



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

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TO: Technical Management Team (TMT)
FROM: Kyle Dittmer, *Hydrologist - Meteorologist*, CRITFC Hydro Program
DATE: October 25, 2006
SUBJECT: Summary of Pool Operations – 2006 Autumn Treaty Fishery

CRITFC submitted four System Operation Requests (2006-C5, C6, C7, and C8) via the NMFS' TMT forum to support 2006 autumn treaty fishing. CRITFC requested two criteria: (1) one-foot elevation bands 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 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 1-foot as a soft constraint, as they have done so since 1996, but only for the Bonneville pool.¹ The table summarizes the hourly compliance of CRITFC's 1-foot elevation band criteria and the Corps' 1.5-foot criteria during the 2006 and 2005 treaty fisheries.

2006	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 21 - AUG 24	84%	72%	93%
AUG 28 - SEP 1	91%	69%	90%
SEP 5 - SEP 9	87%	83%	59%
SEP 11 - SEP 15	96%	79%	16%
SEP 18 - SEP 22	100%	94%	51%
SEP 25 - SEP 29	98%	96%	12%
OCT 3 - OCT 6	100%	93%	100%
average:	94%	84%	60%
2005 average:	100%	82%	70%
1.5 foot range (COE):	76.5 – 75 feet	159.5 – 158 feet	264.5 – 263 feet
AUG 21 - AUG 24	93%	79%	100%
AUG 28 - SEP 1	97%	89%	100%
SEP 5 - SEP 9	100%	97%	100%
SEP 11 - SEP 15	100%	86%	100%
SEP 18 - SEP 22	100%	100%	100%
SEP 25 - SEP 29	100%	100%	79%
OCT 3 - OCT 6	100%	100%	100%
average:	99%	93%	97%
2005 average:	100%	94%	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 0.3 to 1.0 foot swings compared to 0.3 – 0.9 foot swings in autumn 2005). The Dalles pool saw 0.5 – 2.2 foot swings (compared to 1.3 – 2.5 foot swings in autumn 2005). John Day pool saw 0.2 – 0.7 foot swings (compared to 0.3 – 0.8 foot swings in autumn 2005).

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.

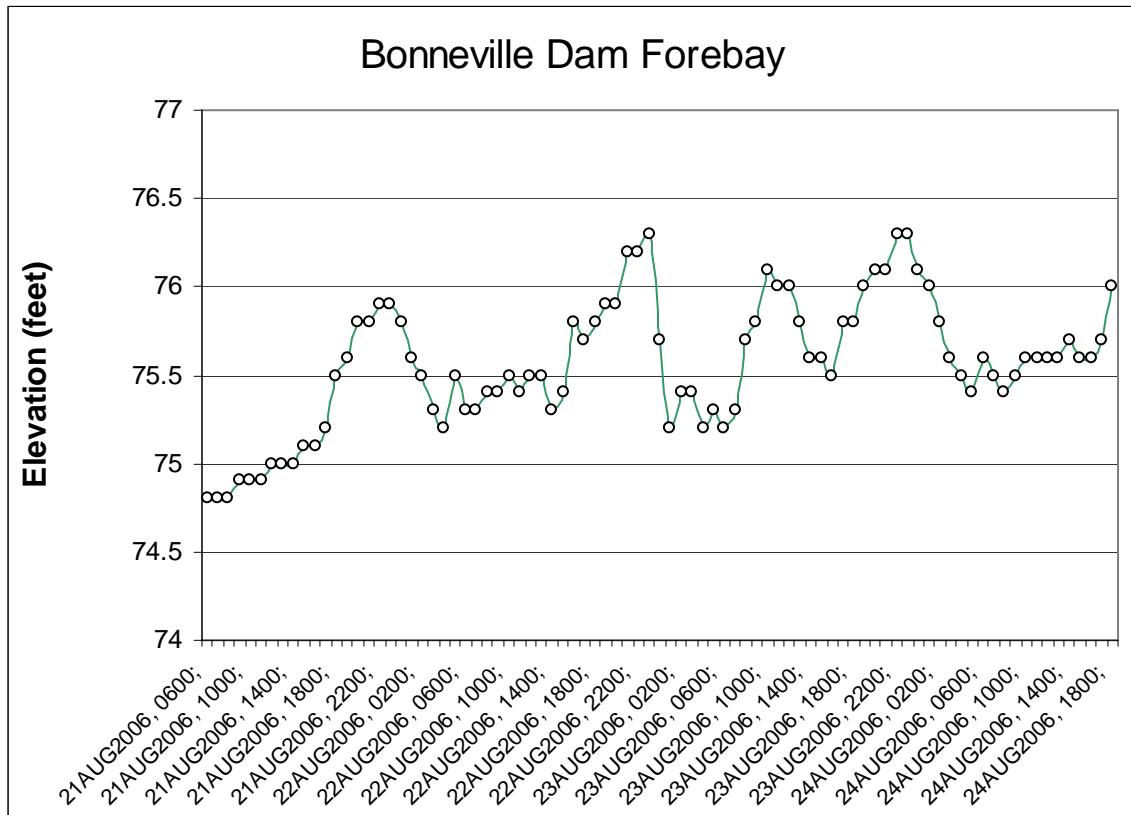


Figure 1. Observed BON pool elevations during August 21-24, 2006 autumn treaty fishing.

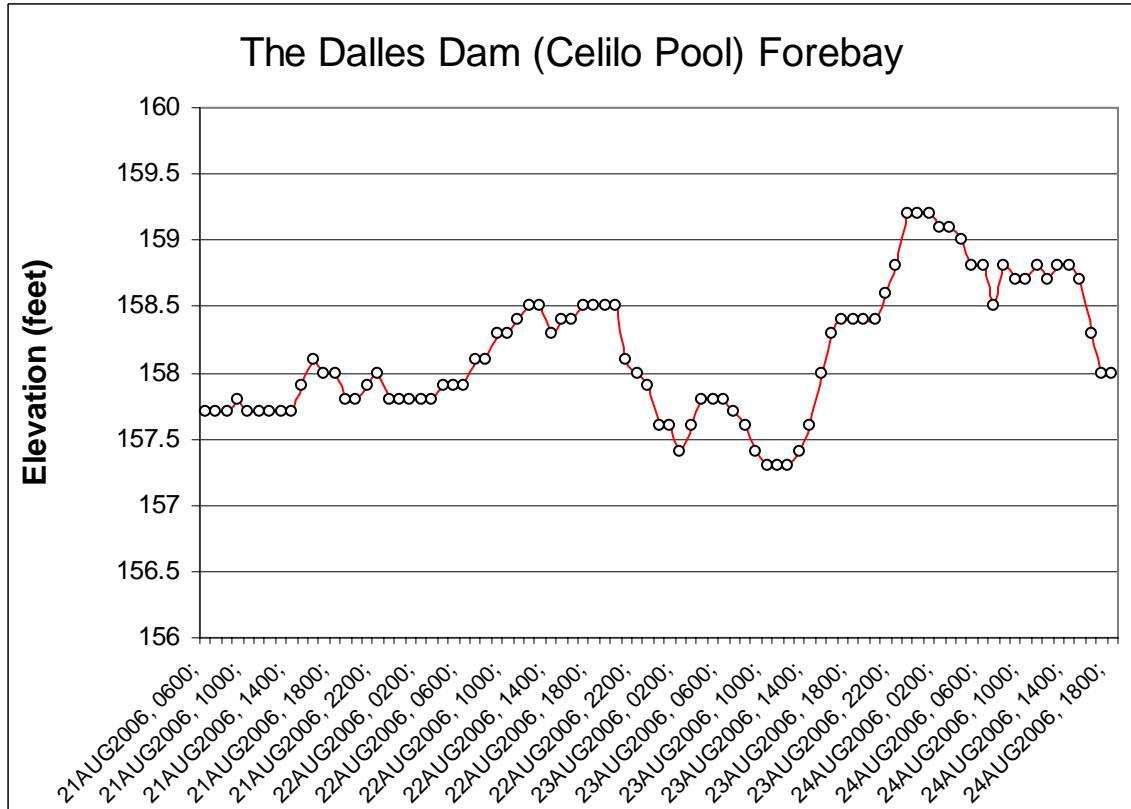


Figure 2. Observed TDA pool elevations during August 21-24, 2006 autumn treaty fishing.

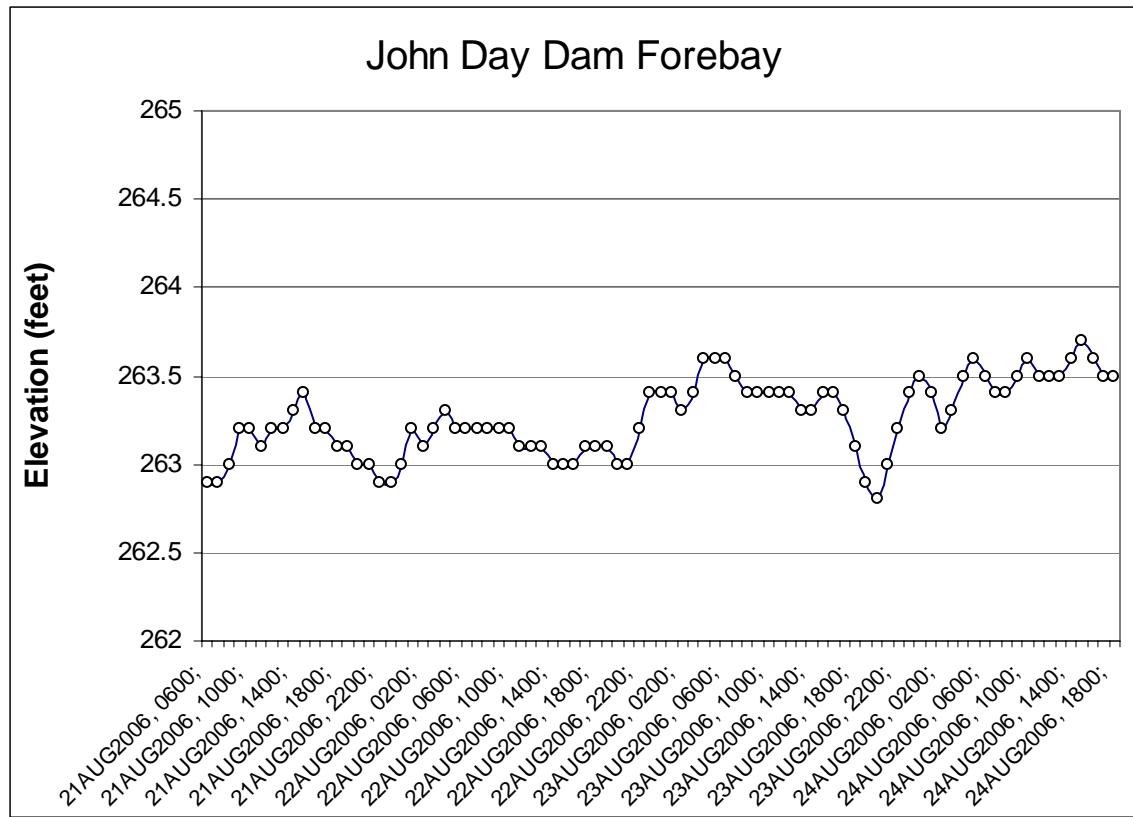


Figure 3. Observed JDA pool elevations during August 21-24, 2006 autumn treaty fishing.

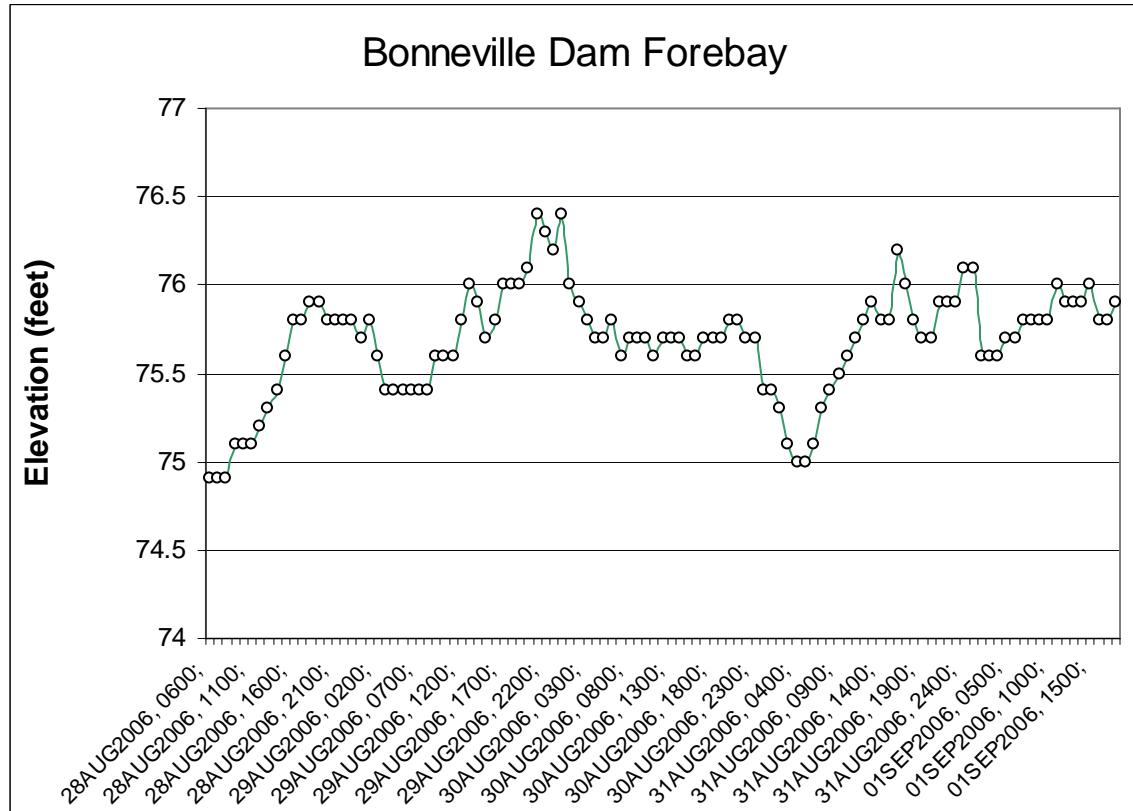


Figure 4. Observed BON pool elevations during August 28-Sept. 1, 2006 autumn treaty fishing.

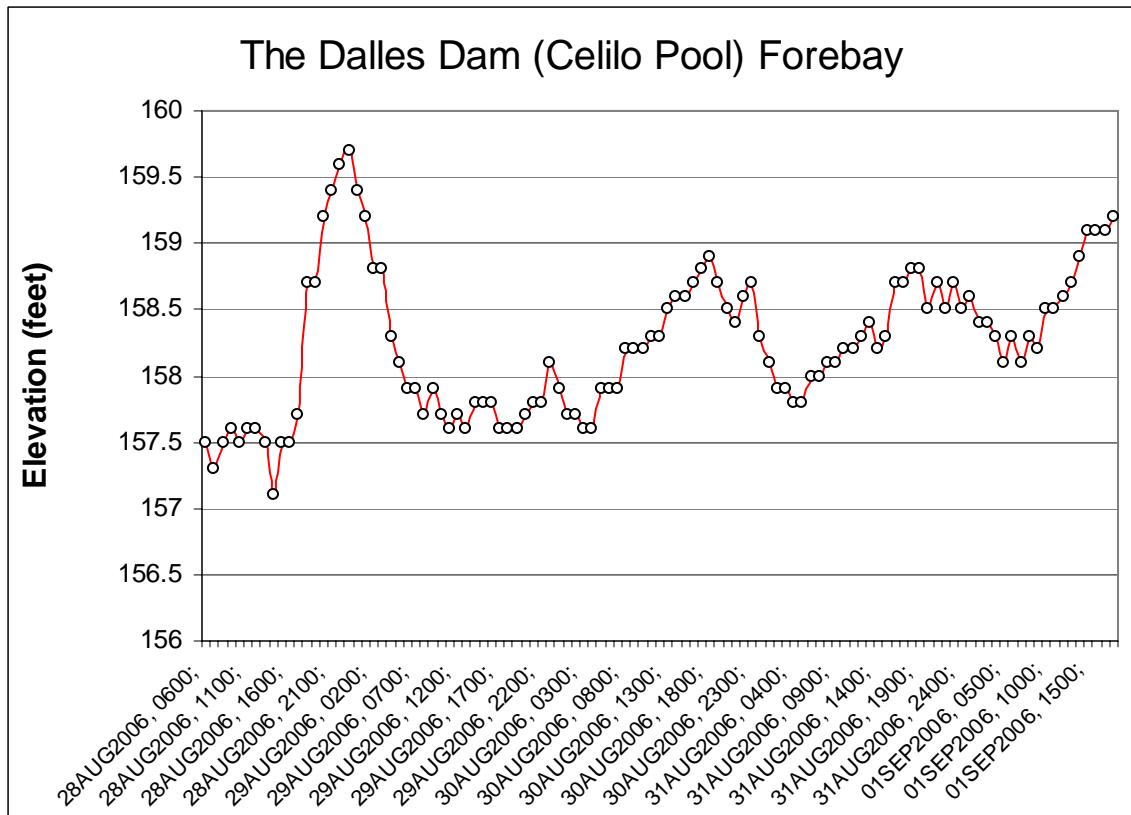


Figure 5. Observed TDA pool elevations during August 28-Sept. 1, 2006 autumn treaty fishing.

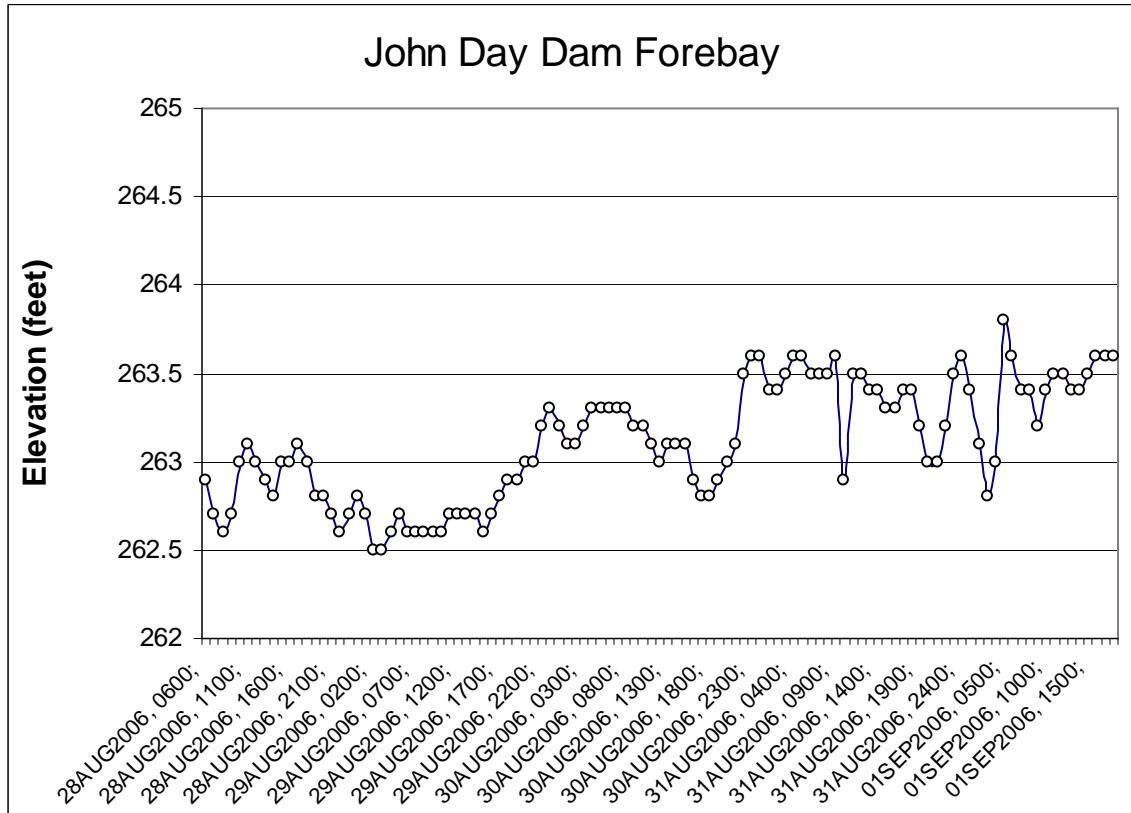


Figure 6. Observed JDA pool elevations during August 28-Sept. 1, 2006 autumn treaty fishing.

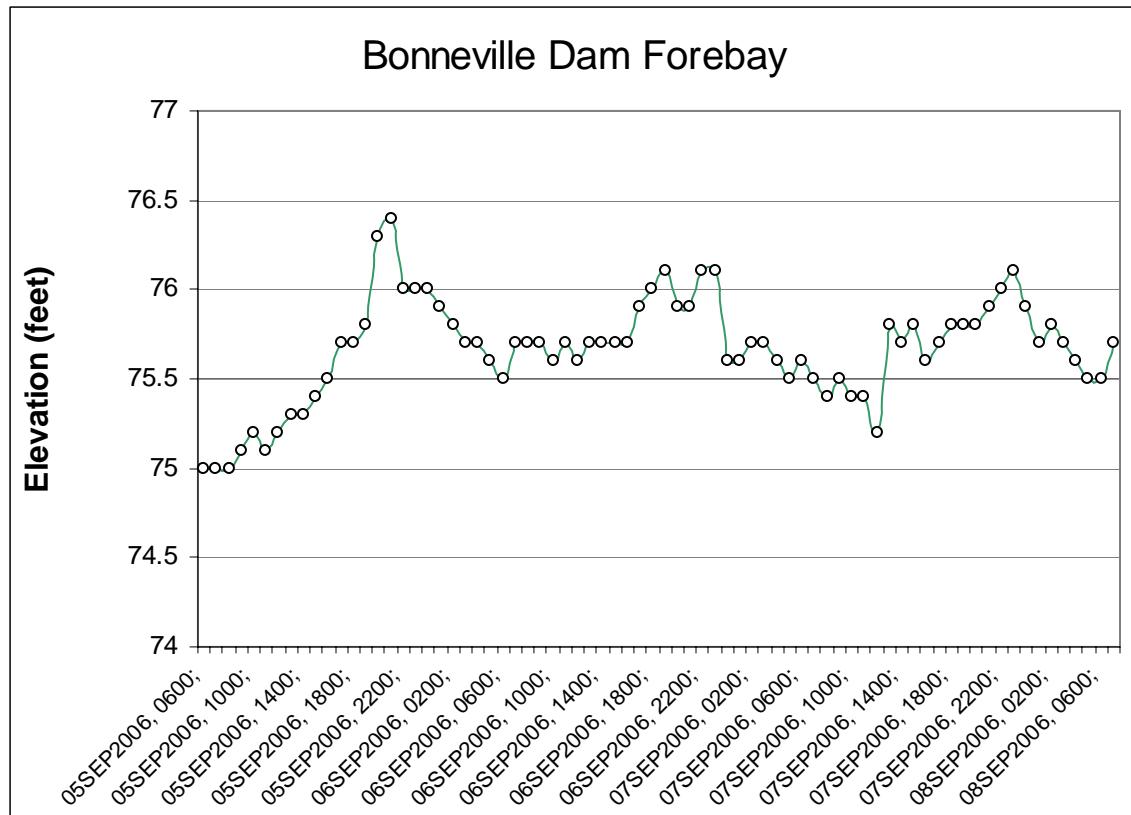


Figure 7. Observed BON pool elevations during September 5-9, 2006 autumn treaty fishing.

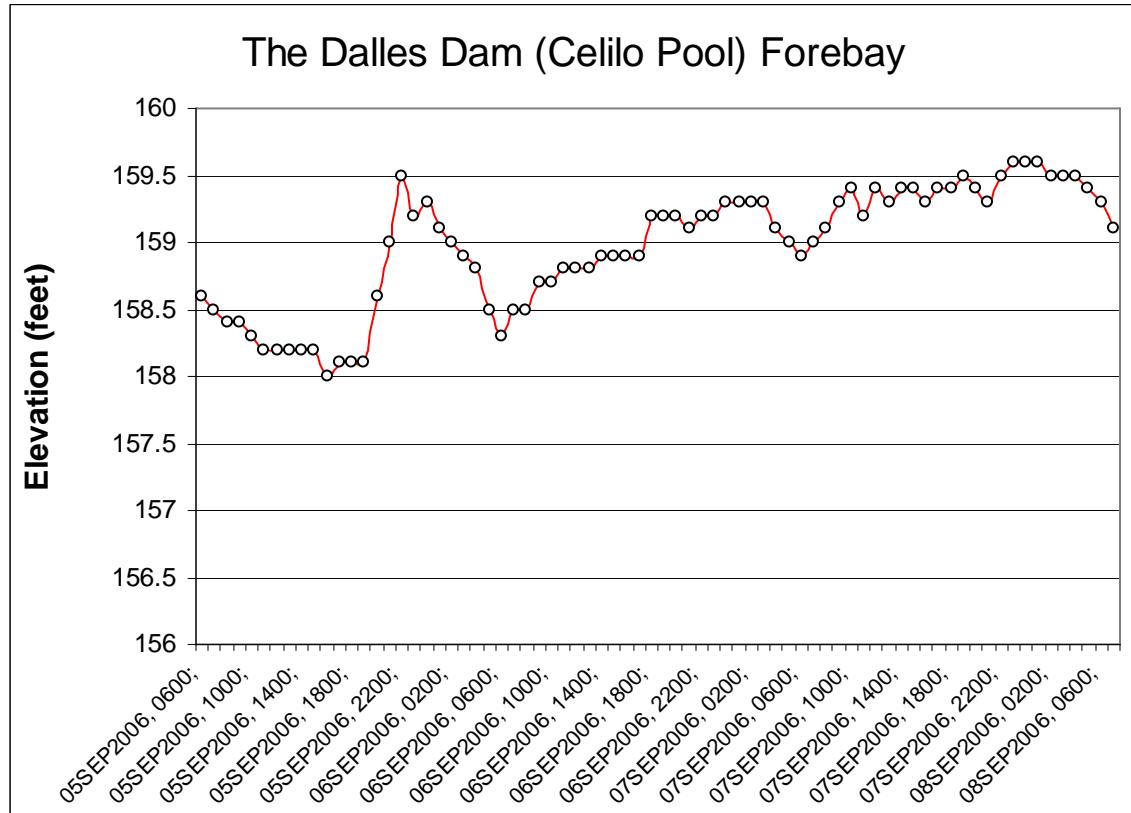


Figure 8. Observed TDA pool elevations during September 5-9, 2006 autumn treaty fishing.

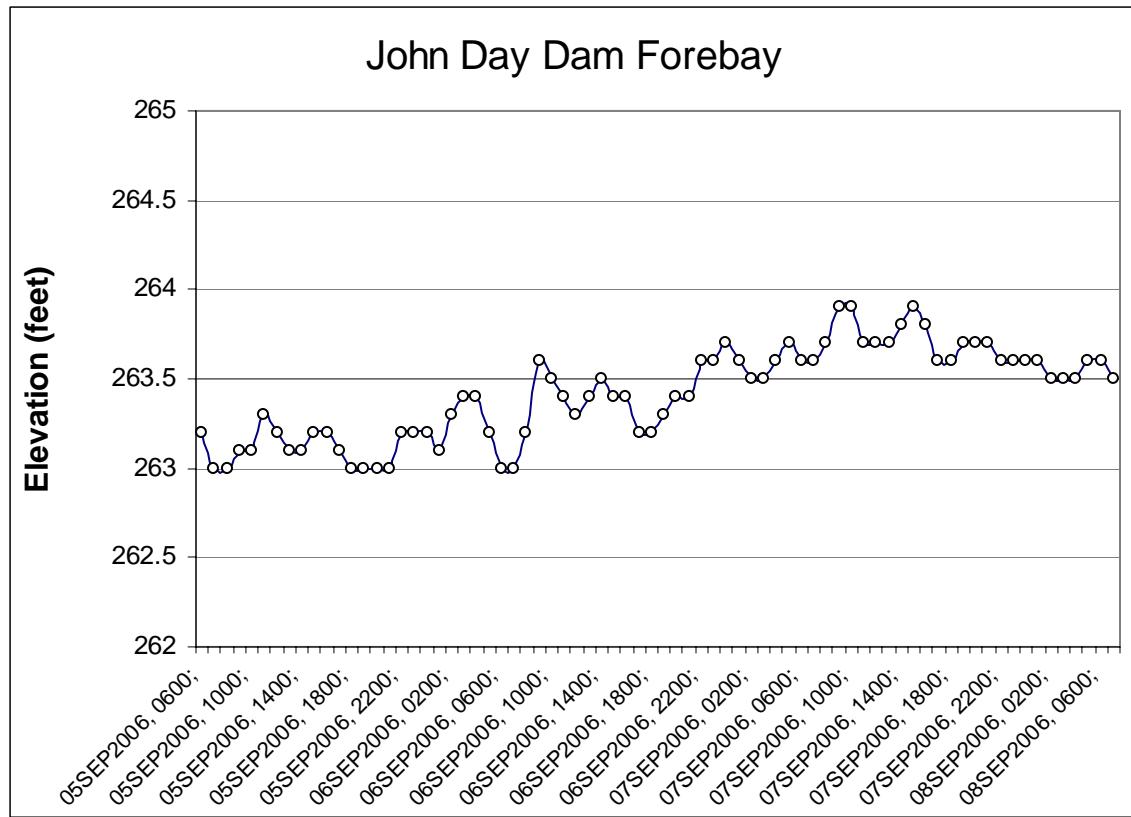


Figure 9. Observed JDA pool elevations during September 5-9, 2006 autumn treaty fishing.

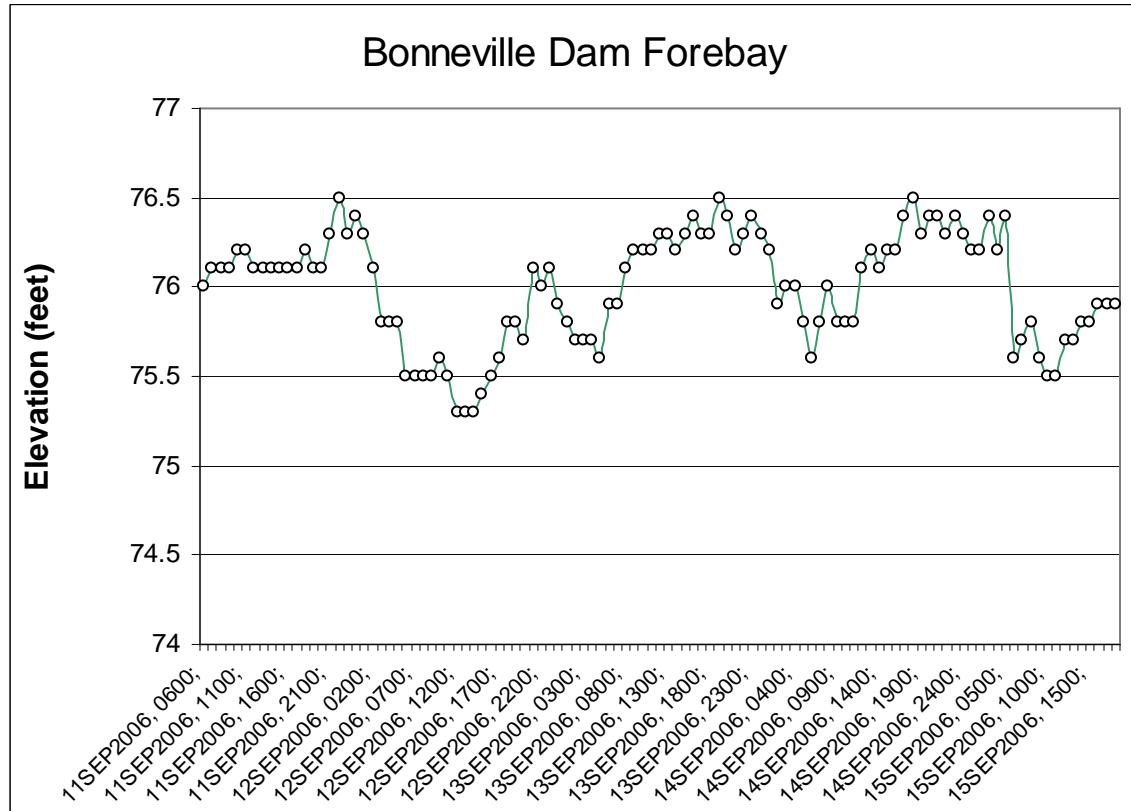


Figure 10. Observed BON pool elevations during September 11-15, 2006 autumn treaty fishing.

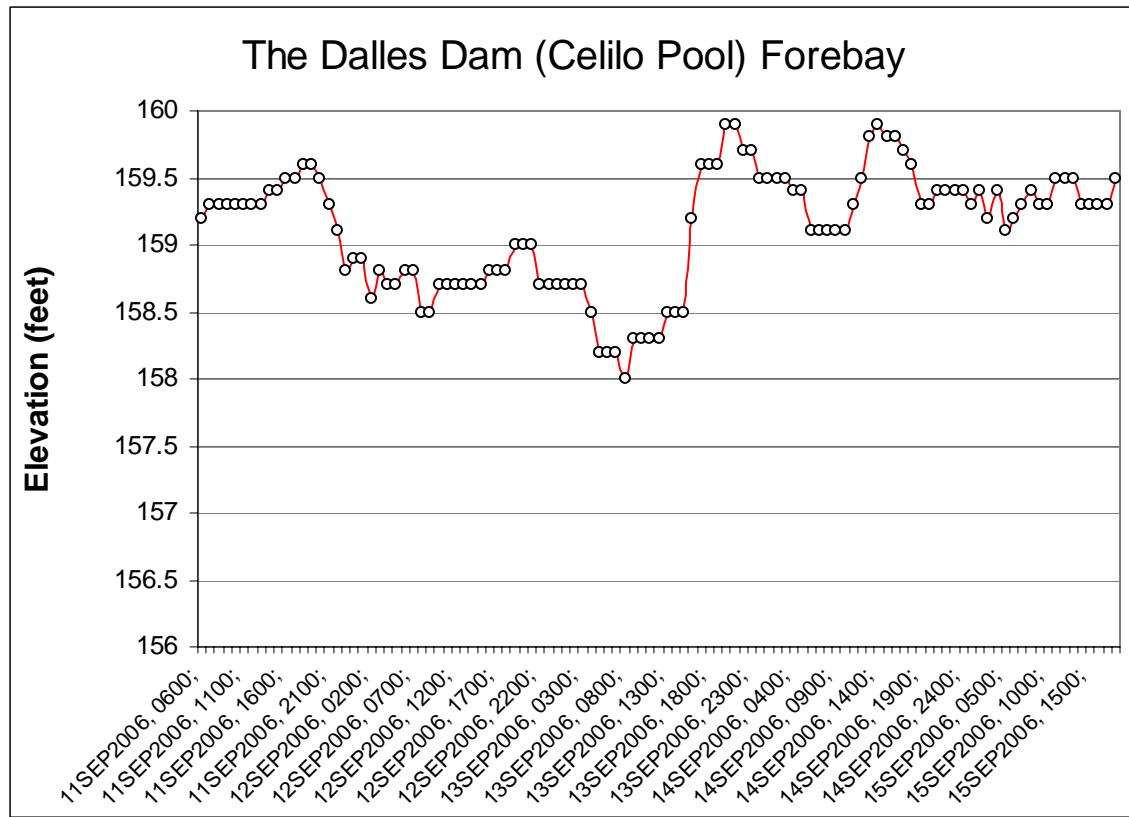


Figure 11. Observed TDA pool elevations during September 11-15, 2006 autumn treaty fishing.

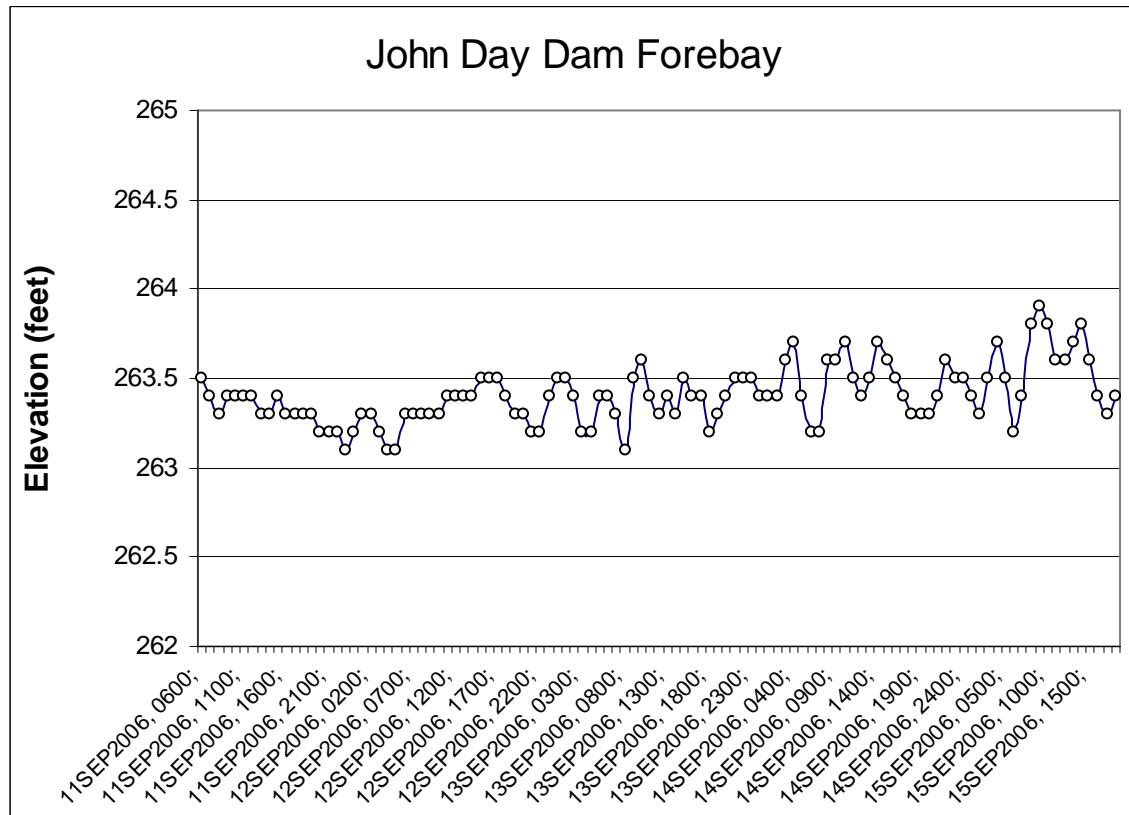


Figure 12. Observed JDA pool elevations during September 11-15, 2006 autumn treaty fishing.

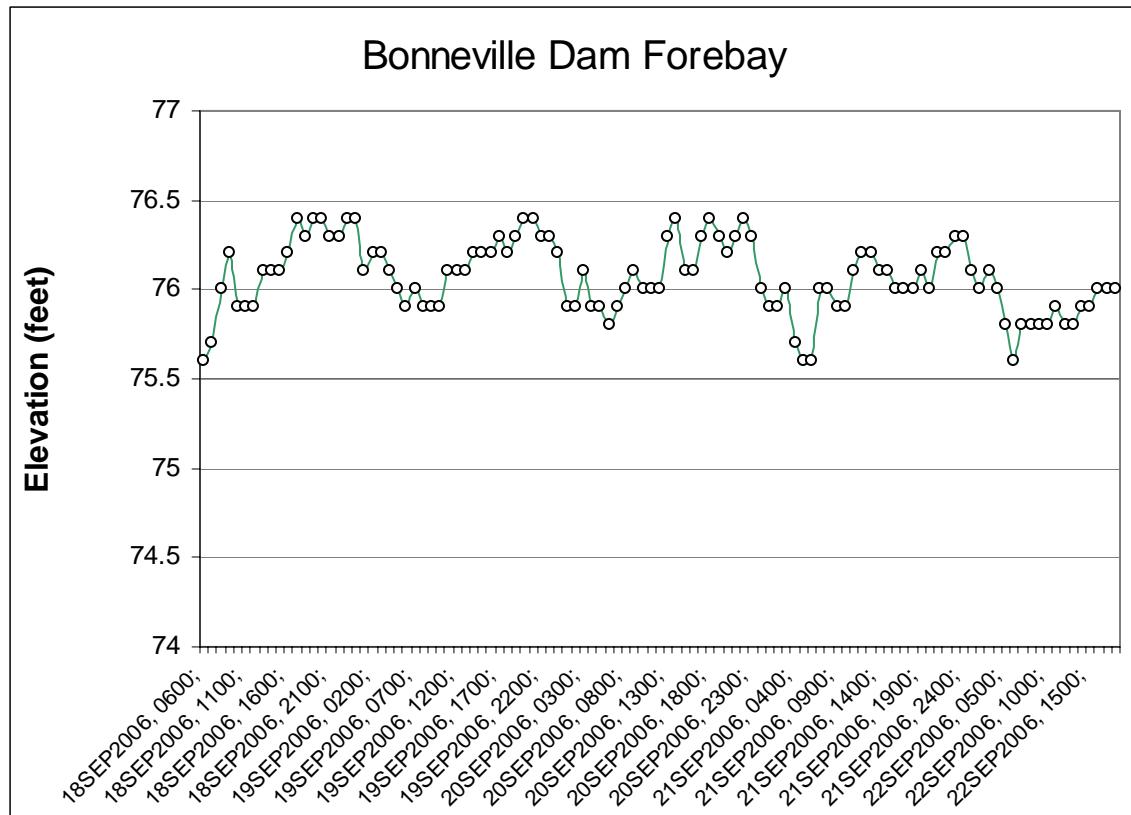


Figure 13. Observed BON pool elevations during September 18-22, 2006 autumn treaty fishing.

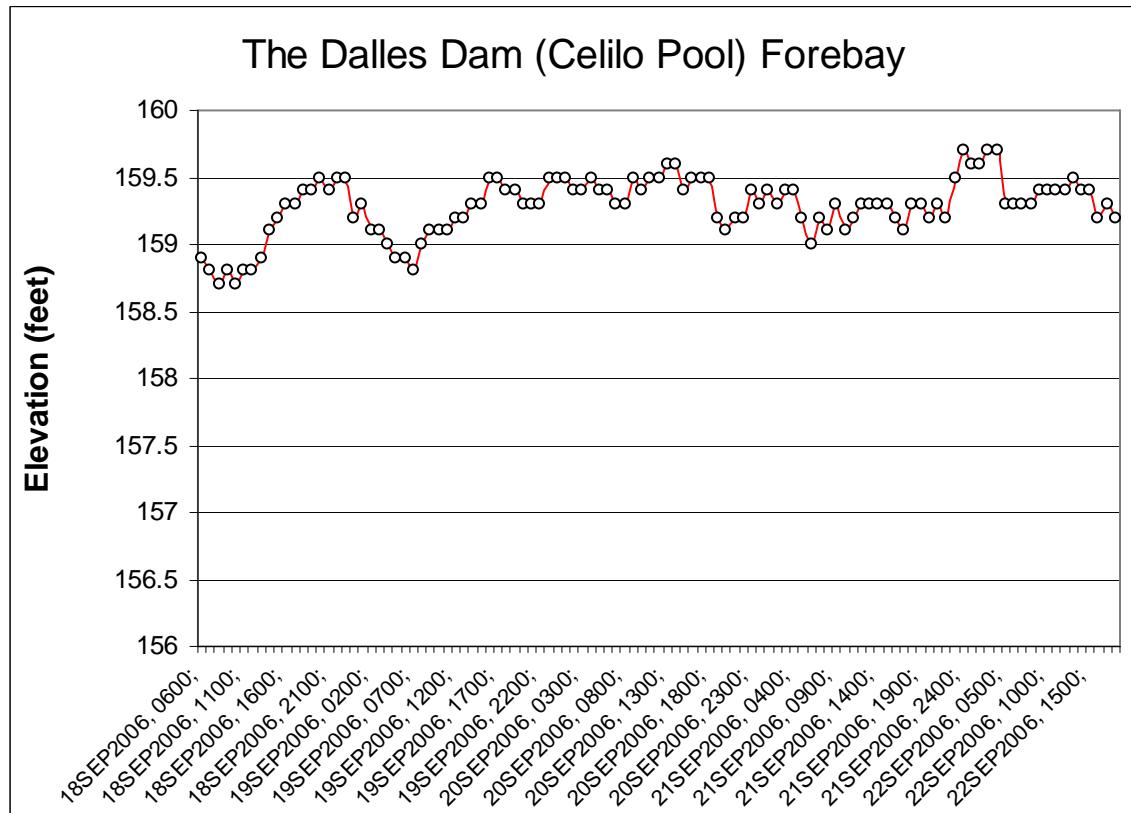


Figure 14. Observed TDA pool elevations during September 18-22, 2006 autumn treaty fishing.

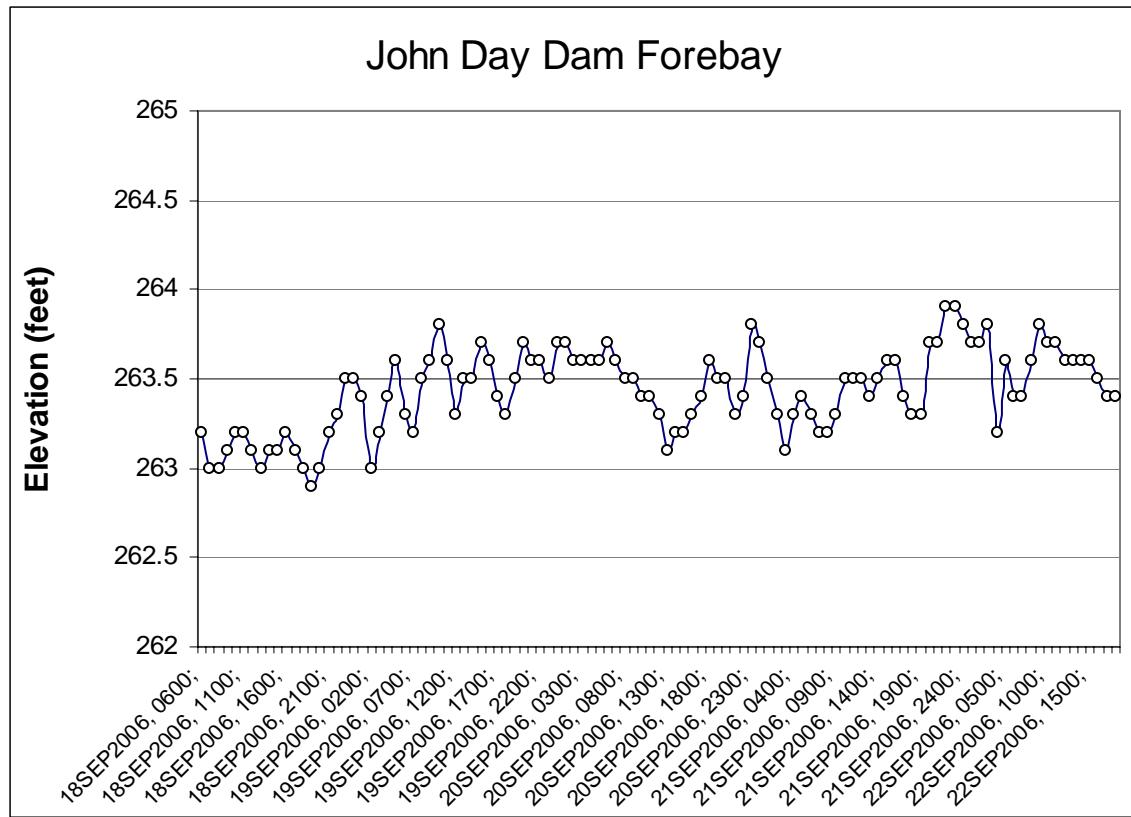


Figure 15. Observed JDA pool elevations during September 18-22, 2006 autumn treaty fishing.

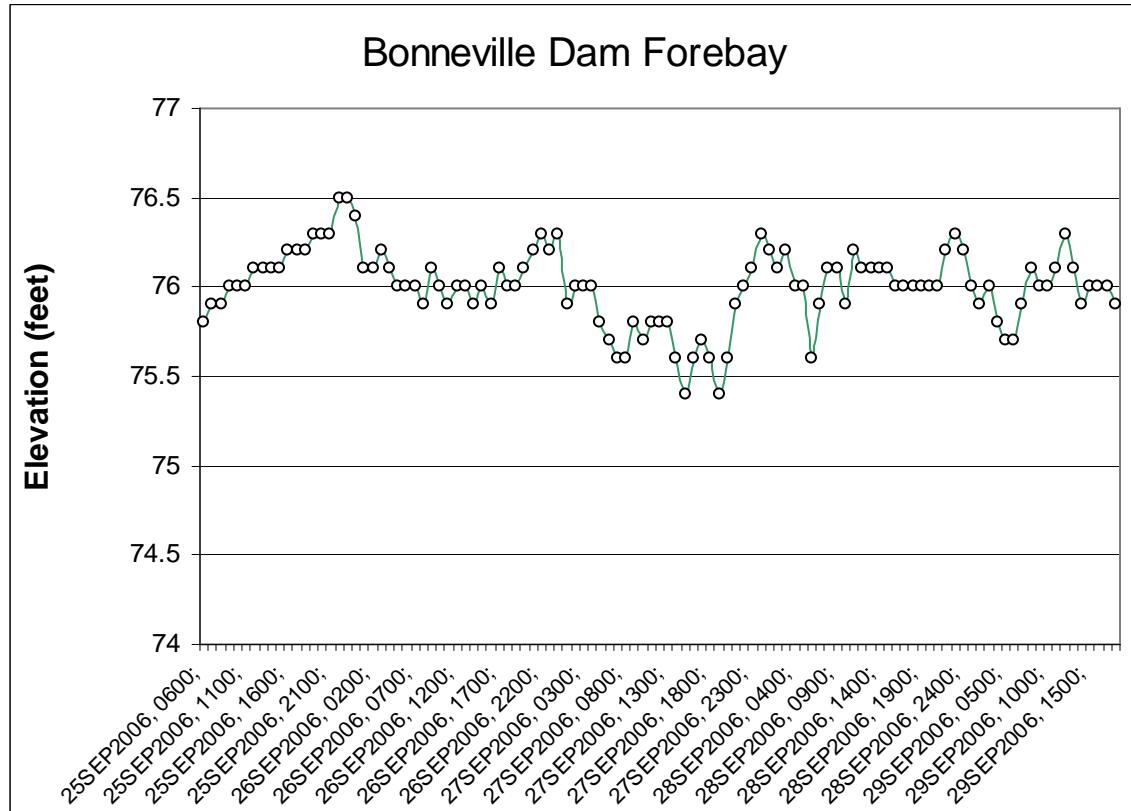


Figure 16. Observed BON pool elevations during September 25-29, 2006 autumn treaty fishing.

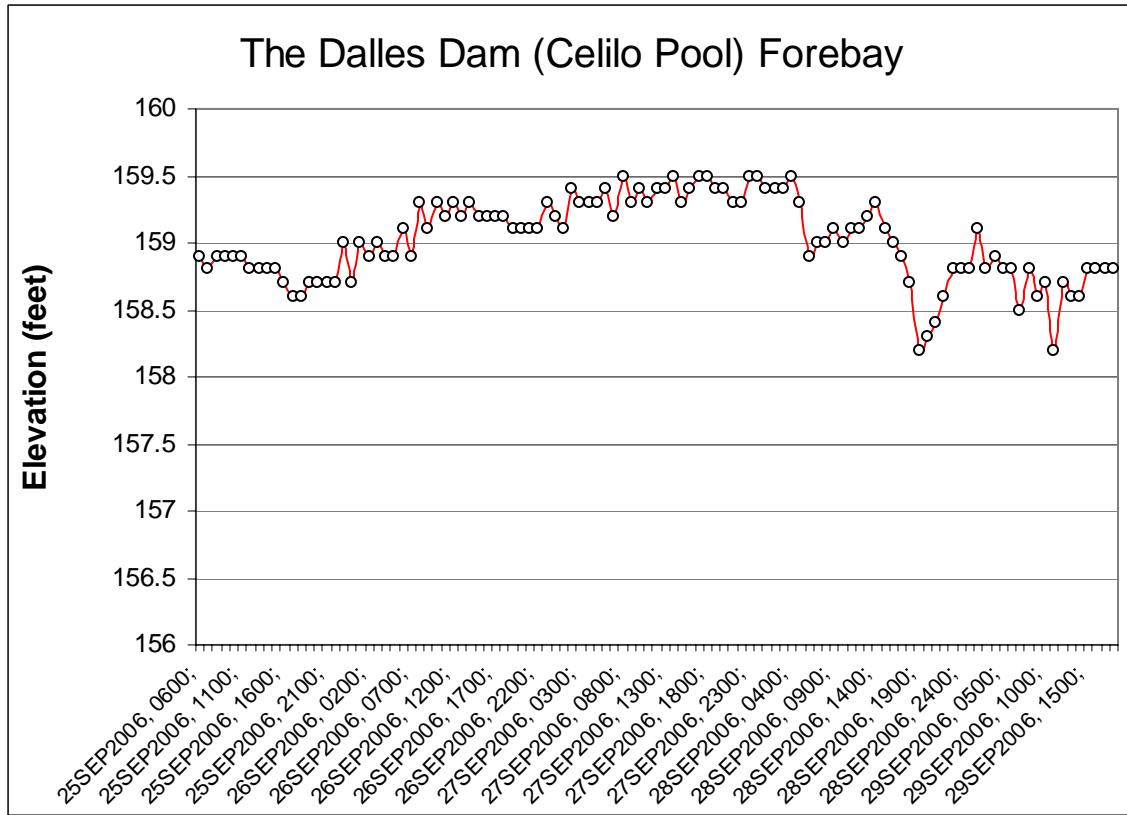


Figure 17. Observed TDA pool elevations during September 25-29, 2006 autumn treaty fishing.

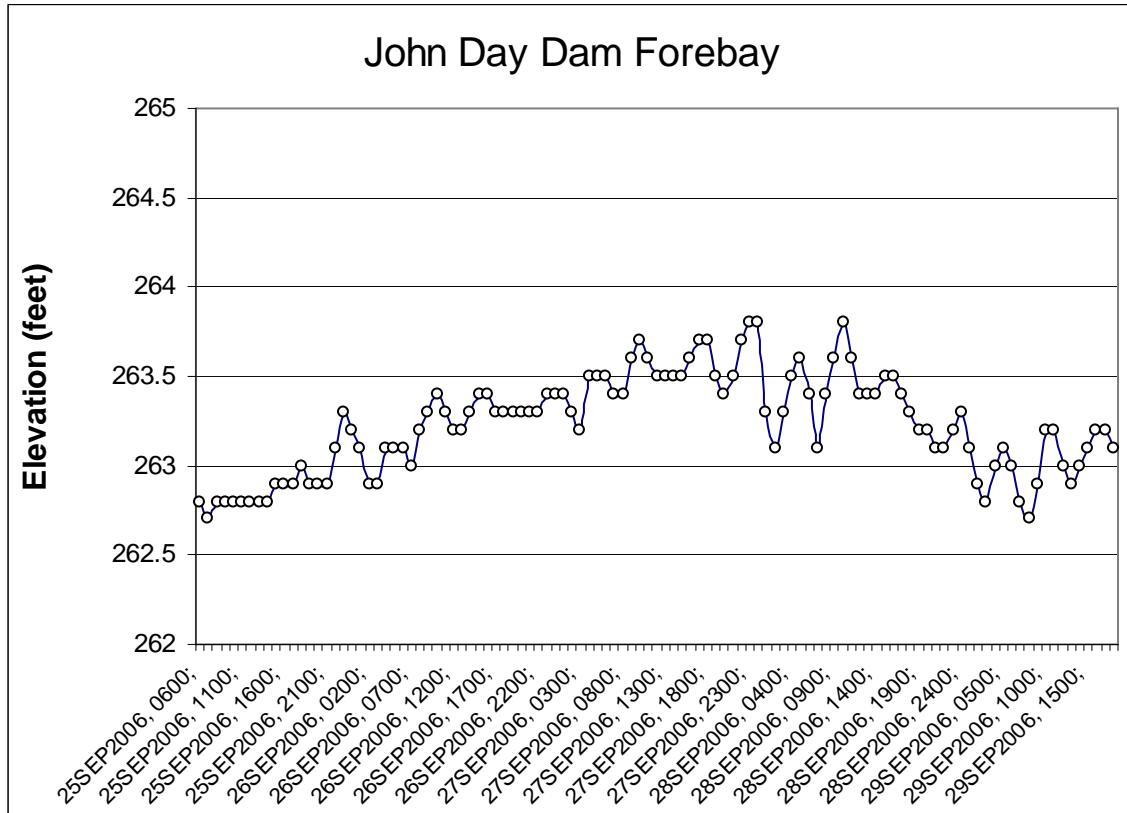


Figure 18. Observed JDA pool elevations during September 25-29, 2006 autumn treaty fishing.

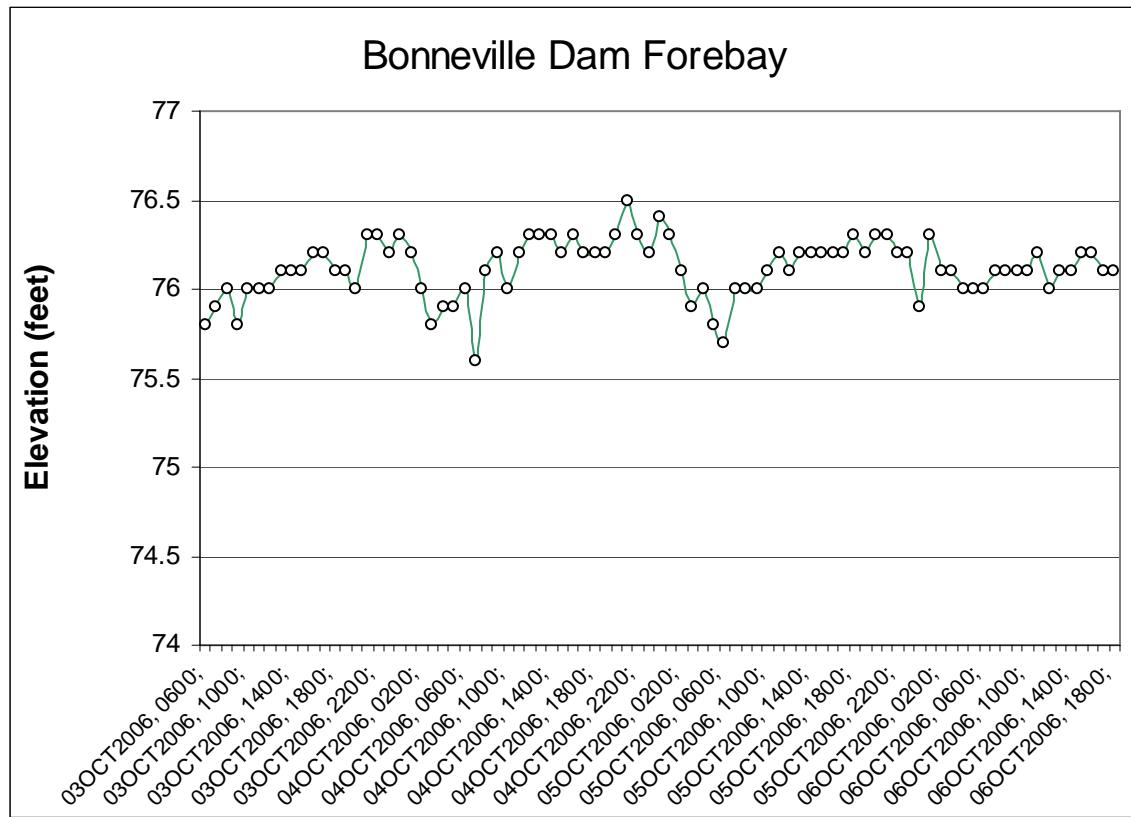


Figure 19. Observed BON pool elevations during October 3-6, 2006 autumn treaty fishing.

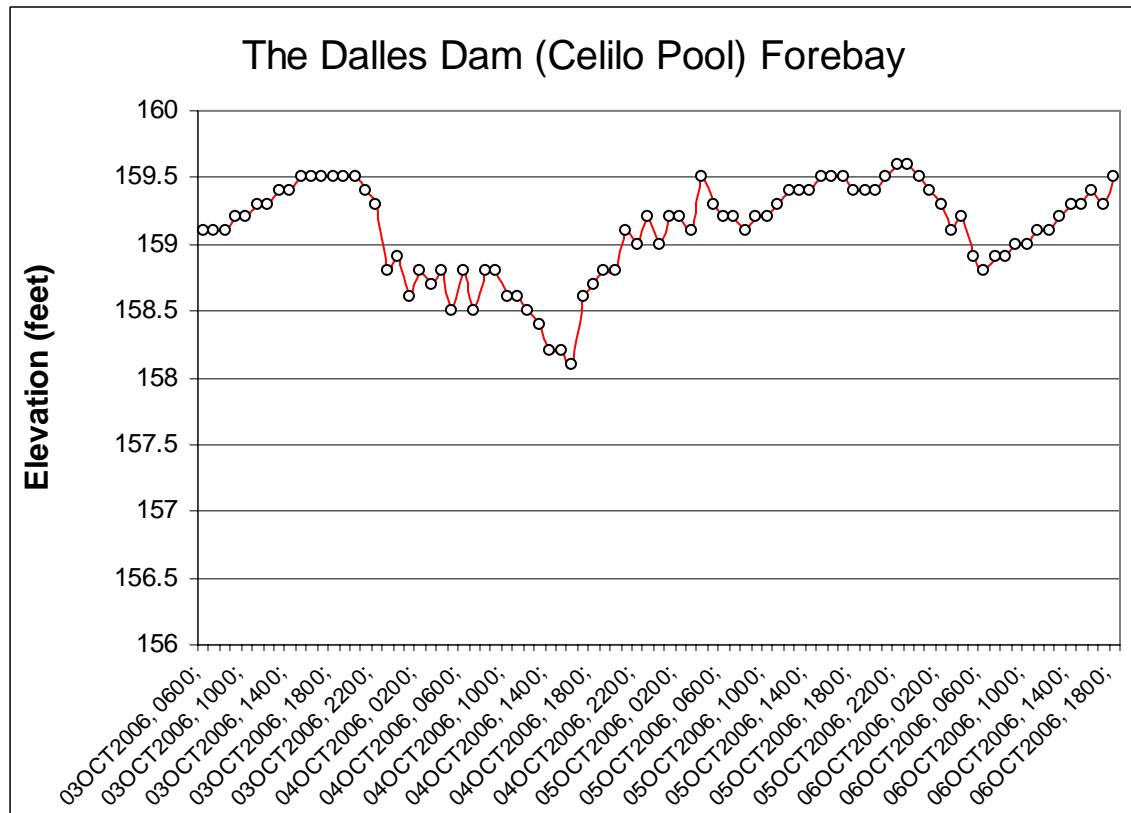


Figure 20. Observed TDA pool elevations during October 3-6, 2006 autumn treaty fishing.

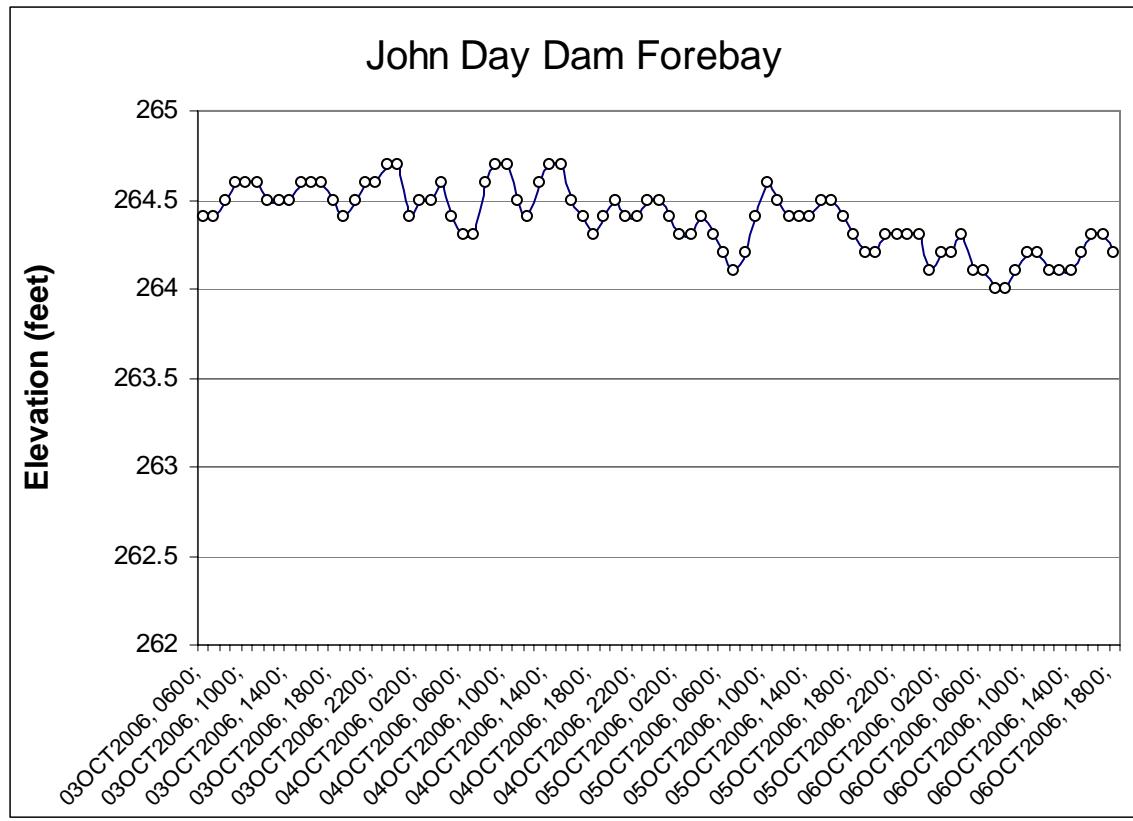


Figure 21. Observed JDA pool elevations during October 3-6, 2006 autumn treaty fishing.