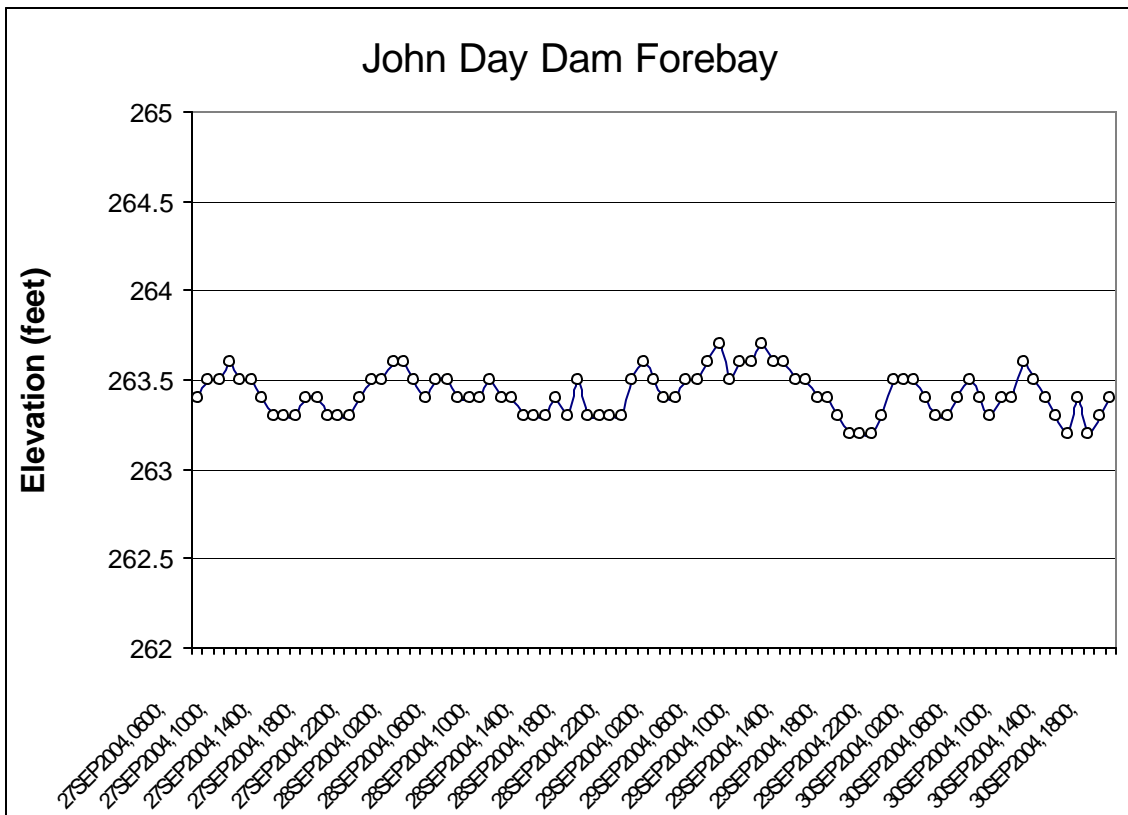


Figure 18. Observed JDA pool elevations during September 27-30, 2004 treaty fishing.

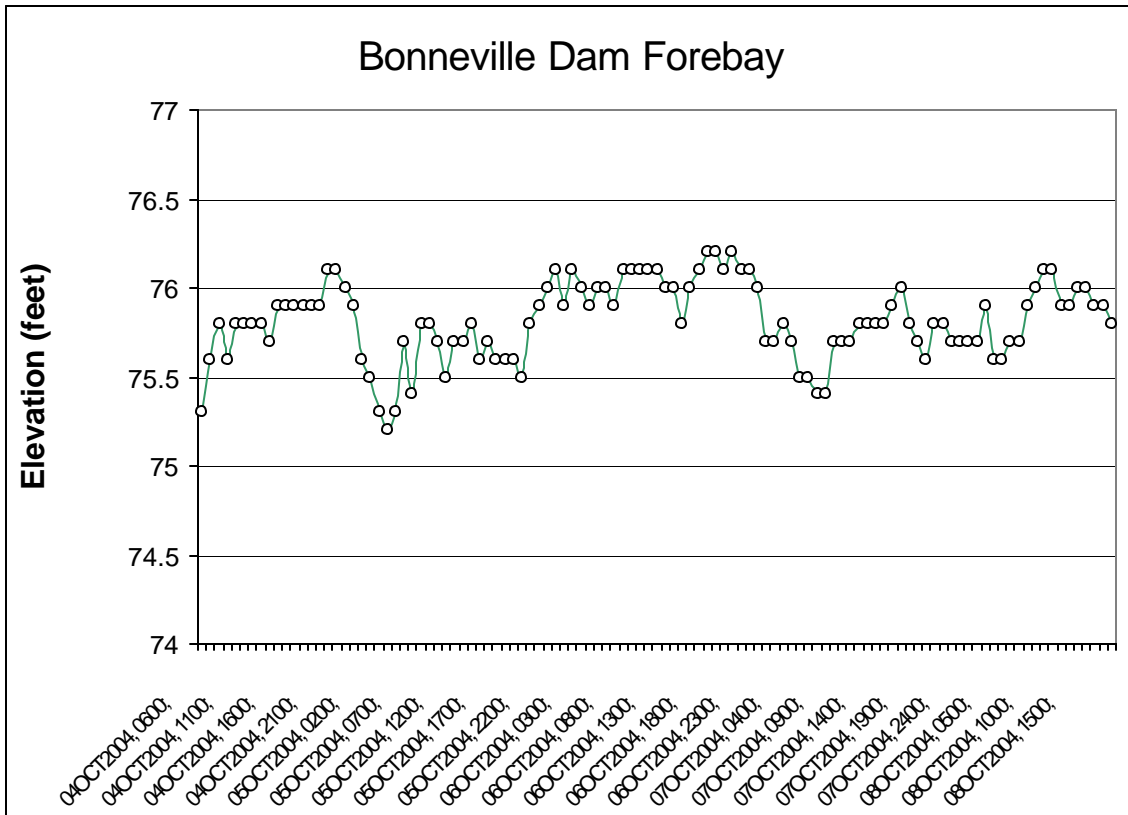


Figure 19. Observed BON pool elevations during October 4-8, 2004 autumn treaty fishing.

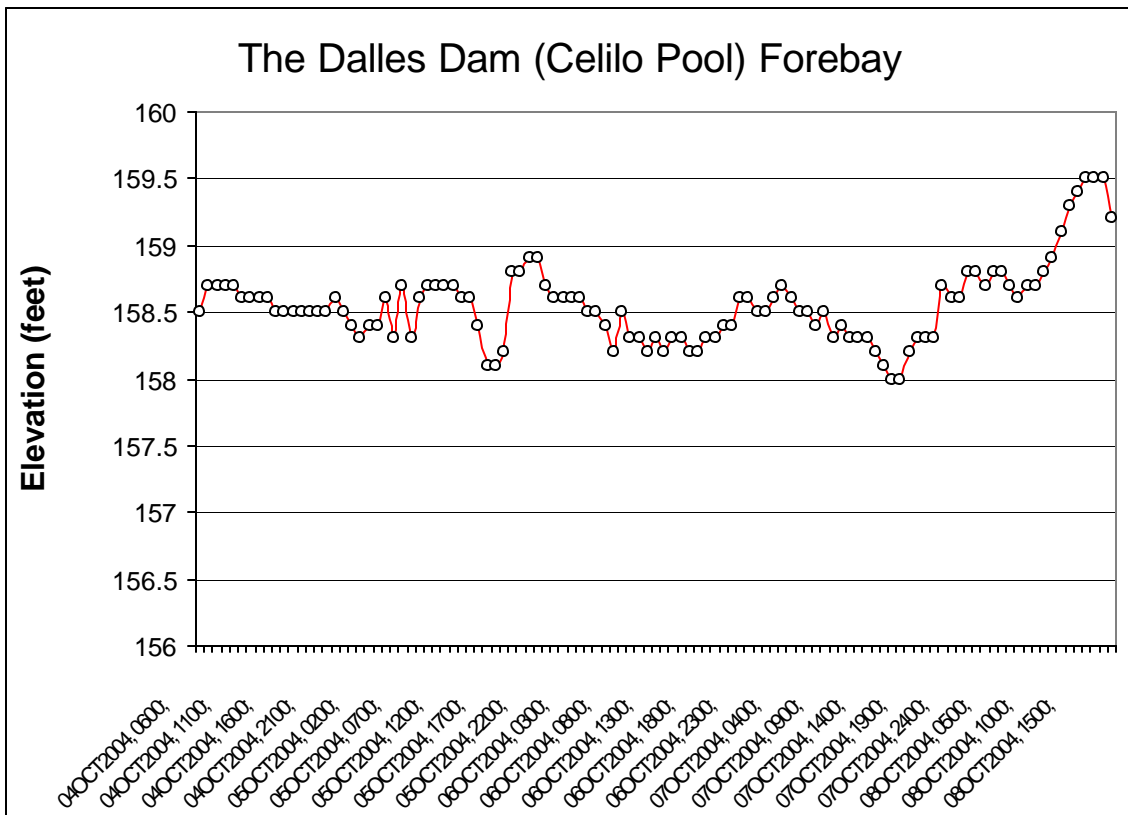


Figure 20. Observed TDA pool elevations during October 4-8, 2004 autumn treaty fishing.

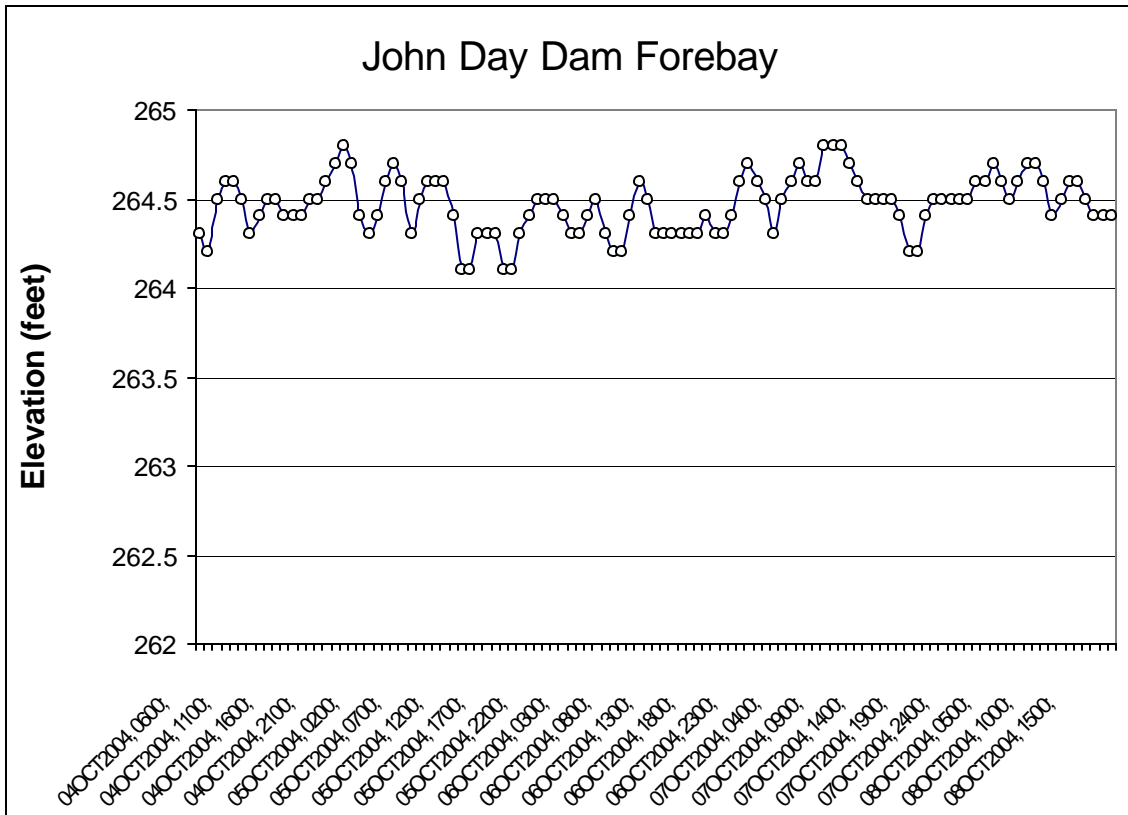


Figure 21. Observed JDA pool elevations during October 4-8, 2004 autumn treaty fishing.

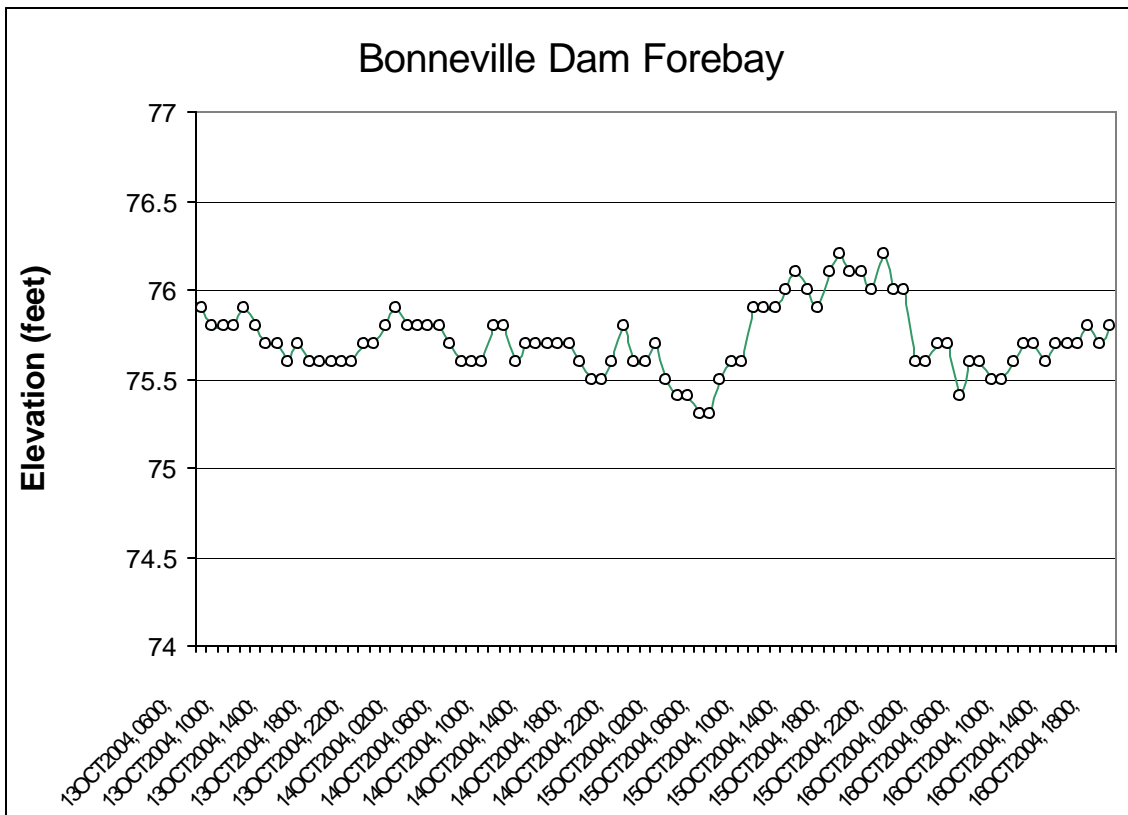


Figure 22. Observed BON pool elevations during October 13-16, 2004 autumn treaty fishing.

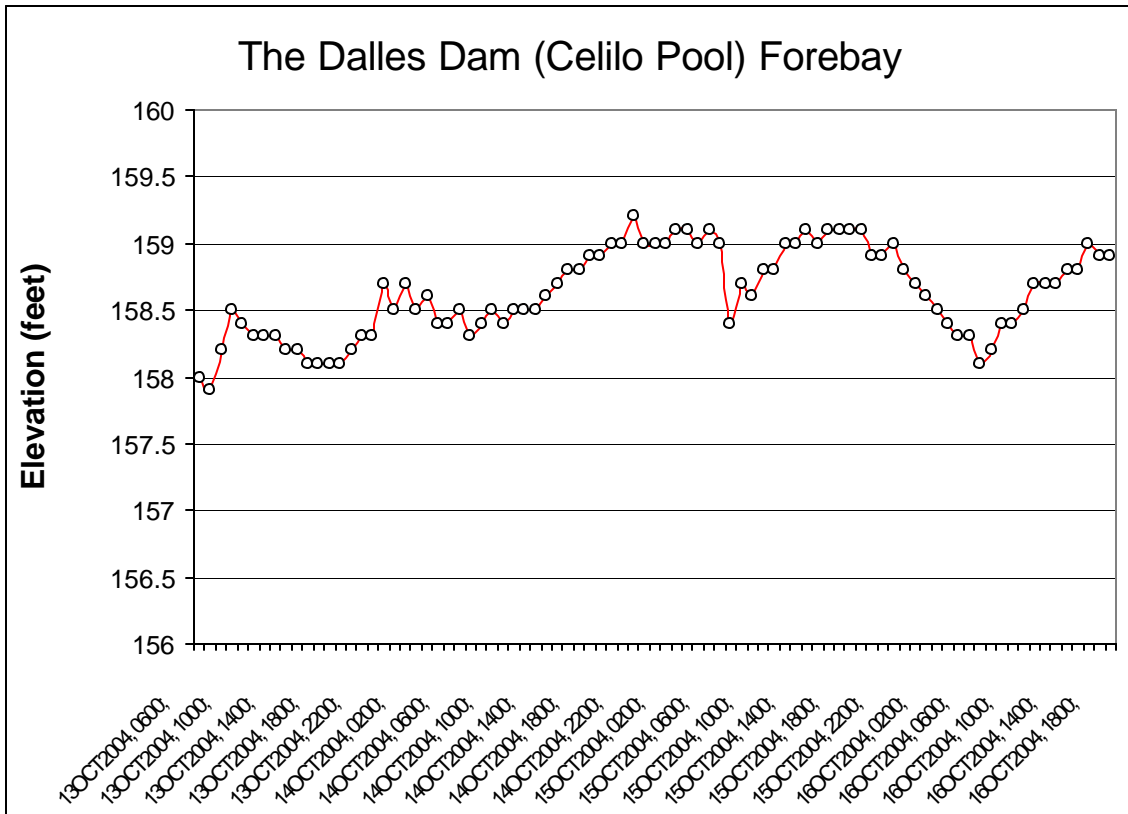


Figure 23. Observed JDA pool elevations during October 13-16, 2004 autumn treaty fishing.

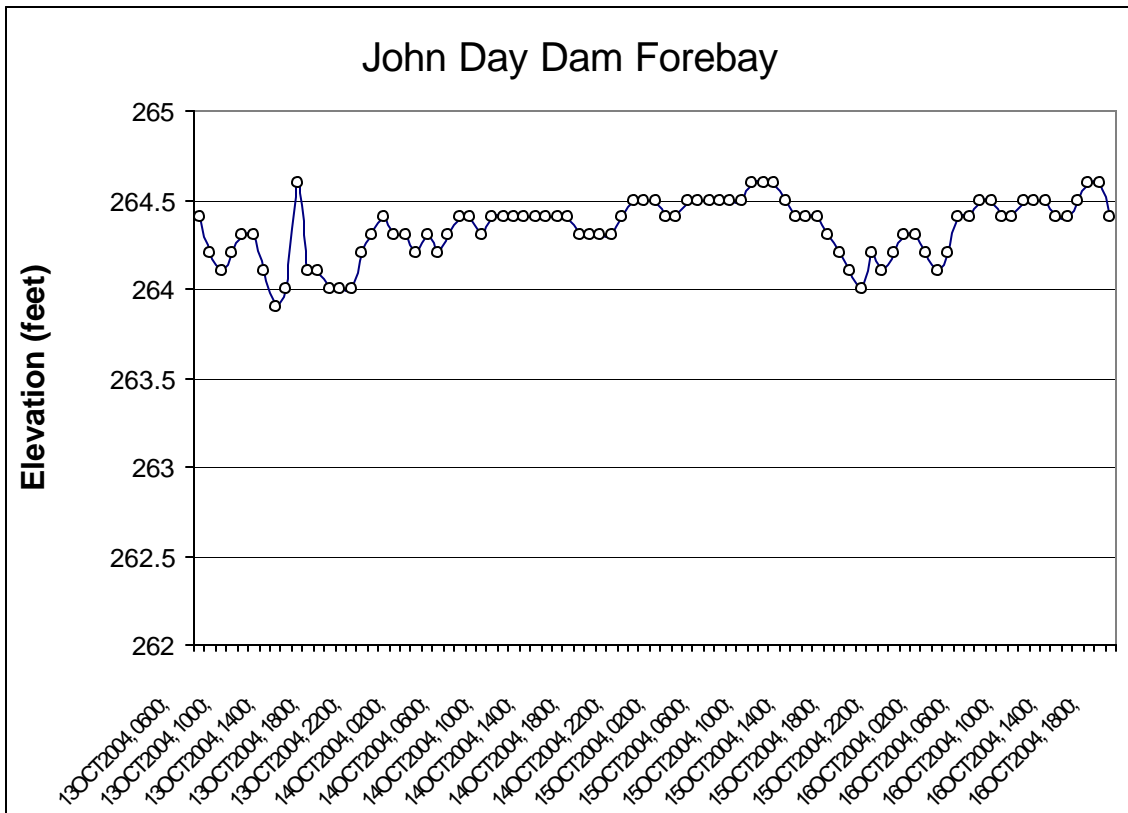


Figure 24. Observed JDA pool elevations during October 13-16, 2004 autumn treaty fishing.