

**APPENDIX 2-E. WEEK OF THE YEAR IMPACTS BY SPECIES AND LIFE
STAGE**

REPORT FOR PPL BELL BEND, LLC

Appendix 2-E

Habitat Impact Time Series Seasonal Analysis

Proposed Bell Bend Nuclear Power Plant Site, Luzerne County,
Pennsylvania

Normandeau Associates, Inc.

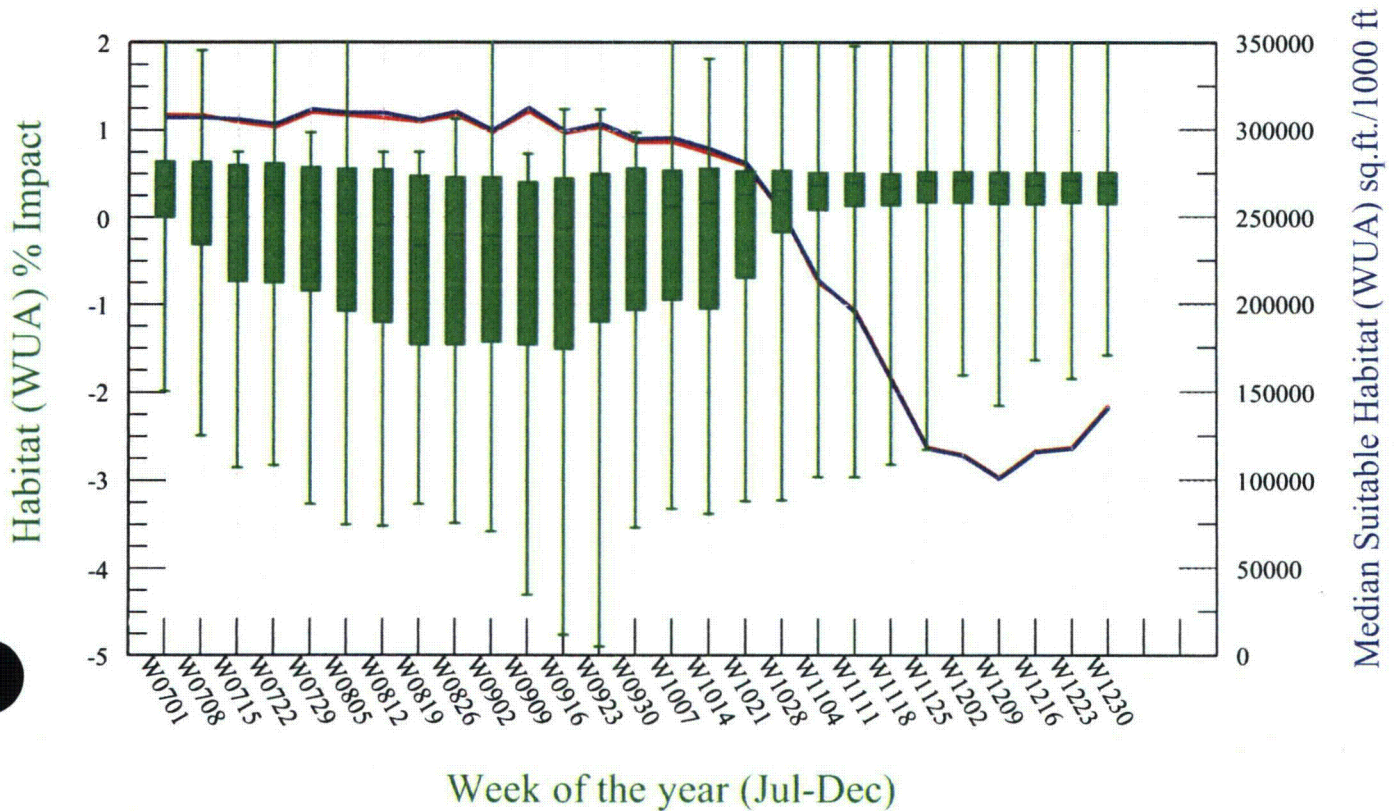
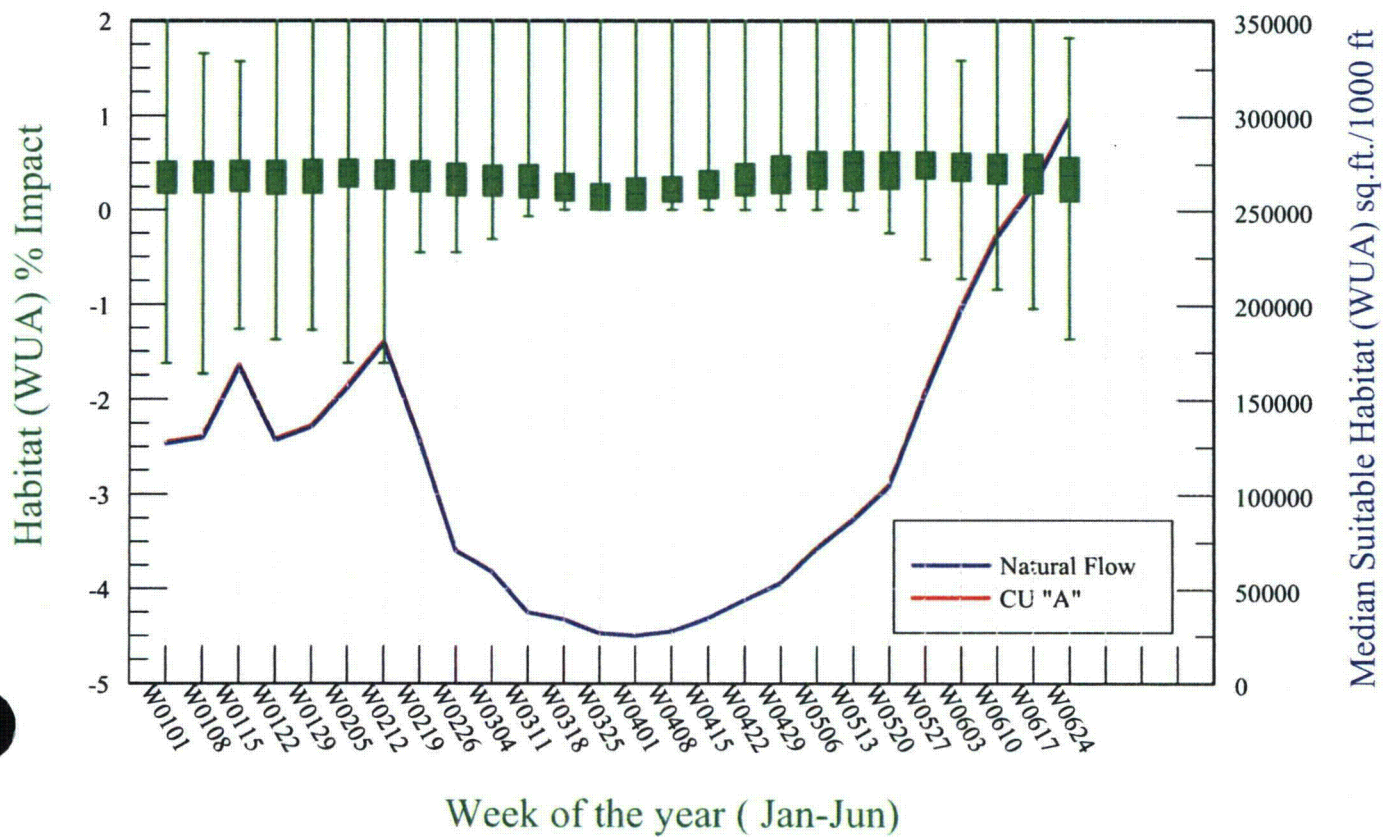
Appendix 2-E

Habitat impact time series - seasonal analysis.

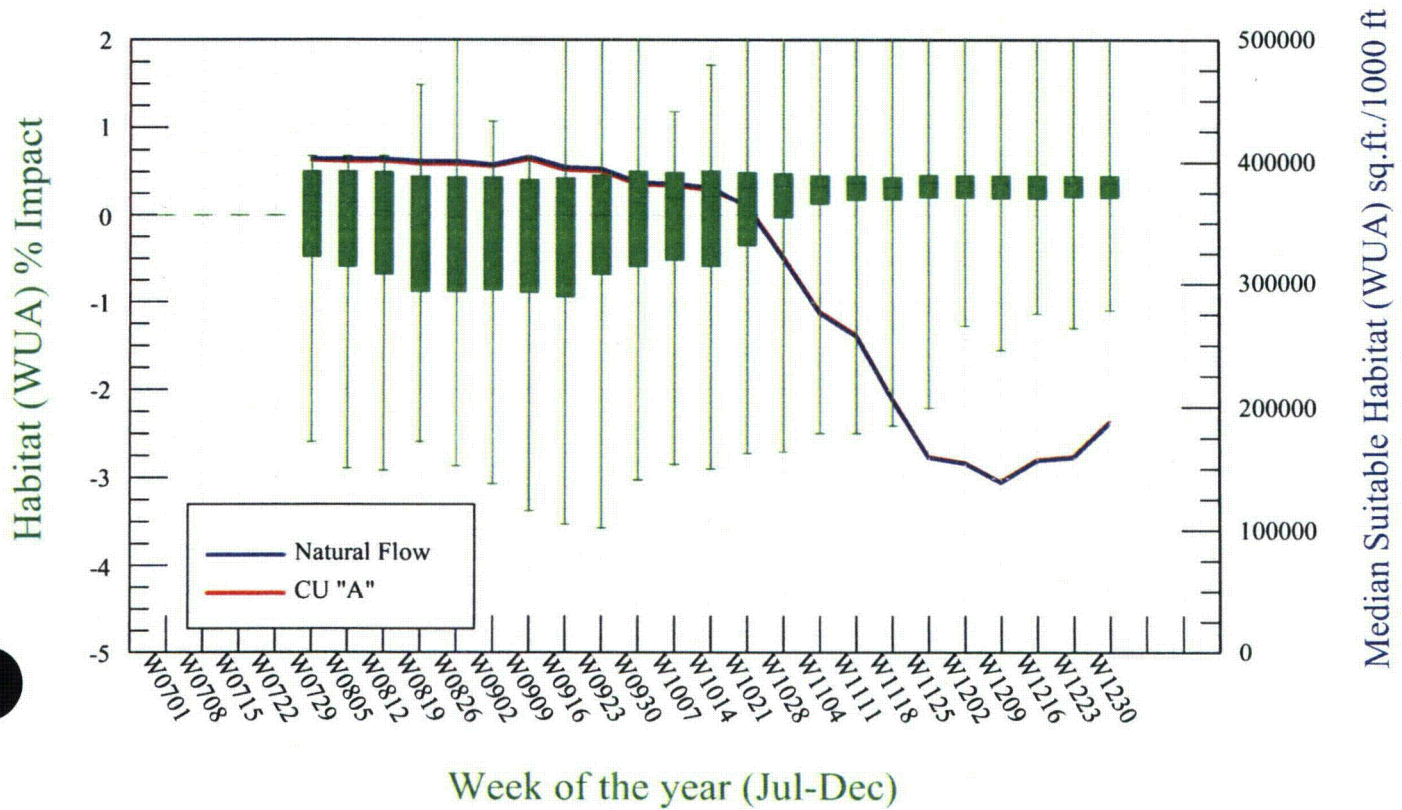
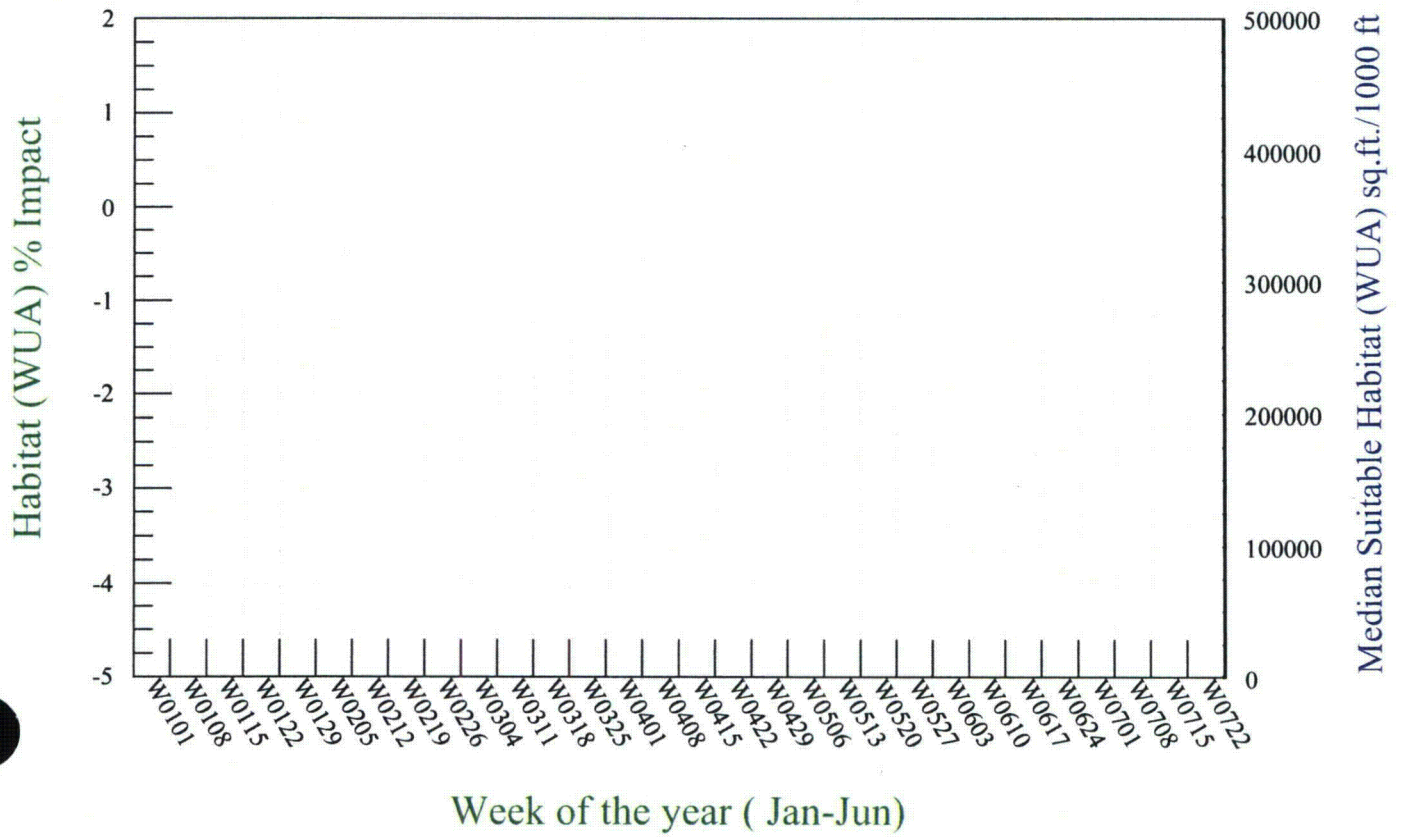
Weekly distributions of daily time series values based on WUA vs. flow curves from the combined Phabsim and River 2D analyses for the entire study reach.

- Weekly box and whisker plot (median, inter-quartile range, minimum and maximum) of habitat impact (percent change in WUA from natural flow to project flow) under the project consumptive use "A" scenario.
- Weekly median suitable habitat (WUA square feet / 1000 feet) for natural flow, and for flow under the project consumptive use "A" scenario.

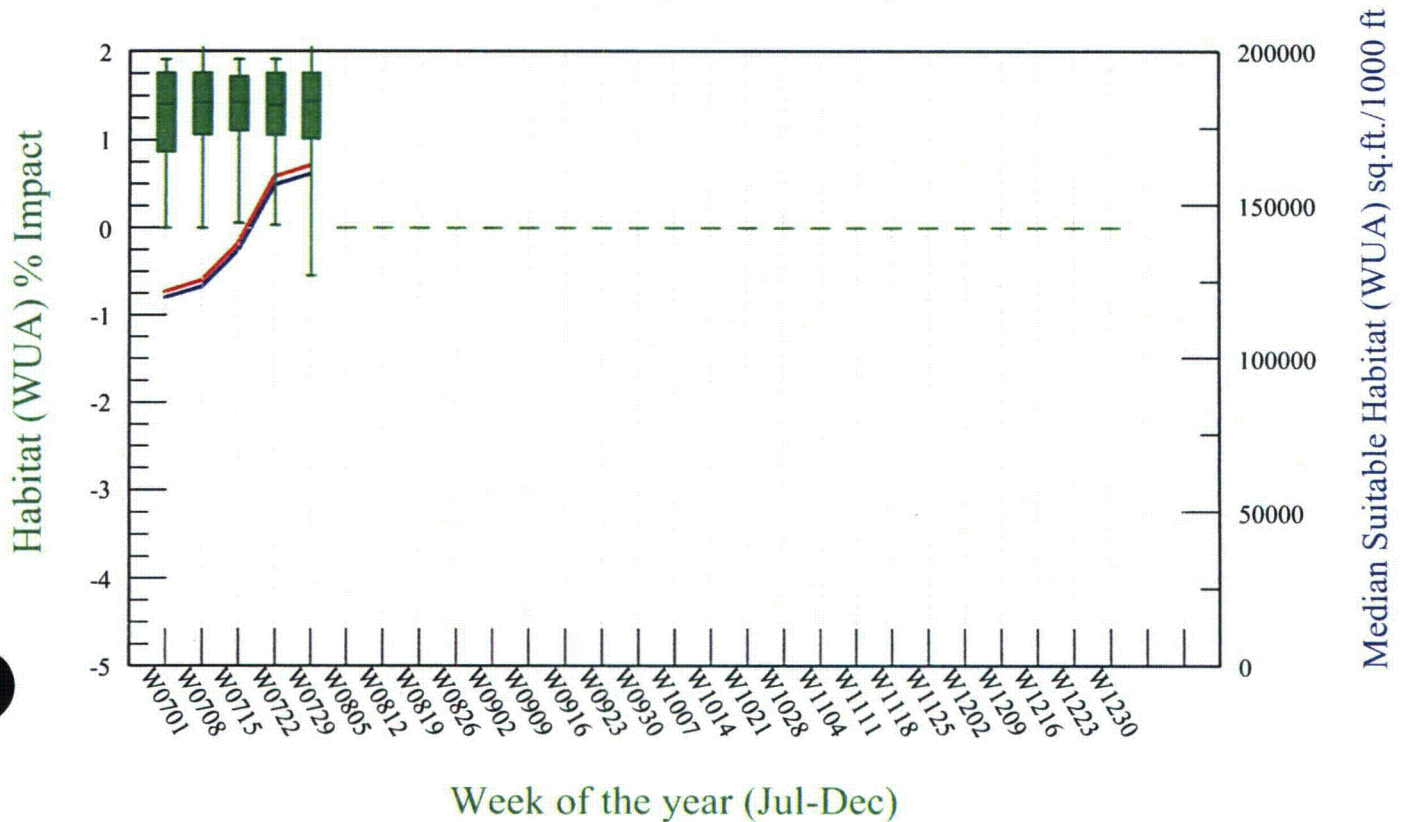
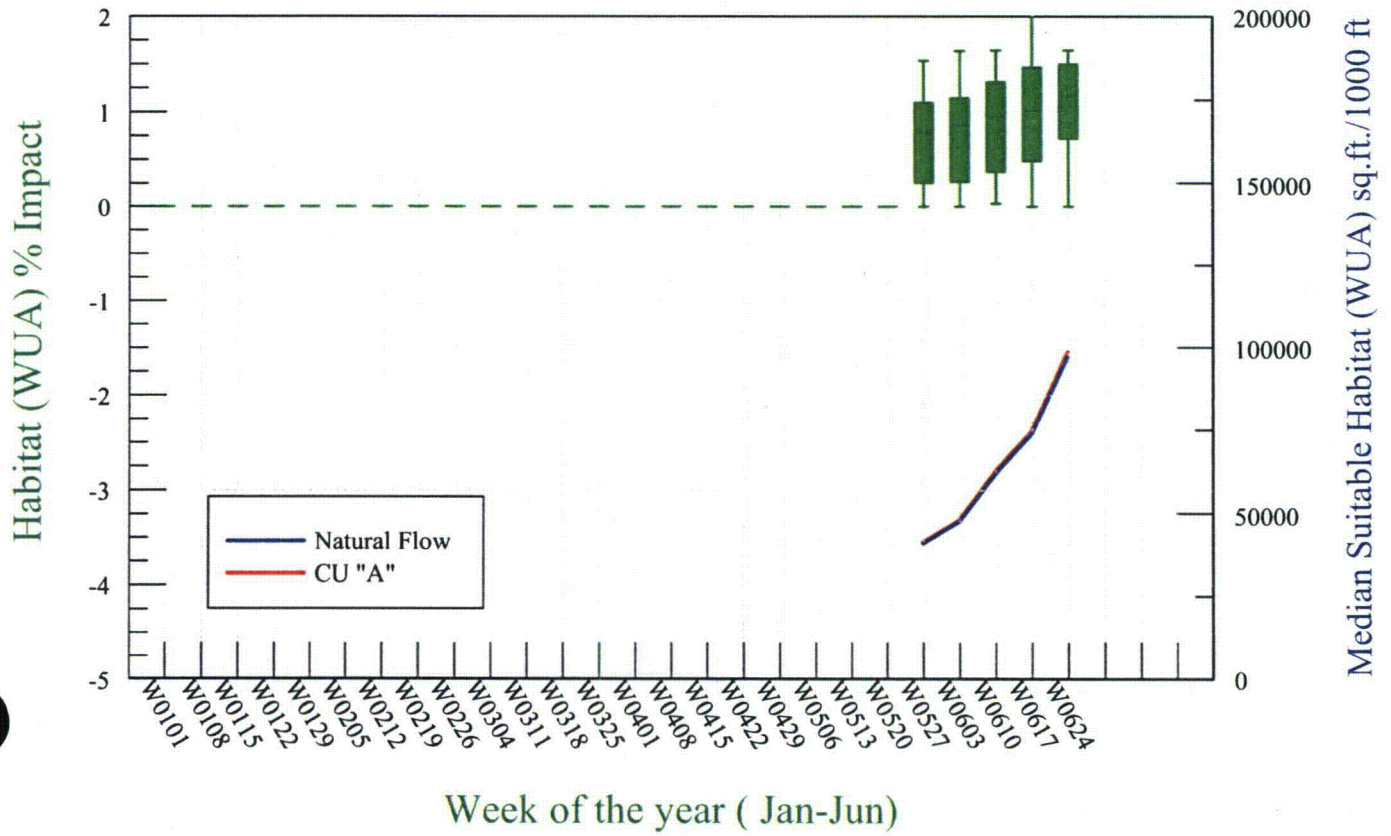
Smallmouth Bass Adult CU "A" Impacts by Week 1900-2010



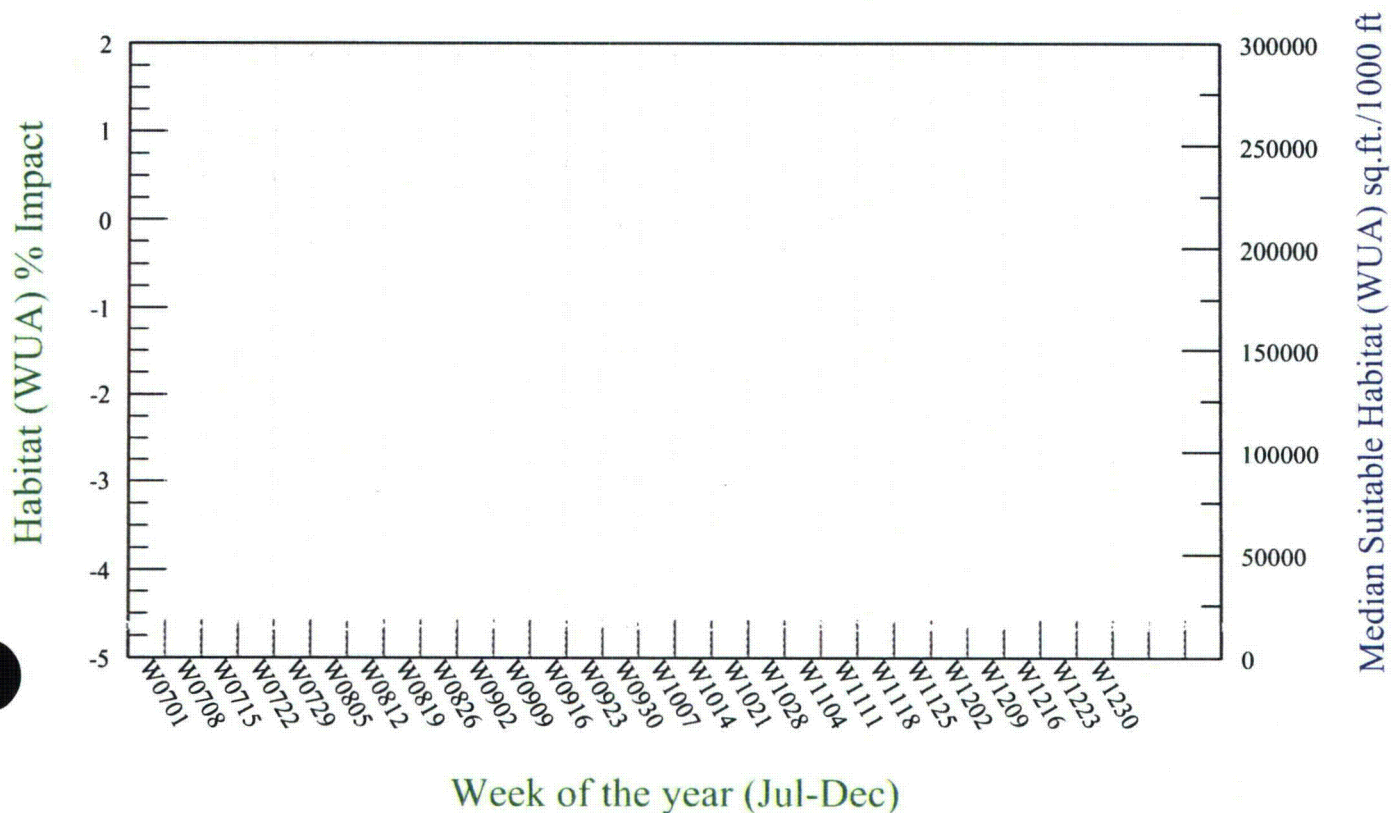
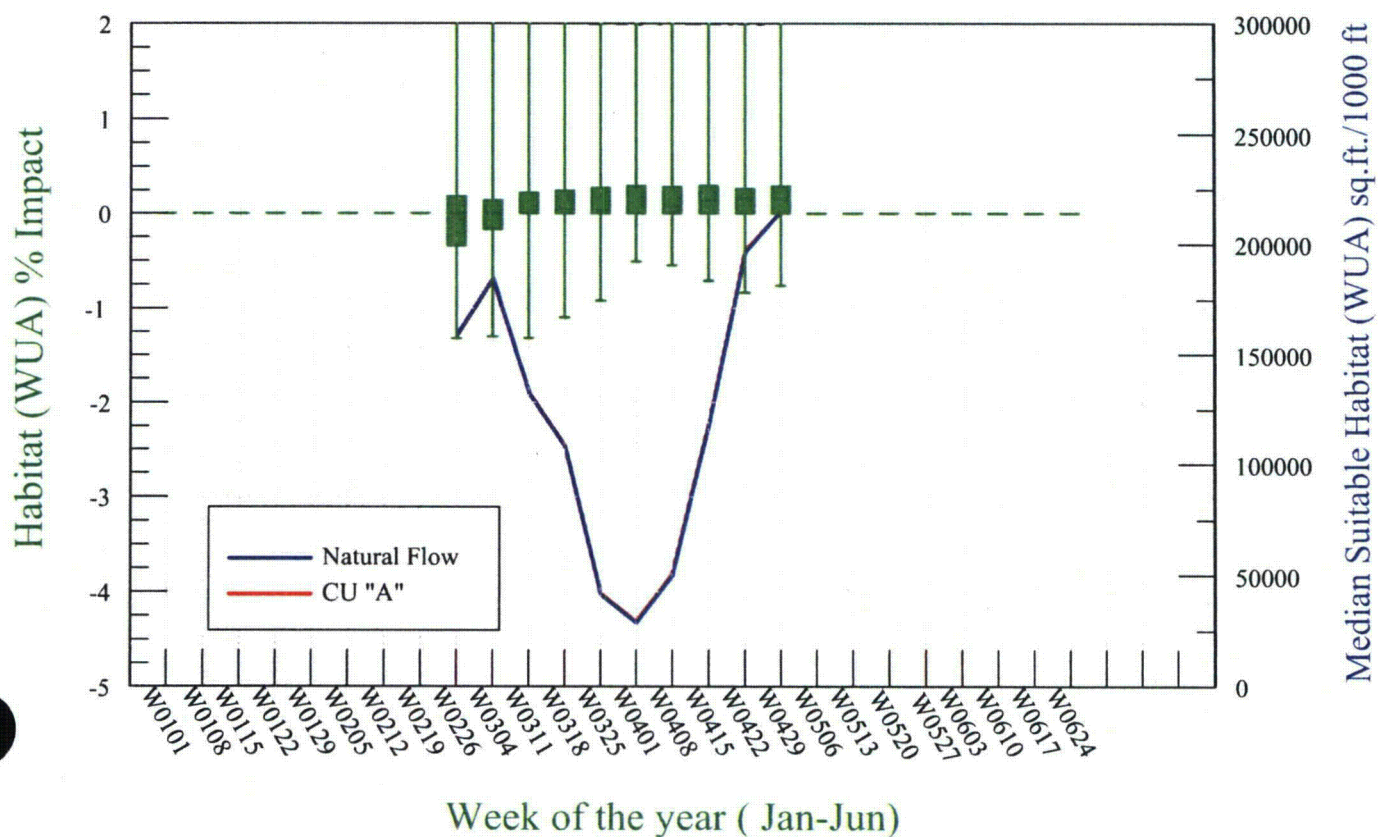
Smallmouth Bass Juvenile CU "A" Impacts by Week 1900-2010



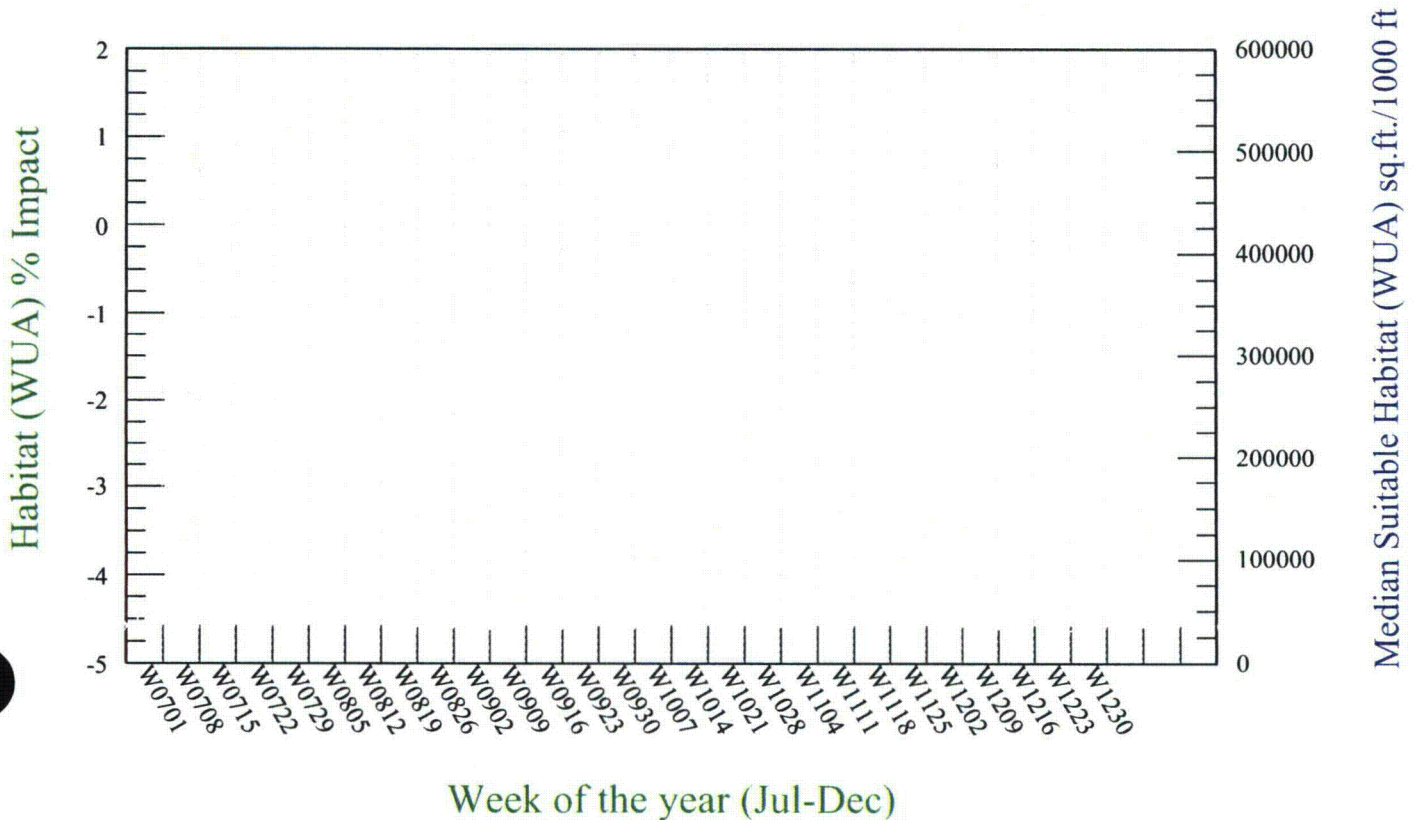
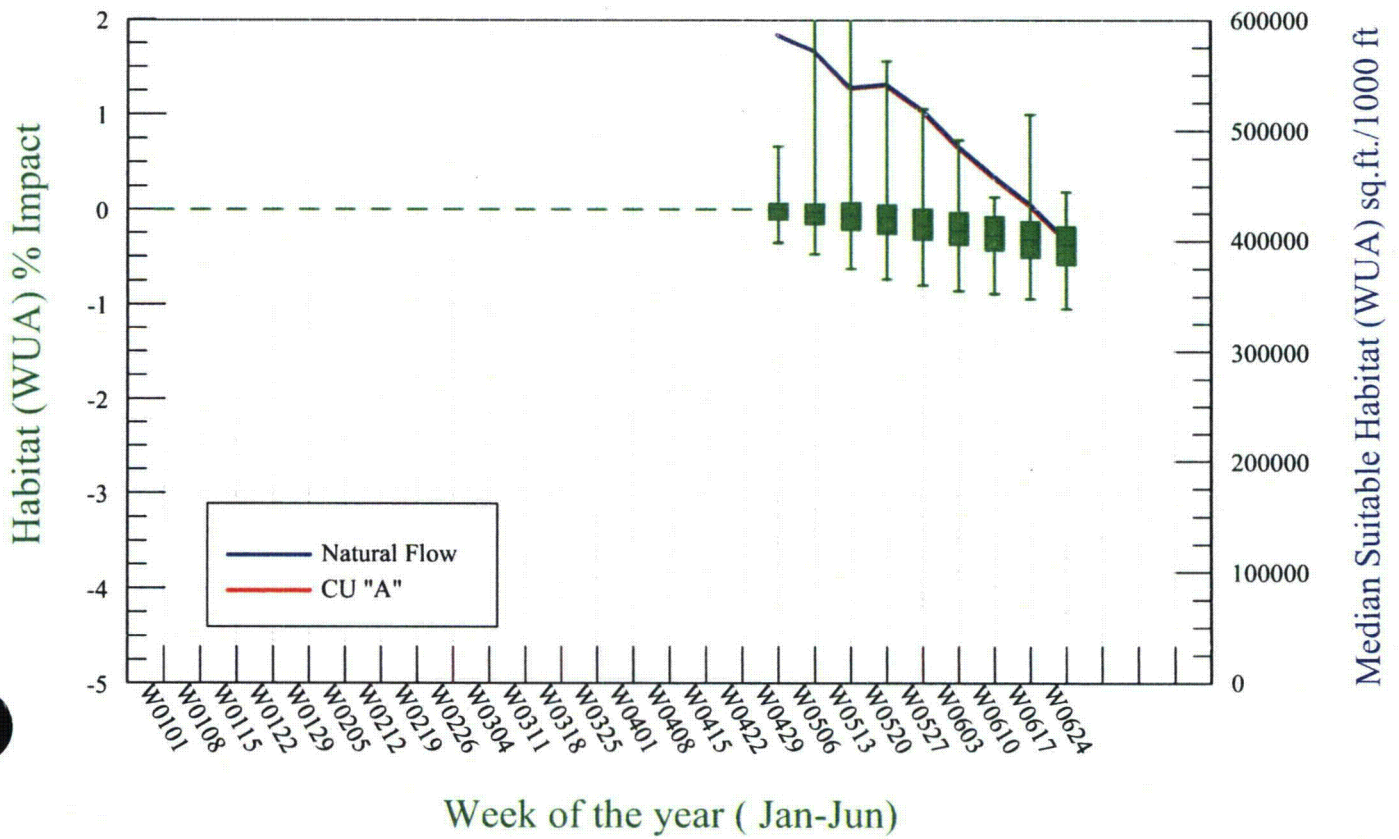
Smallmouth Bass Fry CU "A" Impacts by Week 1900-2010



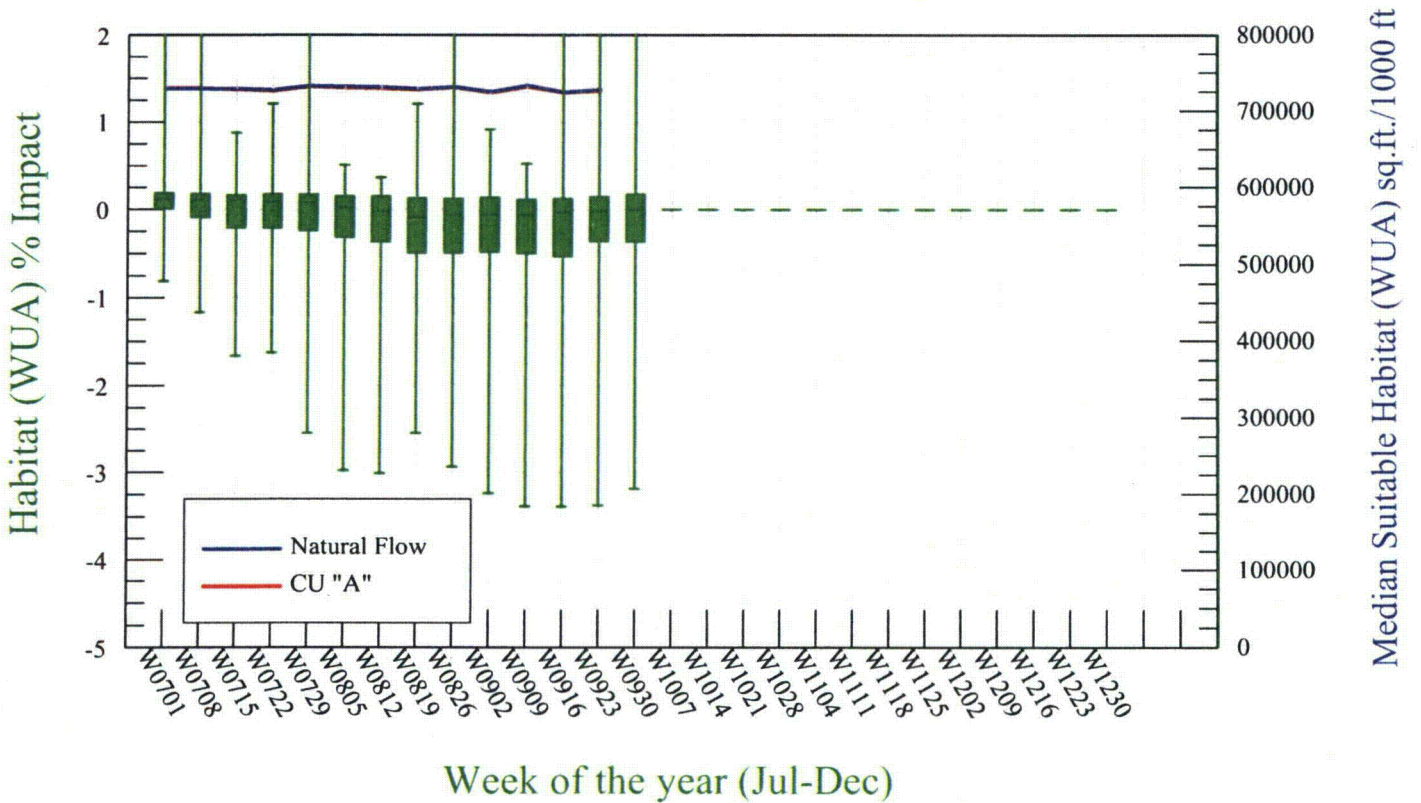
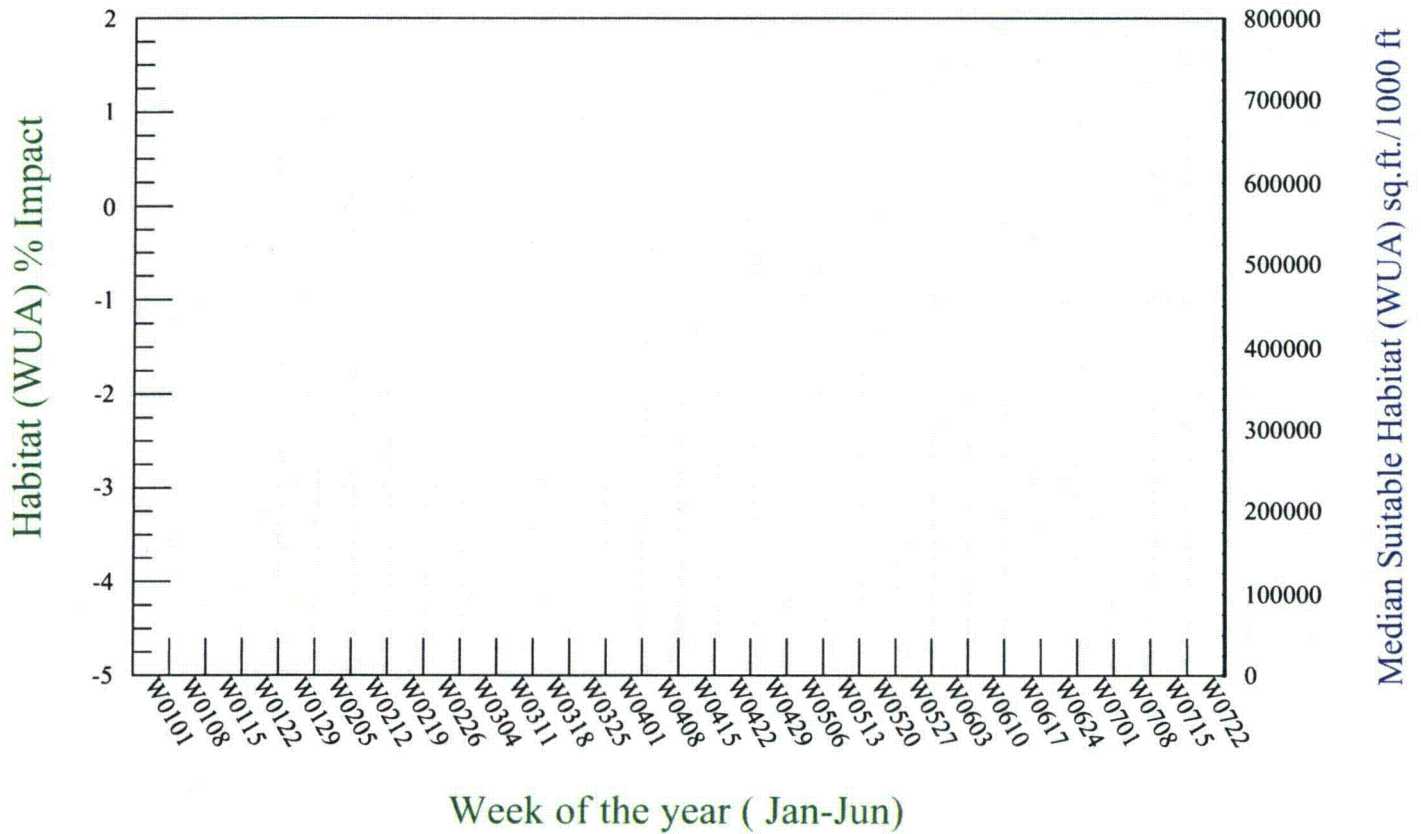
Walleye Spawning CU "A" Impacts by Week 1900-2010



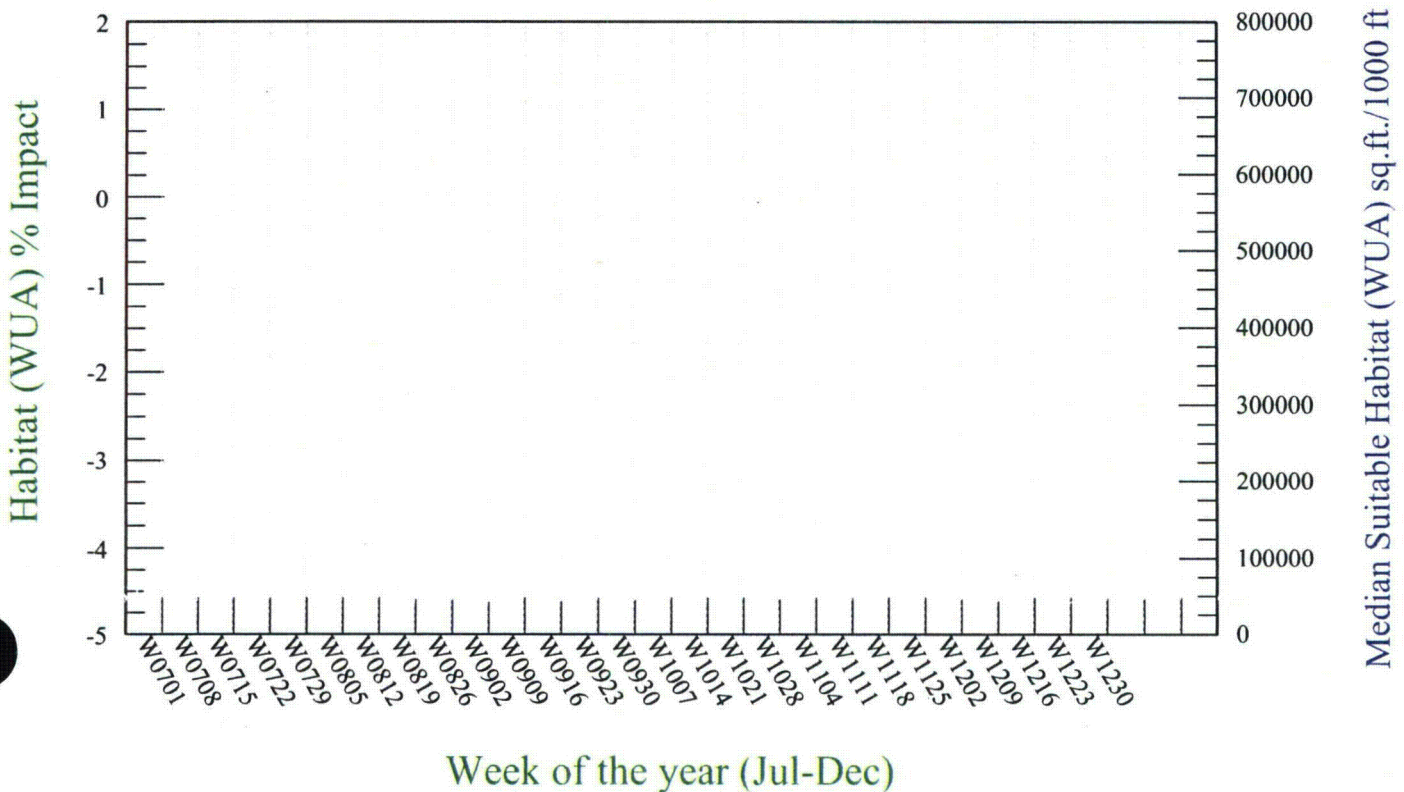
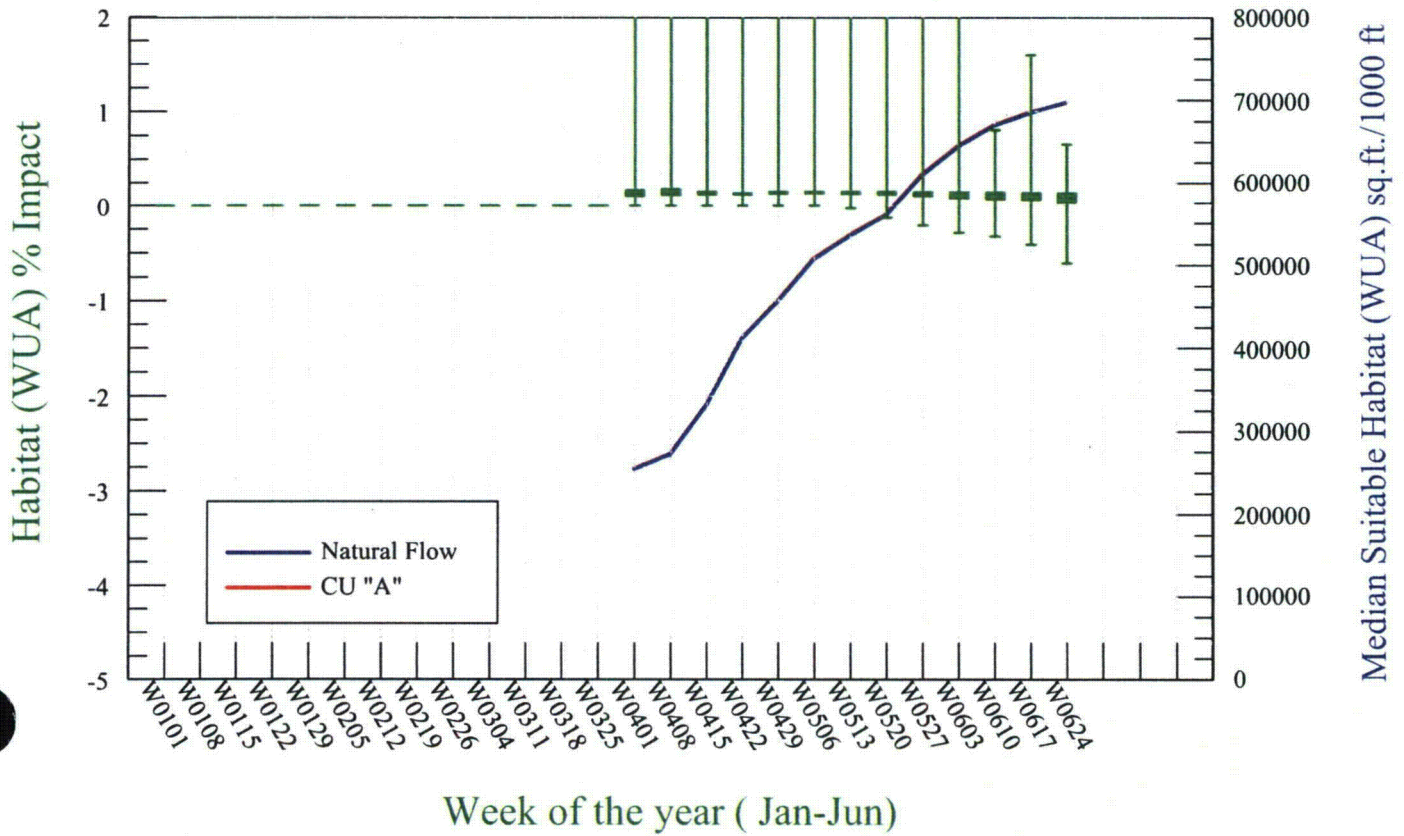
American Shad Adult CU "A" Impacts by Week 1900-2010



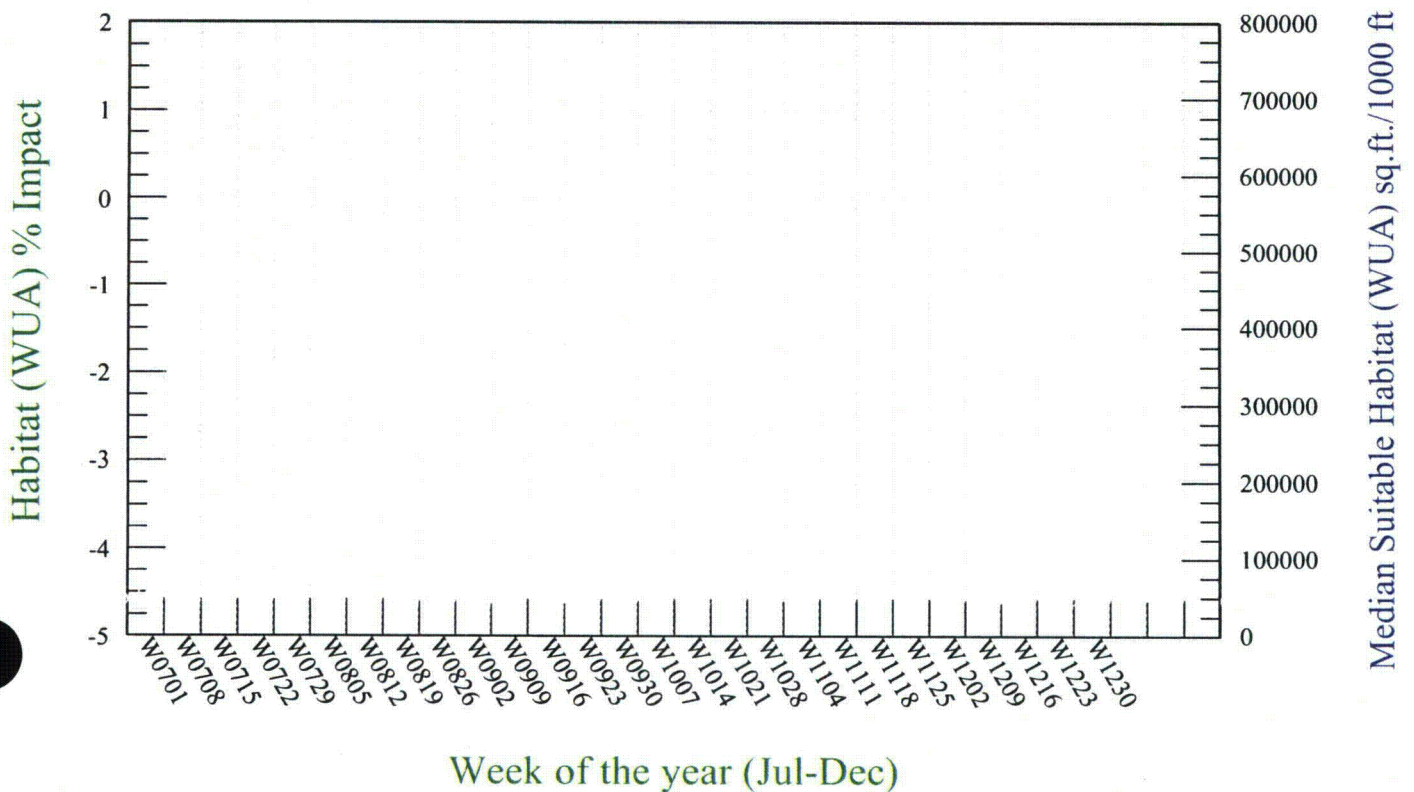
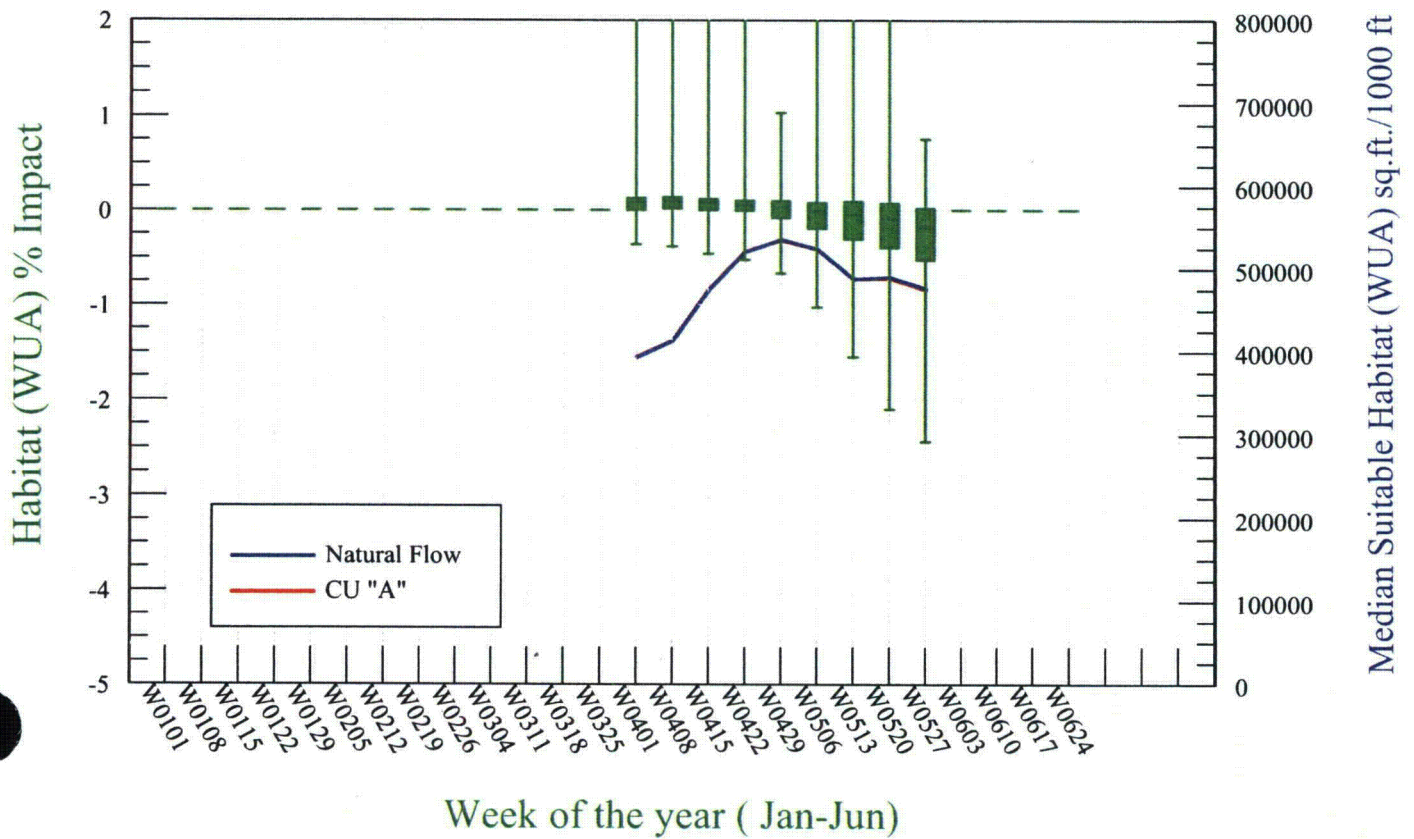
American Shad Juvenile CU "A" Impacts by Week 1900-2010



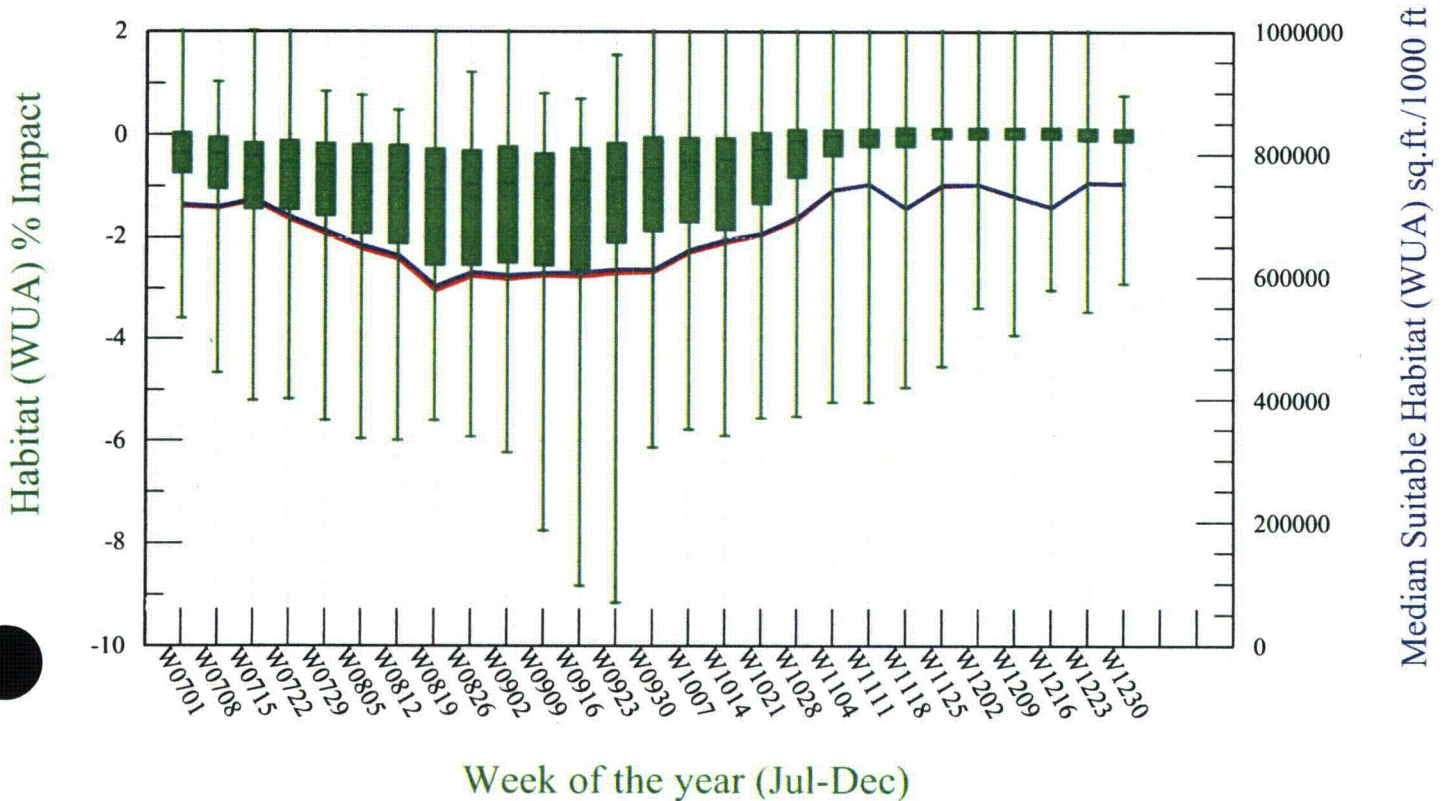
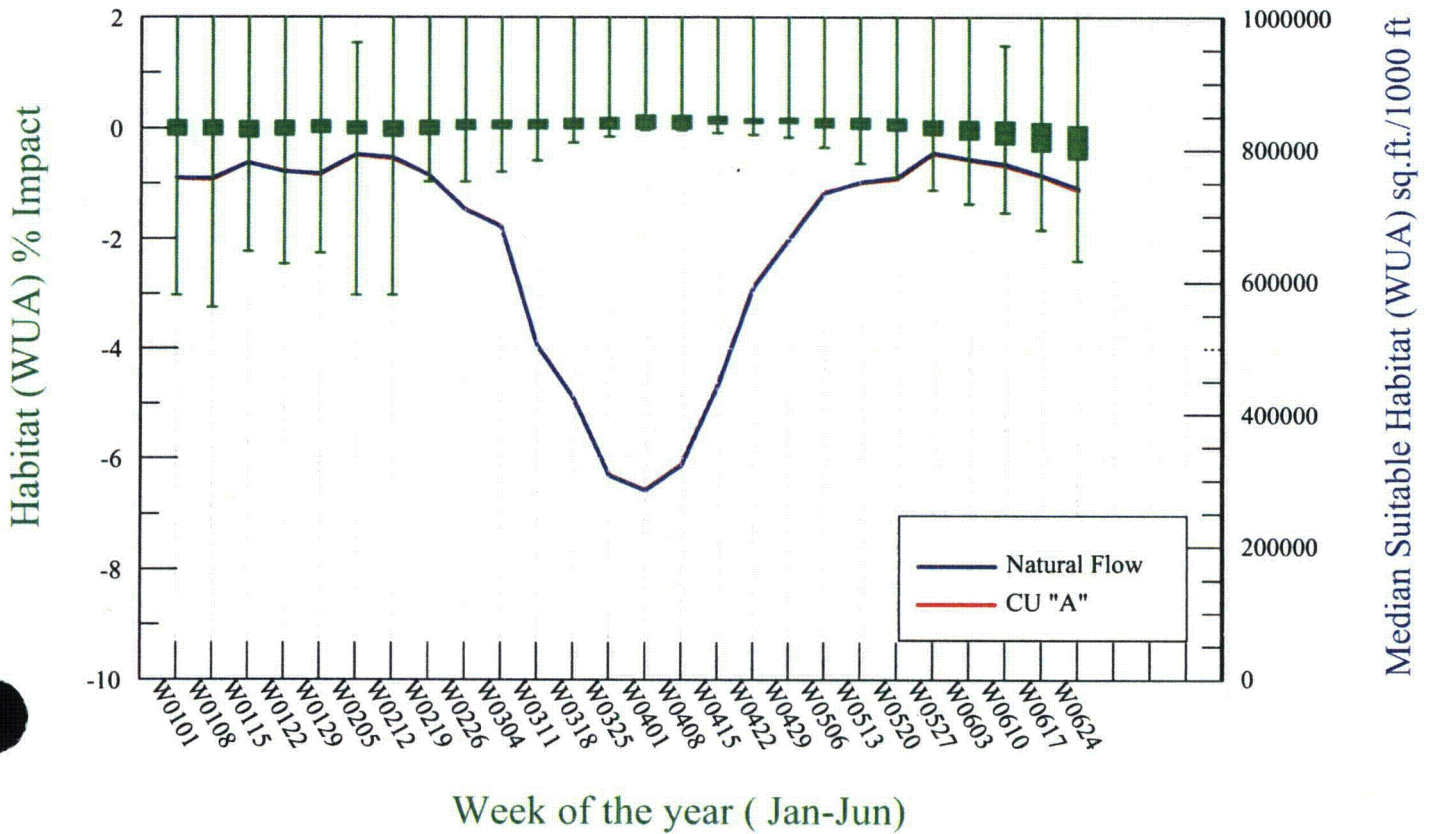
American Shad Fry CU "A" Impacts by Week 1900-2010



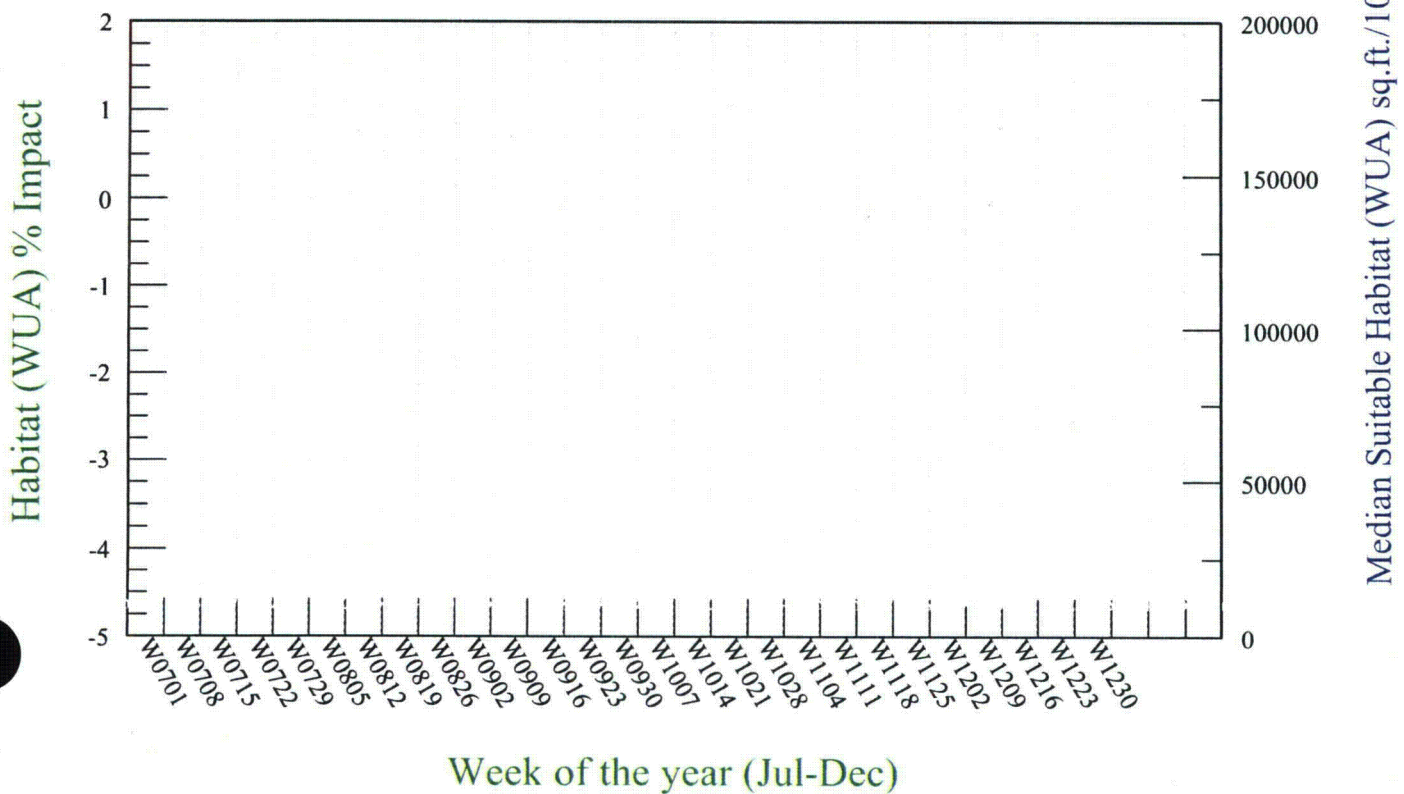
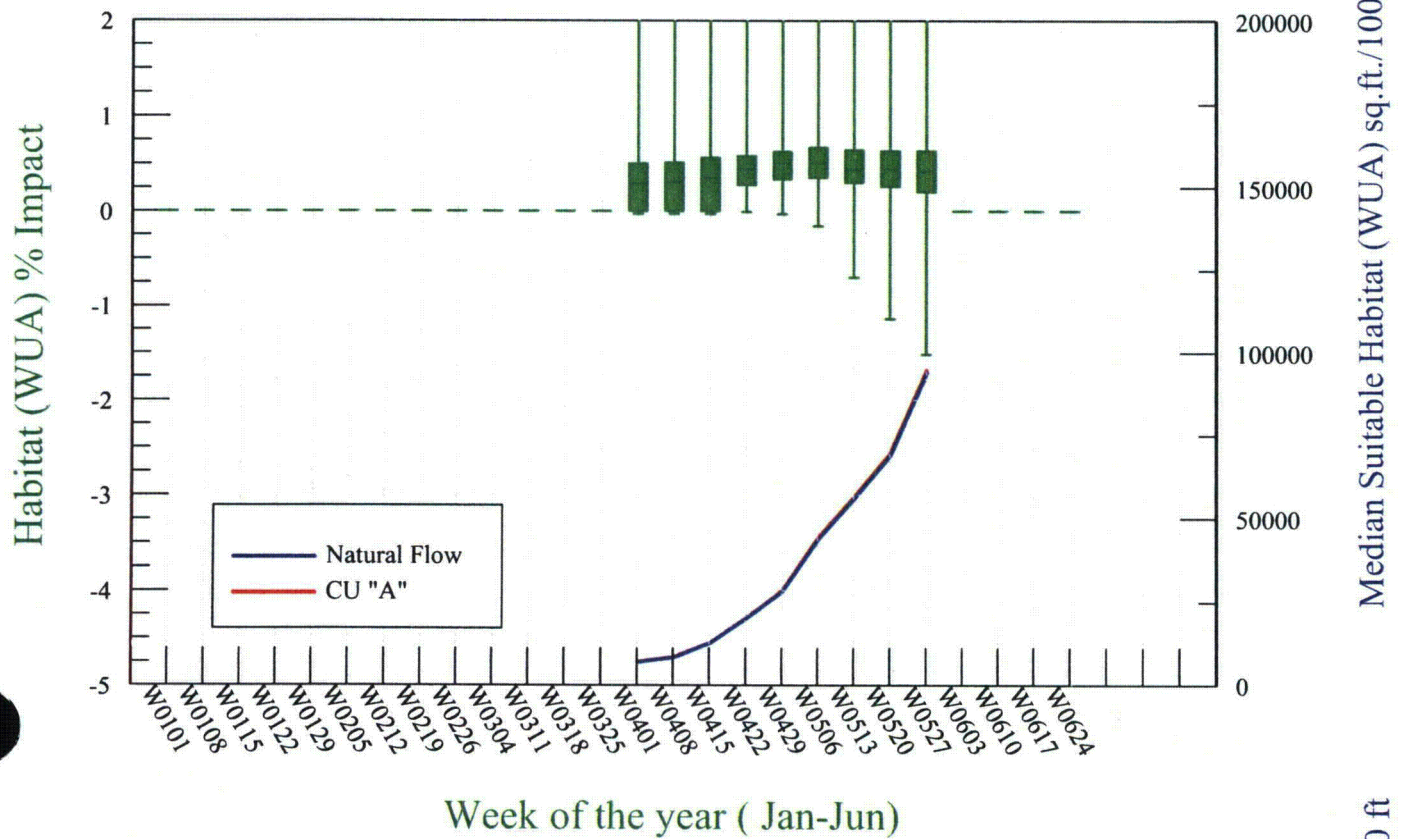
American Shad Spawning CU "A" Impacts by Week 1900-2010



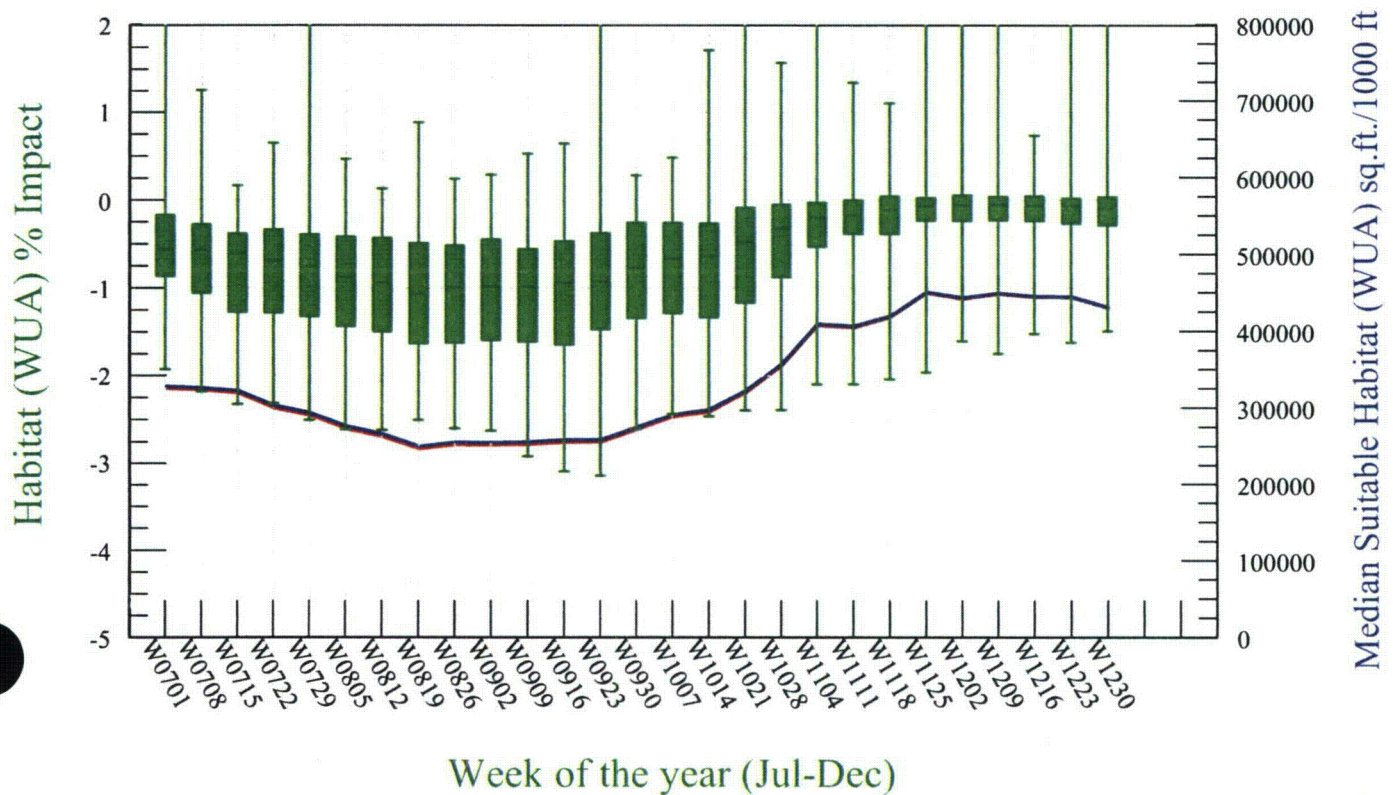
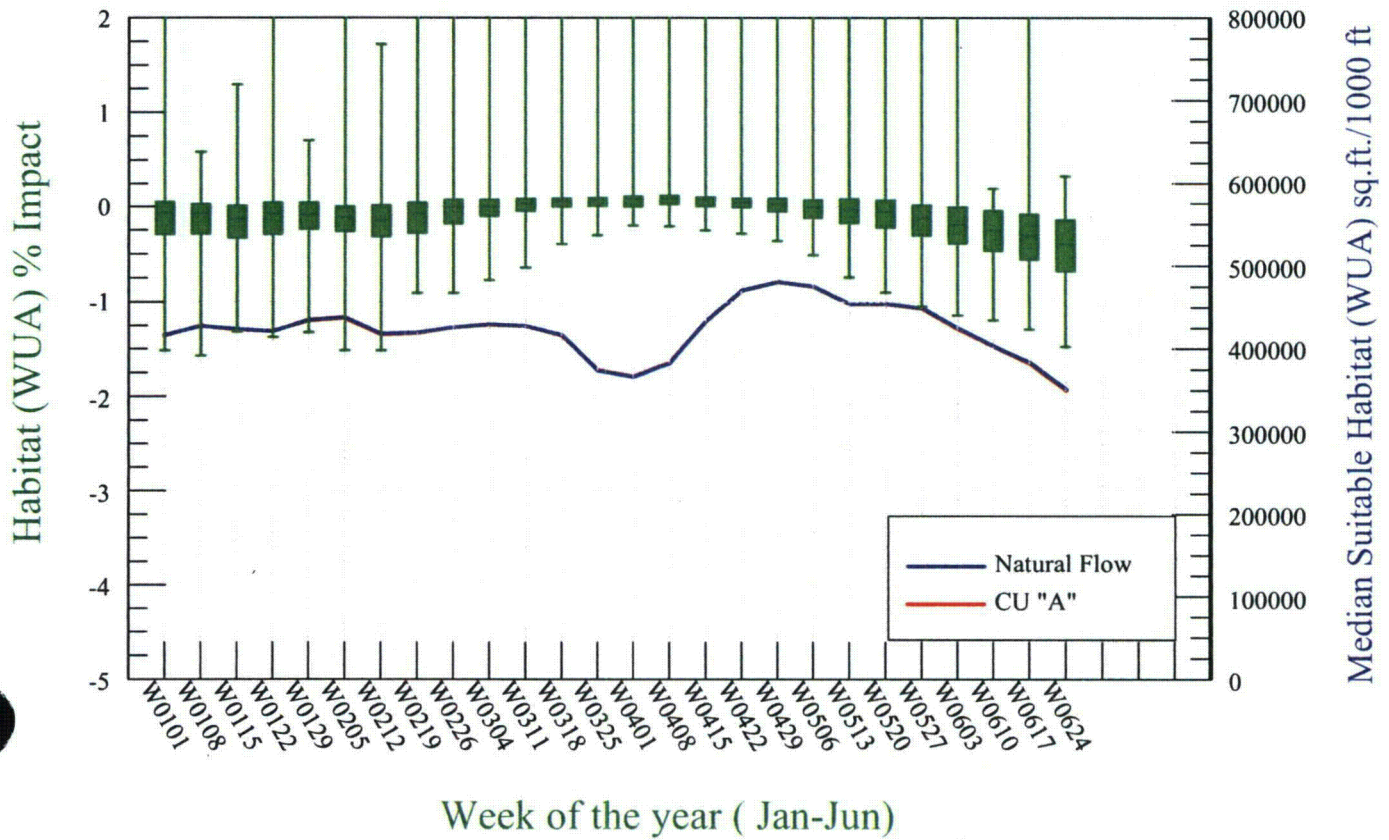
Northern Hog Sucker Adult CU "A" Impacts by Week 1900-2010



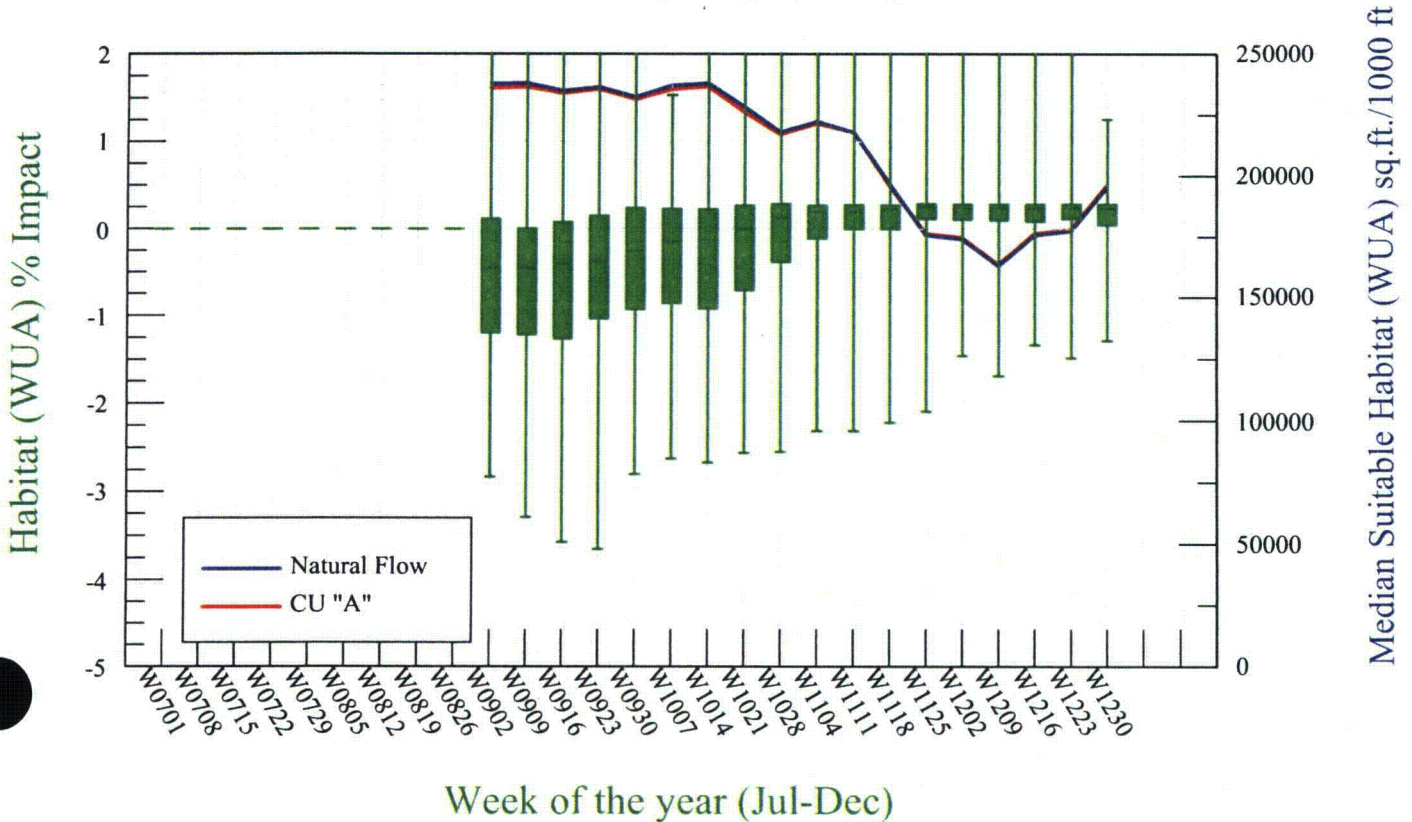
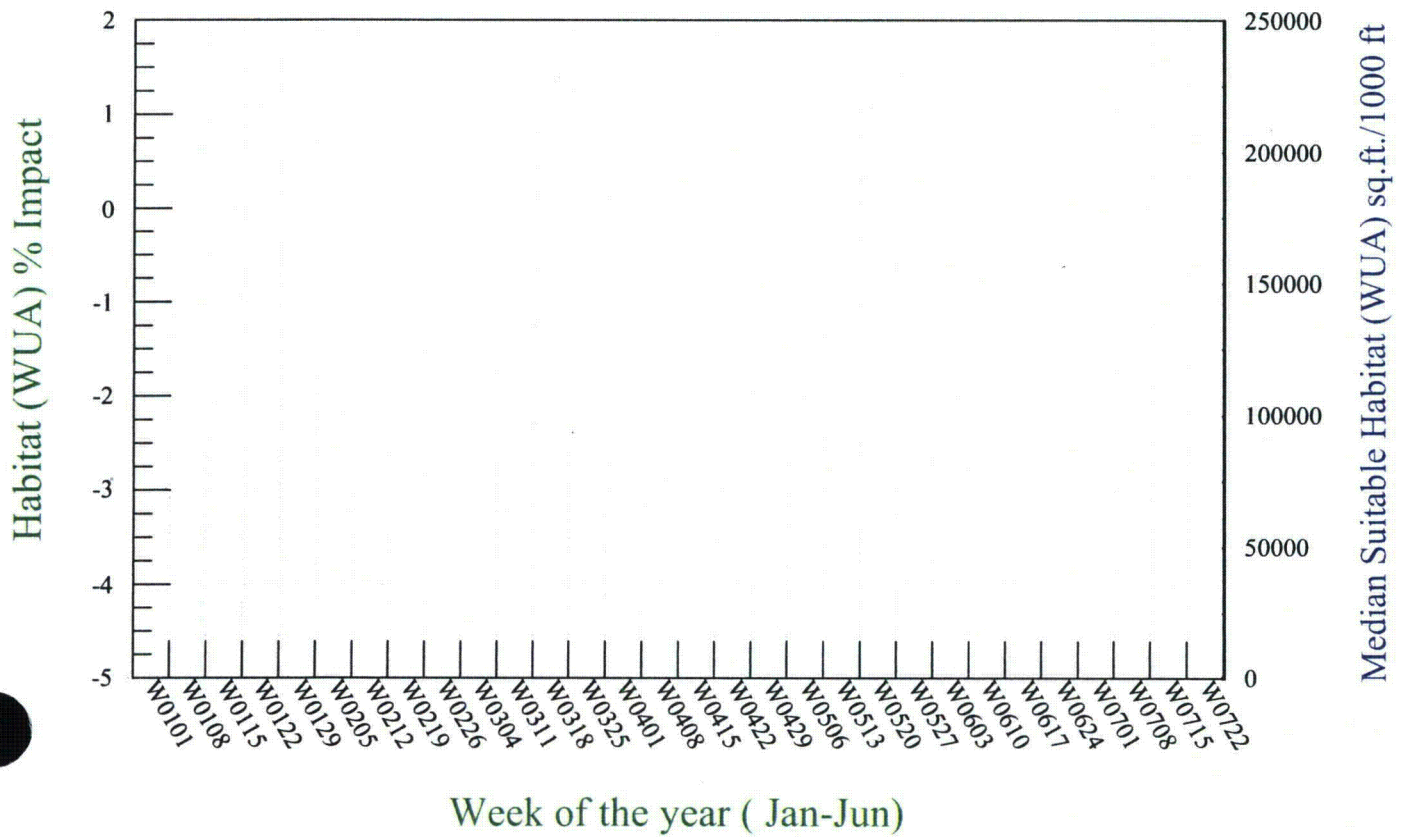
Northern Hog Sucker Spawning CU "A" Impacts by Week 1900-2010



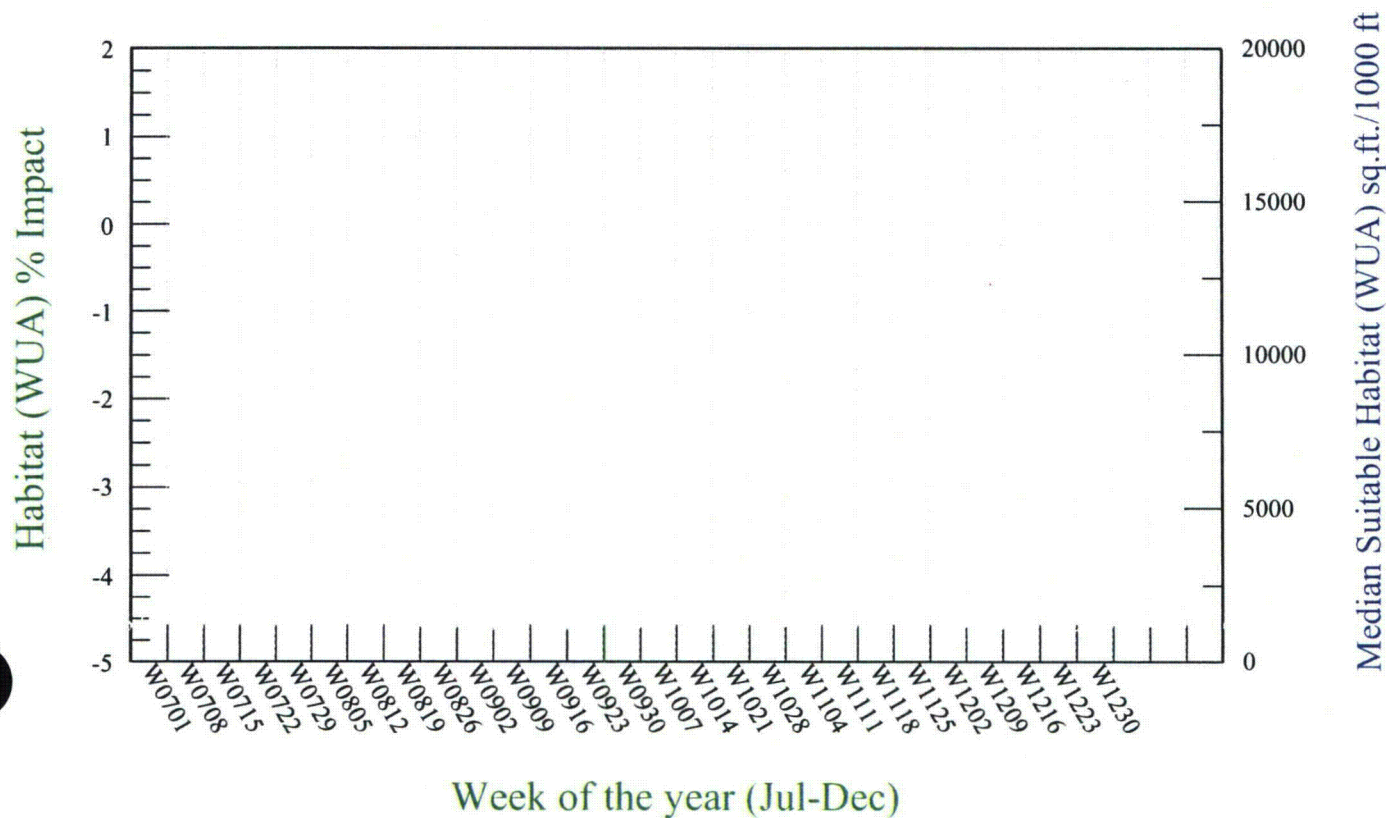
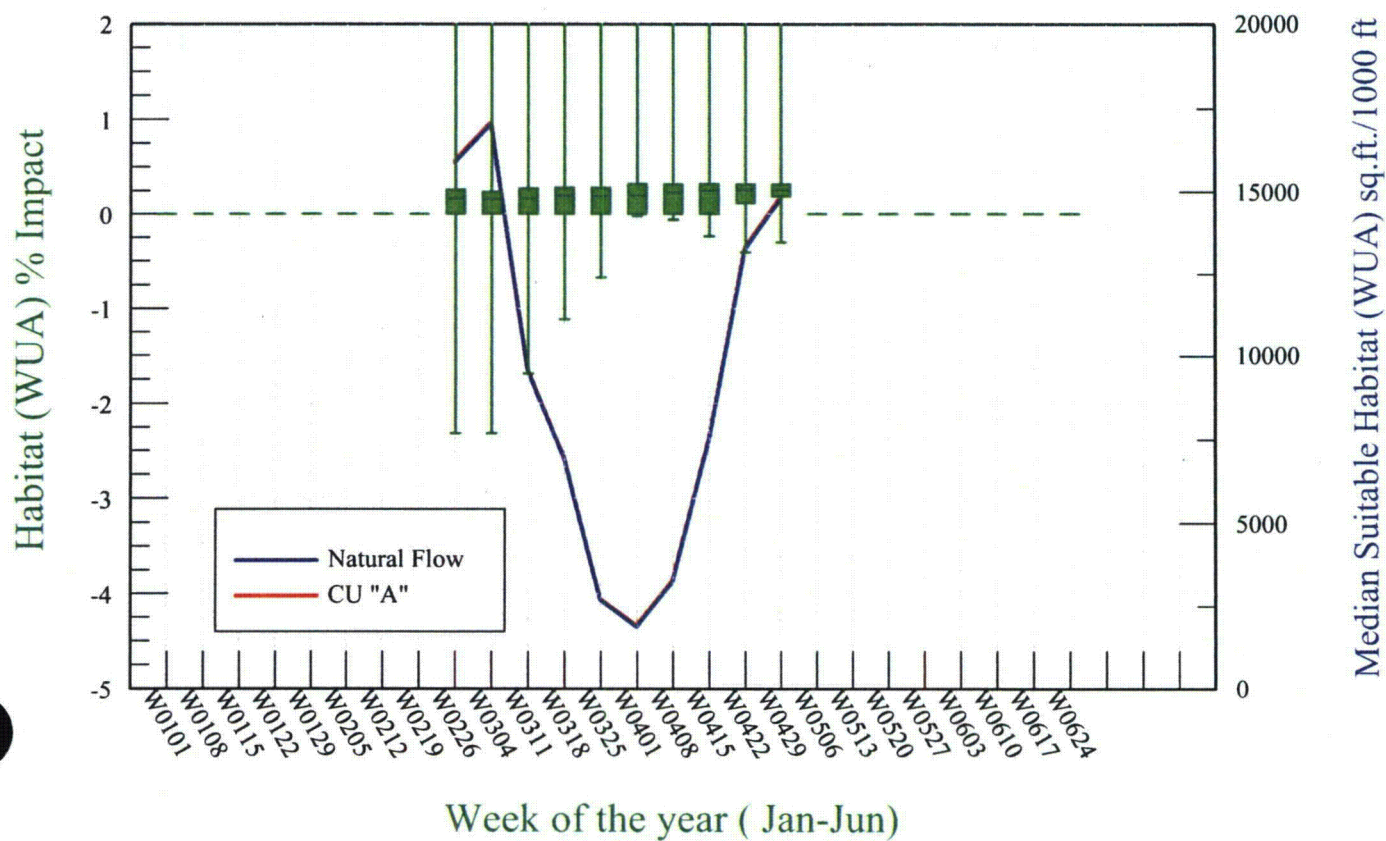
Shorthead Redhorse Adult CU "A" Impacts by Week 1900-2010



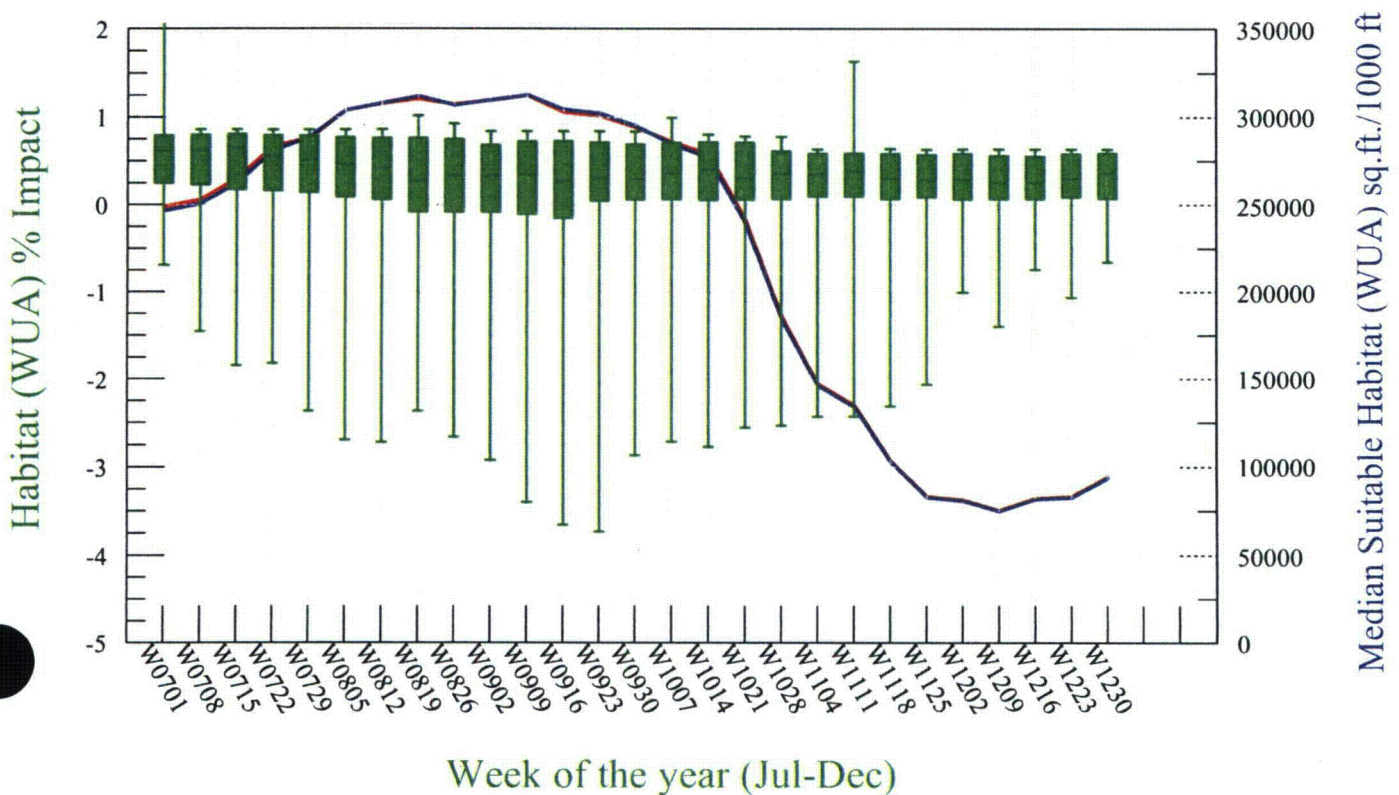
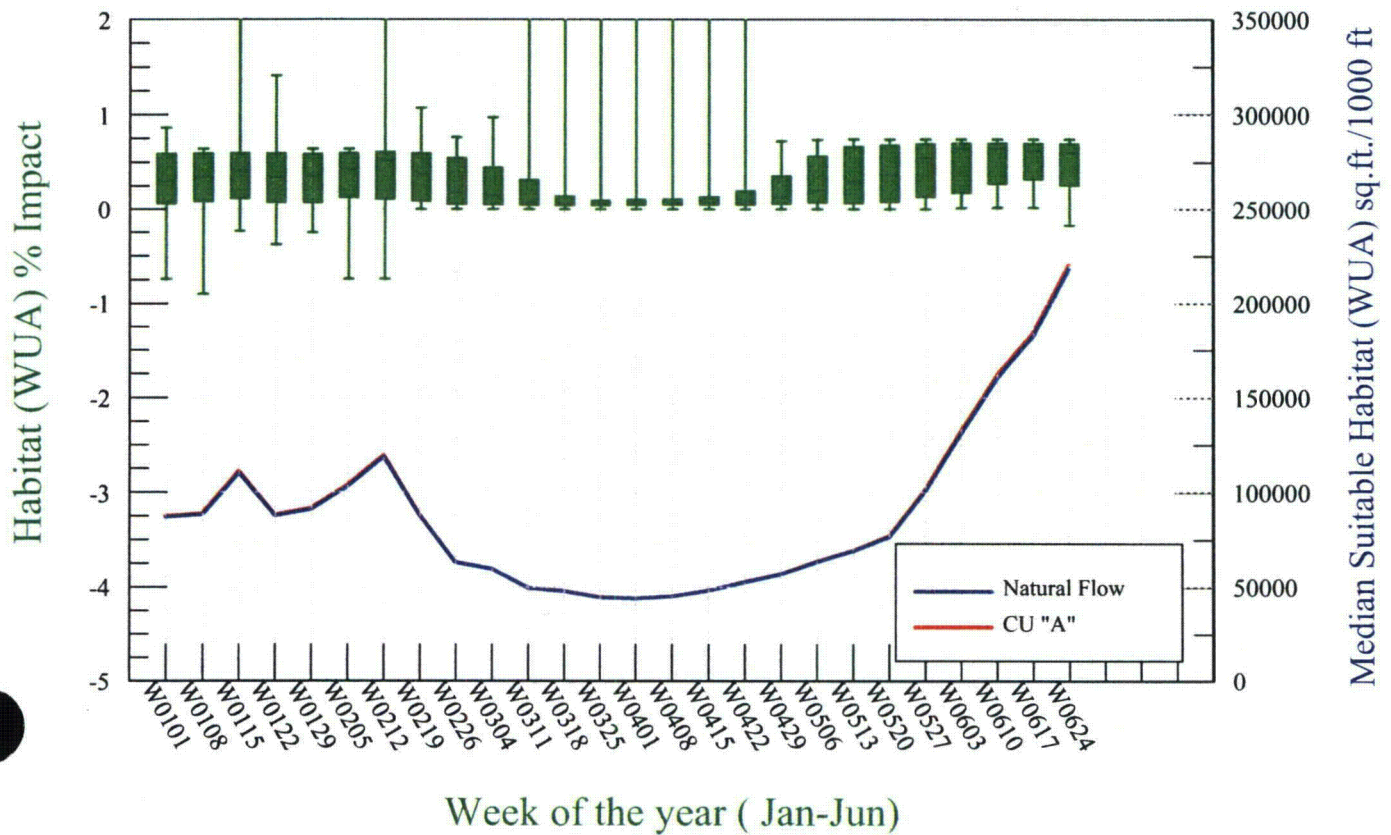
Shorthead Redhorse Juvenile CU "A" Impacts by Week 1900-2010



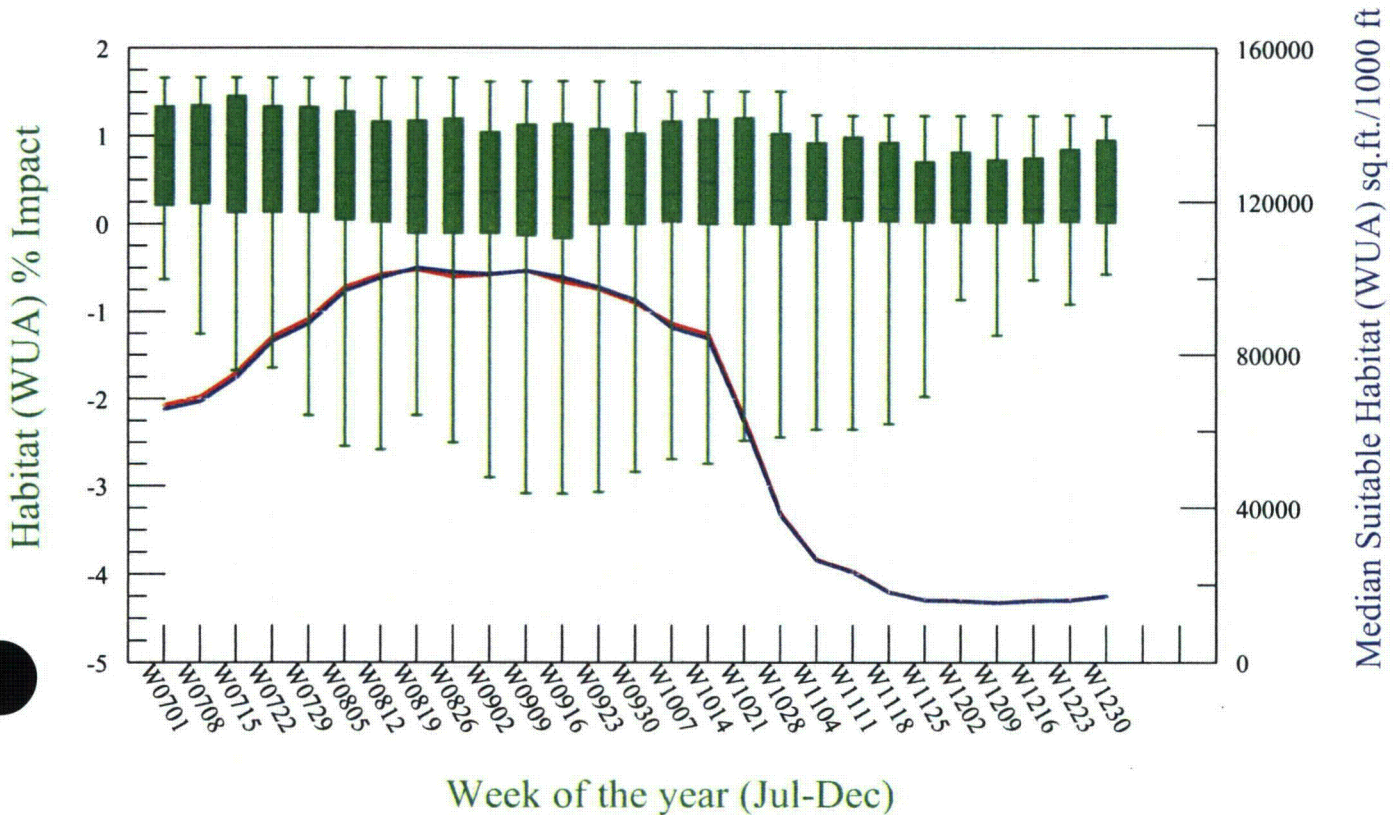
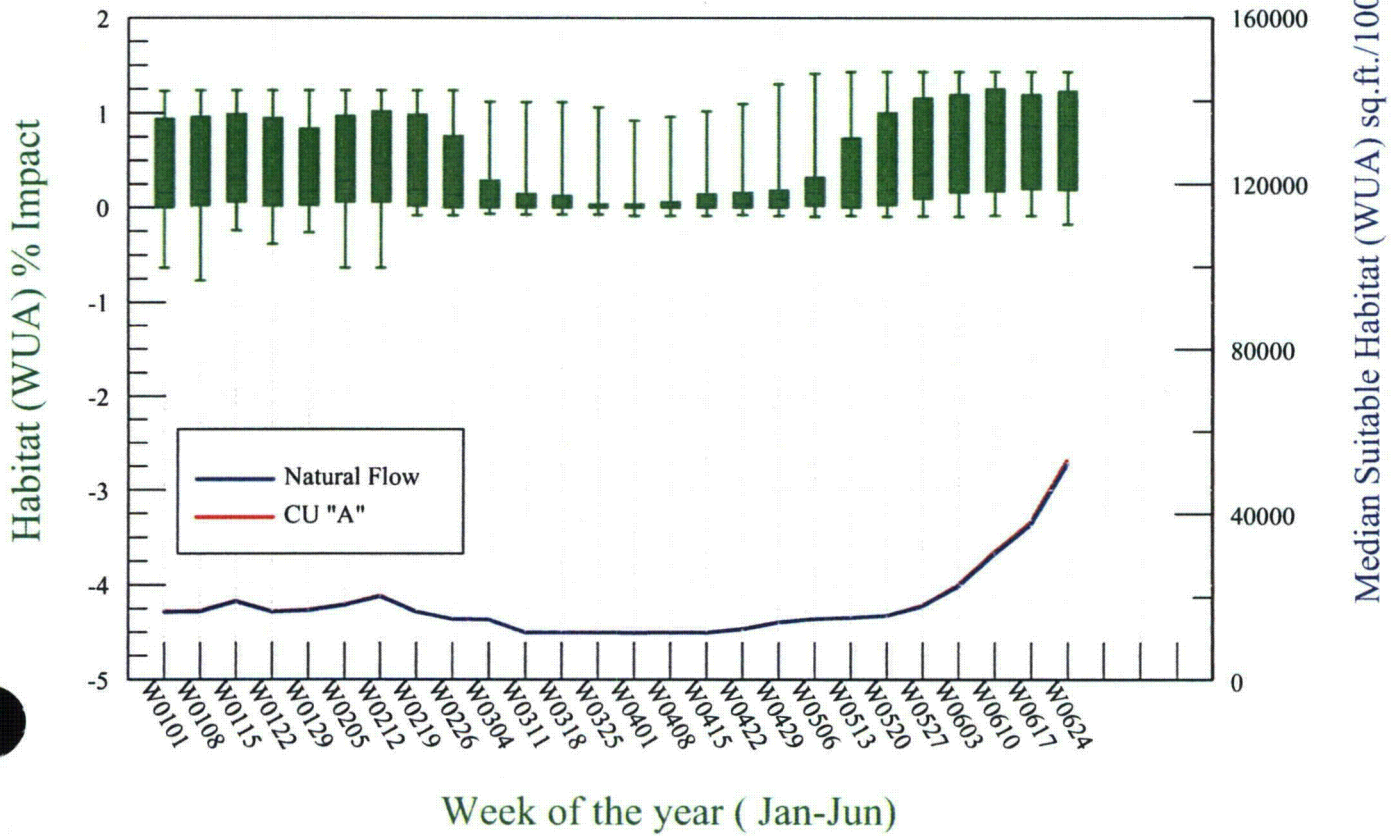
Shorthead Redhorse Spawning CU "A" Impacts by Week 1900-2010



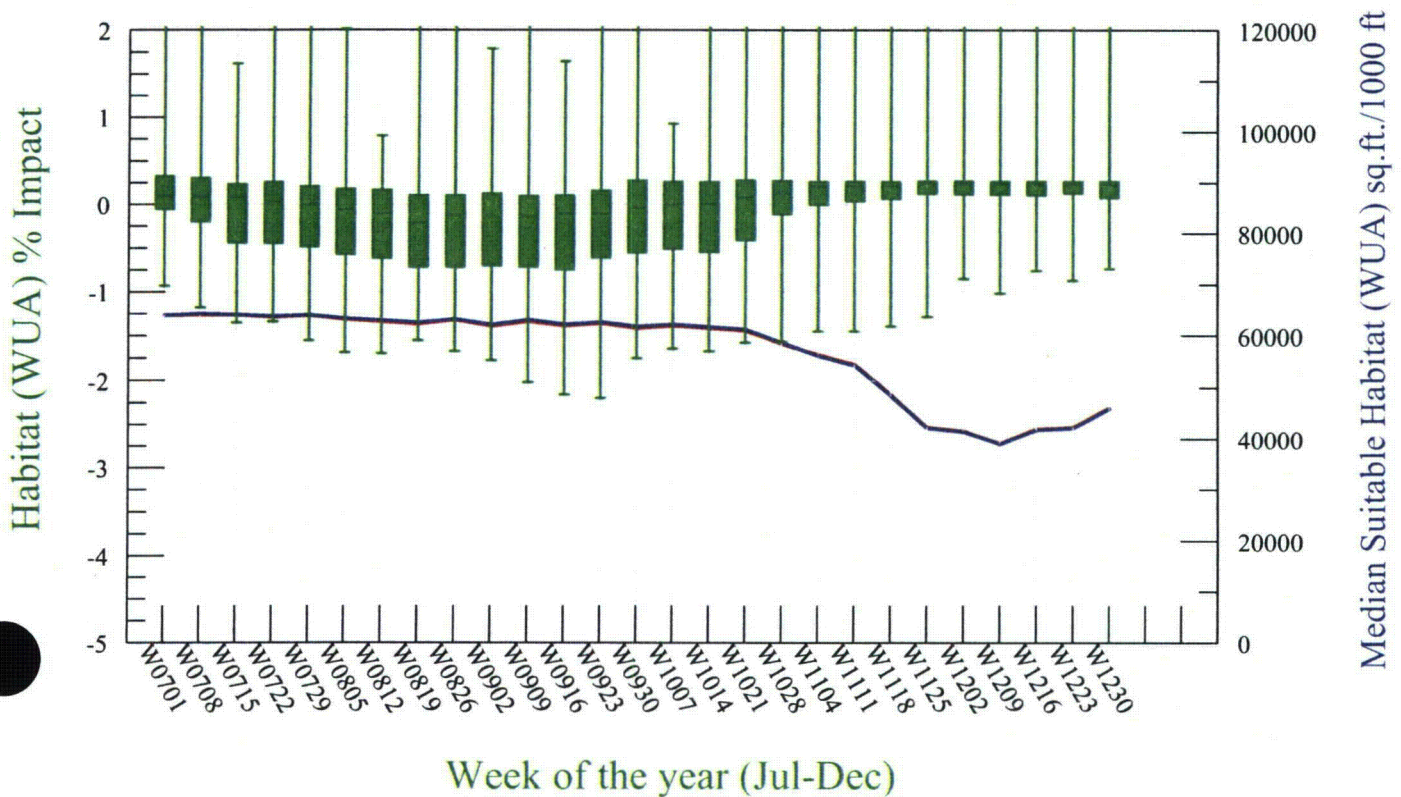
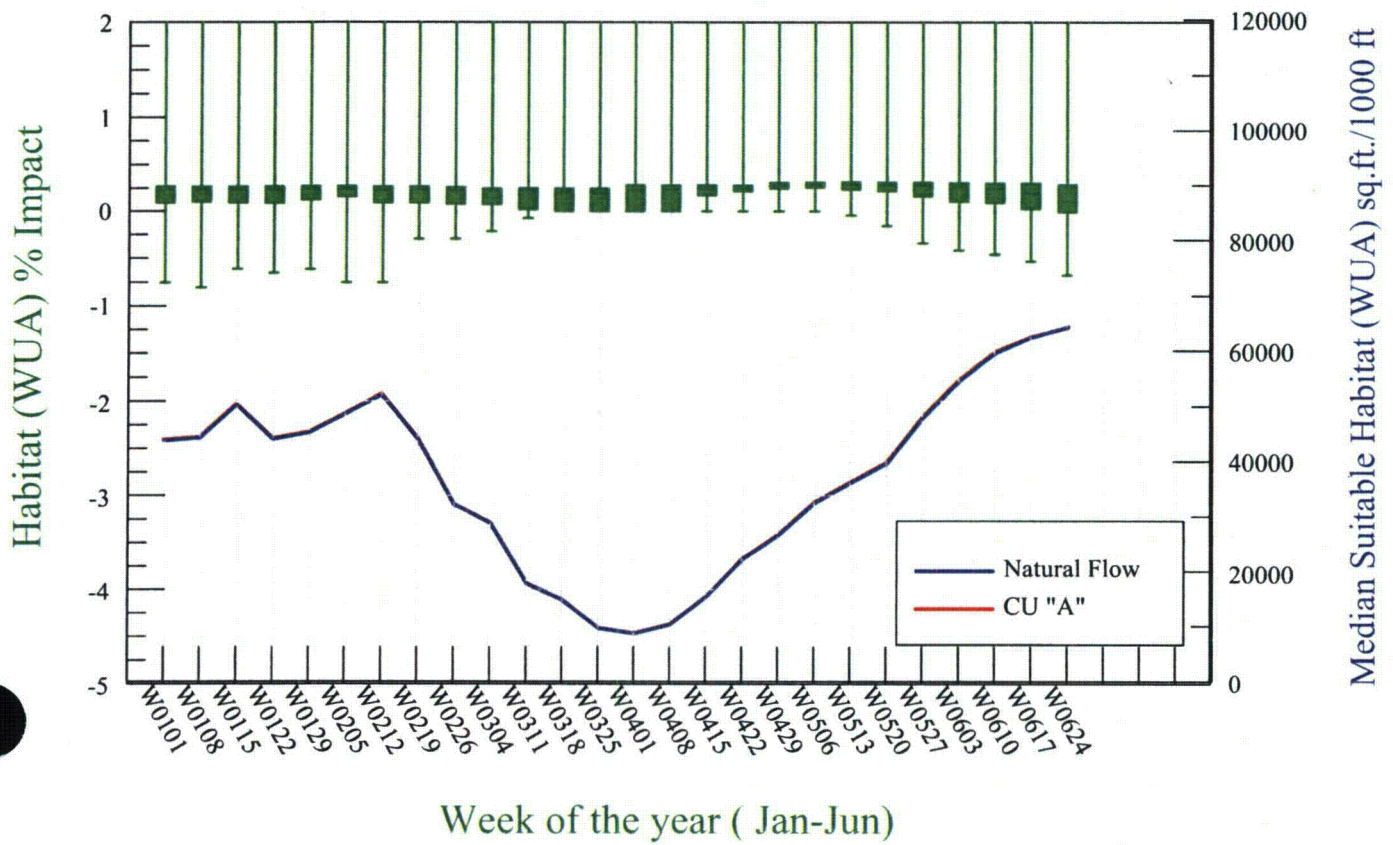
River Chub Adult/Juvenile CU "A" Impacts by Week 1900-2010



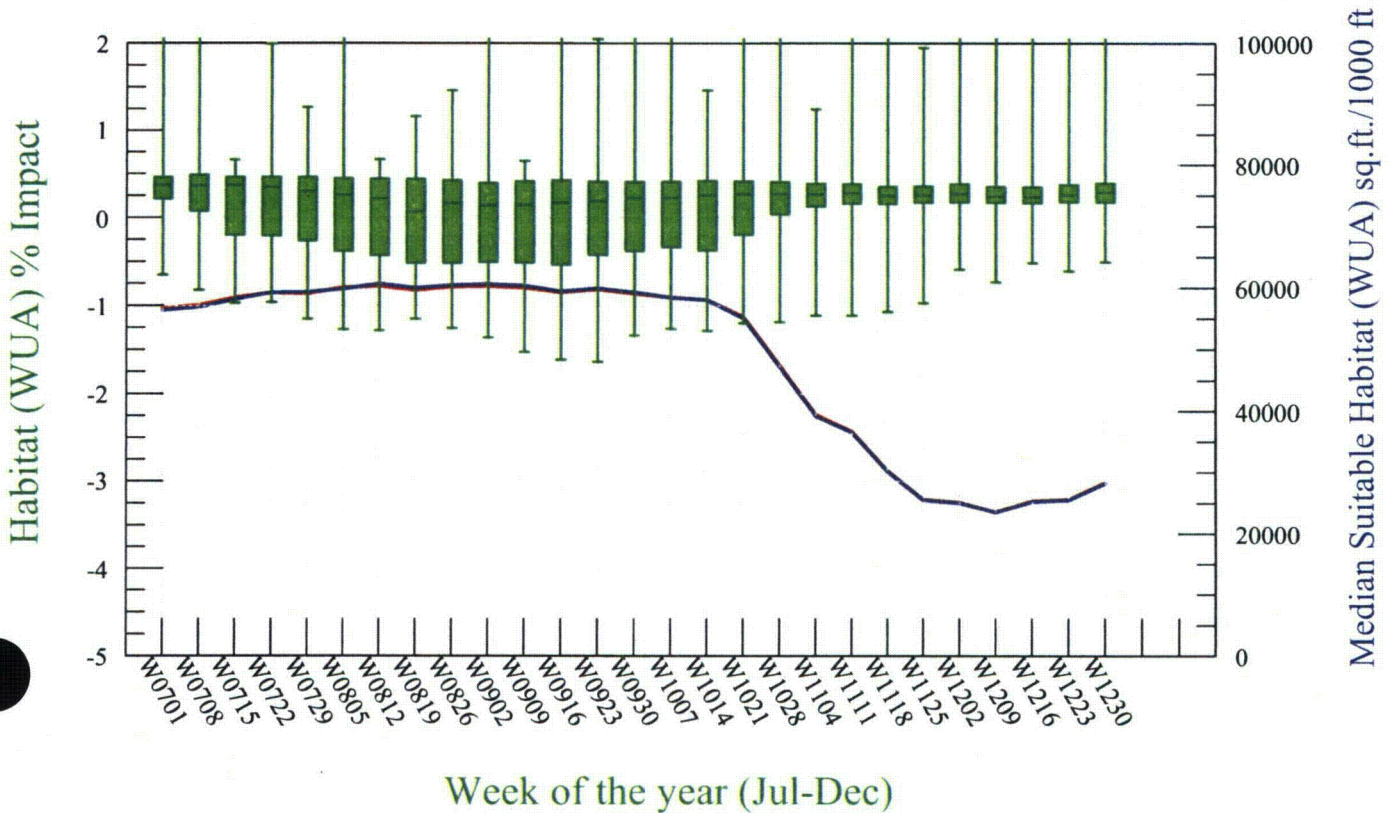
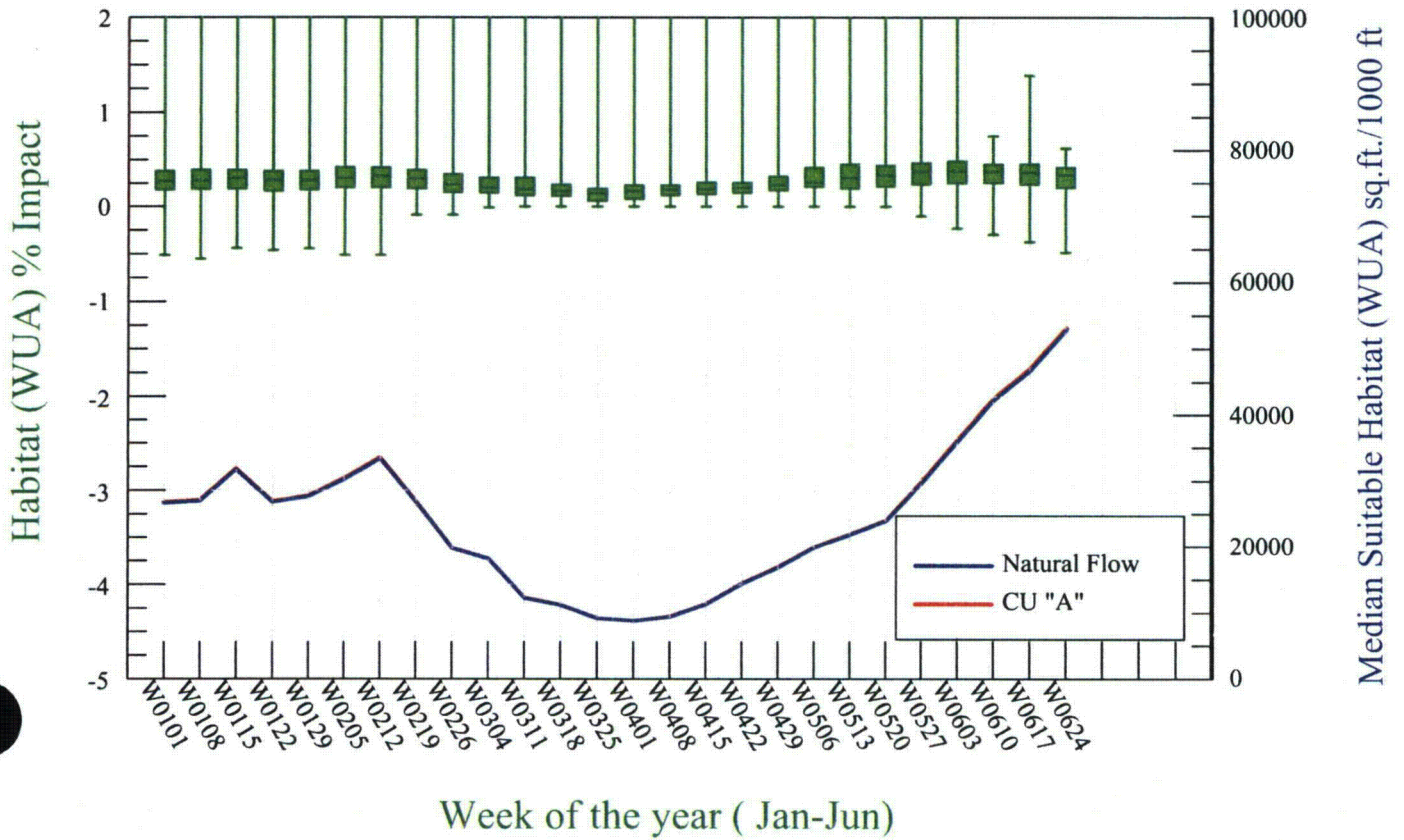
Tessellated Darter Adult/Juvenile CU "A" Impacts by Week 1900-2010



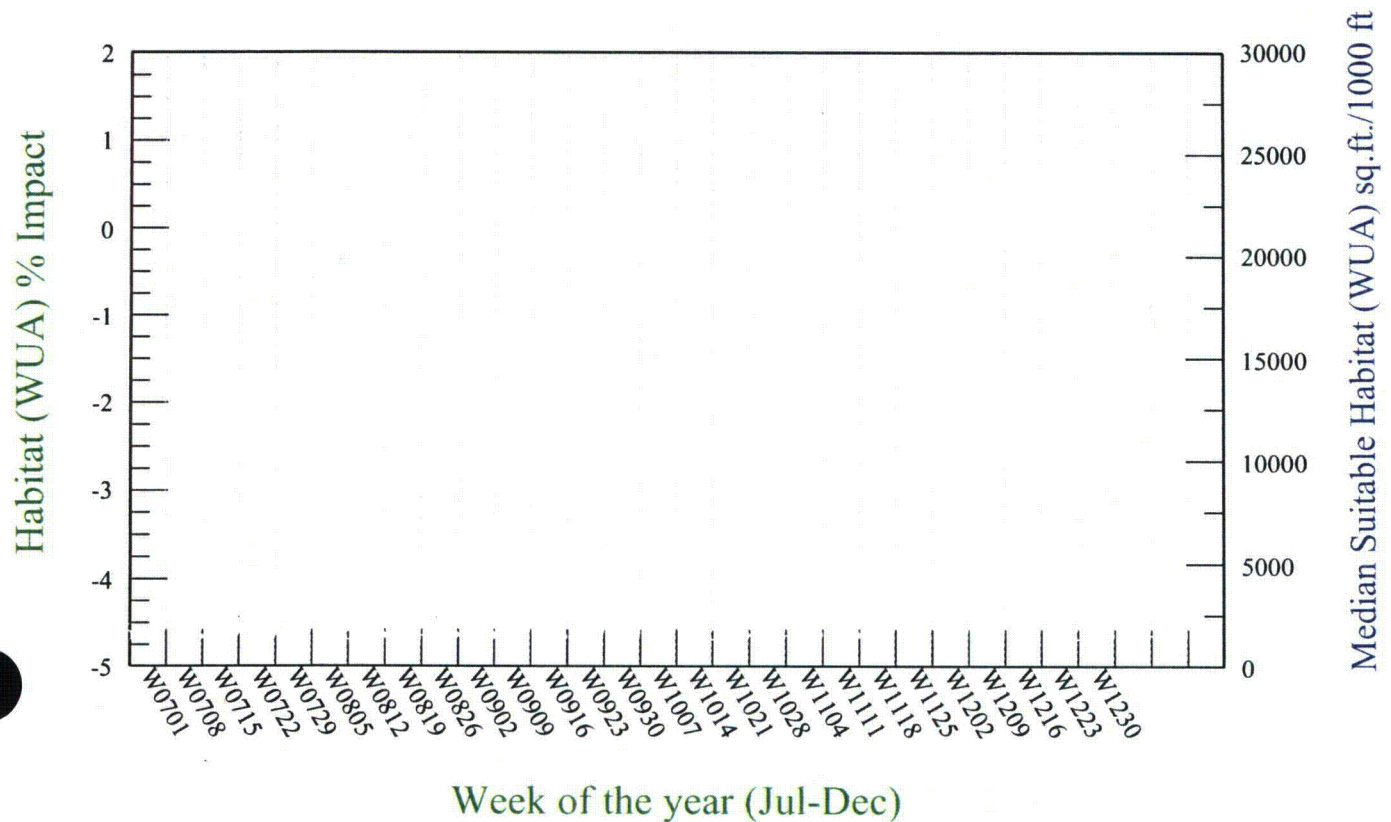
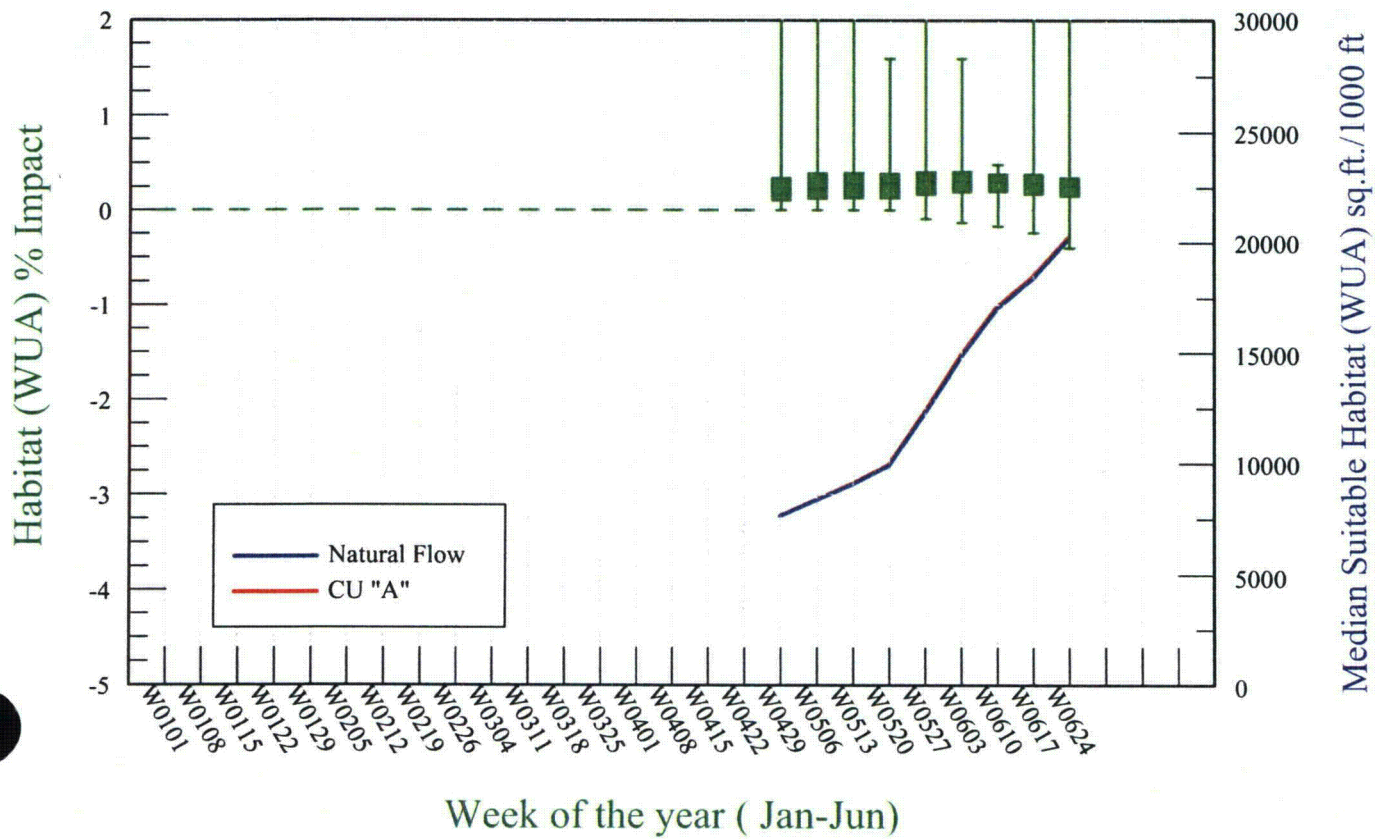
Banded Darter Adult CU "A" Impacts by Week 1900-2010



Banded Darter Juvenile CU "A" Impacts by Week 1900-2010



Banded Darter Spawning CU "A" Impacts by Week 1900-2010



REPORT FOR PPL BELL BEND, LLC

Appendix 2-F

Comparison of the River2D WUA/Discharge Curves with the PHABSIM 1D WUA/Discharge Curves

Proposed Bell Bend Nuclear Power Plant Site, Luzerne County,
Pennsylvania

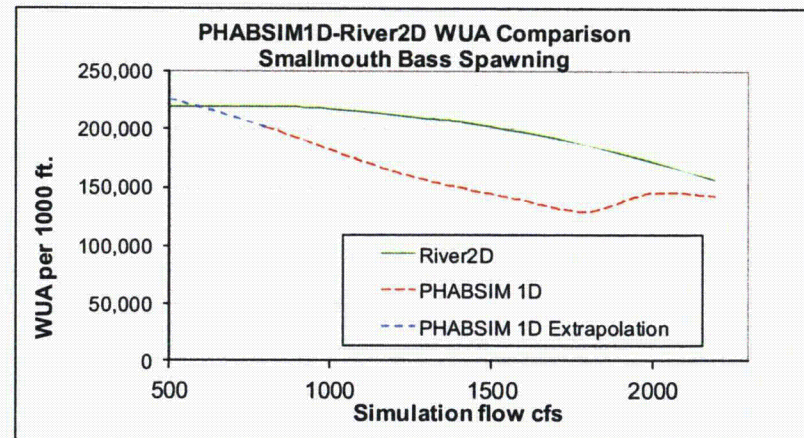
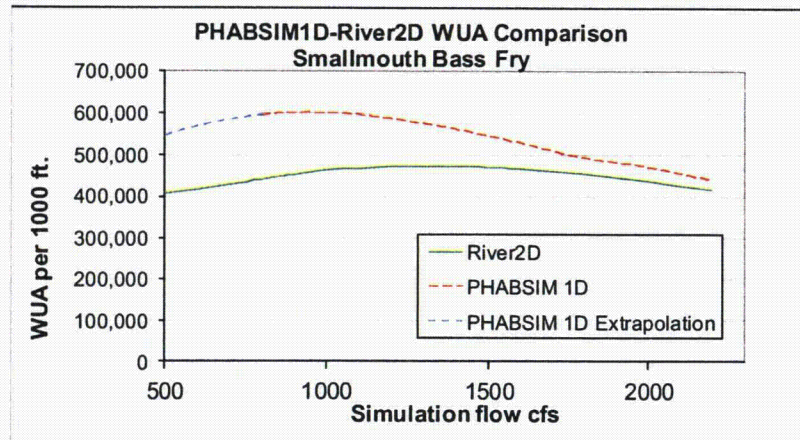
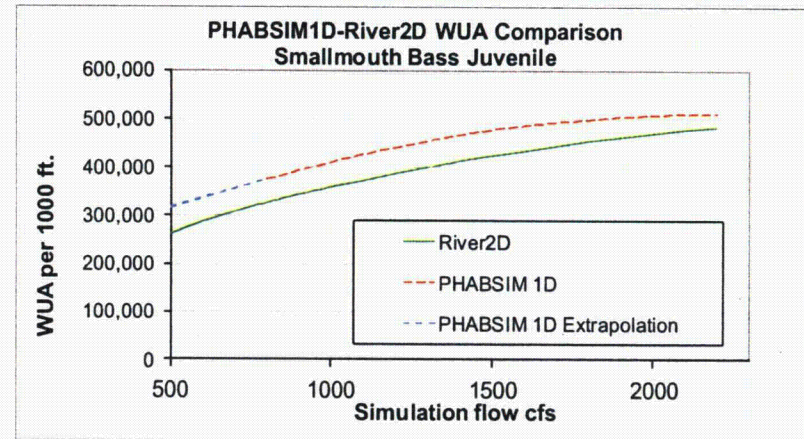
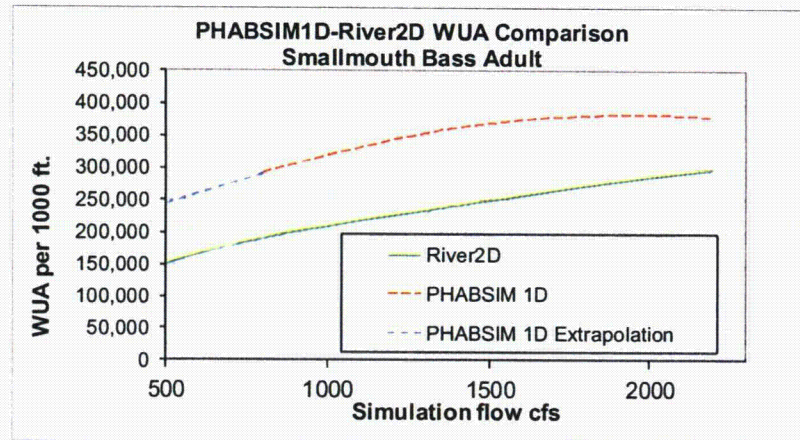
Normandeau Associates, Inc.

Appendix A. Bell Bend Project River2D Habitat Modeling Study

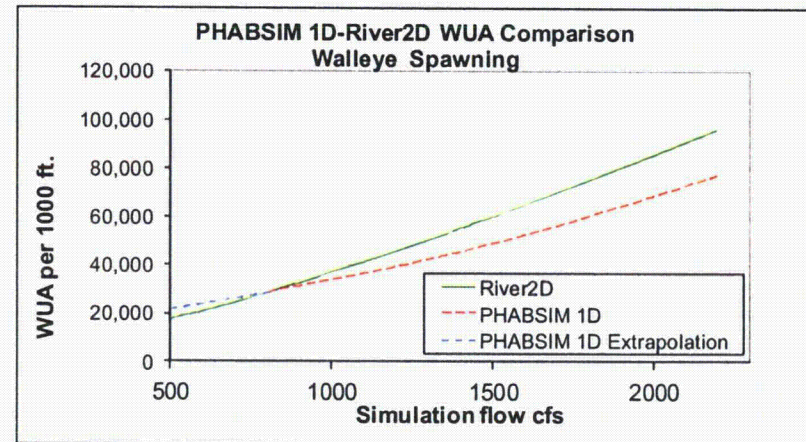
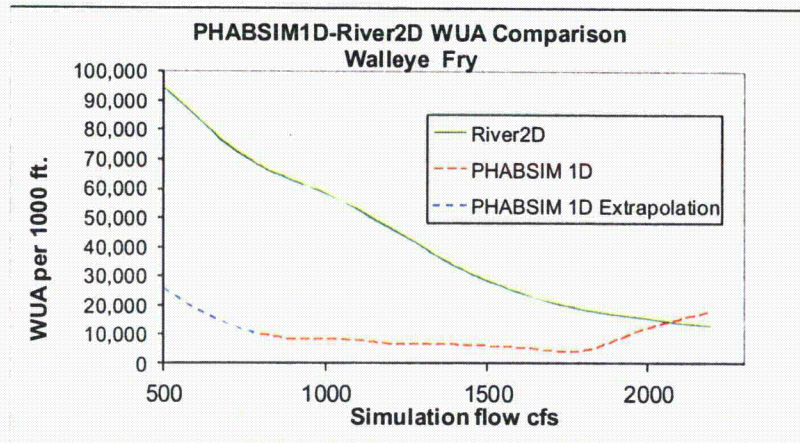
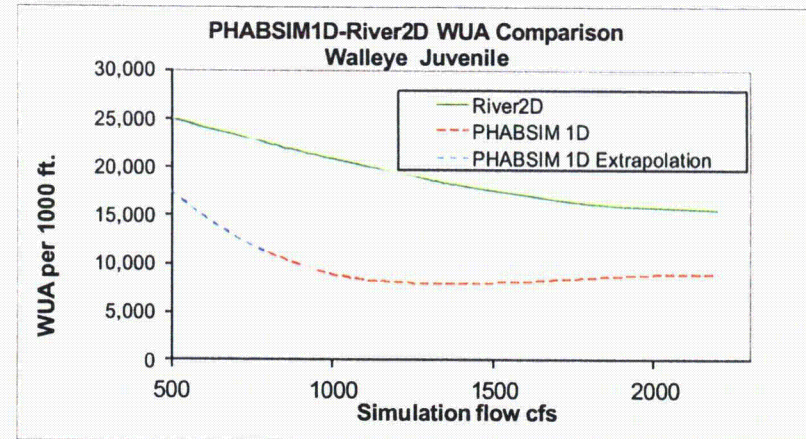
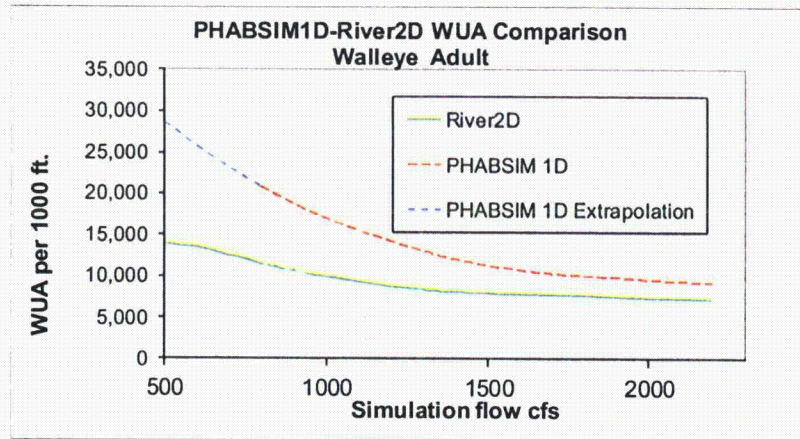
Appendix A. Bell Bend Project River2D Habitat Modeling Study

These graphs compare the fish habitat results of the River2D and PHABSIM 1D over the range of flows from 500 cfs to 2200 cfs. The River2D model simulated flows down to 500 cfs, whereas the PHABSIM 1D model simulated flows to 800 cfs. The PHABSIM results below 800 cfs were extrapolated (quadratic extrapolation) for comparison to the River2D results.

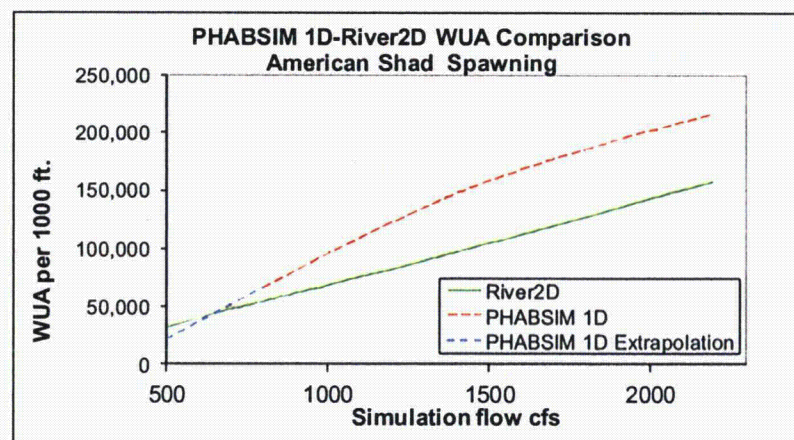
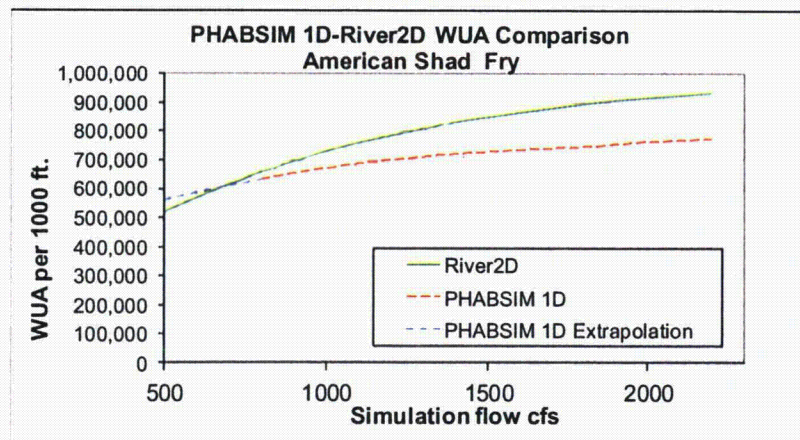
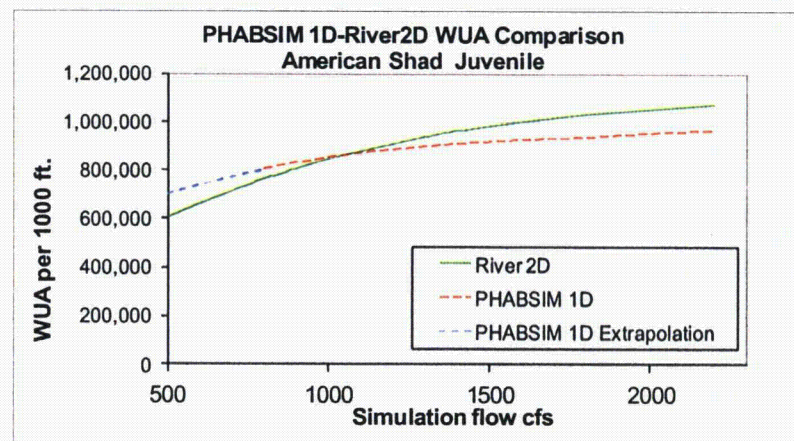
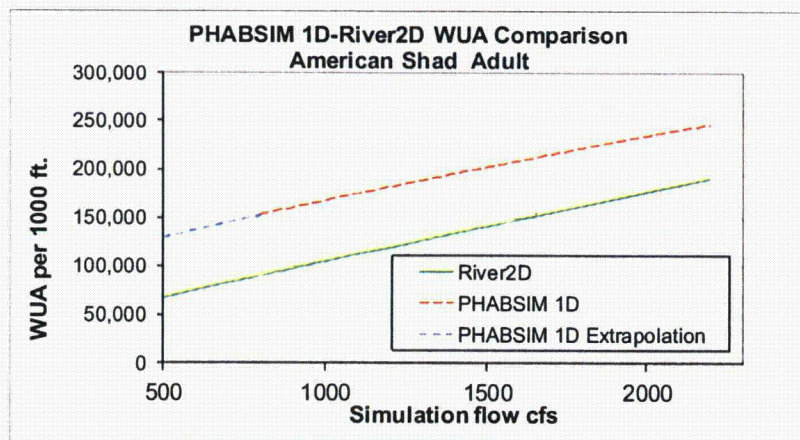
Appendix A. Bell Bend Project River2D Habitat Modeling Study



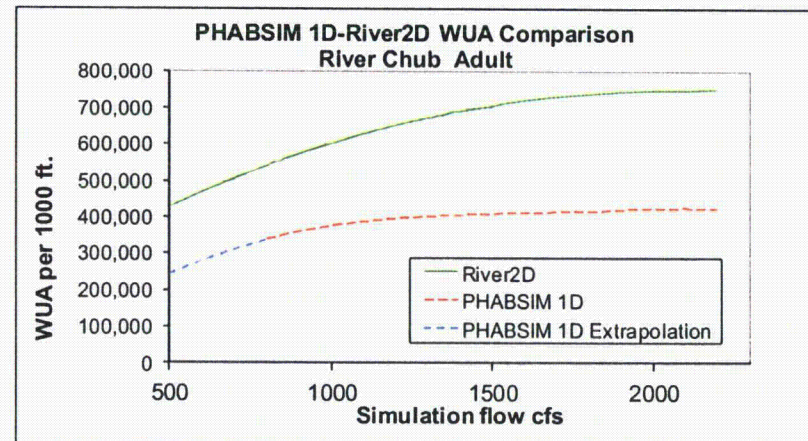
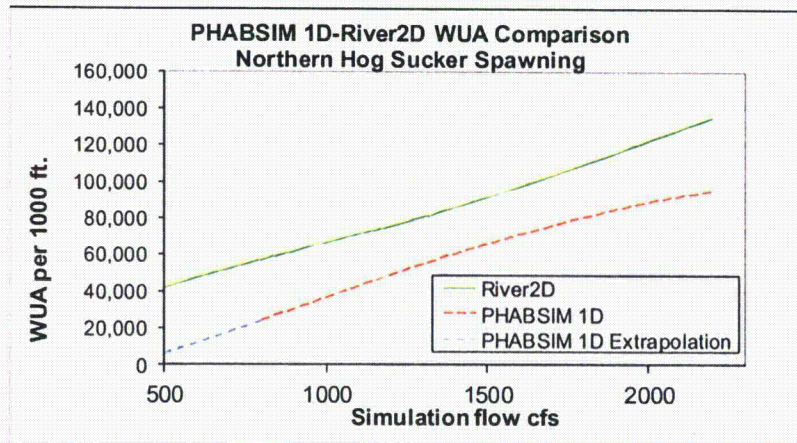
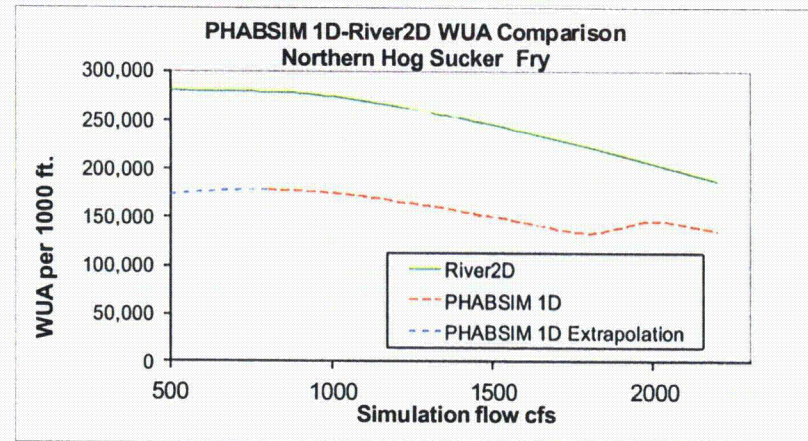
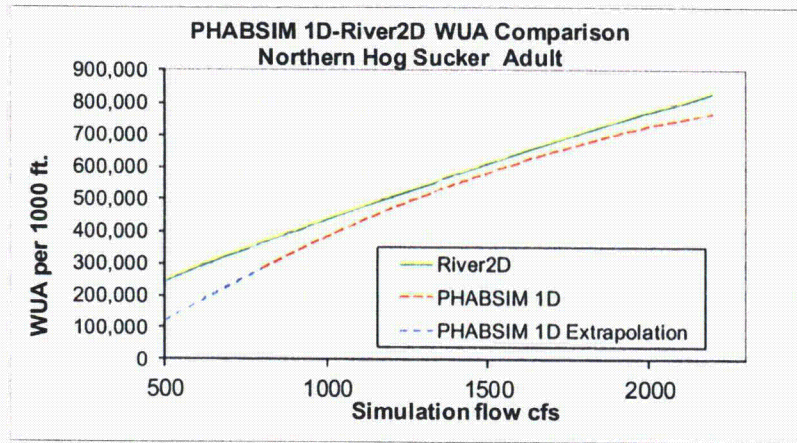
Appendix A. Bell Bend Project River2D Habitat Modeling Study



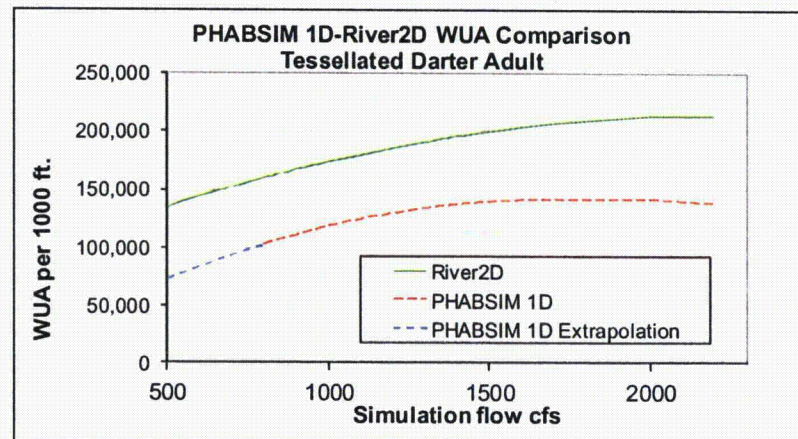
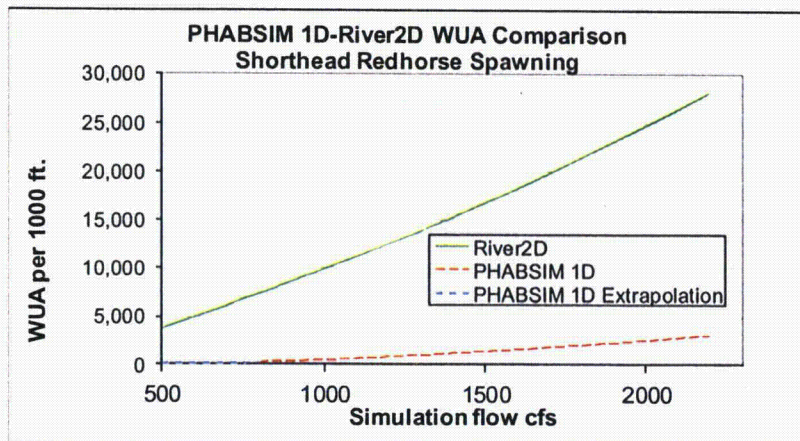
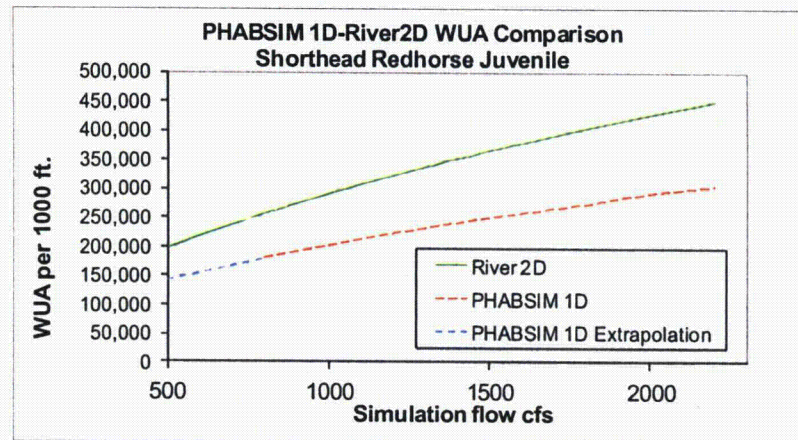
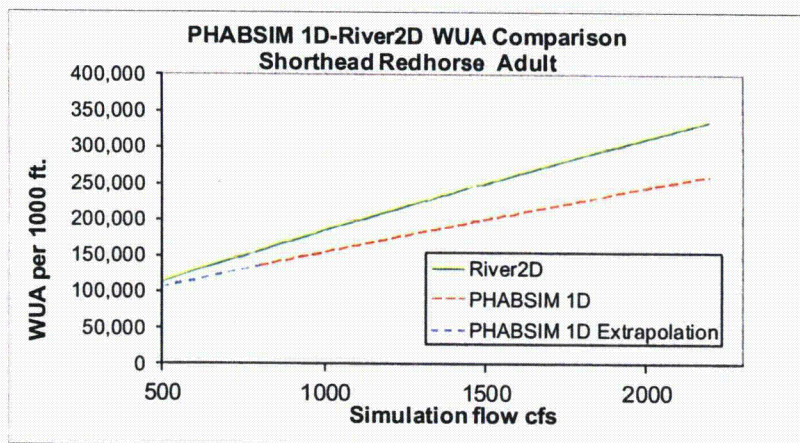
Appendix A. Bell Bend Project River2D Habitat Modeling Study



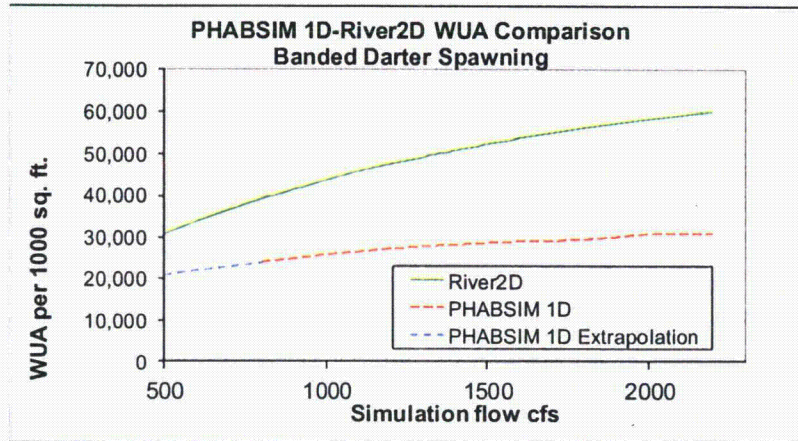
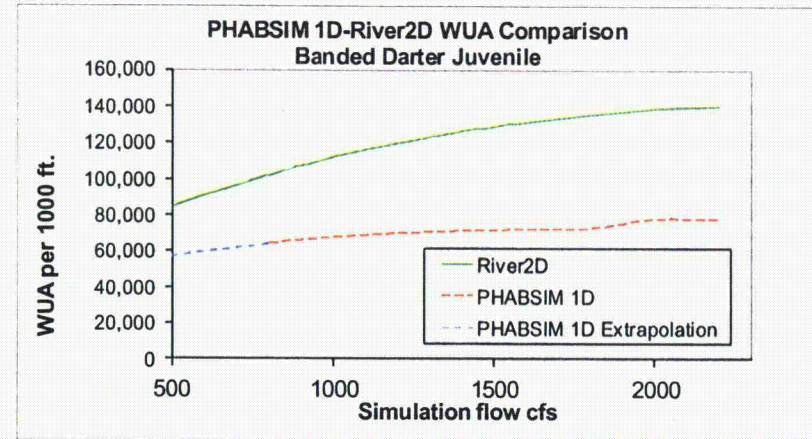
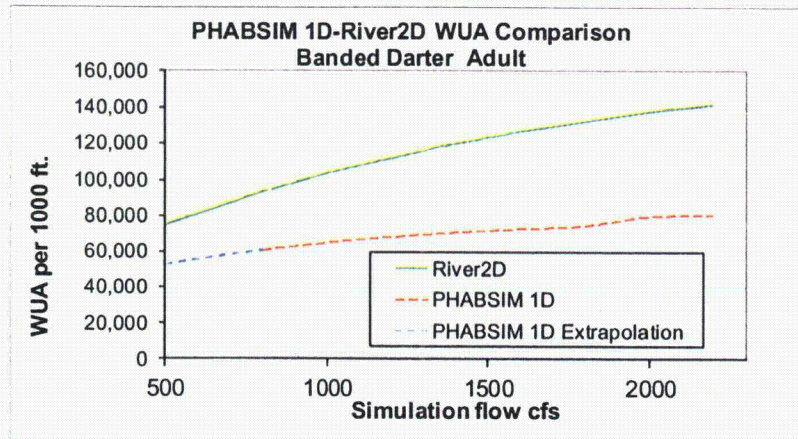
Appendix A. Bell Bend Project River2D Habitat Modeling Study



Appendix A. Bell Bend Project River2D Habitat Modeling Study



Appendix A. Bell Bend Project River2D Habitat Modeling Study



**APPENDIX 2-F. 1D AND 2D MODEL WUA AND FLOW CURVE
COMPARISON**

APPENDIX 2-G. WETTED PERIMETER FIGURES

Shoreline at 800 cfs



Shoreline at 843 cfs



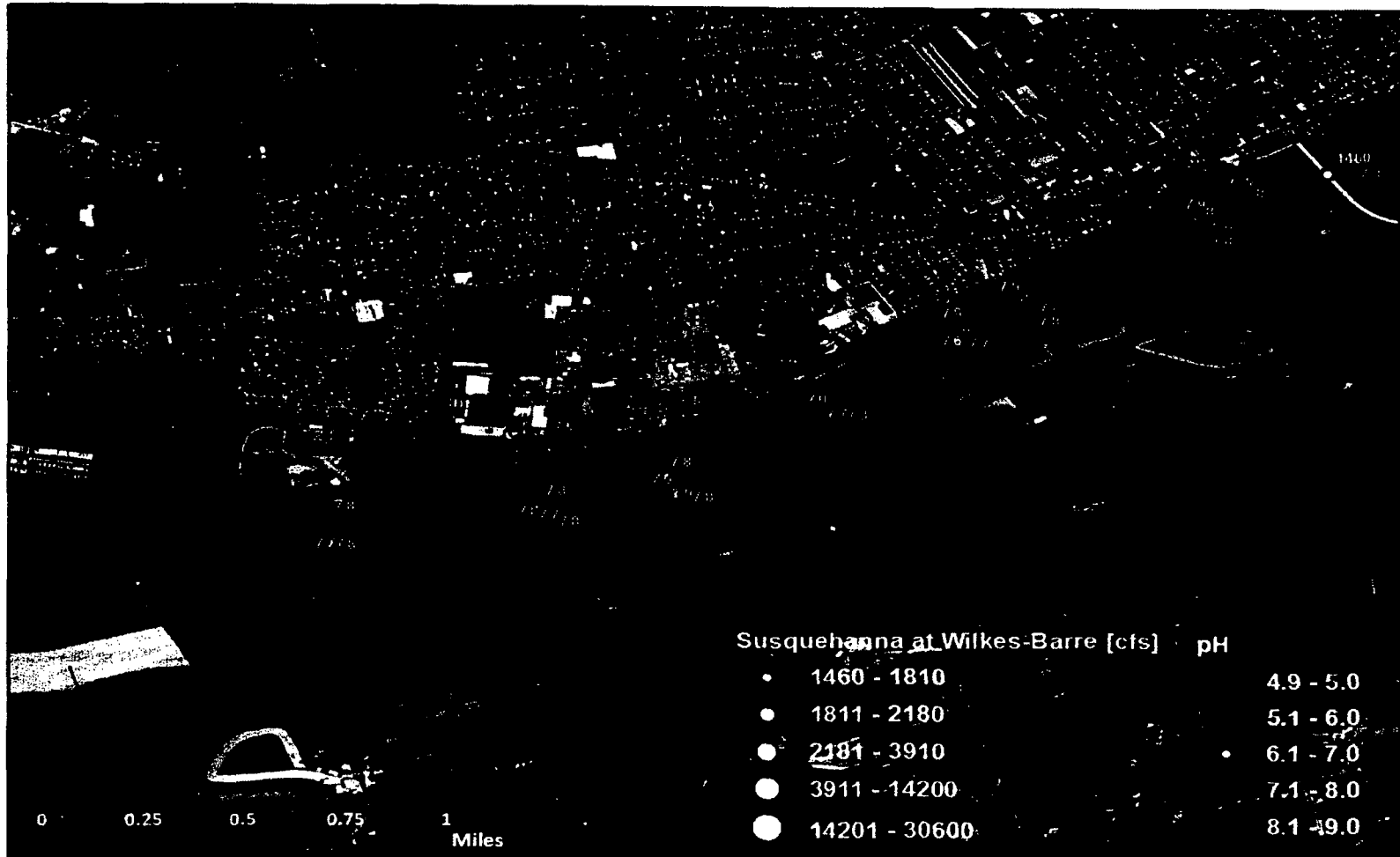
Wetted Perimeter Increments

Flow (ft ³ /s)	Total wetted area (ft ²)	% Change in area from previous flow
2200	6,242,263	
2000	6,184,481	-0.93
1800	6,115,085	-1.12
1600	6,035,202	-1.31
1400	5,937,338	-1.62
1300	5,873,869	-1.07
1200	5,805,258	-1.17
1100	5,731,544	-1.27
1000	5,647,413	-1.47
900	5,544,777	-1.82
843	5,471,673	-1.32
800	5,417,783	-0.98
700	5,272,186	-2.69
600	5,113,521	-3.01
500	4,937,312	-3.45

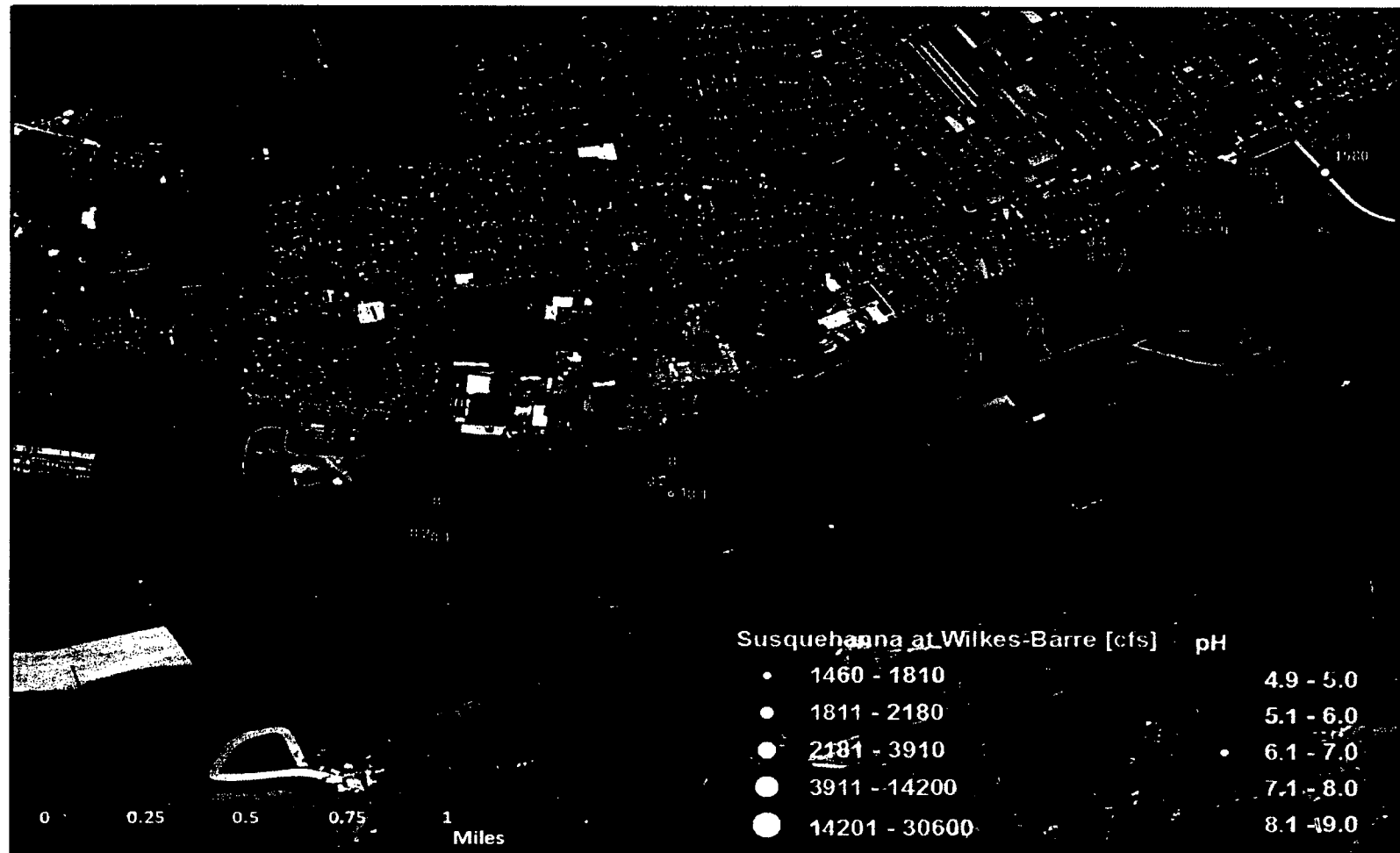
APPENDIX 3-SRWQS. SUSQUEHANNA RIVER WATER QUALITY SURVEYS

APPENDIX SRWQS. SUSQUEHANNA RIVER WATER QUALITY SURVEYS

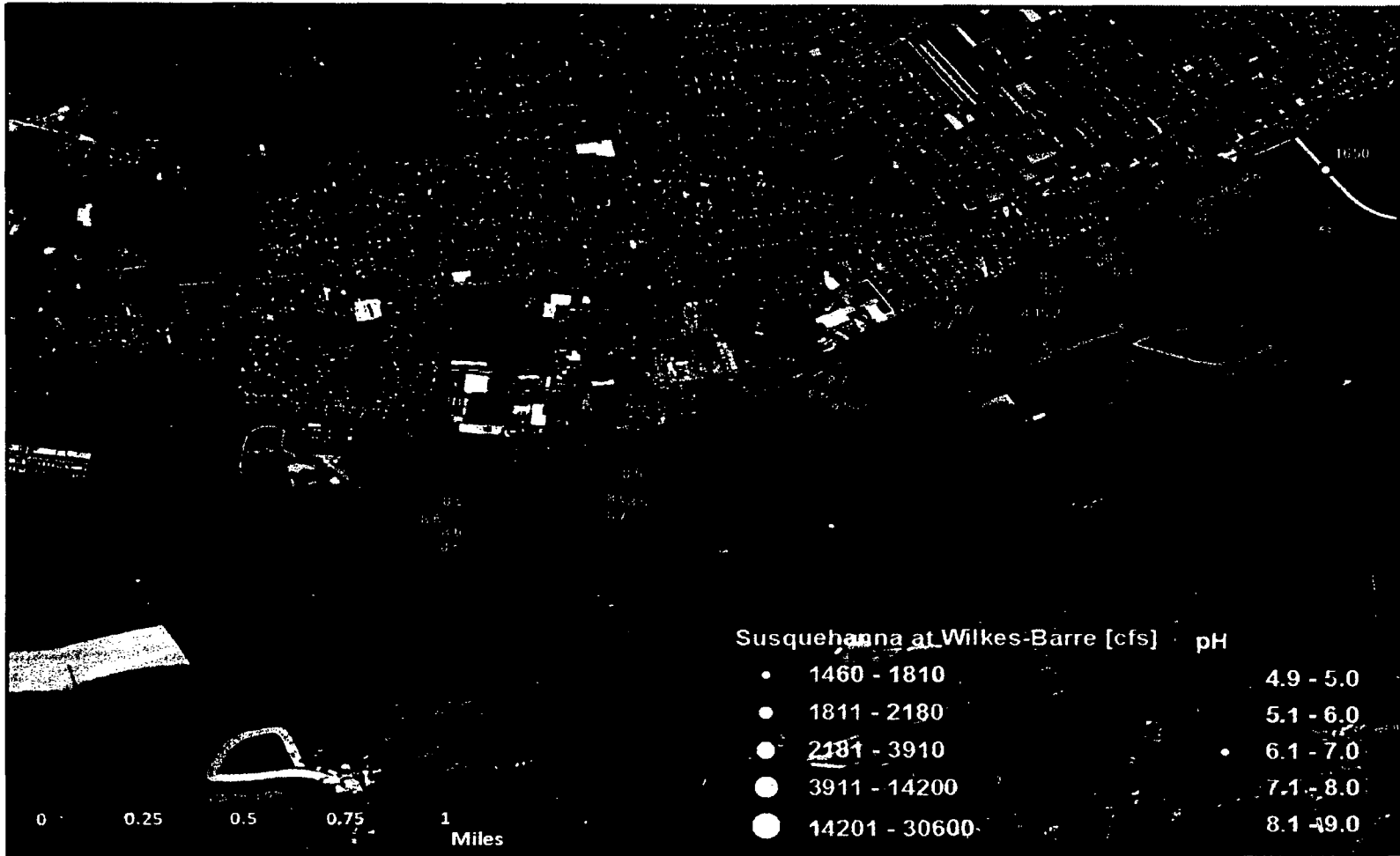
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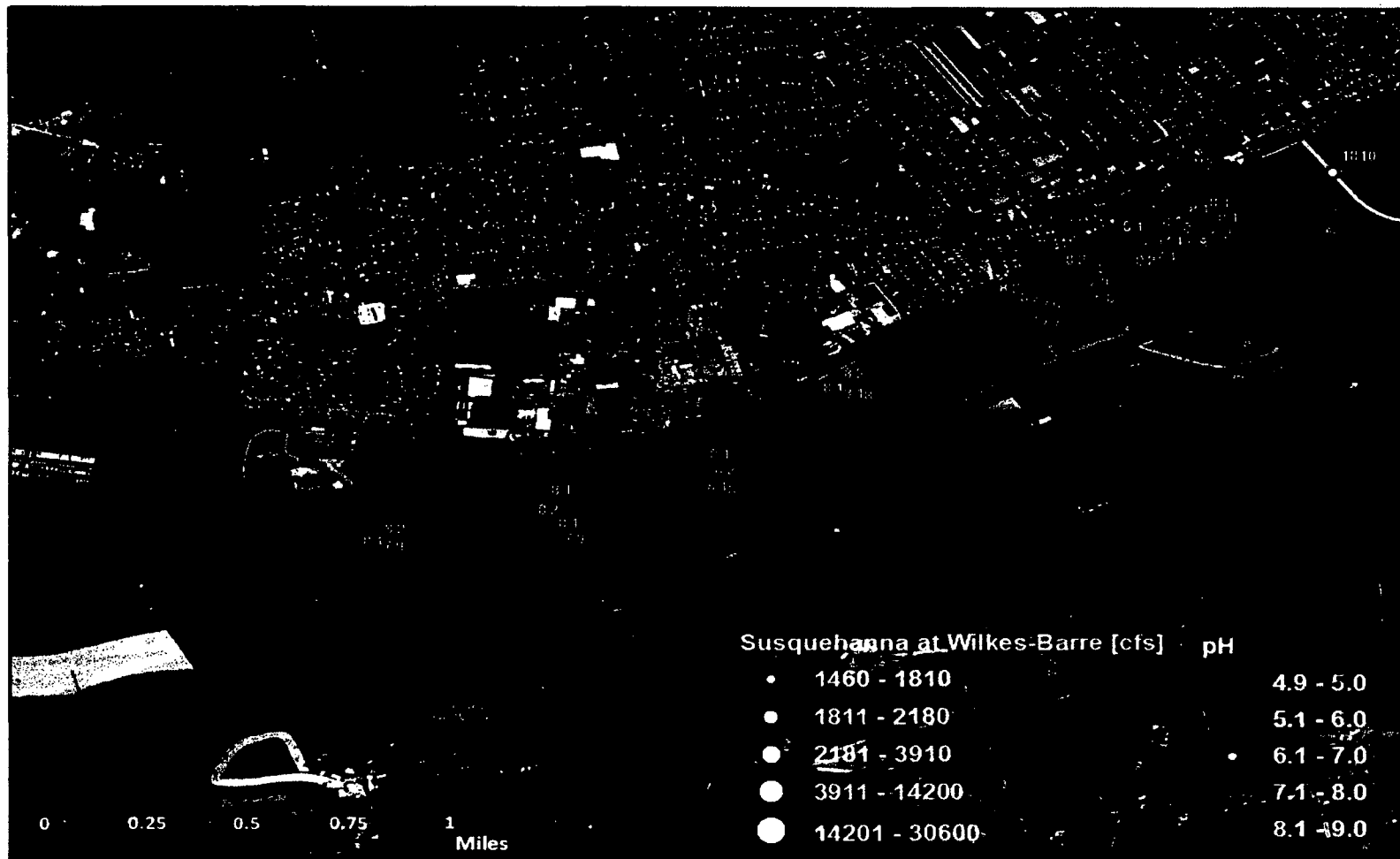
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2010-08-06



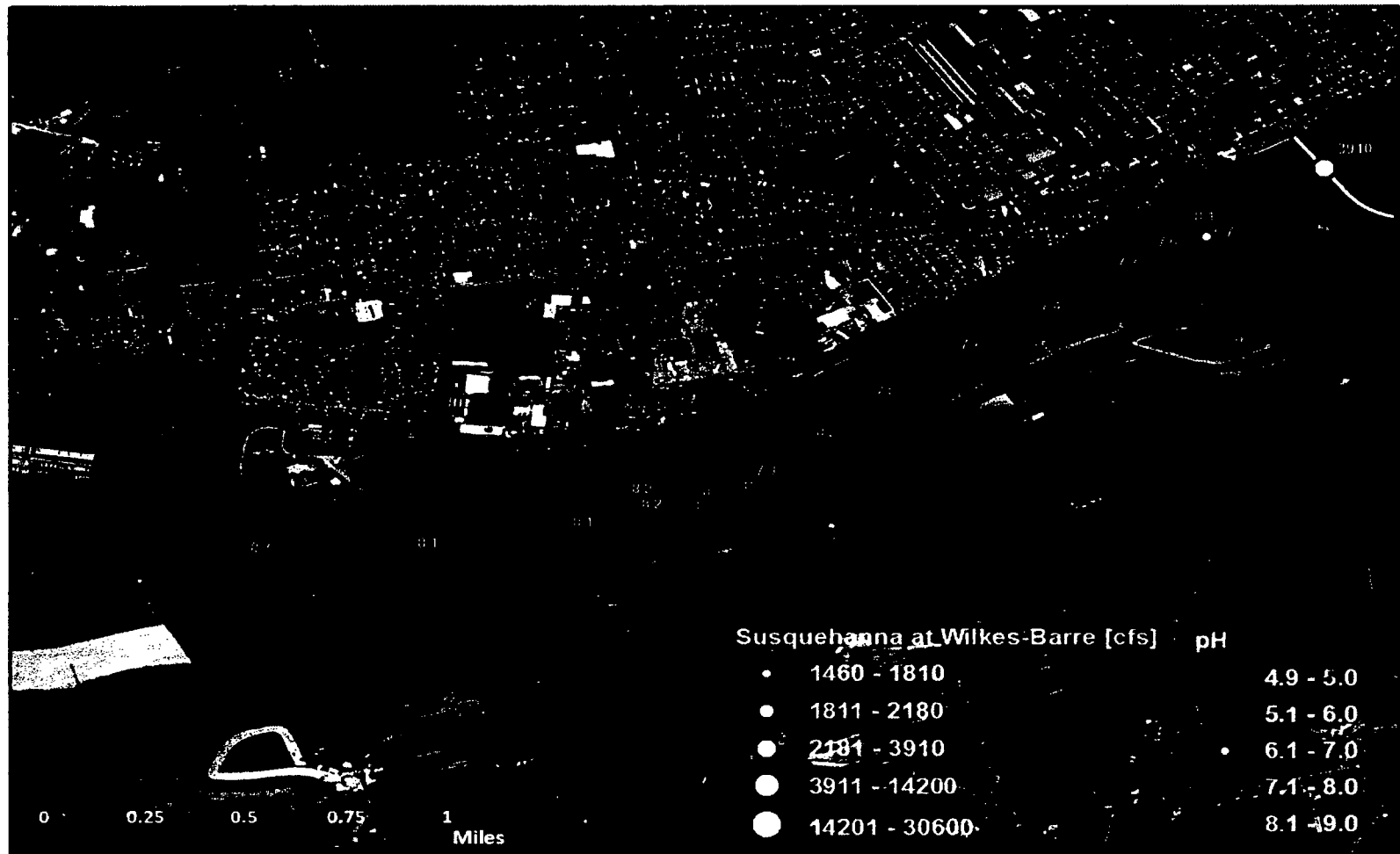
0 0.25 0.5 0.75 1 Miles

Susquehanna at Wilkes-Barre [cfs] pH

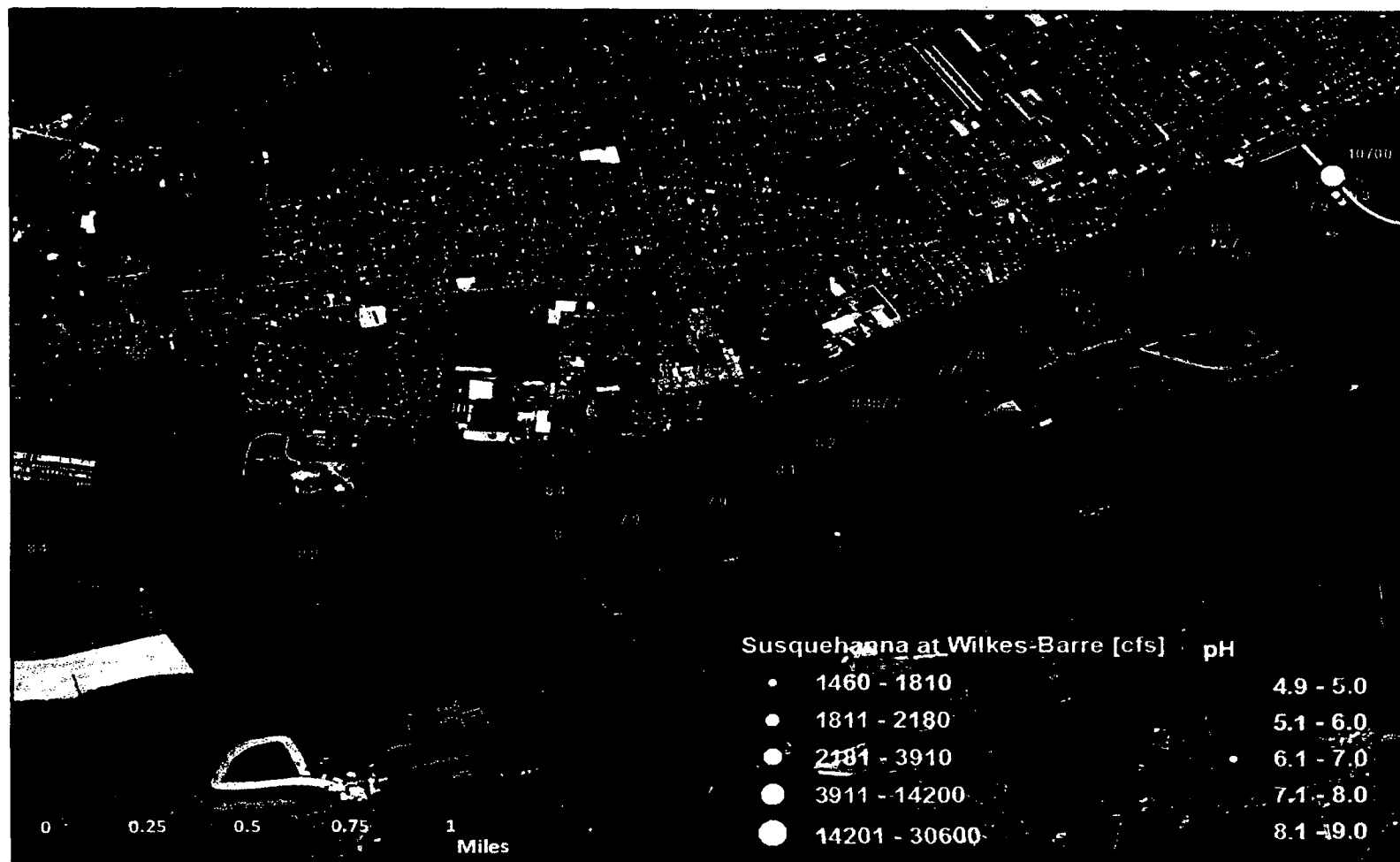
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- 1811 - 2180 5.1 - 6.0
- 2181 - 3910 6.1 - 7.0
- 3911 - 14200 7.1 - 8.0
- 14201 - 30600 8.1 - 9.0

- 1460 - 1810 4.9 - 5.0
- 1811 - 2180 5.1 - 6.0
- ~~2181~~ 2181 - 3910 6.1 - 7.0
- 3911 - 14200 7.1 - 8.0
- 14201 - 30600 8.1 - 9.0

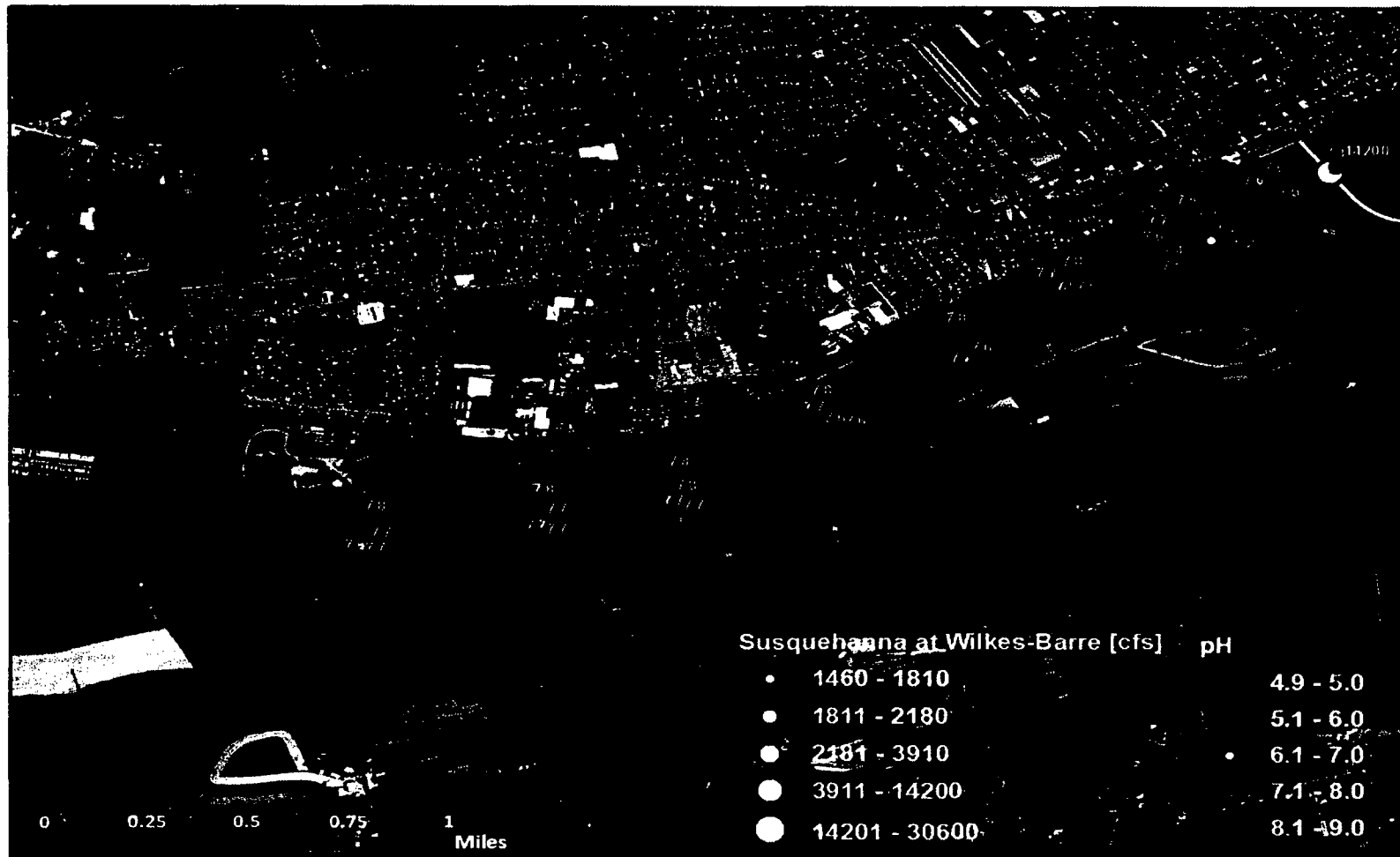
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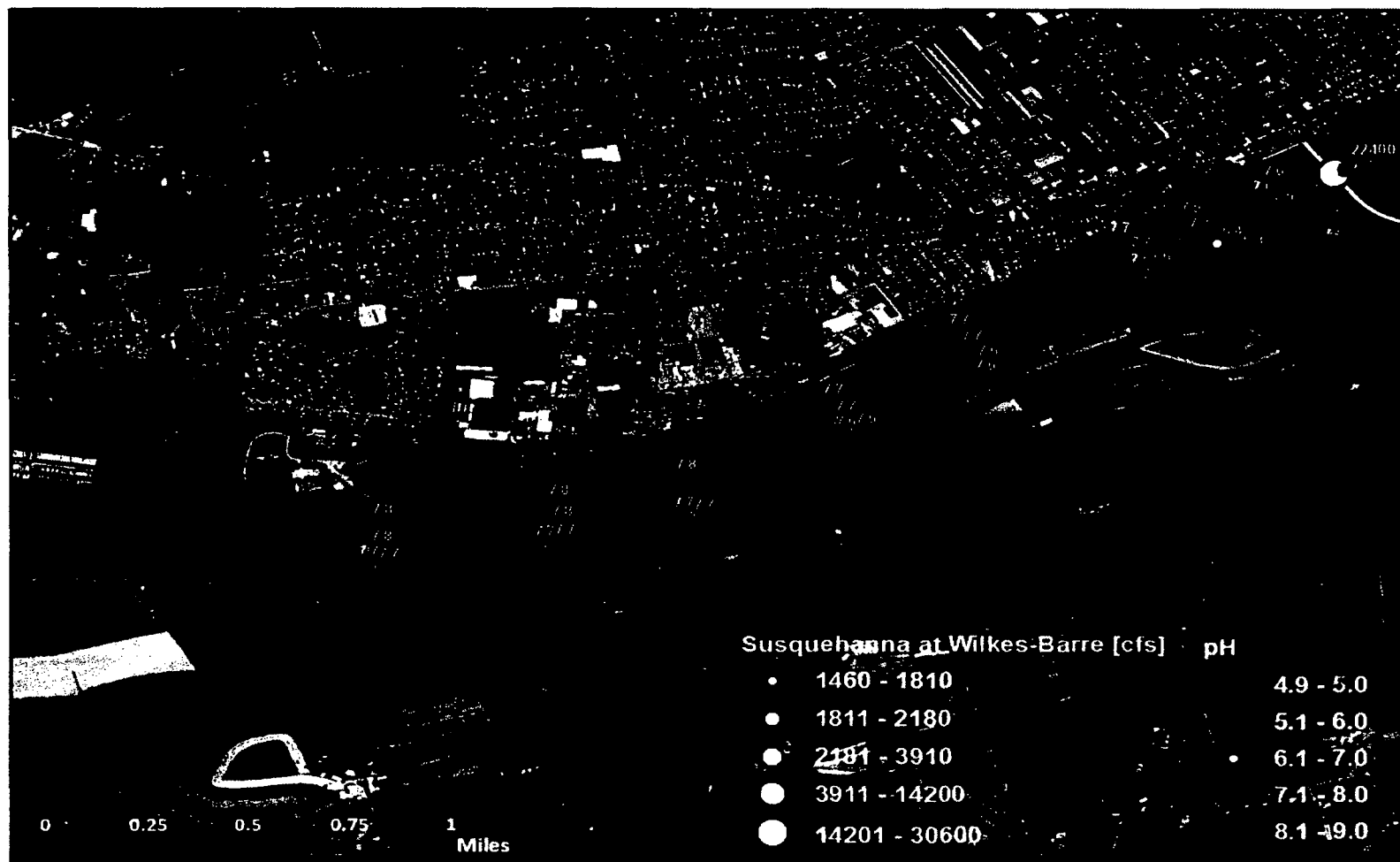
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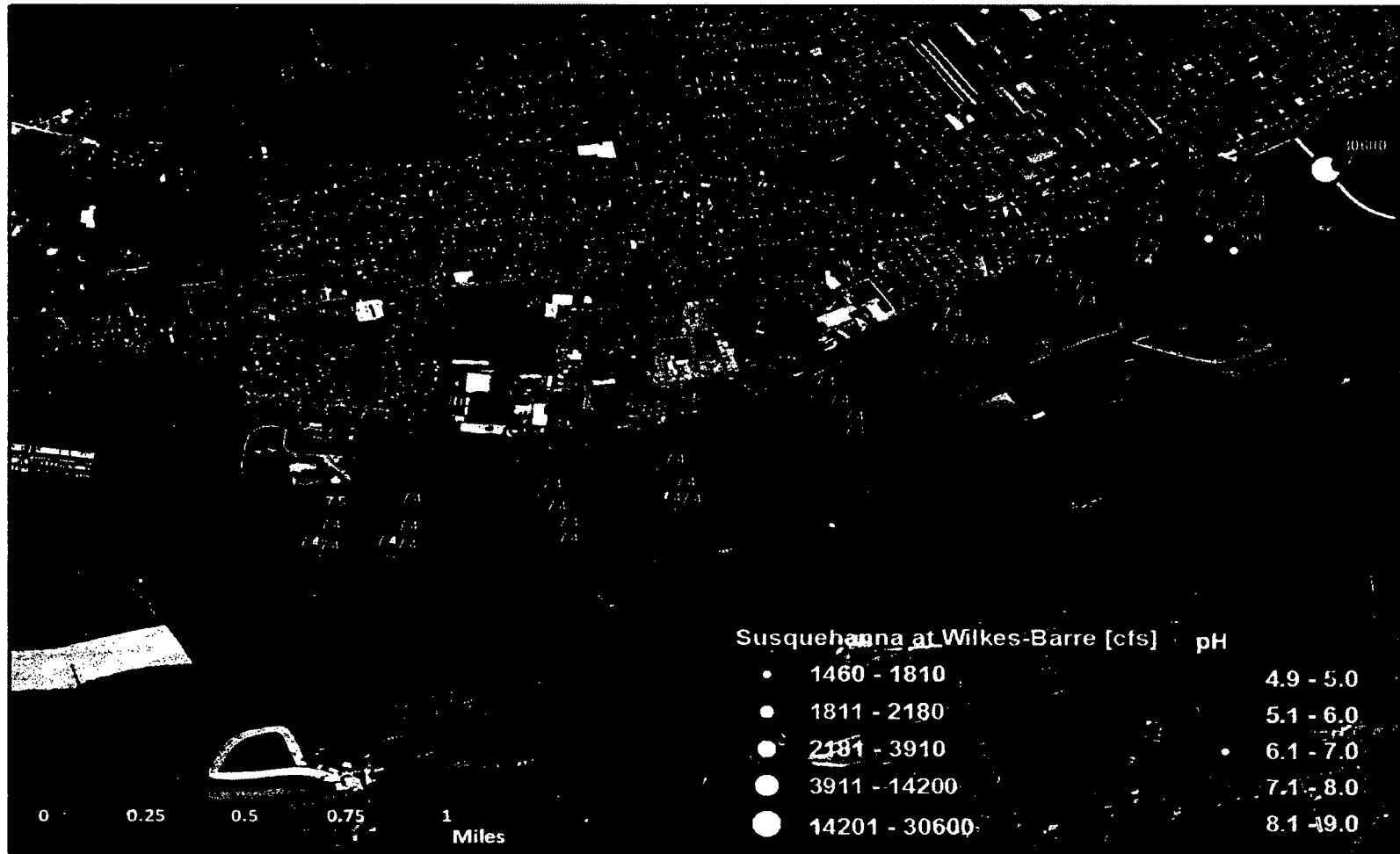
2010-10-20



2010-10-29



2010-10-06



APPENDIX 4-CTB. COOLING TOWER BLOWDOWN ANALYSIS (DVD)

All files except *.cmx can be viewed with a text viewer (ASCII files) such as Notepad. *.cmx files require the CORMIX software

APPENDIX 5-A. SMB SURVEY ACTIVITIES

***APPENDIX OSMB. CHRONOLOGY OF OBSERVATIONS ON
SMALLMOUTH BASS***

APPENDIX OSMB. CHRONOLOGY OF OBSERVATIONS ON SMALLMOUTH BASS

SMALLMOUTH BASS SPAWNING

A motorized kayak was used for the smallmouth bass (SMB) spawning surveys beginning in early May 2010. The first pre-spawning activity was observed along the east shoreline of Rocky island and Environmental Lab boat ramp (Figure 1) with subsequent nest building and fry emergence on May 20, 2010. The water temperature was 68°F. Although a survey of the areas near the Nescopeck Creek was performed, no pre-spawning activity was observed, most likely due a lack of backwater habitat suitable for smallmouth bass spawning. However, angling for smallmouth bass downriver from the Berwick Test Track boat ramp did produce three adults but their spawning locations could not be definitely ascertained.

It appears that smallmouth bass spawning occurred in late May at water temperature in the upper 60's °F. Larval smallmouth bass were observed swimming near a nest at the Rocky Island site located next to the river bank partially hidden by newly-emerged aquatic vegetation (Figure 1).

While angling for adult smallmouth bass near the Environmental Lab boat ramp, none were caught in deep water out from the shore, but, when casting within 20 feet of shore three adults (13-15 inches) were taken. These catches indicated that smallmouth bass pre-spawning activity was probably occurring in shallow water similar to what had been observed at Rocky Island on 5 May.

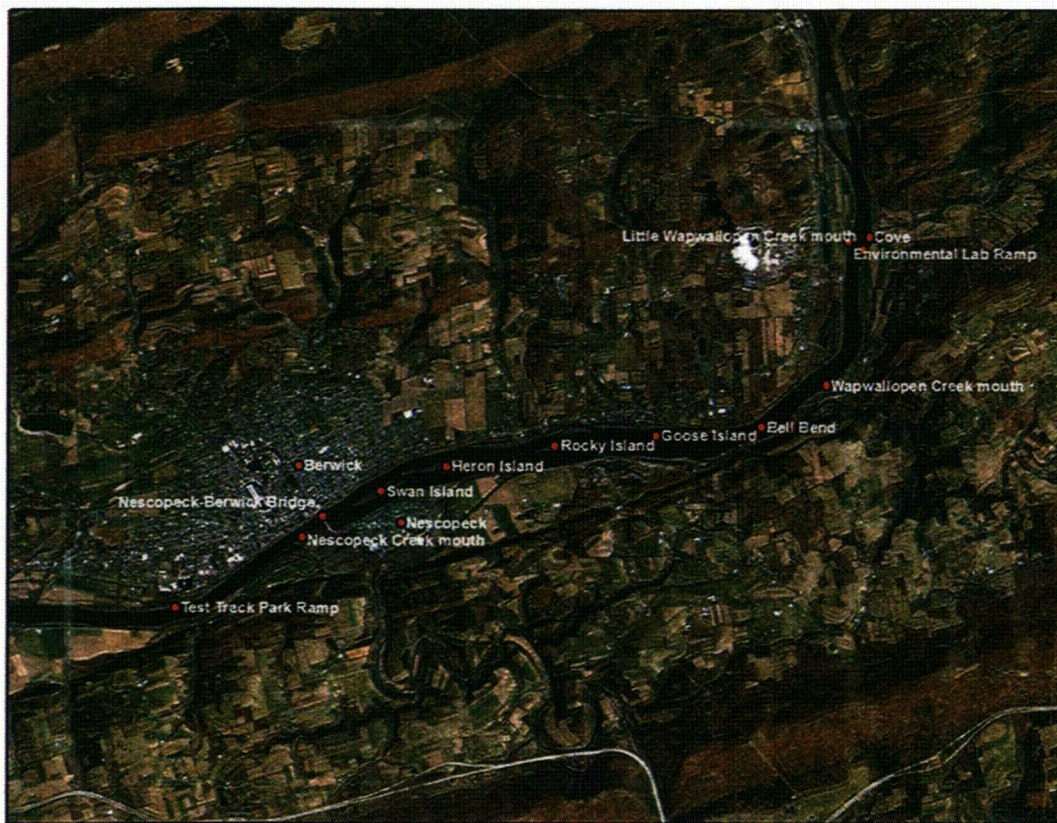


Figure 1 Smallmouth bass spawning survey area on the Susquehanna River near Berwick, PA, 2010

On May 26, 2010, several hours were spent on the river in the upper study area attempting to find spawning SMB even though the river was turbid (1-2 feet visibility). The river temperature along the shoreline was now consistently in the 70's °F. The first bass nest was found along the east shoreline of Rocky Island, where pre-spawning activity had been seen on May 5, 2010. The nest was a non-descript depression in the river gravel next to the bank guarded by an adult SMB. Upon closer examination, some larval SMB were seen that had emerged from the nest and were swimming adjacent to the river bank partially hidden by newly-emerged aquatic vegetation. These larvae were all colored jet black (Figure 2). This coloration made them easy to distinguish from the other larval fish in the immediate area that were more or less colored brown to light tan. Also, it was evident that as these larval SMB hatched from this nest, they would swim closer to shore for protection in the shoreline vegetation; likely seeking slower current. While motoring back upriver along the east shoreline of Goose Island, another SMB nest with newly-hatched SMB larvae was found. As they were just hatching and coming up through the nest gravel, and it was noted that they were not quite as black as the free swimming larvae from the nest at Rocky Island, but still noticeably darker than other larval fish in the area.

Three other schools of SMB larvae were observed on the west shoreline of Goose Island, but there was no sign of their nests. However, three of the larval SMB from the original nest were

collected. All three specimens were positively identified as SMB at the Environmental Laboratory by Dr. Brian P. Mangan, Environmental Lab, Inc.



Figure 2 Newly-hatched smallmouth bass larvae colored jet black from the Susquehanna River, May 26, 2010

A small school of SMB larvae and another larger school were observed about 200 yards upriver along the west bank along the Environmental Lab boat ramp on May 27, 2010. The shoreline water temperature was 78 °F. Across the river, in a cove at the upper end of the island immediately upriver from the mouth of Little Wapwallopen Creek, a very large school of several hundred SMB larvae was found.

Six dead adult SMB were also observed during May. Most were badly deteriorated, but it appeared that death may have been the result of post-spawning mortality. All of these fish were heavily infected with fungus.

A school of about 50 SMB larvae (fry) were seen at the Environmental Lab boat ramp in the vicinity of the SSES Intake Discharge Diffuser; the shoreline water temperature was 79 °F during this period. Across the river in the cove above the mouth of Little Wapwallopen Creek, some SMB fry were also observed, but they were more spread out compared to the previous week. The river level had dropped about one foot to a flow of 4,500 cfs, and several old abandoned SMB nests were observed that were not visible the previous week because of the deeper, turbid water. Several of these SMB fry were among thousands of American toad tadpoles (Figure 3). Re-crossing the river to the west bank under the power line about 200 yards upriver from the Lab ramp, a small school of SMB fry was found and several groups of two to six SMB fry were also observed along the river bank back downriver toward the Lab ramp.

From the ramp downriver to the Susquehanna SES Intake, several small groups of fry SMB fry were also observed, but, once again, not as concentrated in schools as observed in the previous week.



Figure 3 American toad tadpoles and smallmouth bass fry in Little Wapwallopen Creek cove, 1 June 2010

An extensive survey of the upper study area from the Environmental Lab boat ramp to the Nescopeck-Berwick Bridge was conducted. At the Lab ramp, the same school of about 50 SMB fry that were observed the prior day, were still present. Using a YSI 650 MDS equipped with a calibrated 600 XL Multi-Parameter Water Quality Monitor, measurements of the river water quality parameters were recorded inshore at the Lab ramp. The following information was ascertained: Temperature = 77 °F, Dissolved Oxygen = 8.89 mg/l, pH = 7.59; measurements in the river off-shore at the ramp were: Temperature = 76 °F, Conductivity = 354 μ mhos/cm, Dissolved Oxygen = 8.89 mg/l, pH = 8.1.

Along the west side at the head end of Goose Island, numerous SMB fry were observed in the emergent water willow plants. These plants partially blocked the view into the shallows along the shoreline so there may have been more fry here that were not observed. In the first backwater area along the west side, where during the previous week a large school of SMB fry were observed, several SMB fry were observed again, but not as many. These SMB fry had grown and were about twice as large as last week. In this backwater, measurements of the river water were recorded: Temperature = 79 °F, Conductivity = 365 μ mhos/cm, Dissolved Oxygen =

8.95 mg/l, pH = 8.3. On the east side of the head of Goose Island, SMB fry were observed along this shoreline, but more spread out compared to last week. The SMB nest where a large adult SMB was scared off last week was abandoned with only a few SMB fry in closer to shore. Several acres of gravel at the head end of Goose Island appear to be prime spawning habitat for SMB if the river level remains fairly constant during the spawning season (Figure 4).



Figure 4 Smallmouth bass spawning habitat at the head end of Goose Island, Susquehanna River, June 2010

Boating along the east shore of Rocky Island on June 2, 2010, some SMB fry were observed, but, once again, more dispersed compared to last week. Here, the river water measurements were: Temperature = 82 °F, Dissolved Oxygen = 9.2 mg/l, pH = 8.3. Farther down the east side of the island at an old SMB nest site near the tail end of the island, the river water measurements were: Temperature = 83 °F, Dissolved Oxygen = 8.9 mg/l, pH = 8.4. At this location, SMB fry had completely dispersed away from this nest site.

Along the east shore of Heron Island, some SMB fry were observed along with several abandoned nests. In a small backwater midway along the island, several SMB fry were found. Along the west side of Heron Island in a large backwater, 12 to 20 SMB fry were observed. Here, the river water measurements were: Temperature = 84 °F, Dissolved Oxygen = 9.1 mg/l, pH = 8.41.

Mid-river at the old bridge base (4th one over from the west bank) just upriver from the Nescopeck-Berwick Bridge, one SMB fry was found in the calm water on the downriver side;

there was fast current passing on both sides of this base. There also was an active beaver lodge on this base. Overall, this did not appear to be suitable spawning habitat, and the SMB fry found here was probably washed out from upriver spawning sites. At 1350 hours the river water measurements were: Temperature = 80 °F, Dissolved Oxygen = 10.1 mg/l, pH = 8.6.

The east side of the river along the Nescopeck bank appeared to be very good spawning habitat with a nice mix of small gravel, but SMB fry were not found here. It appears as if the SMB prefer to spawn around the islands in this reach of the river.

On June 11, 2010, another SMB fry survey of the study area was initiated at the Lab boat ramp at 1215 hours. Earlier in this week, extensive rainfall caused the river level to rise at least two feet, but it had now begun to recede. Turbidity, however, still limited visibility. At the Lab ramp, river water measurements were: Temperature = 77 °F, Dissolved Oxygen = 9.38 mg/l, pH = 8.0. The SMB fry observed at the ramp had grown up to 1 inch long, and they were very skittish compared to last week. This will undoubtedly make them more difficult to observe.

Across the river in Little Wapwallopen Creek cove, several small schools of SMB fry were observed, up to $\frac{3}{4}$ inches long. It was encouraging to see that these fry survived the high water event early in the week. River water measurements in the cove at 1315 hours were: Temperature = 77 °F, Dissolved Oxygen = 8.50 mg/l, pH = 7.8. Farther into the cove, there was a larger school of at least 30 SMB fry, some up to 1 inch long. These fry scattered quickly from the surface where they were easily observed. Some appeared to be losing their black color. Along the west shore of the cove, a few SMB fry were observed. They were somewhat larger and better able to swim against the river current.

Farther downriver along the west shoreline, opposite Wapwallopen Creek mouth, a gravelly area in a water willow stand was inspected, but no SMB fry observed. On the east side of the river just below the mouth of Wapwallopen Creek in a backwater area, several SMB fry were observed. Fishermen curtailed further investigation here. At the west shoreline under the power line in the Bell Bend Pool, a few SMB fry were found next to shore.

Boating downriver on the west side of Goose Island and while walking through a stand of water willow, a few SMB fry up to 1 inch were observed. Several other larval fishes were also observed while wading downriver along this shoreline. As the water willow grows, it impedes observation. There were no SMB fry on the east side of Goose Island, but it was difficult to see into the water willow stands.

On the east shoreline of Rocky Island, some SMB fry were found. At 1430 hours, river water measurements were: Temperature = 77 °F, Dissolved Oxygen = 8.90 mg/l, pH = 8.4. The survey was discontinued here because of increasingly turbid water conditions.

Overall, SMB fry were becoming increasingly difficult to find as they sheltered in the growing vegetation, particularly water willow along the shoreline (Figure 5). Most observed SMB fry were now at least 1 inch in length. River water temperature was now consistently into the high 70's °F and low 80's °F, and daytime dissolved oxygen levels remained high. It appeared that

most of the SMB spawning was done for 2010 and future observations were limited to juvenile (YOY) SMB.



Figure 5 Water willow stand along an island shoreline in the Susquehanna River, June 2010

On July 7, 2010, another survey was conducted from 1100 hours to 1530 hours. The mid-river surface temperature was 86 °F and the shoreline temperature at the Lab ramp was even warmer (87 °F) as measured by a calibrated hand thermometer. Northeastern Pennsylvania was beginning to experience a summer drought that was causing low river levels and high water temperatures.

In the Little Wapwallopen Creek cove, one YOY SMB about 2 inches long, was observed in a school of YOY hog suckers. It was in about 1 foot of water with a water temperature of 86 °F. The backwater area of the cove had mostly dried up, although there is a small flow from the creek. Here, a small school of YOY suckers swam in the cooler stream flow at 66 °F, but no juvenile SMB had taken advantage of this cool water. On the west side of the island, an occasional juvenile SMB was observed while wading. They now appear to be moving into deeper water and away from the immediate shoreline. A river temperature of 84 °F was recorded near the center of the river out from the cove.

Downriver from the mouth of Wapwallopen Creek in the backwater with an extensive patch of submerged aquatic vegetation, there were several juvenile SMB, some up to 3 inches long. They were among various Cyprinids, but the SMB, now tan in color, were easily identified by the black, vertical stripe on an orange background on the end of their tails. And, they are more aggressive swimmers than most of the other Cyprinids. Water willows, that provided refuge for fry earlier this season, were now high and dry along the river bank. Submerged aquatic plants, which were not abundant earlier in May and June, had grown extensively and now provided cover for bass at this site. In other nearby areas where there are no aquatic plants, YOY SMB were observed taking advantage of stones and large gravel for cover in water up to 1.5 feet deep.

At the southern end of Goose Island, most of the water willow was now above the water line, but there was an abundance of submerged aquatic plants along with shallow gravelly bottom substrate with large stones and bed rock. In this area, the depth is uniform at about 1.5 feet even 100 yards from the island shoreline. This appeared to be suitable place for a juvenile SMB nursery and other juvenile fishes too.

MORTALITY OF SMALLMOUTH BASS

Dead smallmouth bass were first observed on July 14, 2010; three dead/dying SMB juvenile were found immediately upriver from the Environmental Lab boat ramp (Figure 6). These fish appeared to be infected with *Flavobacterium columnare*. Both shoreline and surface river temperatures had now reached or exceeded 86 °F as recorded with a hand thermometer.



Figure 6 Dead/dying young-of-the-year smallmouth bass near the Environmental Lab boat ramp in the Susquehanna River, 14 July 2010

Subsequently on July 21, 2010, during an Agency Tour of the study area (Figure 7), dead/dying juvenile smallmouth bass were also found (Figure 8). However, by this time, the population of Great Blue Heron had increased noticeably throughout the upper study area. They were seen daily hunting the shorelines, and there is little doubt that they were feeding extensively on stressed juvenile bass.



Figure 7 Agency tour of study area, 21 July 2010



Figure 8 Dead young-of-the-year smallmouth bass near Goose Island in the Susquehanna River, 21 July 2010

On a survey beginning at the Lab ramp on July 27, 2010, shoreline water temperature of 84 °F at 1410 hours was recorded. The river water was slightly turbid from two major rainfalls over the weekend upriver from the study area. The river level at this time was 4.2 feet which equaled a flow of about 3700 cfs. No stressed juvenile SMB were observed, but two Great Blue Herons were seen along the shoreline downriver and they appeared to be searching for stressed bass.

On the opposite shore in Little Wapwallopen Creek cove, the water temperature was 86 °F at 1420 hours. Upon arrival, a heron flew from the cove. A dying juvenile SMB was found which was easily caught by hand. River water was flooded back up into the water willow, but, by now it appeared that most SMB had moved out of this nursery area and into deeper river water.

On the west side of the river opposite Wapwallopen Creek, no juvenile SMB were observed. Also, there were no juvenile SMB in the backwater just downriver from Wapwallopen Creek.

No juvenile SMB were observed along the east edge of Goose Island. However, the river current was swift and the river level was rising. One dead juvenile SMB on the river bottom was found just upriver from the southeastern tip of Goose Island. Water temperature was 84 °F at 1500 hours recorded with a hand thermometer.

At the south end of Rocky Island the water temperature was 86 °F at 1525 hours. One juvenile SMB was observed with fungus on its back along the east side of this island.

On July 28, 2010, at 1550 hours, the river temperature was 84 °F at the Lab ramp. One stressed juvenile SMB was observed as it was attacked by a larger fish. It managed to get away and swam into shore very slowly.

APPENDIX 5-B. TABULAR THERMAL RESPONSE

Sonde 1 Goose Island (shallow)

Day	Tdata (F)	Tmodified (F)	delta T (F)
6/23/10 15:00	81.10	81.19	0.09
6/23/10 16:00	80.04	80.13	0.09
6/23/10 17:00	80.17	80.17	0
6/23/10 18:00	80.08	80.06	-0.018
6/23/10 19:00	79.72	79.65	-0.072
6/23/10 20:00	79.36	79.27	-0.09
6/23/10 21:00	79.11	78.98	-0.126
6/23/10 22:00	78.91	78.78	-0.126
6/23/10 23:00	78.80	78.66	-0.144
6/24/10 0:00	78.66	78.49	-0.162
6/24/10 1:00	78.49	78.31	-0.18
6/24/10 2:00	78.22	78.06	-0.162
6/24/10 3:00	78.08	77.92	-0.162
6/24/10 4:00	77.90	77.76	-0.144
6/24/10 5:00	77.76	77.61	-0.144
6/24/10 6:00	77.65	77.52	-0.126
6/24/10 7:00	77.65	77.59	-0.054
6/24/10 8:00	77.90	77.92	0.018
6/24/10 9:00	78.12	78.22	0.108
6/24/10 10:00	78.58	78.71	0.126
6/24/10 11:00	79.56	79.61	0.054
6/24/10 12:00	79.16	79.25	0.09
6/24/10 13:00	78.51	78.55	0.036
6/24/10 14:00	79.18	79.16	-0.018
6/24/10 15:00	79.34	79.25	-0.09
6/24/10 16:00	80.35	80.29	-0.054
6/24/10 17:00	79.99	79.95	-0.036
6/24/10 18:00	79.74	79.68	-0.054
6/24/10 19:00	79.48	79.39	-0.09
6/24/10 20:00	79.21	79.11	-0.108
6/24/10 21:00	79.00	78.91	-0.09
6/24/10 22:00	79.07	79.00	-0.072
6/24/10 23:00	79.02	78.93	-0.09
6/25/10 0:00	78.93	78.84	-0.09
6/25/10 1:00	78.75	78.64	-0.108
6/25/10 2:00	78.48	78.37	-0.108
6/25/10 3:00	78.22	78.12	-0.108
6/25/10 4:00	77.99	77.86	-0.126
6/25/10 5:00	77.90	77.77	-0.126
6/25/10 6:00	77.65	77.52	-0.126
6/25/10 7:00	77.70	77.61	-0.09
6/25/10 8:00	78.06	78.04	-0.018
6/25/10 9:00	78.69	78.75	0.054
6/25/10 10:00	79.23	79.36	0.126
6/25/10 11:00	79.88	80.01	0.126

6/25/10 12:00	80.26	80.49	0.234
6/25/10 13:00	80.65	80.96	0.306
6/25/10 14:00	81.34	81.70	0.36
6/25/10 15:00	81.30	81.57	0.27
6/25/10 16:00	81.39	81.54	0.144
6/25/10 17:00	80.96	81.09	0.126
6/25/10 18:00	80.74	80.82	0.072
6/25/10 19:00	80.19	80.20	0.018
6/25/10 20:00	79.86	79.84	-0.018
6/25/10 21:00	79.77	79.70	-0.072
6/25/10 22:00	79.70	79.59	-0.108
6/25/10 23:00	79.43	79.29	-0.144
6/26/10 0:00	79.21	79.05	-0.162
6/26/10 1:00	78.91	78.73	-0.18
6/26/10 2:00	78.62	78.42	-0.198
6/26/10 3:00	78.37	78.17	-0.198
6/26/10 4:00	78.13	77.90	-0.234
6/26/10 5:00	77.92	77.67	-0.252
6/26/10 6:00	77.67	77.43	-0.234
6/26/10 7:00	77.65	77.43	-0.216
6/26/10 8:00	78.19	78.04	-0.144
6/26/10 9:00	78.96	78.91	-0.054
6/26/10 10:00	79.68	79.72	0.036
6/26/10 11:00	80.51	80.60	0.09
6/26/10 12:00	81.09	81.28	0.198
6/26/10 13:00	81.55	81.61	0.054
6/26/10 14:00	81.21	81.27	0.054
6/26/10 15:00	81.32	81.36	0.036
6/26/10 16:00	81.12	81.18	0.054
6/26/10 17:00	80.82	80.89	0.072
6/26/10 18:00	80.87	80.92	0.054
6/26/10 19:00	80.51	80.53	0.018
6/26/10 20:00	80.26	80.24	-0.018
6/26/10 21:00	80.06	80.01	-0.054
6/26/10 22:00	79.86	79.75	-0.108
6/26/10 23:00	79.54	79.38	-0.162
6/27/10 0:00	79.32	79.16	-0.162
6/27/10 1:00	79.03	78.85	-0.18
6/27/10 2:00	78.80	78.58	-0.216
6/27/10 3:00	78.55	78.33	-0.216
6/27/10 4:00	78.37	78.15	-0.216
6/27/10 5:00	78.28	78.04	-0.234
6/27/10 6:00	78.21	77.99	-0.216
6/27/10 7:00	77.90	77.72	-0.18
6/27/10 8:00	78.22	78.10	-0.126
6/27/10 9:00	78.93	78.91	-0.018
6/27/10 10:00	79.30	79.39	0.09
6/27/10 11:00	80.83	81.01	0.18

6/27/10 12:00	81.32	81.45	0.126
6/27/10 13:00	81.99	82.08	0.09
6/27/10 14:00	82.17	82.24	0.072
6/27/10 15:00	82.76	82.78	0.018
6/27/10 16:00	83.05	83.01	-0.036
6/27/10 17:00	82.24	82.22	-0.018
6/27/10 18:00	81.95	81.86	-0.09
6/27/10 19:00	81.45	81.37	-0.072
6/27/10 20:00	81.09	81.00	-0.09
6/27/10 21:00	80.80	80.69	-0.108
6/27/10 22:00	80.67	80.56	-0.108
6/27/10 23:00	80.65	80.55	-0.108
6/28/10 0:00	80.42	80.31	-0.108
6/28/10 1:00	80.40	80.33	-0.072
6/28/10 2:00	79.86	79.81	-0.054
6/28/10 3:00	79.90	79.84	-0.054
6/28/10 4:00	79.74	79.70	-0.036
6/28/10 5:00	79.63	79.59	-0.036
6/28/10 6:00	79.61	79.61	0
6/28/10 7:00	79.77	79.81	0.036
6/28/10 8:00	79.86	79.92	0.054
6/28/10 9:00	80.47	80.58	0.108
6/28/10 10:00	80.73	80.85	0.126
6/28/10 11:00	81.48	81.57	0.09
6/28/10 12:00	79.92	80.06	0.144
6/28/10 13:00	80.53	80.71	0.18
6/28/10 14:00	80.01	80.19	0.18
6/28/10 15:00	80.47	80.55	0.072
6/28/10 16:00	81.39	81.39	0
6/28/10 17:00	81.81	81.77	-0.036
6/28/10 18:00	81.14	81.03	-0.108
6/28/10 19:00	80.94	80.83	-0.108
6/28/10 20:00	80.58	80.46	-0.126
6/28/10 21:00	80.15	80.01	-0.144
6/28/10 22:00	79.92	79.79	-0.126
6/28/10 23:00	79.84	79.70	-0.144
6/29/10 0:00	79.79	79.63	-0.162
6/29/10 1:00	79.75	79.59	-0.162
6/29/10 2:00	79.70	79.56	-0.144
6/29/10 3:00	79.56	79.41	-0.144
6/29/10 4:00	79.21	79.05	-0.162
6/29/10 5:00	78.94	78.76	-0.18
6/29/10 6:00	78.66	78.49	-0.162
6/29/10 7:00	78.60	78.48	-0.126
6/29/10 8:00	78.96	78.89	-0.072
6/29/10 9:00	79.03	79.02	-0.018
6/29/10 10:00	80.38	80.28	-0.108
6/29/10 11:00	80.33	80.31	-0.018

6/29/10 12:00	80.71	80.71	0
6/29/10 13:00	80.92	80.94	0.018
6/29/10 14:00	81.48	81.41	-0.072
6/29/10 15:00	81.37	81.28	-0.09
6/29/10 16:00	80.67	80.62	-0.054
6/29/10 17:00	80.58	80.51	-0.072
6/29/10 18:00	80.38	80.24	-0.144
6/29/10 19:00	79.68	79.57	-0.108
6/29/10 20:00	79.16	79.03	-0.126
6/29/10 21:00	79.11	78.98	-0.126
6/29/10 22:00	78.91	78.76	-0.144
6/29/10 23:00	78.60	78.44	-0.162
6/30/10 0:00	78.22	78.04	-0.18
6/30/10 1:00	77.86	77.68	-0.18
6/30/10 2:00	77.45	77.27	-0.18
6/30/10 3:00	76.95	76.77	-0.18
6/30/10 4:00	76.44	76.24	-0.198
6/30/10 5:00	76.01	75.79	-0.216
6/30/10 6:00	75.67	75.47	-0.198
6/30/10 7:00	75.61	75.47	-0.144
6/30/10 8:00	76.26	76.19	-0.072
6/30/10 9:00	76.68	76.66	-0.018
6/30/10 10:00	77.34	77.41	0.072
6/30/10 11:00	78.40	78.57	0.162
6/30/10 12:00	79.05	79.25	0.198
6/30/10 13:00	79.02	79.18	0.162
6/30/10 14:00	79.02	79.05	0.036
6/30/10 15:00	78.89	78.89	0
6/30/10 16:00	78.26	78.26	0
6/30/10 17:00	79.07	79.05	-0.018
6/30/10 18:00	78.48	78.42	-0.054
6/30/10 19:00	77.70	77.61	-0.09
6/30/10 20:00	77.31	77.22	-0.09
6/30/10 21:00	77.23	77.11	-0.126
6/30/10 22:00	77.23	77.11	-0.126
6/30/10 23:00	77.05	76.89	-0.162
7/1/10 0:00	76.82	76.66	-0.162
7/1/10 1:00	76.23	76.05	-0.18
7/1/10 2:00	75.76	75.56	-0.198
7/1/10 3:00	75.38	75.16	-0.216
7/1/10 4:00	75.06	74.82	-0.234
7/1/10 5:00	74.66	74.43	-0.234
7/1/10 6:00	74.35	74.12	-0.234
7/1/10 7:00	74.35	74.16	-0.198
7/1/10 8:00	74.68	74.61	-0.072
7/1/10 9:00	75.40	75.42	0.018
7/1/10 10:00	76.37	76.46	0.09
7/1/10 11:00	76.33	76.44	0.108

7/1/10 12:00	76.42	76.50	0.072
7/1/10 13:00	76.77	76.86	0.09
7/1/10 16:00			
7/1/10 17:00			
7/1/10 18:00	77.25	77.20	-0.054
7/1/10 19:00	77.24	77.21	-0.036
7/1/10 20:00	76.61	76.54	-0.072
7/1/10 21:00	76.14	76.05	-0.09
7/1/10 22:00	75.62	75.52	-0.108
7/1/10 23:00	75.34	75.23	-0.108
7/2/10 0:00	75.08	74.96	-0.126
7/2/10 1:00	74.77	74.62	-0.144
7/2/10 2:00	74.38	74.23	-0.144
7/2/10 3:00	73.97	73.81	-0.162
7/2/10 4:00	73.56	73.40	-0.162
7/2/10 5:00	73.22	73.04	-0.18
7/2/10 6:00	72.94	72.74	-0.198
7/2/10 7:00	72.69	72.50	-0.198
7/2/10 8:00	72.54	72.34	-0.198
7/2/10 9:00	72.82	72.64	-0.18
7/2/10 10:00	73.48	73.37	-0.108
7/2/10 11:00	74.40	74.38	-0.018
7/2/10 12:00	75.34	75.45	0.108
7/2/10 13:00	75.88	76.06	0.18
7/2/10 14:00	76.32	76.46	0.144
7/2/10 15:00	77.13	77.35	0.216
7/2/10 16:00	77.69	77.85	0.162
7/2/10 17:00	77.97	78.15	0.18
7/2/10 18:00	77.90	78.01	0.108
7/2/10 19:00	77.59	77.72	0.126
7/2/10 20:00	76.99	77.09	0.108
7/2/10 21:00	76.39	76.46	0.072
7/2/10 22:00	75.99	76.01	0.018
7/2/10 23:00	75.66	75.65	-0.018
7/3/10 0:00	75.40	75.31	-0.09
7/3/10 1:00	75.09	74.96	-0.126
7/3/10 2:00	74.73	74.55	-0.18
7/3/10 3:00	74.39	74.19	-0.198
7/3/10 4:00	74.05	73.85	-0.198
7/3/10 5:00	73.75	73.54	-0.216
7/3/10 6:00	73.49	73.25	-0.234
7/3/10 7:00	73.28	73.05	-0.234
7/3/10 8:00	73.17	72.95	-0.216
7/3/10 9:00	73.38	73.18	-0.198
7/3/10 10:00	74.10	73.99	-0.108
7/3/10 11:00	74.99	74.97	-0.018
7/3/10 12:00	75.76	75.85	0.09
7/3/10 13:00	76.61	76.81	0.198

7/3/10 14:00	77.36	77.66	0.306
7/3/10 15:00	77.95	78.29	0.342
7/3/10 16:00	78.42	78.82	0.396
7/3/10 17:00	78.70	79.15	0.45
7/3/10 18:00	78.75	79.14	0.396
7/3/10 19:00	78.47	78.70	0.234
7/3/10 20:00	77.97	78.12	0.144
7/3/10 21:00	77.39	77.44	0.054
7/3/10 22:00	76.87	76.91	0.036
7/3/10 23:00	76.44	76.46	0.018
7/4/10 0:00	76.14	76.12	-0.018
7/4/10 1:00	75.84	75.77	-0.072
7/4/10 2:00	75.61	75.52	-0.09
7/4/10 3:00	75.34	75.21	-0.126
7/4/10 4:00	75.04	74.89	-0.144
7/4/10 5:00	74.75	74.59	-0.162
7/4/10 6:00	74.53	74.35	-0.18
7/4/10 7:00	74.33	74.13	-0.198
7/4/10 8:00	74.21	73.99	-0.216
7/4/10 9:00	74.50	74.34	-0.162
7/4/10 10:00	75.44	75.34	-0.108
7/4/10 11:00	76.60	76.58	-0.018
7/4/10 12:00	77.75	77.82	0.072
7/4/10 13:00	78.84	79.02	0.18
7/4/10 14:00	79.72	79.96	0.234
7/4/10 15:00	80.12	80.21	0.09
7/4/10 16:00	80.33	80.33	0
7/4/10 17:00	80.66	80.66	0
7/4/10 18:00	80.76	80.65	-0.108
7/4/10 19:00	80.43	80.33	-0.108
7/4/10 20:00	79.84	79.73	-0.108
7/4/10 21:00	79.12	79.03	-0.09
7/4/10 22:00	78.64	78.55	-0.09
7/4/10 23:00	78.23	78.13	-0.108
7/5/10 0:00	77.90	77.79	-0.108
7/5/10 1:00	77.61	77.50	-0.108
7/5/10 2:00	77.32	77.22	-0.108
7/5/10 3:00	77.09	76.94	-0.144
7/5/10 4:00	76.81	76.66	-0.144
7/5/10 5:00	76.53	76.38	-0.144
7/5/10 6:00	76.24	76.10	-0.144
7/5/10 7:00	75.96	75.78	-0.18
7/5/10 8:00	75.79	75.63	-0.162
7/5/10 9:00	76.10	75.98	-0.126
7/5/10 10:00	77.18	77.13	-0.054
7/5/10 11:00	78.49	78.53	0.036
7/5/10 12:00	79.81	79.97	0.162
7/5/10 13:00	81.34	81.61	0.27

7/5/10 14:00	82.72	82.99	0.27
7/5/10 15:00	83.74	83.95	0.216
7/5/10 16:00	84.17	84.43	0.252
7/5/10 17:00	84.18	84.41	0.234
7/5/10 18:00	83.87	83.96	0.09
7/5/10 19:00	83.12	83.15	0.036
7/5/10 20:00	82.00	82.02	0.018
7/5/10 21:00	81.31	81.31	0
7/5/10 22:00	80.75	80.72	-0.036
7/5/10 23:00	80.34	80.27	-0.072
7/6/10 0:00	80.01	79.90	-0.108
7/6/10 1:00	79.79	79.64	-0.144
7/6/10 2:00	79.55	79.39	-0.162
7/6/10 3:00	79.32	79.14	-0.18
7/6/10 4:00	79.07	78.87	-0.198
7/6/10 5:00	78.83	78.63	-0.198
7/6/10 6:00	78.62	78.43	-0.198
7/6/10 7:00	78.40	78.20	-0.198
7/6/10 8:00	78.24	78.06	-0.18
7/6/10 9:00	78.55	78.41	-0.144
7/6/10 10:00	79.46	79.37	-0.09
7/6/10 11:00	81.16	81.16	0
7/6/10 12:00	82.94	83.07	0.126
7/6/10 13:00	84.73	84.89	0.162
7/6/10 14:00	86.20	86.42	0.216
7/6/10 15:00	87.42	87.69	0.27
7/6/10 16:00	87.85	88.21	0.36
7/6/10 17:00	87.68	87.92	0.234
7/6/10 18:00	86.37	86.61	0.234
7/6/10 19:00	86.01	86.26	0.252
7/6/10 20:00	85.23	85.41	0.18
7/6/10 21:00	84.22	84.38	0.162
7/6/10 22:00	83.31	83.40	0.09
7/6/10 23:00	82.72	82.70	-0.018
7/7/10 0:00	82.53	82.46	-0.072
7/7/10 1:00	82.30	82.17	-0.126
7/7/10 2:00	82.03	81.87	-0.162
7/7/10 3:00	81.82	81.64	-0.18
7/7/10 4:00	81.62	81.42	-0.198
7/7/10 5:00	81.38	81.18	-0.198
7/7/10 6:00	81.13	80.92	-0.216
7/7/10 7:00	80.88	80.65	-0.234
7/7/10 8:00	80.74	80.55	-0.198
7/7/10 9:00	81.03	80.85	-0.18
7/7/10 10:00	82.05	81.94	-0.108
7/7/10 11:00	83.88	83.84	-0.036
7/7/10 12:00	85.64	85.66	0.018
7/7/10 13:00	86.95	87.04	0.09

7/7/10 14:00	88.20	88.34	0.144
7/7/10 15:00	89.40	89.49	0.09
7/7/10 16:00	89.39	89.32	-0.072
7/7/10 17:00	88.83	88.81	-0.018
7/7/10 18:00	87.89	87.93	0.036
7/7/10 19:00	88.41	88.43	0.018
7/7/10 20:00	87.08	86.94	-0.144
7/7/10 21:00	85.82	85.65	-0.162
7/7/10 22:00	84.61	84.44	-0.162
7/7/10 23:00	83.66	83.48	-0.18
7/8/10 0:00	83.11	82.91	-0.198
7/8/10 1:00	82.77	82.55	-0.216
7/8/10 2:00	82.49	82.27	-0.216
7/8/10 3:00	82.19	81.97	-0.216
7/8/10 4:00	81.92	81.70	-0.216
7/8/10 5:00	81.59	81.37	-0.216
7/8/10 6:00	81.20	81.01	-0.198
7/8/10 7:00	80.91	80.69	-0.216
7/8/10 8:00	80.69	80.50	-0.198
7/8/10 9:00	80.87	80.69	-0.18
7/8/10 10:00	81.79	81.70	-0.09
7/8/10 11:00	83.74	83.74	0
7/8/10 12:00			
7/8/10 13:00	88.31	88.55	0.234
7/8/10 14:00	90.21	90.48	0.27
7/8/10 15:00	91.23	91.58	0.342
7/8/10 16:00	90.10	90.34	0.234
7/8/10 17:00	87.86	87.85	-0.018
7/8/10 18:00	88.19	88.16	-0.036
7/8/10 19:00	88.06	88.02	-0.036
7/8/10 20:00	86.35	86.27	-0.072
7/8/10 21:00	85.20	85.07	-0.126
7/8/10 22:00	84.37	84.24	-0.126
7/8/10 23:00	83.76	83.62	-0.144
7/9/10 0:00	83.48	83.34	-0.144
7/9/10 1:00	83.41	83.26	-0.144
7/9/10 2:00	83.33	83.17	-0.162
7/9/10 3:00	83.15	82.97	-0.18
7/9/10 4:00	82.76	82.58	-0.18
7/9/10 5:00	82.27	82.09	-0.18
7/9/10 6:00	82.12	81.92	-0.198
7/9/10 7:00	81.97	81.75	-0.216
7/9/10 8:00	81.72	81.52	-0.198
7/9/10 9:00	81.82	81.65	-0.162
7/9/10 10:00	82.04	81.93	-0.108
7/9/10 11:00	82.64	82.60	-0.036
7/9/10 12:00	84.17	84.19	0.018
7/9/10 18:00	86.63	86.67	0.036

7/9/10 19:00	87.34	87.45	0.108
7/9/10 20:00			
7/9/10 21:00			
7/9/10 22:00			
7/9/10 23:00			
7/10/10 0:00			
7/10/10 1:00	86.81	86.72	-0.09
7/10/10 2:00	84.40	84.31	-0.09
7/10/10 3:00	83.20	83.07	-0.126
7/10/10 4:00	82.69	82.56	-0.126
7/10/10 5:00	82.35	82.22	-0.126
7/10/10 6:00	82.04	81.90	-0.144
7/10/10 7:00	81.72	81.59	-0.126
7/10/10 8:00	81.38	81.25	-0.126
7/10/10 9:00	80.88	80.76	-0.126
7/10/10 10:00	80.91	80.76	-0.144
7/10/10 11:00	81.07	80.95	-0.126
7/10/10 12:00	80.97	80.85	-0.126
7/10/10 13:00	80.41	80.26	-0.144
7/10/10 14:00	79.86	79.75	-0.108
7/10/10 15:00	80.02	79.95	-0.072
7/10/10 16:00	80.40	80.40	0
7/10/10 17:00	80.77	80.84	0.072
7/10/10 18:00	81.01	81.19	0.18
7/10/10 19:00	81.63	81.92	0.288
7/10/10 20:00	82.73	83.06	0.324
7/10/10 21:00	83.93	84.29	0.36
7/10/10 22:00	84.80	85.00	0.198
7/10/10 23:00	84.86	84.95	0.09
7/11/10 0:00	85.60	85.56	-0.036
7/11/10 1:00	85.85	85.76	-0.09
7/11/10 2:00	84.75	84.62	-0.126
7/11/10 3:00	83.28	83.12	-0.162
7/11/10 4:00	82.09	81.89	-0.198
7/11/10 5:00	81.23	81.01	-0.216
7/11/10 6:00	80.34	80.13	-0.216
7/11/10 7:00	79.70	79.47	-0.234
7/11/10 8:00	79.14	78.89	-0.252
7/11/10 9:00	78.73	78.46	-0.27
7/11/10 10:00	78.38	78.11	-0.27
7/11/10 11:00	77.99	77.71	-0.288
7/11/10 12:00	77.56	77.25	-0.306
7/11/10 13:00	77.28	77.00	-0.288
7/11/10 14:00	77.48	77.21	-0.27
7/11/10 15:00	78.43	78.23	-0.198
7/11/10 16:00	80.40	80.31	-0.09
7/11/10 17:00	83.23	83.23	0
7/11/10 18:00	86.01	86.08	0.072

7/11/10 19:00	88.14	88.32	0.18
7/11/10 20:00	89.83	90.01	0.18
7/11/10 21:00	90.70	90.74	0.036
7/11/10 22:00	90.99	90.92	-0.072
7/11/10 23:00	89.96	89.91	-0.054
7/12/10 0:00	87.77	87.72	-0.054
7/12/10 1:00	85.71	85.62	-0.09
7/12/10 2:00	83.37	83.24	-0.126
7/12/10 3:00	81.76	81.60	-0.162
7/12/10 4:00	80.66	80.47	-0.198
7/12/10 5:00	79.72	79.50	-0.216
7/12/10 6:00	79.10	78.86	-0.234
7/12/10 7:00	78.50	78.23	-0.27
7/12/10 8:00	78.03	77.76	-0.27
7/12/10 9:00	77.58	77.31	-0.27
7/12/10 10:00	77.08	76.81	-0.27
7/12/10 11:00	76.79	76.50	-0.288
7/12/10 12:00	76.55	76.28	-0.27
7/12/10 13:00	76.28	76.03	-0.252
7/12/10 14:00	76.39	76.17	-0.216
7/12/10 15:00	76.94	76.80	-0.144
7/12/10 16:00	78.17	78.13	-0.036
7/12/10 17:00	80.75	80.83	0.072
7/12/10 18:00	84.08	84.21	0.126
7/12/10 19:00	86.80	86.98	0.18
7/12/10 20:00	88.10	88.30	0.198
7/12/10 21:00	87.71	87.98	0.27
7/12/10 22:00	86.20	86.31	0.108
7/12/10 23:00	84.12	84.21	0.09
7/13/10 0:00	81.68	81.77	0.09
7/13/10 1:00	79.77	79.77	0
7/13/10 2:00	78.47	78.43	-0.036
7/13/10 3:00	78.28	78.21	-0.072
7/13/10 4:00	78.43	78.32	-0.108
7/13/10 5:00	78.56	78.45	-0.108
7/13/10 6:00	78.60	78.47	-0.126
7/13/10 7:00	78.61	78.46	-0.144
7/13/10 8:00	78.64	78.49	-0.144
7/13/10 9:00	78.60	78.44	-0.162
7/13/10 10:00	78.39	78.23	-0.162
7/13/10 11:00	78.24	78.08	-0.162
7/13/10 12:00	78.16	77.99	-0.162
7/13/10 13:00	78.12	77.98	-0.144
7/13/10 14:00	78.17	78.06	-0.108
7/13/10 15:00	78.58	78.54	-0.036
7/13/10 16:00	78.98	79.01	0.036
7/13/10 17:00	79.59	79.71	0.126
7/13/10 18:00	82.24	82.45	0.216

7/13/10 19:00	84.15	84.43	0.288
7/13/10 20:00	83.57	83.90	0.324
7/13/10 21:00	83.04	83.33	0.288
7/13/10 22:00	83.30	83.59	0.288
7/13/10 23:00	84.17	84.46	0.288
7/14/10 0:00	83.15	83.42	0.27
7/14/10 1:00	82.70	82.84	0.144
7/14/10 2:00	81.92	81.97	0.054
7/14/10 3:00	81.38	81.40	0.018
7/14/10 4:00	80.90	80.88	-0.018
7/14/10 5:00	80.65	80.58	-0.072
7/14/10 6:00	80.45	80.36	-0.09
7/14/10 7:00	80.23	80.11	-0.126
7/14/10 8:00	80.07	79.93	-0.144
7/14/10 9:00	80.00	79.85	-0.144
7/14/10 10:00	79.84	79.66	-0.18
7/14/10 11:00	79.79	79.61	-0.18
7/14/10 12:00	79.65	79.47	-0.18
7/14/10 13:00	79.61	79.43	-0.18
7/14/10 14:00	79.53	79.37	-0.162
7/14/10 15:00	79.64	79.53	-0.108
7/14/10 16:00	79.67	79.66	-0.018
7/14/10 17:00	79.80	79.86	0.054
7/14/10 18:00	80.38	80.49	0.108
7/14/10 19:00	80.49	80.67	0.18
7/14/10 20:00	80.37	80.59	0.216
7/14/10 21:00	80.71	80.86	0.144
7/14/10 22:00	81.99	82.17	0.18
7/14/10 23:00	83.81	83.93	0.126
7/15/10 0:00	81.54	81.59	0.054
7/15/10 1:00	81.61	81.66	0.054
7/15/10 2:00	80.95	80.97	0.018
7/15/10 3:00	79.81	79.79	-0.018
7/15/10 4:00	79.44	79.37	-0.072
7/15/10 5:00	79.32	79.23	-0.09
7/15/10 6:00	79.16	79.04	-0.126
7/15/10 7:00	79.09	78.95	-0.144
7/15/10 8:00	79.11	78.94	-0.162
7/15/10 9:00	79.12	78.94	-0.18
7/15/10 10:00	79.05	78.85	-0.198
7/15/10 11:00	78.90	78.70	-0.198
7/15/10 12:00	78.80	78.58	-0.216
7/15/10 13:00	78.72	78.50	-0.216
7/15/10 14:00	78.67	78.49	-0.18
7/15/10 15:00	78.86	78.73	-0.126
7/15/10 16:00	79.65	79.57	-0.072
7/15/10 17:00	80.15	80.16	0.018
7/15/10 18:00	80.60	80.71	0.108

7/15/10 19:00	82.90	83.10	0.198
7/15/10 20:00	85.26	85.50	0.234
7/15/10 21:00	85.92	86.20	0.288
7/15/10 22:00	85.98	86.23	0.252
7/15/10 23:00	85.83	86.12	0.288
7/16/10 0:00	84.88	85.07	0.198
7/16/10 1:00	83.35	83.45	0.108
7/16/10 2:00	82.22	82.30	0.072
7/16/10 3:00	81.53	81.55	0.018
7/16/10 4:00	80.73	80.71	-0.018
7/16/10 5:00	80.25	80.21	-0.036
7/16/10 6:00	79.89	79.78	-0.108
7/16/10 7:00	79.50	79.38	-0.126
7/16/10 8:00	79.19	79.03	-0.162
7/16/10 9:00	79.02	78.84	-0.18
7/16/10 10:00	78.84	78.64	-0.198
7/16/10 11:00	78.64	78.43	-0.216
7/16/10 12:00	78.43	78.19	-0.234
7/16/10 13:00	78.31	78.07	-0.234
7/17/10 13:00			
7/18/10 13:00			
7/19/10 13:00			
7/20/10 1:00	79.33	79.19	-0.144
7/20/10 2:00	81.15	81.10	-0.054
7/20/10 3:00	83.15	83.17	0.018
7/20/10 4:00	85.07	85.01	-0.054
7/20/10 5:00	86.24	86.24	0
7/20/10 6:00	87.11	87.11	0
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7/23/10 9:00			
7/23/10 10:00			
7/23/10 11:00			
7/23/10 12:00			
7/23/10 13:00			
7/23/10 14:00			
7/23/10 15:00			
7/23/10 16:00			
7/23/10 17:00			
7/23/10 18:00	80.40	80.25	-0.144
7/23/10 19:00	80.19	80.02	-0.162
7/23/10 20:00	79.97	79.81	-0.162
7/23/10 21:00	79.83	79.65	-0.18
7/23/10 22:00	79.83	79.65	-0.18
7/23/10 23:00	79.66	79.47	-0.198
7/24/10 0:00	79.87	79.70	-0.162
7/24/10 1:00	80.36	80.25	-0.108
7/24/10 2:00	80.79	80.75	-0.036
7/24/10 3:00	81.63	81.66	0.036
7/24/10 4:00	81.94	82.06	0.126
7/24/10 5:00	82.26	82.44	0.18
7/24/10 6:00	84.29	84.45	0.162
7/24/10 7:00	87.53	87.65	0.126
7/24/10 8:00	88.23	88.30	0.072
7/24/10 9:00	87.60	87.60	0
7/24/10 10:00	86.35	86.36	0.018
7/24/10 11:00	84.89	84.86	-0.036
7/24/10 12:00	83.43	83.34	-0.09
7/24/10 13:00	82.34	82.23	-0.108
7/24/10 14:00	81.55	81.42	-0.126
7/24/10 15:00	80.95	80.80	-0.144
7/24/10 16:00	80.50	80.33	-0.162
7/24/10 17:00	80.16	79.98	-0.18
7/24/10 18:00	79.82	79.62	-0.198
7/24/10 19:00	79.55	79.35	-0.198
7/24/10 20:00	79.38	79.18	-0.198
7/24/10 21:00	79.24	79.03	-0.216
7/24/10 22:00	79.08	78.85	-0.234
7/24/10 23:00	78.90	78.69	-0.216
7/25/10 0:00	78.98	78.80	-0.18
7/25/10 1:00	79.36	79.25	-0.108
7/25/10 2:00	80.29	80.25	-0.036

7/25/10 3:00	82.64	82.66	0.018
7/25/10 4:00	85.61	85.69	0.072
7/25/10 5:00	88.32	88.36	0.036
7/25/10 6:00	89.44	89.46	0.018
7/25/10 7:00	88.98	88.85	-0.126
7/25/10 8:00	89.39	89.43	0.036
7/25/10 9:00	90.49	90.47	-0.018
7/25/10 10:00	89.70	89.68	-0.018
7/25/10 11:00	87.41	87.32	-0.09
7/25/10 12:00	84.42	84.31	-0.108
7/25/10 13:00	82.07	81.98	-0.09
7/25/10 14:00	80.46	80.37	-0.09
7/25/10 15:00	79.43	79.31	-0.126
7/25/10 16:00	78.80	78.68	-0.126
7/25/10 17:00	78.64	78.51	-0.126
7/25/10 18:00	78.51	78.36	-0.144
7/25/10 19:00	78.30	78.14	-0.162
7/25/10 20:00	78.05	77.89	-0.162
7/25/10 21:00	77.79	77.63	-0.162
7/25/10 22:00	77.48	77.32	-0.162
7/25/10 23:00	77.14	76.98	-0.162
7/26/10 0:00	77.10	76.97	-0.126
7/26/10 1:00	77.98	77.93	-0.054
7/26/10 2:00	80.00	80.04	0.036
7/26/10 3:00	82.71	82.74	0.036
7/26/10 4:00	85.12	85.21	0.09
7/26/10 5:00	86.34	86.38	0.036
7/26/10 6:00	87.58	87.55	-0.036
7/26/10 7:00	88.45	88.43	-0.018
7/26/10 8:00	88.92	88.92	0
7/26/10 9:00	88.03	88.02	-0.018
7/26/10 10:00	86.62	86.56	-0.054
7/26/10 11:00	85.68	85.60	-0.072
7/26/10 12:00	84.66	84.59	-0.072
7/26/10 13:00	83.02	82.95	-0.072
7/26/10 14:00	81.57	81.48	-0.09
7/26/10 15:00	80.47	80.36	-0.108
7/26/10 16:00	79.70	79.60	-0.108
7/26/10 17:00	79.23	79.12	-0.108
7/26/10 18:00	78.94	78.83	-0.108
7/26/10 19:00	78.74	78.61	-0.126
7/26/10 20:00	78.58	78.45	-0.126
7/26/10 21:00	78.42	78.29	-0.126
7/26/10 22:00	78.25	78.12	-0.126
7/26/10 23:00	78.13	78.00	-0.126
7/27/10 0:00	78.08	77.99	-0.09
7/27/10 1:00	78.10	78.06	-0.036
7/27/10 2:00	78.08	78.10	0.018

7/27/10 3:00	78.44	78.57	0.126
7/27/10 4:00	79.48	79.70	0.216
7/27/10 5:00	80.59	80.92	0.324
7/27/10 6:00	81.10	81.50	0.396
7/27/10 7:00	82.49	82.92	0.432
7/27/10 8:00	85.20	85.58	0.378
7/27/10 9:00	86.64	86.86	0.216
7/27/10 10:00	86.84	86.95	0.108
7/27/10 11:00	85.41	85.44	0.036
7/27/10 12:00	83.65	83.63	-0.018
7/27/10 13:00	82.54	82.50	-0.036
7/27/10 14:00	81.57	81.52	-0.054
7/27/10 15:00	80.73	80.62	-0.108
7/27/10 16:00	80.09	79.97	-0.126
7/27/10 17:00	79.86	79.74	-0.126
7/27/10 18:00	79.79	79.64	-0.144
7/27/10 19:00	79.59	79.47	-0.126
7/27/10 20:00	79.32	79.20	-0.126
7/27/10 21:00	79.25	79.10	-0.144
7/27/10 22:00	79.31	79.18	-0.126
7/27/10 23:00	79.27	79.13	-0.144
7/28/10 23:00			
7/29/10 15:00	80.40	80.40	0
7/29/10 16:00	82.11	82.18	0.072
7/29/10 17:00	83.76	83.90	0.144
7/29/10 18:00	85.37	85.59	0.216
7/29/10 19:00	87.17	87.40	0.234
7/29/10 20:00	88.81	88.94	0.126
7/29/10 21:00	89.58	89.72	0.144
7/29/10 22:00	89.59	89.61	0.018
7/29/10 23:00	89.15	89.15	0
7/30/10 0:00	88.48	88.35	-0.126
7/30/10 1:00	87.02	86.89	-0.126
7/30/10 2:00	85.30	85.18	-0.126
7/30/10 3:00	84.09	83.97	-0.126
7/30/10 4:00	83.50	83.38	-0.126
7/30/10 5:00	82.42	82.30	-0.126
7/30/10 6:00	81.23	81.09	-0.144
7/30/10 7:00	81.64	81.52	-0.126
7/30/10 8:00	81.68	81.57	-0.108
7/30/10 9:00	81.46	81.39	-0.072
7/30/10 10:00	81.36	81.34	-0.018
7/30/10 11:00	81.25	81.23	-0.018
7/30/10 12:00	81.28	81.25	-0.036
7/30/10 13:00	81.19	81.17	-0.018
7/30/10 14:00	81.25	81.25	0
7/30/10 15:00	81.68	81.73	0.054
7/30/10 16:00	82.68	82.81	0.126

7/30/10 17:00	85.04	85.19	0.144
7/30/10 18:00	85.43	85.68	0.252
7/30/10 19:00	85.63	85.46	-0.162
7/30/10 20:00	83.84	83.79	-0.054
7/30/10 21:00	80.66	80.68	0.018
7/30/10 22:00	81.50	81.54	0.036
7/30/10 23:00	83.38	83.43	0.054
7/31/10 0:00	84.13	84.15	0.018
7/31/10 1:00	83.49	83.44	-0.054
7/31/10 2:00	82.49	82.36	-0.126
7/31/10 3:00	81.64	81.46	-0.18
7/31/10 4:00	81.06	80.87	-0.198
7/31/10 5:00	80.53	80.30	-0.234
7/31/10 6:00	80.12	79.87	-0.252
7/31/10 7:00	79.80	79.55	-0.252
7/31/10 8:00	79.61	79.34	-0.27
7/31/10 9:00	79.42	79.13	-0.288
7/31/10 10:00	79.30	79.00	-0.306
7/31/10 11:00	79.30	79.00	-0.306
7/31/10 12:00	79.19	78.86	-0.324
7/31/10 13:00	78.89	78.56	-0.324
7/31/10 14:00	79.00	78.71	-0.288
7/31/10 15:00	79.53	79.30	-0.234
7/31/10 16:00	80.44	80.30	-0.144
7/31/10 17:00	81.67	81.64	-0.036
7/31/10 18:00	82.77	82.79	0.018
7/31/10 19:00	83.56	83.57	0.018
7/31/10 20:00	83.42	83.39	-0.036
7/31/10 21:00	83.47	83.38	-0.09
7/31/10 22:00	83.12	83.10	-0.018
7/31/10 23:00	83.00	82.95	-0.054
8/1/10 0:00	82.72	82.66	-0.054
8/1/10 1:00	82.56	82.51	-0.054
8/1/10 2:00	81.99	81.94	-0.054
8/1/10 3:00	81.56	81.49	-0.072
8/1/10 4:00	81.13	81.06	-0.072
8/1/10 5:00	80.83	80.72	-0.108
8/1/10 6:00	80.52	80.42	-0.108
8/1/10 7:00	80.25	80.11	-0.144
8/1/10 8:00	79.90	79.75	-0.144
8/1/10 9:00	79.50	79.36	-0.144
8/1/10 10:00	79.16	78.99	-0.162
8/1/10 11:00	78.87	78.69	-0.18
8/1/10 12:00	78.57	78.37	-0.198
8/1/10 13:00	78.31	78.13	-0.18
8/1/10 14:00	78.26	78.10	-0.162
8/1/10 15:00	78.80	78.71	-0.09
8/1/10 16:00	79.75	79.75	0

8/1/10 17:00	80.76	80.87	0.108
8/1/10 18:00	81.77	81.99	0.216
8/1/10 19:00	82.46	82.76	0.306
8/1/10 20:00	82.95	83.28	0.324
8/1/10 21:00	83.20	83.59	0.396
8/1/10 22:00	83.20	83.48	0.288
8/1/10 23:00	83.16	83.26	0.108
8/2/10 0:00	82.80	82.87	0.072
8/2/10 1:00	82.24	82.22	-0.018
8/2/10 2:00	81.69	81.60	-0.09
8/2/10 3:00	81.27	81.18	-0.09
8/2/10 4:00	80.88	80.76	-0.126
8/2/10 5:00	80.69	80.55	-0.144
8/2/10 6:00	80.50	80.34	-0.162
8/2/10 7:00			
8/2/10 8:00			
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8/3/10 0:00			
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8/3/10 18:00			
8/3/10 19:00			
8/3/10 20:00			
8/3/10 21:00			
8/3/10 22:00	83.89	83.89	0
8/3/10 23:00	83.69	83.67	-0.018
8/4/10 0:00	83.42	83.38	-0.036
8/4/10 1:00	82.96	82.87	-0.09
8/4/10 2:00	82.45	82.35	-0.108
8/4/10 3:00	81.79	81.68	-0.108
8/4/10 4:00	81.39	81.28	-0.108
8/4/10 5:00	80.95	80.80	-0.144
8/4/10 6:00	80.47	80.33	-0.144
8/4/10 7:00	80.12	79.98	-0.144
8/4/10 8:00	79.76	79.60	-0.162
8/4/10 9:00	79.41	79.23	-0.18
8/4/10 10:00	79.07	78.87	-0.198
8/4/10 11:00	78.75	78.55	-0.198
8/4/10 12:00	78.45	78.25	-0.198
8/4/10 13:00	78.18	77.99	-0.198
8/4/10 14:00	78.18	78.02	-0.162
8/4/10 15:00	78.83	78.72	-0.108
8/4/10 16:00	79.71	79.70	-0.018
8/4/10 17:00	80.83	80.92	0.09
8/4/10 18:00	81.92	82.09	0.162
8/4/10 19:00	82.64	82.89	0.252
8/4/10 20:00	81.76	82.01	0.252
8/4/10 21:00	81.86	82.13	0.27
8/4/10 22:00	82.51	82.66	0.144
8/4/10 23:00	82.33	82.44	0.108
8/5/10 0:00	81.87	81.80	-0.072
8/5/10 1:00	81.38	81.25	-0.126
8/5/10 2:00	81.03	80.89	-0.144
8/5/10 3:00	80.62	80.47	-0.144
8/5/10 4:00	80.32	80.15	-0.162
8/5/10 5:00	80.18	80.00	-0.18
8/5/10 6:00	79.85	79.67	-0.18
8/5/10 7:00	79.47	79.27	-0.198
8/5/10 8:00	78.97	78.77	-0.198
8/5/10 9:00	78.54	78.32	-0.216
8/5/10 10:00	78.08	77.87	-0.216
8/5/10 11:00	77.66	77.42	-0.234
8/5/10 12:00	77.22	76.97	-0.252
8/5/10 13:00	76.88	76.64	-0.234
8/5/10 14:00	76.82	76.60	-0.216
8/5/10 15:00	77.49	77.35	-0.144
8/5/10 16:00	78.90	78.83	-0.072

8/5/10 17:00	80.66	80.69	0.036
8/5/10 18:00	82.06	82.21	0.144
8/5/10 19:00	83.46	83.71	0.252
8/5/10 20:00	84.31	84.65	0.342
8/5/10 21:00	84.55	84.91	0.36
8/5/10 22:00	84.30	84.71	0.414
8/5/10 23:00	84.17	84.62	0.45
8/6/10 0:00	82.71	83.12	0.414
8/6/10 1:00	81.46	81.73	0.27
8/6/10 2:00	80.55	80.78	0.234
8/6/10 3:00	79.70	79.89	0.198
8/6/10 4:00	79.21	79.36	0.144
8/6/10 5:00	78.99	79.10	0.108
8/6/10 6:00	78.84	78.88	0.036
8/6/10 7:00	78.57	78.55	-0.018
8/6/10 8:00	78.38	78.31	-0.072
8/6/10 9:00	78.16	78.07	-0.09
8/6/10 10:00	77.95	77.82	-0.126
8/6/10 11:00	77.73	77.61	-0.126
8/6/10 12:00	77.63	77.48	-0.144
8/6/10 13:00	77.46	77.30	-0.162
8/6/10 14:00	77.41	77.28	-0.126
8/6/10 15:00	77.55	77.48	-0.072
8/6/10 16:00	77.62	77.62	0
8/6/10 17:00	78.53	78.62	0.09
8/6/10 18:00	79.20	79.36	0.162
8/6/10 19:00	79.80	80.02	0.216
8/6/10 20:00	81.73	81.96	0.234
8/6/10 21:00	83.06	83.30	0.234
8/6/10 22:00	81.71	81.95	0.234
8/6/10 23:00	79.82	80.02	0.198
8/7/10 0:00	79.13	79.24	0.108
8/7/10 1:00	79.52	79.51	-0.018
8/7/10 2:00	79.17	79.12	-0.054
8/7/10 3:00	77.79	77.72	-0.072
8/7/10 4:00	77.50	77.41	-0.09
8/7/10 5:00	77.26	77.14	-0.126
8/7/10 6:00	77.04	76.91	-0.126
8/7/10 7:00	76.78	76.60	-0.18
8/7/10 8:00	76.66	76.48	-0.18
8/7/10 9:00	76.42	76.23	-0.198
8/7/10 10:00	76.13	75.93	-0.198
8/7/10 11:00	75.87	75.65	-0.216
8/7/10 12:00	75.53	75.29	-0.234
8/7/10 13:00	75.24	75.01	-0.234
8/7/10 14:00	75.30	75.11	-0.198
8/7/10 15:00	76.19	76.04	-0.144
8/7/10 16:00	78.17	78.10	-0.072

8/7/10 17:00	80.18	80.18	0
8/7/10 18:00	80.78	80.83	0.054
8/7/10 19:00	80.60	80.67	0.072
8/7/10 20:00	79.77	79.86	0.09
8/7/10 21:00	80.13	80.15	0.018
8/7/10 22:00	80.22	80.26	0.036
8/7/10 23:00	79.75	79.80	0.054
8/8/10 0:00	79.61	79.60	-0.018
8/8/10 1:00	78.97	78.88	-0.09
8/8/10 2:00	78.52	78.37	-0.144
8/8/10 3:00	77.65	77.50	-0.144
8/8/10 4:00	76.99	76.82	-0.162
8/8/10 5:00	76.70	76.54	-0.162
8/8/10 6:00	76.61	76.45	-0.162
8/8/10 7:00	76.59	76.43	-0.162
8/8/10 8:00	76.55	76.41	-0.144
8/8/10 9:00	76.41	76.27	-0.144
8/8/10 10:00	76.11	75.97	-0.144
8/8/10 11:00	75.97	75.84	-0.126
8/8/10 12:00	76.05	75.92	-0.126
8/8/10 13:00	76.16	76.06	-0.108
8/8/10 14:00	76.38	76.33	-0.054
8/8/10 15:00	76.89	76.89	0
8/8/10 16:00	77.66	77.75	0.09
8/8/10 17:00	78.70	78.86	0.162
8/8/10 18:00	79.00	79.20	0.198
8/8/10 19:00	79.11	79.34	0.234
8/8/10 20:00	79.80	80.00	0.198
8/8/10 21:00	79.66	79.77	0.108
8/8/10 22:00	79.57	79.67	0.108
8/8/10 23:00	80.11	80.11	0
8/9/10 0:00	80.17	80.15	-0.018
8/9/10 1:00	79.46	79.42	-0.036
8/9/10 2:00	78.83	78.76	-0.072
8/9/10 3:00	78.17	78.08	-0.09
8/9/10 4:00	77.50	77.39	-0.108
8/9/10 5:00	76.97	76.87	-0.108
8/9/10 6:00	76.67	76.56	-0.108
8/9/10 7:00	76.52	76.42	-0.108
8/9/10 8:00	76.46	76.34	-0.126
8/9/10 9:00	76.45	76.32	-0.126
8/9/10 10:00	76.50	76.36	-0.144
8/9/10 11:00	76.54	76.39	-0.144
8/9/10 12:00	76.42	76.27	-0.144
8/9/10 13:00	76.20	76.06	-0.144
8/9/10 14:00	76.22	76.11	-0.108
8/9/10 15:00	77.05	77.00	-0.054
8/9/10 16:00	79.25	79.25	0

8/9/10 17:00	82.09	82.16	0.072
8/9/10 18:00	84.94	85.07	0.126
8/9/10 19:00	87.31	87.46	0.144
8/9/10 20:00	88.07	88.16	0.09
8/9/10 21:00	87.30	87.28	-0.018
8/9/10 22:00	88.43	88.37	-0.054
8/9/10 23:00	87.77	87.77	0
8/10/10 0:00	86.59	86.58	-0.018
8/10/10 1:00	85.63	85.60	-0.036
8/10/10 2:00	84.03	83.96	-0.072
8/10/10 3:00	82.17	82.09	-0.072
8/10/10 4:00	80.82	80.73	-0.09
8/10/10 5:00	80.14	80.05	-0.09
8/10/10 6:00	79.83	79.74	-0.09
8/10/10 7:00	79.48	79.39	-0.09
8/10/10 8:00	79.15	79.06	-0.09
8/10/10 9:00	78.70	78.61	-0.09
8/10/10 10:00	78.40	78.31	-0.09
8/10/10 11:00	78.31	78.20	-0.108
8/10/10 12:00	77.97	77.90	-0.072
8/10/10 13:00	77.63	77.56	-0.072
8/10/10 14:00	77.58	77.54	-0.036
8/10/10 15:00	78.19	78.19	0
8/10/10 16:00	79.04	79.06	0.018
8/10/10 17:00	79.67	79.70	0.036
8/10/10 18:00	80.88	80.86	-0.018
8/10/10 19:00	81.06	81.14	0.072
8/10/10 20:00	81.08	81.15	0.072
8/10/10 21:00	83.77	83.81	0.036
8/10/10 22:00	86.15	86.20	0.054
8/10/10 23:00	86.31	86.29	-0.018
8/11/10 0:00	85.78	85.70	-0.072
8/11/10 1:00	84.35	84.26	-0.09
8/11/10 2:00	82.76	82.65	-0.108
8/11/10 3:00	81.08	80.95	-0.126
8/11/10 4:00	79.70	79.57	-0.126
8/11/10 5:00	78.81	78.69	-0.126
8/11/10 6:00	78.36	78.23	-0.126
8/11/10 7:00	77.95	77.83	-0.126
8/11/10 8:00	77.57	77.44	-0.126
8/11/10 9:00	77.35	77.22	-0.126
8/11/10 10:00	77.21	77.06	-0.144
8/11/10 11:00	76.76	76.62	-0.144
8/11/10 12:00	76.20	76.06	-0.144
8/11/10 13:00	75.75	75.61	-0.144
8/11/10 14:00	75.63	75.54	-0.09
8/11/10 15:00	76.01	75.95	-0.054
8/11/10 16:00	77.25	77.23	-0.018

8/11/10 17:00	79.76	79.74	-0.018
8/11/10 18:00	82.04	82.09	0.054
8/11/10 19:00	83.68	83.68	0
8/11/10 20:00	84.28	84.19	-0.09
8/11/10 21:00	84.25	84.18	-0.072
8/11/10 22:00	83.38	83.21	-0.162
8/11/10 23:00	82.37	82.30	-0.072
8/12/10 0:00	81.63	81.58	-0.054
8/12/10 1:00	80.19	80.12	-0.072
8/12/10 2:00	78.69	78.62	-0.072
8/12/10 3:00	77.31	77.22	-0.09
8/12/10 4:00	75.88	75.79	-0.09
8/12/10 5:00	74.82	74.71	-0.108
8/12/10 6:00	74.02	73.91	-0.108
8/12/10 7:00	73.49	73.36	-0.126
8/12/10 8:00	73.07	72.93	-0.144
8/12/10 9:00	72.82	72.68	-0.144
8/12/10 10:00	72.78	72.64	-0.144
8/12/10 11:00	72.80	72.64	-0.162
8/12/10 13:00	72.76	72.59	-0.162
8/12/10 14:00	72.46	72.32	-0.144
8/12/10 15:00	72.93	72.86	-0.072
8/12/10 16:00	75.16	75.16	0
8/12/10 17:00	78.84	78.91	0.072
8/12/10 18:00	82.58	82.75	0.162
8/12/10 19:00	86.25	86.50	0.252
8/12/10 20:00	89.06	89.17	0.108
8/12/10 21:00	89.14	89.26	0.126
8/12/10 22:00	88.01	88.17	0.162
8/12/10 23:00	87.46	87.46	0
8/13/10 0:00	86.57	86.46	-0.108
8/13/10 1:00	84.69	84.56	-0.126
8/13/10 2:00	82.14	82.02	-0.126
8/13/10 3:00	79.61	79.47	-0.144
8/13/10 4:00	77.84	77.72	-0.126
8/13/10 5:00	76.69	76.54	-0.144
8/13/10 6:00	75.95	75.79	-0.162
8/13/10 7:00	75.34	75.19	-0.144
8/13/10 8:00	74.68	74.52	-0.162
8/13/10 9:00	74.04	73.88	-0.162
8/13/10 10:00	73.50	73.34	-0.162
8/13/10 11:00	73.02	72.84	-0.18
8/13/10 12:00	72.59	72.41	-0.18
8/13/10 13:00	72.32	72.16	-0.162
8/13/10 14:00	72.25	72.10	-0.144
8/13/10 15:00	72.69	72.60	-0.09
8/13/10 16:00	74.77	74.77	0

8/13/10 17:00	78.42	78.53	0.108
8/13/10 18:00	82.96	83.14	0.18
8/13/10 19:00	86.73	86.95	0.216
8/13/10 20:00	89.32	89.34	0.018
8/13/10 21:00	89.79	89.85	0.054
8/13/10 22:00	88.57	88.63	0.054
8/13/10 23:00	86.76	86.81	0.054
8/14/10 0:00	86.07	86.09	0.018
8/14/10 1:00	84.40	84.31	-0.09
8/14/10 2:00	81.99	81.88	-0.108
8/14/10 3:00	79.87	79.76	-0.108
8/14/10 4:00	78.40	78.29	-0.108
8/14/10 5:00	77.49	77.36	-0.126
8/14/10 6:00	76.69	76.56	-0.126
8/14/10 7:00	76.10	75.97	-0.126
8/14/10 8:00	75.57	75.44	-0.126
8/14/10 9:00	75.08	74.96	-0.126
8/14/10 10:00	74.66	74.49	-0.162
8/14/10 11:00	74.21	74.06	-0.144
8/14/10 12:00	73.83	73.67	-0.162
8/14/10 13:00	73.49	73.33	-0.162
8/14/10 14:00	73.33	73.22	-0.108
8/14/10 15:00	73.68	73.63	-0.054
8/14/10 16:00	75.46	75.50	0.036
8/14/10 17:00	78.77	78.89	0.126
8/14/10 18:00	83.20	83.38	0.18
8/14/10 19:00	87.19	87.28	0.09
8/14/10 20:00	90.25	90.27	0.018
8/14/10 21:00	91.11	91.18	0.072
8/14/10 22:00	90.62	90.64	0.018
8/14/10 23:00	89.76	89.74	-0.018
8/15/10 0:00	88.24	88.18	-0.054
8/15/10 1:00	85.62	85.55	-0.072
8/15/10 2:00	83.11	83.05	-0.054
8/15/10 3:00	81.52	81.45	-0.072
8/15/10 4:00	80.47	80.40	-0.072
8/15/10 5:00	79.66	79.59	-0.072
8/15/10 6:00	79.02	78.93	-0.09
8/15/10 7:00	78.67	78.58	-0.09
8/15/10 8:00	78.38	78.29	-0.09
8/15/10 9:00	78.09	78.00	-0.09
8/15/10 10:00	77.76	77.65	-0.108
8/15/10 11:00	77.47	77.36	-0.108
8/15/10 12:00	77.39	77.26	-0.126
8/15/10 13:00	77.25	77.13	-0.126
8/15/10 14:00	77.22	77.13	-0.09
8/15/10 15:00	77.78	77.74	-0.036
8/15/10 16:00	79.11	79.14	0.036

8/15/10 17:00	81.23	81.36	0.126
8/15/10 18:00	83.75	83.95	0.198
8/15/10 19:00	86.62	86.83	0.216
8/15/10 20:00	89.63	89.90	0.27
8/15/10 21:00	91.85	92.08	0.234
8/15/10 22:00	90.99	91.27	0.288
8/15/10 23:00	88.36	88.68	0.324
8/16/10 0:00	87.05	87.30	0.252
8/16/10 1:00	86.70	86.90	0.198
8/16/10 2:00	85.59	85.71	0.126
8/16/10 3:00	83.62	83.71	0.09
8/16/10 4:00	81.79	81.84	0.054
8/16/10 5:00	80.56	80.57	0.018
8/16/10 6:00	79.81	79.81	0
8/16/10 7:00	79.39	79.36	-0.036
8/16/10 8:00	79.01	78.96	-0.054
8/16/10 9:00	78.53	78.44	-0.09
8/16/10 10:00	78.09	77.97	-0.126
8/16/10 11:00	77.60	77.44	-0.162
8/16/10 12:00	77.18	77.02	-0.162
8/16/10 13:00	77.00	76.82	-0.18
8/16/10 14:00	76.96	76.79	-0.162
8/16/10 15:00	77.48	77.36	-0.126
8/16/10 16:00	79.07	79.00	-0.072
8/16/10 17:00	82.24	82.26	0.018
8/16/10 18:00	86.53	86.53	0
8/16/10 19:00	90.04	90.11	0.072
8/16/10 20:00	91.54	91.63	0.09
8/16/10 21:00	90.22	90.24	0.018
8/16/10 22:00	89.28	89.37	0.09
8/16/10 23:00	89.42	89.49	0.072
8/17/10 0:00	89.32	89.24	-0.072
8/17/10 1:00	87.48	87.35	-0.126
8/17/10 2:00	85.01	84.85	-0.162
8/17/10 3:00	83.06	82.90	-0.162
8/17/10 4:00	81.50	81.32	-0.18
8/17/10 5:00	80.48	80.30	-0.18
8/17/10 6:00	79.79	79.59	-0.198
8/17/10 7:00	79.16	78.98	-0.18
8/17/10 8:00	78.60	78.40	-0.198
8/17/10 9:00	78.15	77.93	-0.216
8/17/10 10:00	77.86	77.66	-0.198
8/17/10 11:00	77.71	77.50	-0.216
8/17/10 12:00	77.75	77.55	-0.198
8/17/10 13:00	77.89	77.71	-0.18
8/17/10 14:00	77.94	77.77	-0.162
8/17/10 15:00	78.15	78.04	-0.108
8/17/10 16:00	78.87	78.83	-0.036

8/17/10 17:00	79.69	79.73	0.036
8/17/10 18:00	79.87	79.97	0.108
8/17/10 19:00			
8/17/10 20:00	79.54	79.72	0.18
8/17/10 21:00	79.52	79.72	0.198
8/17/10 22:00	79.05	79.25	0.198
8/17/10 23:00	78.14	78.35	0.216
8/18/10 0:00	77.23	77.41	0.18
8/18/10 1:00	76.18	76.29	0.108
8/18/10 2:00	75.43	75.52	0.09
8/18/10 3:00	75.09	75.09	0
8/18/10 4:00	75.21	75.19	-0.018
8/18/10 5:00	75.45	75.36	-0.09
8/18/10 6:00	75.53	75.40	-0.126
8/18/10 7:00	75.43	75.27	-0.162
8/18/10 8:00	75.30	75.12	-0.18
8/18/10 9:00	75.05	74.84	-0.216
8/18/10 10:00	74.82	74.61	-0.216
8/18/10 11:00	74.67	74.44	-0.234
8/18/10 12:00	74.64	74.40	-0.234
8/18/10 13:00	74.57	74.32	-0.252
8/18/10 14:00	74.44	74.23	-0.216
8/18/10 15:00	74.71	74.55	-0.162
8/18/10 16:00	75.92	75.83	-0.09
8/18/10 17:00	77.56	77.52	-0.036
8/18/10 18:00	79.53	79.61	0.072
8/18/10 19:00	81.59	81.68	0.09
8/18/10 20:00	83.26	83.37	0.108
8/18/10 21:00	84.00	83.96	-0.036
8/18/10 22:00	82.99	83.01	0.018
8/18/10 23:00	82.22	82.22	0
8/19/10 0:00	81.28	81.24	-0.036
8/19/10 1:00	80.33	80.25	-0.072
8/19/10 2:00	78.94	78.85	-0.09
8/19/10 3:00	77.76	77.65	-0.108
8/19/10 4:00	77.23	77.08	-0.144
8/19/10 5:00	77.18	77.02	-0.162
8/19/10 6:00	77.13	76.96	-0.162
8/19/10 7:00	76.79	76.61	-0.18
8/19/10 8:00	76.48	76.28	-0.198
8/19/10 9:00	76.23	76.03	-0.198
8/19/10 10:00	76.09	75.86	-0.234
8/19/10 11:00	76.26	76.03	-0.234
8/19/10 12:00	76.31	76.07	-0.234
8/19/10 13:00	75.96	75.70	-0.252
8/19/10 14:00	76.12	75.90	-0.216
8/19/10 15:00	76.55	76.37	-0.18
8/19/10 16:00	77.12	77.01	-0.108

8/19/10 17:00	77.92	77.90	-0.018
8/19/10 18:00	80.02	80.03	0.018
8/19/10 19:00	80.94	81.01	0.072
8/19/10 20:00	81.79	81.92	0.126
8/19/10 21:00	83.36	83.42	0.054
8/19/10 22:00	81.88	81.95	0.072
8/19/10 23:00	80.80	80.76	-0.036
8/20/10 0:00	79.78	79.75	-0.036
8/20/10 1:00	79.12	79.07	-0.054
8/20/10 2:00	78.25	78.18	-0.072
8/20/10 3:00	77.58	77.49	-0.09
8/20/10 4:00	77.27	77.14	-0.126
8/20/10 5:00	77.07	76.94	-0.126
8/20/10 6:00	76.86	76.72	-0.144
8/20/10 7:00	76.46	76.31	-0.144
8/20/10 8:00	75.98	75.82	-0.162
8/20/10 9:00	75.63	75.45	-0.18
8/20/10 10:00	75.42	75.24	-0.18
8/20/10 11:00	75.45	75.27	-0.18
8/20/10 12:00	75.43	75.25	-0.18
8/20/10 13:00	75.39	75.21	-0.18
8/20/10 14:00	75.31	75.15	-0.162
8/20/10 15:00	75.25	75.14	-0.108
8/20/10 16:00	75.20	75.16	-0.036
8/20/10 17:00	75.14	75.19	0.054
8/20/10 18:00	74.99	75.13	0.144
8/20/10 19:00	75.07	75.30	0.234
8/20/10 20:00	75.19	75.49	0.306
8/20/10 21:00	75.45	75.81	0.36
8/20/10 22:00	75.73	76.00	0.27
8/20/10 23:00	75.80	76.09	0.288
8/21/10 0:00	75.74	76.02	0.288
8/21/10 1:00	75.59	75.79	0.198
8/21/10 2:00	75.58	75.74	0.162
8/21/10 3:00	75.48	75.61	0.126
8/21/10 4:00	75.38	75.47	0.09
8/21/10 5:00	75.30	75.38	0.072
8/21/10 6:00	75.24	75.27	0.036
8/21/10 7:00	75.25	75.25	0
8/21/10 8:00	75.30	75.28	-0.018
8/21/10 9:00	75.32	75.29	-0.036
8/21/10 10:00	75.29	75.23	-0.054
8/21/10 11:00	75.17	75.10	-0.072
8/21/10 12:00	75.11	75.03	-0.072
8/21/10 13:00	75.07	74.98	-0.09
8/21/10 14:00	75.22	75.15	-0.072
8/21/10 15:00	75.78	75.76	-0.018
8/21/10 16:00	76.83	76.87	0.036

8/21/10 17:00	77.70	77.81	0.108
8/21/10 18:00	77.88	78.02	0.144
8/21/10 19:00	78.82	78.94	0.126
8/21/10 20:00	80.02	80.16	0.144
8/21/10 21:00	80.83	80.83	0
8/21/10 22:00	80.96	80.96	0
8/21/10 23:00	83.84	83.73	-0.108
8/22/10 0:00	84.16	84.07	-0.09
8/22/10 1:00	81.68	81.57	-0.108
8/22/10 2:00	79.85	79.74	-0.108
8/22/10 3:00	77.92	77.81	-0.108
8/22/10 4:00	76.52	76.38	-0.144
8/22/10 5:00	75.70	75.53	-0.162
8/22/10 6:00	75.13	74.97	-0.162
8/22/10 7:00	74.72	74.54	-0.18
8/22/10 8:00	74.34	74.14	-0.198
8/22/10 9:00	74.03	73.81	-0.216
8/22/10 10:00	73.97	73.76	-0.216
8/22/10 11:00	74.10	73.87	-0.234
8/22/10 12:00	73.99	73.72	-0.27
8/22/10 13:00	73.74	73.47	-0.27
8/22/10 14:00	73.62	73.37	-0.252
8/22/10 15:00	73.90	73.70	-0.198
8/22/10 16:00	75.14	75.01	-0.126
8/22/10 17:00	77.73	77.69	-0.036
8/22/10 18:00	80.74	80.80	0.054
8/22/10 19:00	84.01	84.06	0.054
8/22/10 20:00	84.74	84.77	0.036
8/22/10 21:00	84.36	84.38	0.018
8/22/10 22:00	84.12	84.14	0.018
8/22/10 23:00	84.03	84.01	-0.018
8/23/10 0:00	83.81	83.65	-0.162
8/23/10 1:00	81.82	81.68	-0.144
8/23/10 2:00	79.23	79.07	-0.162
8/23/10 3:00	77.44	77.27	-0.162
8/23/10 4:00	76.35	76.19	-0.162
8/23/10 5:00	75.71	75.55	-0.162
8/23/10 6:00	75.28	75.10	-0.18
8/23/10 7:00	74.84	74.65	-0.198
8/23/10 8:00	74.44	74.24	-0.198
8/23/10 9:00	74.06	73.86	-0.198
8/23/10 10:00	73.79	73.59	-0.198
8/23/10 11:00	73.55	73.36	-0.198
8/23/10 12:00	73.27	73.08	-0.198
8/23/10 13:00	72.92	72.71	-0.216
8/23/10 14:00	72.80	72.62	-0.18
8/23/10 15:00	73.42	73.29	-0.126
8/23/10 16:00	75.29	75.25	-0.036

8/23/10 17:00	77.13	77.16	0.036
8/23/10 18:00	79.82	79.97	0.144
8/23/10 19:00	82.25	82.48	0.234
8/23/10 20:00	82.22	82.49	0.27
8/23/10 21:00	80.81	81.10	0.288
8/23/10 22:00	79.47	79.77	0.306
8/23/10 23:00	78.63	78.90	0.27
8/24/10 0:00	78.30	78.48	0.18
8/24/10 1:00	78.39	78.53	0.144
8/24/10 2:00	78.31	78.41	0.108
8/24/10 3:00	76.89	76.95	0.054
8/24/10 4:00	75.38	75.40	0.018
8/24/10 5:00	74.59	74.56	-0.036
8/24/10 6:00	74.18	74.08	-0.108
8/24/10 7:00	73.90	73.76	-0.144
8/24/10 8:00	73.63	73.45	-0.18
8/24/10 9:00	73.37	73.19	-0.18
8/24/10 10:00	73.18	72.96	-0.216
8/24/10 11:00	72.98	72.74	-0.234
8/24/10 12:00	72.86	72.63	-0.234
8/24/10 13:00	72.97	72.72	-0.252
8/24/10 14:00	73.16	72.95	-0.216
8/24/10 15:00	73.72	73.54	-0.18
8/24/10 16:00	74.93	74.82	-0.108
8/24/10 17:00	77.18	77.18	0
8/24/10 18:00	80.23	80.34	0.108
8/24/10 19:00	82.66	82.84	0.18
8/24/10 20:00	84.47	84.58	0.108
8/24/10 21:00	85.42	85.52	0.108
8/24/10 22:00	85.53	85.42	-0.108
8/24/10 23:00	84.98	84.92	-0.054
8/25/10 0:00	83.41	83.34	-0.072
8/25/10 1:00	81.28	81.20	-0.072
8/25/10 2:00	79.10	79.03	-0.072
8/25/10 3:00	77.83	77.74	-0.09
8/25/10 4:00	77.00	76.90	-0.108
8/25/10 5:00	76.44	76.33	-0.108
8/25/10 6:00	76.04	75.93	-0.108
8/25/10 7:00	75.71	75.58	-0.126
8/25/10 8:00	75.37	75.22	-0.144
8/25/10 9:00	75.12	74.96	-0.162
8/25/10 10:00	74.89	74.72	-0.162
8/25/10 11:00	74.63	74.45	-0.18
8/25/10 12:00	74.34	74.16	-0.18
8/25/10 13:00	74.16	73.98	-0.18
8/25/10 14:00	74.21	74.05	-0.162
8/25/10 15:00	74.76	74.65	-0.108
8/25/10 16:00	76.48	76.46	-0.018

8/25/10 17:00	79.45	79.48	0.036
8/25/10 18:00	82.87	83.01	0.144
8/25/10 19:00	85.61	85.64	0.036
8/25/10 20:00	86.89	86.84	-0.054
8/25/10 21:00	87.72	87.70	-0.018
8/25/10 22:00	87.70	87.66	-0.036
8/25/10 23:00	87.00	86.95	-0.054
8/26/10 0:00	85.66	85.55	-0.108
8/26/10 1:00	83.48	83.35	-0.126
8/26/10 2:00	80.98	80.86	-0.126
8/26/10 3:00	78.53	78.37	-0.162
8/26/10 4:00	76.69	76.52	-0.162
8/26/10 5:00	75.39	75.21	-0.18
8/26/10 6:00	74.55	74.35	-0.198
8/26/10 7:00	73.85	73.66	-0.198
8/26/10 8:00	73.29	73.09	-0.198
8/26/10 9:00	72.77	72.58	-0.198
8/26/10 10:00	72.39	72.18	-0.216
8/26/10 11:00	72.09	71.87	-0.216
8/26/10 13:00	71.49	71.29	-0.198
8/26/10 14:00	71.35	71.19	-0.162
8/26/10 15:00	71.87	71.76	-0.108
8/26/10 16:00	73.85	73.83	-0.018
8/26/10 17:00	76.97	77.06	0.09
8/26/10 18:00	79.81	79.97	0.162
8/26/10 19:00	82.21	82.45	0.234
8/26/10 20:00	84.06	84.34	0.288
8/26/10 21:00	84.55	84.80	0.252
8/26/10 22:00	84.51	84.79	0.288
8/26/10 23:00	83.47	83.65	0.18
8/27/10 0:00	81.68	81.81	0.126
8/27/10 1:00	79.71	79.82	0.108
8/27/10 2:00	78.16	78.27	0.108
8/27/10 3:00	77.24	77.26	0.018
8/27/10 4:00	76.61	76.59	-0.018
8/27/10 5:00	76.13	76.11	-0.018
8/27/10 6:00	75.95	75.90	-0.054
8/27/10 7:00	75.73	75.64	-0.09
8/27/10 8:00	75.56	75.47	-0.09
8/27/10 9:00	75.41	75.32	-0.09
8/27/10 10:00	75.20	75.11	-0.09
8/27/10 11:00	74.80	74.69	-0.108
8/27/10 12:00	74.59	74.50	-0.09
8/27/10 13:00	74.74	74.66	-0.072
8/27/10 14:00	74.91	74.85	-0.054
8/27/10 15:00	74.66	74.65	-0.018
8/27/10 16:00	74.19	74.22	0.036

8/27/10 17:00	74.03	74.12	0.09
8/27/10 18:00	75.10	75.22	0.126
8/27/10 19:00	76.70	76.90	0.198
8/27/10 20:00	78.08	78.32	0.234
8/27/10 21:00	77.70	77.90	0.198
8/27/10 22:00	77.36	77.23	-0.126
8/27/10 23:00	77.86	77.77	-0.09
8/28/10 0:00	79.53	79.40	-0.126
8/28/10 1:00	78.63	78.47	-0.162
8/28/10 2:00	77.05	76.85	-0.198
8/28/10 3:00	75.90	75.74	-0.162
8/28/10 4:00	75.66	75.52	-0.144
8/28/10 5:00	75.25	75.12	-0.126
8/28/10 6:00	75.09	74.96	-0.126
8/28/10 7:00	74.97	74.84	-0.126
8/28/10 8:00	74.61	74.48	-0.126
8/28/10 9:00	74.17	74.03	-0.144
8/28/10 10:00	74.16	74.02	-0.144
8/28/10 11:00	73.94	73.79	-0.144
8/28/10 12:00	73.82	73.68	-0.144
8/28/10 13:00	73.82	73.69	-0.126
8/28/10 14:00	73.98	73.85	-0.126
8/28/10 15:00	74.15	74.06	-0.09
8/28/10 16:00	74.55	74.53	-0.018
8/28/10 17:00	75.15	75.22	0.072
8/28/10 18:00	75.15	75.31	0.162
8/28/10 19:00	75.36	75.56	0.198
8/28/10 20:00	76.96	77.14	0.18
8/28/10 21:00	78.47	78.67	0.198
8/28/10 22:00	77.09	77.25	0.162
8/28/10 23:00	75.34	75.46	0.126
8/29/10 0:00	75.06	75.02	-0.036
8/29/10 1:00	75.11	75.00	-0.108
8/29/10 2:00	74.38	74.24	-0.144
8/29/10 3:00	74.26	74.10	-0.162
8/29/10 4:00	74.29	74.11	-0.18
8/29/10 5:00	74.24	74.04	-0.198
8/29/10 6:00	74.06	73.86	-0.198
8/29/10 7:00	73.83	73.63	-0.198
8/29/10 8:00	73.60	73.40	-0.198
8/29/10 9:00	73.47	73.26	-0.216
8/29/10 10:00	73.34	73.13	-0.216
8/29/10 11:00	73.22	73.01	-0.216
8/29/10 12:00	73.12	72.90	-0.216
8/29/10 13:00	73.00	72.78	-0.216
8/29/10 14:00	72.94	72.74	-0.198
8/29/10 15:00	73.08	72.94	-0.144
8/29/10 16:00	73.65	73.58	-0.072

8/29/10 17:00	73.54	73.55	0.018
8/29/10 18:00	73.63	73.73	0.108
8/29/10 19:00	74.09	74.25	0.162
8/29/10 20:00	74.66	74.84	0.18
8/29/10 21:00	74.19	74.33	0.144
8/29/10 22:00	74.47	74.62	0.144
8/29/10 23:00	74.03	74.08	0.054
8/30/10 0:00	73.66	73.70	0.036
8/30/10 1:00	73.58	73.58	0
8/30/10 2:00	73.50	73.47	-0.036
8/30/10 3:00	73.25	73.18	-0.072
8/30/10 4:00	73.14	73.05	-0.09
8/30/10 5:00	73.08	72.97	-0.108
8/30/10 6:00	73.02	72.91	-0.108
8/30/10 7:00	72.92	72.82	-0.108
8/30/10 8:00	72.80	72.67	-0.126
8/30/10 9:00	72.72	72.59	-0.126
8/30/10 10:00	72.60	72.46	-0.144
8/30/10 11:00	72.48	72.32	-0.162
8/30/10 12:00	72.44	72.28	-0.162
8/30/10 13:00	72.37	72.21	-0.162
8/30/10 14:00	72.25	72.09	-0.162
8/30/10 15:00	72.33	72.20	-0.126
8/30/10 16:00	72.54	72.49	-0.054
8/30/10 17:00	72.77	72.79	0.018
8/30/10 18:00	72.61	72.68	0.072
8/30/10 19:00	72.88	72.99	0.108
8/30/10 20:00	73.23	73.36	0.126
8/30/10 21:00	73.22	73.33	0.108
8/30/10 22:00	73.00	73.12	0.126
8/30/10 23:00	72.98	73.07	0.09
8/31/10 0:00	72.90	72.93	0.036
8/31/10 1:00	72.68	72.70	0.018
8/31/10 2:00	72.50	72.50	0
8/31/10 3:00	72.23	72.21	-0.018
8/31/10 4:00	72.03	71.98	-0.054
8/31/10 5:00	71.85	71.78	-0.072
8/31/10 6:00	71.69	71.60	-0.09
8/31/10 7:00	71.51	71.40	-0.108
8/31/10 8:00	71.32	71.20	-0.126
8/31/10 9:00	71.20	71.03	-0.162
8/31/10 10:00	71.09	70.93	-0.162
8/31/10 11:00	70.94	70.76	-0.18
8/31/10 12:00	70.80	70.61	-0.198
8/31/10 13:00	70.67	70.47	-0.198
8/31/10 14:00	70.58	70.38	-0.198
8/31/10 15:00	70.59	70.43	-0.162
8/31/10 16:00	70.92	70.83	-0.09

8/31/10 17:00	71.44	71.38	-0.054
8/31/10 18:00	71.71	71.74	0.036
8/31/10 19:00			0.108
8/31/10 20:00	72.26	72.33	0.072
8/31/10 21:00	72.60	72.64	0.036
8/31/10 22:00	72.82	72.78	-0.036
8/31/10 23:00	72.80	72.64	-0.162

Sonde 3 Environmental Lab (shallow)

Day	Tdata (F)	Tmodified (F)	delta T (F)
6/22/10 16:00	77.59	78.40	0.81
6/22/10 17:00	77.70	77.76	0.054
6/22/10 18:00	77.68	77.65	-0.036
6/22/10 19:00	77.68	77.59	-0.09
6/22/10 20:00	77.49	77.27	-0.216
6/22/10 21:00	77.41	77.13	-0.288
6/22/10 22:00	77.29	76.95	-0.342
6/22/10 23:00	77.18	76.80	-0.378
6/23/10 0:00	77.04	76.62	-0.414
6/23/10 1:00	76.86	76.44	-0.414
6/23/10 2:00	76.71	76.28	-0.432
6/23/10 3:00	76.55	76.10	-0.45
6/23/10 4:00	76.44	76.03	-0.414
6/23/10 5:00	76.23	75.83	-0.396
6/23/10 6:00	75.69	75.36	-0.324
6/23/10 7:00	75.97	75.79	-0.18
6/23/10 8:00	76.30	76.32	0.018
6/23/10 9:00	77.09	77.32	0.234
6/23/10 10:00	77.95	78.39	0.432
6/23/10 15:00	79.90	80.03	0.126
6/23/10 16:00	79.78	79.89	0.108
6/23/10 17:00	79.52	79.38	-0.144
6/23/10 18:00	79.14	78.96	-0.18
6/23/10 19:00	78.69	78.44	-0.252
6/23/10 20:00	78.43	78.16	-0.27
6/23/10 21:00	78.20	77.87	-0.324
6/23/10 22:00	77.93	77.59	-0.342
6/23/10 23:00	77.72	77.36	-0.36
6/24/10 0:00	77.48	77.12	-0.36
6/24/10 1:00	77.29	77.02	-0.27
6/24/10 2:00	77.14	76.98	-0.162
6/24/10 3:00	77.06	76.91	-0.144
6/24/10 4:00	76.94	76.83	-0.108
6/24/10 5:00	76.79	76.67	-0.126
6/24/10 6:00	76.71	76.62	-0.09
6/24/10 7:00	76.77	76.88	0.108
6/24/10 8:00	76.90	77.06	0.162
6/24/10 9:00	77.32	77.57	0.252
6/24/10 10:00	78.11	78.24	0.126
6/24/10 11:00	79.05	78.94	-0.108
6/24/10 12:00	79.40	79.51	0.108
6/24/10 13:00	79.51	79.46	-0.054
6/24/10 14:00	79.66	79.58	-0.072

6/24/10 15:00	79.69	79.52	-0.162
6/24/10 16:00	79.63	79.69	0.054
6/24/10 17:00	79.48	79.45	-0.036
6/24/10 18:00	79.22	79.13	-0.09
6/24/10 19:00	78.90	78.74	-0.162
6/24/10 20:00	78.58	78.42	-0.162
6/24/10 21:00	78.36	78.34	-0.018
6/24/10 22:00	78.03	77.98	-0.054
6/24/10 23:00	77.81	77.73	-0.072
6/25/10 0:00	77.68	77.59	-0.09
6/25/10 1:00	77.56	77.45	-0.108
6/25/10 2:00	77.24	77.11	-0.126
6/25/10 3:00	77.06	76.92	-0.144
6/25/10 4:00	76.68	76.50	-0.18
6/25/10 5:00	76.45	76.25	-0.198
6/25/10 6:00	76.26	76.08	-0.18
6/25/10 7:00	76.73	76.68	-0.054
6/25/10 8:00	77.41	77.52	0.108
6/25/10 9:00	78.38	78.67	0.288
6/25/10 10:00	79.42	79.82	0.396
6/25/10 11:00	80.42	80.59	0.162
6/25/10 12:00	81.07	81.52	0.45
6/25/10 13:00	81.14	81.77	0.63
6/25/10 14:00	81.21	81.91	0.702
6/25/10 15:00	81.30	81.54	0.234
6/25/10 16:00	80.97	80.83	-0.144
6/25/10 17:00	80.86	80.74	-0.126
6/25/10 18:00	80.47	80.29	-0.18
6/25/10 19:00	79.91	79.64	-0.27
6/25/10 20:00	79.53	79.21	-0.324
6/25/10 21:00	78.93	78.53	-0.396
6/25/10 22:00	78.44	78.01	-0.432
6/25/10 23:00	77.79	77.34	-0.45
6/26/10 0:00	77.68	77.23	-0.45
6/26/10 1:00	76.94	76.46	-0.486
6/26/10 2:00	76.95	76.46	-0.486
6/26/10 3:00	76.59	76.09	-0.504
6/26/10 4:00	76.54	76.03	-0.504
6/26/10 5:00	76.42	75.93	-0.486
6/26/10 6:00	76.12	75.70	-0.414
6/26/10 7:00	76.40	76.10	-0.306
6/26/10 8:00	77.24	77.13	-0.108
6/26/10 9:00	78.44	78.56	0.126
6/26/10 10:00	79.74	80.08	0.342
6/26/10 11:00	80.92	81.20	0.288
6/26/10 12:00	81.71	82.23	0.522
6/26/10 13:00	82.08	81.83	-0.252
6/26/10 14:00	82.31	82.24	-0.072
6/26/10 15:00	82.24	82.19	-0.054
6/26/10 16:00	81.77	81.84	0.072

6/26/10 17:00	81.42	81.49	0.072
6/26/10 18:00	81.01	81.05	0.036
6/26/10 19:00	80.45	80.43	-0.018
6/26/10 20:00	80.01	79.86	-0.144
6/26/10 21:00	79.53	79.28	-0.252
6/26/10 22:00	79.06	78.72	-0.342
6/26/10 23:00	78.62	78.24	-0.378
6/27/10 0:00	78.23	77.84	-0.396
6/27/10 1:00	77.88	77.49	-0.396
6/27/10 2:00	77.56	77.20	-0.36
6/27/10 3:00	77.22	76.84	-0.378
6/27/10 4:00	76.87	76.49	-0.378
6/27/10 5:00	76.85	76.49	-0.36
6/27/10 6:00	76.69	76.39	-0.306
6/27/10 7:00	76.33	76.11	-0.216
6/27/10 8:00	76.69	76.62	-0.072
6/27/10 9:00	77.36	77.58	0.216
6/27/10 10:00	78.40	78.76	0.36
6/27/10 11:00	79.54	80.06	0.522
6/27/10 12:00	80.14	79.96	-0.18
6/27/10 13:00	80.19	80.26	0.072
6/27/10 14:00	80.47	80.47	0
6/27/10 15:00	81.18	81.14	-0.036
6/27/10 16:00	81.51	81.41	-0.108
6/27/10 17:00	81.50	81.41	-0.09
6/27/10 18:00	81.51	81.35	-0.162
6/27/10 19:00	81.14	81.00	-0.144
6/27/10 20:00	80.86	80.72	-0.144
6/27/10 21:00	80.51	80.36	-0.144
6/27/10 22:00	80.12	80.00	-0.126
6/27/10 23:00	79.73	79.62	-0.108
6/28/10 0:00	79.42	79.33	-0.09
6/28/10 1:00	79.22	79.18	-0.036
6/28/10 2:00	79.06	79.04	-0.018
6/28/10 3:00	78.94	78.93	-0.018
6/28/10 4:00	78.89	78.85	-0.036
6/28/10 5:00	78.80	78.78	-0.018
6/28/10 6:00	78.71	78.72	0.018
6/28/10 7:00	78.88	78.97	0.09
6/28/10 8:00	79.13	79.31	0.18
6/28/10 9:00	79.63	79.83	0.198
6/28/10 10:00	80.34	80.51	0.162
6/28/10 11:00	80.56	80.60	0.036
6/28/10 12:00	80.51	80.71	0.198
6/28/10 13:00	80.41	80.66	0.252
6/28/10 14:00	80.21	80.41	0.198
6/28/10 15:00	80.15	80.09	-0.054
6/28/10 16:00	80.22	80.06	-0.162
6/28/10 17:00	80.28	80.14	-0.144
6/28/10 18:00	80.30	80.08	-0.216

6/28/10 19:00	80.21	80.03	-0.18
6/28/10 20:00	80.01	79.83	-0.18
6/28/10 21:00	79.63	79.43	-0.198
6/28/10 22:00	79.34	79.12	-0.216
6/28/10 23:00	79.02	78.78	-0.234
6/29/10 0:00	78.76	78.53	-0.234
6/29/10 1:00	78.55	78.31	-0.234
6/29/10 2:00	78.48	78.26	-0.216
6/29/10 3:00	78.15	77.95	-0.198
6/29/10 4:00	78.14	77.93	-0.216
6/29/10 5:00	77.91	77.66	-0.252
6/29/10 6:00	77.90	77.70	-0.198
6/29/10 7:00	78.11	78.02	-0.09
6/29/10 8:00	78.26	78.30	0.036
6/29/10 9:00	78.46	78.62	0.162
6/29/10 10:00	78.98	78.54	-0.432
6/29/10 11:00	79.73	79.89	0.162
6/29/10 12:00	80.40	80.51	0.108
6/29/10 13:00	80.93	80.92	-0.018
6/29/10 14:00	81.37	81.15	-0.216
6/29/10 15:00	81.32	81.30	-0.018
6/29/10 16:00	81.14	81.14	0
6/29/10 17:00	80.68	80.54	-0.144
6/29/10 18:00	80.08	79.92	-0.162
6/29/10 19:00	79.39	79.28	-0.108
6/29/10 20:00	78.69	78.58	-0.108
6/29/10 21:00	78.00	77.87	-0.126
6/29/10 22:00	77.47	77.29	-0.18
6/29/10 23:00	76.75	76.55	-0.198
6/30/10 0:00	76.25	76.02	-0.234
6/30/10 1:00	75.97	75.72	-0.252
6/30/10 2:00	75.45	75.22	-0.234
6/30/10 3:00	75.06	74.80	-0.252
6/30/10 4:00	74.67	74.40	-0.27
6/30/10 5:00	74.10	73.81	-0.288
6/30/10 6:00	73.99	73.72	-0.27
6/30/10 7:00	74.24	74.13	-0.108
6/30/10 8:00	75.09	75.16	0.072
6/30/10 9:00	76.29	76.53	0.234
6/30/10 10:00	77.92	78.28	0.36
6/30/10 11:00	78.95	79.40	0.45
6/30/10 12:00	79.77	80.24	0.468
6/30/10 13:00	79.82	79.91	0.09
6/30/10 14:00	80.67	80.47	-0.198
6/30/10 15:00	80.38	80.29	-0.09
6/30/10 16:00	79.66	79.64	-0.018
6/30/10 17:00	78.99	78.94	-0.054
6/30/10 18:00	78.53	78.39	-0.144
6/30/10 19:00	78.06	77.86	-0.198
6/30/10 20:00	77.36	77.13	-0.234

6/30/10 21:00	76.66	76.39	-0.27
6/30/10 22:00	76.04	75.73	-0.306
6/30/10 23:00	75.56	75.26	-0.306
7/1/10 0:00	75.09	74.75	-0.342
7/1/10 1:00	74.37	73.99	-0.378
7/1/10 2:00	73.99	73.57	-0.414
7/1/10 3:00	73.63	73.20	-0.432
7/1/10 4:00	73.00	72.55	-0.45
7/1/10 5:00	72.80	72.35	-0.45
7/1/10 6:00	72.39	71.98	-0.414
7/1/10 7:00	72.84	72.55	-0.288
7/1/10 8:00	73.82	73.94	0.126
7/1/10 9:00	74.92	75.19	0.27
7/1/10 10:00	76.32	76.48	0.162
7/1/10 11:00	77.49	77.68	0.198
7/1/10 12:00	77.52	77.50	-0.018
7/1/10 13:00	77.32	77.43	0.108
7/1/10 14:00	77.31	77.31	0
7/1/10 15:00	77.28	76.94	-0.342
7/1/10 16:00	76.32	76.36	0.036
7/1/10 17:00	76.09	76.10	0.018
7/1/10 18:00	75.65	75.48	-0.162
7/1/10 19:00	75.31	75.15	-0.162
7/1/10 20:00	74.77	74.61	-0.162
7/1/10 21:00	74.17	73.99	-0.18
7/1/10 22:00	73.61	73.41	-0.198
7/1/10 23:00	73.18	72.95	-0.234
7/2/10 0:00	72.62	72.37	-0.252
7/2/10 1:00	72.58	72.31	-0.27
7/2/10 2:00	72.18	71.87	-0.306
7/2/10 3:00	72.02	71.69	-0.324
7/2/10 4:00	71.72	71.38	-0.342
7/2/10 5:00	71.29	70.91	-0.378
7/2/10 6:00	70.97	70.63	-0.342
7/2/10 7:00	71.52	71.29	-0.234
7/2/10 8:00	72.34	72.28	-0.054
7/2/10 9:00	73.57	73.76	0.198
7/2/10 10:00	75.08	75.55	0.468
7/2/10 11:00	76.14	76.63	0.486
7/2/10 12:00	77.23	77.32	0.09
7/2/10 13:00	77.76	78.05	0.288
7/2/10 14:00	77.15	77.22	0.072
7/2/10 15:00	77.04	77.20	0.162
7/2/10 16:00	76.89	76.87	-0.018
7/2/10 17:00	76.47	76.49	0.018
7/2/10 18:00	76.00	76.02	0.018
7/2/10 19:00	75.54	75.45	-0.09
7/2/10 20:00	75.15	74.97	-0.18
7/2/10 21:00	74.68	74.39	-0.288
7/2/10 22:00	74.07	73.71	-0.36

7/2/10 23:00	73.51	73.11	-0.396
7/3/10 0:00	72.99	72.57	-0.414
7/3/10 1:00	72.90	72.48	-0.414
7/3/10 2:00	72.58	72.17	-0.414
7/3/10 3:00	72.06	71.66	-0.396
7/3/10 4:00	72.01	71.65	-0.36
7/3/10 5:00	71.84	71.46	-0.378
7/3/10 6:00	71.76	71.42	-0.342
7/3/10 7:00	72.02	71.79	-0.234
7/3/10 8:00	72.93	72.89	-0.036
7/3/10 9:00	74.35	74.59	0.234
7/3/10 10:00	75.69	76.19	0.504
7/3/10 11:00	77.09	77.76	0.666
7/3/10 12:00	77.99	78.89	0.9
7/3/10 13:00	78.65	79.46	0.81
7/3/10 14:00	78.86	79.64	0.774
7/3/10 15:00	78.64	79.56	0.918
7/3/10 16:00	78.03	78.55	0.522
7/3/10 17:00	77.55	77.51	-0.036
7/3/10 18:00	77.16	76.94	-0.216
7/3/10 19:00	76.72	76.41	-0.306
7/3/10 20:00	76.19	75.83	-0.36
7/3/10 21:00	75.68	75.30	-0.378
7/3/10 22:00	75.14	74.73	-0.414
7/3/10 23:00	74.79	74.34	-0.45
7/4/10 0:00	74.40	73.94	-0.468
7/4/10 1:00	74.14	73.63	-0.504
7/4/10 2:00	73.58	73.06	-0.522
7/4/10 3:00	73.35	72.81	-0.54
7/4/10 4:00	73.34	72.80	-0.54
7/4/10 5:00	73.02	72.46	-0.558
7/4/10 6:00	73.05	72.51	-0.54
7/4/10 7:00	73.38	72.98	-0.396
7/4/10 8:00	74.26	74.07	-0.198
7/4/10 9:00	75.74	75.82	0.072
7/4/10 10:00	77.39	77.73	0.342
7/4/10 11:00	78.67	79.19	0.522
7/4/10 12:00	79.88	80.46	0.576
7/4/10 13:00	80.58	80.34	-0.234
7/4/10 14:00	80.80	80.62	-0.18
7/4/10 15:00	80.60	80.53	-0.072
7/4/10 16:00	80.27	80.02	-0.252
7/4/10 17:00	79.88	79.76	-0.126
7/4/10 18:00	79.62	79.53	-0.09
7/4/10 19:00	78.99	78.94	-0.054
7/4/10 20:00	78.34	78.28	-0.054
7/4/10 21:00	77.70	77.61	-0.09
7/4/10 22:00	77.23	77.12	-0.108
7/4/10 23:00	76.67	76.54	-0.126
7/5/10 0:00	76.17	76.03	-0.144

7/5/10 1:00	75.61	75.43	-0.18
7/5/10 2:00	75.18	74.98	-0.198
7/5/10 3:00	75.03	74.81	-0.216
7/5/10 4:00	74.82	74.59	-0.234
7/5/10 5:00	74.75	74.49	-0.252
7/5/10 6:00	74.66	74.43	-0.234
7/5/10 7:00	75.05	74.93	-0.126
7/5/10 8:00	75.99	76.06	0.072
7/5/10 9:00	77.75	78.09	0.342
7/5/10 10:00	79.20	79.81	0.612
7/5/10 11:00	80.85	81.68	0.828
7/5/10 12:00	82.21	82.57	0.36
7/5/10 13:00	82.80	82.85	0.054
7/5/10 14:00	83.13	83.37	0.234
7/5/10 15:00	83.09	83.25	0.162
7/5/10 16:00	82.67	82.46	-0.216
7/5/10 17:00	82.25	82.05	-0.198
7/5/10 18:00	81.99	81.83	-0.162
7/5/10 19:00	81.41	81.21	-0.198
7/5/10 20:00	80.92	80.69	-0.234
7/5/10 21:00	80.34	80.07	-0.27
7/5/10 22:00	79.75	79.44	-0.306
7/5/10 23:00	79.16	78.84	-0.324
7/6/10 0:00	78.62	78.30	-0.324
7/6/10 1:00	78.22	77.92	-0.306
7/6/10 2:00	77.89	77.57	-0.324
7/6/10 3:00	77.60	77.27	-0.324
7/6/10 4:00	77.27	76.95	-0.324
7/6/10 5:00	77.14	76.83	-0.306
7/6/10 6:00	77.16	76.91	-0.252
7/6/10 7:00	77.51	77.37	-0.144
7/6/10 8:00	78.56	78.61	0.054
7/6/10 9:00	80.21	80.52	0.306
7/6/10 10:00	81.86	82.39	0.522
7/6/10 11:00	83.78	84.17	0.396
7/6/10 12:00	85.45	85.88	0.432
7/6/10 13:00	85.46	85.96	0.504
7/6/10 14:00	84.84	85.52	0.684
7/6/10 15:00	84.81	84.88	0.072
7/6/10 16:00	84.57	84.70	0.126
7/6/10 17:00	84.25	84.41	0.162
7/6/10 18:00	84.03	84.07	0.036
7/6/10 19:00	83.90	83.84	-0.054
7/6/10 20:00	83.35	83.17	-0.18
7/6/10 21:00	82.62	82.24	-0.378
7/6/10 22:00	81.96	81.53	-0.432
7/6/10 23:00	81.64	81.21	-0.432
7/7/10 0:00	81.04	80.62	-0.414
7/7/10 1:00	80.66	80.23	-0.432
7/7/10 2:00	80.31	79.88	-0.432

7/7/10 3:00	80.00	79.58	-0.414
7/7/10 4:00	79.75	79.34	-0.414
7/7/10 5:00	79.45	79.07	-0.378
7/7/10 6:00	79.36	79.04	-0.324
7/7/10 7:00	79.79	79.59	-0.198
7/7/10 8:00	80.75	80.73	-0.018
7/7/10 9:00	82.40	82.61	0.216
7/7/10 10:00	84.24	84.36	0.126
7/7/10 11:00	86.29	86.58	0.288
7/7/10 12:00	87.24	87.53	0.288
7/7/10 13:00	88.07	88.07	0
7/7/10 14:00	88.07	87.69	-0.378
7/7/10 15:00	87.60	87.54	-0.054
7/7/10 16:00	87.08	87.22	0.144
7/7/10 17:00	86.71	86.76	0.054
7/7/10 18:00	86.22	85.80	-0.414
7/7/10 19:00	85.58	85.22	-0.36
7/7/10 20:00	84.83	84.48	-0.342
7/7/10 21:00	83.74	83.38	-0.36
7/7/10 22:00	82.89	82.54	-0.342
7/7/10 23:00	82.19	81.85	-0.342
7/8/10 0:00	81.02	80.71	-0.306
7/8/10 1:00	80.62	80.33	-0.288
7/8/10 2:00	80.07	79.80	-0.27
7/8/10 3:00	79.74	79.51	-0.234
7/8/10 4:00	79.86	79.61	-0.252
7/8/10 5:00	79.76	79.51	-0.252
7/8/10 6:00	79.16	78.94	-0.216
7/8/10 7:00	80.11	80.01	-0.108
7/8/10 8:00	81.19	81.26	0.072
7/8/10 9:00	82.80	83.12	0.324
7/8/10 10:00	84.84	85.70	0.864
7/8/10 11:00	87.14	87.68	0.54
7/8/10 17:00	86.79	86.61	-0.18
7/8/10 18:00	85.89	85.65	-0.234
7/8/10 19:00	85.16	84.93	-0.234
7/8/10 20:00	84.27	84.02	-0.252
7/8/10 21:00	83.65	83.40	-0.252
7/8/10 22:00	83.24	82.99	-0.252
7/8/10 23:00	82.76	82.49	-0.27
7/9/10 0:00	82.38	82.09	-0.288
7/9/10 1:00	82.12	81.83	-0.288
7/9/10 2:00	81.79	81.49	-0.306
7/9/10 3:00	81.44	81.14	-0.306
7/9/10 4:00	81.08	80.77	-0.306

7/9/10 5:00	80.68	80.37	-0.306
7/9/10 6:00	80.62	80.44	-0.18
7/9/10 7:00	80.94	80.92	-0.018
7/9/10 8:00	80.83	80.95	0.126
7/9/10 9:00	81.04	81.22	0.18
7/9/10 10:00	82.09	82.24	0.144
7/9/10 12:00	84.92	85.15	0.234
7/9/10 13:00	85.33	85.60	0.27
7/9/10 14:00	85.54	85.75	0.216
7/9/10 15:00	85.59	85.15	-0.432
7/9/10 16:00	85.41	85.26	-0.144
7/9/10 17:00	85.19	85.11	-0.072
7/9/10 18:00	84.62	84.49	-0.126
7/9/10 19:00	83.85	83.67	-0.18
7/9/10 20:00	83.22	83.02	-0.198
7/9/10 21:00	82.84	82.64	-0.198
7/9/10 22:00	82.47	82.27	-0.198
7/9/10 23:00	82.36	82.16	-0.198
7/10/10 0:00	82.04	81.88	-0.162
7/10/10 1:00	81.71	81.55	-0.162
7/10/10 2:00	81.48	81.32	-0.162
7/10/10 3:00	81.27	81.14	-0.126
7/10/10 4:00	81.09	80.96	-0.126
7/10/10 5:00	80.82	80.67	-0.144
7/10/10 6:00	80.56	80.42	-0.144
7/10/10 7:00	80.21	80.14	-0.072
7/10/10 8:00	80.16	80.24	0.072
7/10/10 9:00	80.14	80.34	0.198
7/10/10 10:00	80.25	80.61	0.36
7/10/10 11:00	80.38	80.99	0.612
7/10/10 12:00	80.83	81.67	0.846
7/10/10 13:00	81.57	82.43	0.864
7/10/10 14:00	82.53	83.23	0.702
7/10/10 15:00	83.17	83.10	-0.072
7/10/10 16:00	83.05	82.83	-0.216
7/10/10 17:00	83.02	82.69	-0.324
7/10/10 18:00	82.67	82.34	-0.324
7/10/10 19:00	82.11	81.75	-0.36
7/10/10 20:00	81.57	81.14	-0.432
7/10/10 21:00	81.51	81.08	-0.432
7/10/10 22:00	81.00	80.55	-0.45
7/10/10 23:00	80.48	80.01	-0.468
7/11/10 0:00	79.89	79.41	-0.486
7/11/10 1:00	79.42	78.94	-0.486
7/11/10 2:00	78.89	78.40	-0.486
7/11/10 3:00	78.48	77.96	-0.522
7/11/10 4:00	78.04	77.52	-0.522
7/11/10 5:00	77.73	77.21	-0.522
7/11/10 6:00	77.54	77.04	-0.504
7/11/10 7:00	77.49	77.13	-0.36

7/11/10 8:00	78.04	77.89	-0.144
7/11/10 9:00	79.45	79.54	0.09
7/11/10 10:00	81.74	82.10	0.36
7/11/10 11:00	84.13	84.54	0.414
7/11/10 12:00	86.00	86.63	0.63
7/11/10 13:00	86.64	87.02	0.378
7/11/10 14:00	86.28	86.09	-0.198
7/11/10 15:00	85.40	85.11	-0.288
7/11/10 16:00	85.27	85.14	-0.126
7/11/10 17:00	84.54	84.42	-0.126
7/11/10 18:00	84.11	83.89	-0.216
7/11/10 19:00	83.55	83.30	-0.252
7/11/10 20:00	82.81	82.51	-0.306
7/11/10 21:00	81.91	81.53	-0.378
7/11/10 22:00	81.19	80.81	-0.378
7/11/10 23:00	80.47	80.07	-0.396
7/12/10 0:00	79.75	79.37	-0.378
7/12/10 1:00	79.09	78.71	-0.378
7/12/10 2:00	78.50	78.16	-0.342
7/12/10 3:00	77.95	77.61	-0.342
7/12/10 4:00	77.52	77.16	-0.36
7/12/10 5:00	77.14	76.80	-0.342
7/12/10 6:00	77.01	76.74	-0.27
7/12/10 7:00	77.20	77.06	-0.144
7/12/10 8:00	77.57	77.59	0.018
7/12/10 9:00	78.73	79.02	0.288
7/12/10 10:00	80.65	81.23	0.576
7/12/10 11:00	83.03	83.40	0.378
7/12/10 12:00	84.78	85.18	0.396
7/12/10 13:00	84.94	85.19	0.252
7/12/10 14:00	84.74	85.13	0.396
7/12/10 15:00	84.03	83.85	-0.18
7/12/10 16:00	82.94	82.83	-0.108
7/12/10 17:00	81.61	81.57	-0.036
7/12/10 18:00	80.35	80.14	-0.216
7/12/10 19:00	79.89	79.66	-0.234
7/12/10 20:00	79.59	79.32	-0.27
7/12/10 21:00	79.31	79.01	-0.306
7/12/10 22:00	79.09	78.76	-0.324
7/12/10 23:00	78.76	78.45	-0.306
7/13/10 0:00	78.43	78.09	-0.342
7/13/10 1:00	78.14	77.82	-0.324
7/13/10 2:00	77.90	77.58	-0.324
7/13/10 3:00	77.67	77.32	-0.342
7/13/10 4:00	77.53	77.26	-0.27
7/13/10 5:00	77.09	76.82	-0.27
7/13/10 6:00	77.36	77.13	-0.234
7/13/10 7:00	77.49	77.38	-0.108
7/13/10 8:00	77.52	77.61	0.09
7/13/10 9:00	77.54	77.81	0.27

7/13/10 10:00	78.40	78.90	0.504
7/13/10 11:00	79.85	80.59	0.738
7/13/10 12:00	81.27	82.01	0.738
7/13/10 13:00	81.65	82.34	0.684
7/13/10 14:00	81.77	82.22	0.45
7/13/10 15:00	81.75	82.11	0.36
7/13/10 16:00	81.58	81.92	0.342
7/13/10 17:00	81.42	81.68	0.252
7/13/10 18:00	81.22	81.11	-0.108
7/13/10 19:00	80.87	80.60	-0.27
7/13/10 20:00	80.59	80.26	-0.324
7/13/10 21:00	80.21	79.84	-0.378
7/13/10 22:00	79.94	79.51	-0.432
7/13/10 23:00	79.75	79.32	-0.432
7/14/10 0:00	79.42	78.97	-0.45
7/14/10 1:00	79.20	78.76	-0.432
7/14/10 2:00	79.01	78.56	-0.45
7/14/10 3:00	78.76	78.31	-0.45
7/14/10 4:00	78.53	78.10	-0.432
7/14/10 5:00	78.34	77.92	-0.414
7/14/10 6:00	78.19	77.79	-0.396
7/14/10 7:00	78.03	77.76	-0.27
7/14/10 8:00	78.09	77.99	-0.108
7/14/10 9:00	78.20	78.31	0.108
7/14/10 10:00	78.43	78.75	0.324
7/14/10 11:00	78.85	79.24	0.396
7/14/10 12:00	79.01	79.50	0.486
7/14/10 13:00	79.18	79.65	0.468
7/14/10 14:00	79.66	79.78	0.126
7/14/10 15:00	80.34	80.56	0.216
7/14/10 16:00	80.82	80.86	0.036
7/14/10 17:00	80.58	80.49	-0.09
7/14/10 18:00	80.60	80.50	-0.108
7/14/10 19:00	80.08	79.90	-0.18
7/14/10 20:00	79.59	79.32	-0.27
7/14/10 21:00	79.08	78.74	-0.342
7/14/10 22:00	78.66	78.28	-0.378
7/14/10 23:00	78.22	77.80	-0.414
7/15/10 0:00	78.04	77.60	-0.432
7/15/10 1:00	77.89	77.44	-0.45
7/15/10 2:00	77.63	77.14	-0.486
7/15/10 3:00	77.57	77.08	-0.486
7/15/10 4:00	77.28	76.78	-0.504
7/15/10 5:00	77.30	76.80	-0.504
7/15/10 6:00	77.23	76.78	-0.45
7/15/10 7:00	77.27	76.97	-0.306
7/15/10 8:00	77.40	77.25	-0.144
7/15/10 9:00	77.89	77.90	0.018
7/15/10 10:00	78.28	78.55	0.27
7/15/10 11:00	78.86	79.37	0.504

7/15/10 12:00	80.59	81.32	0.738
7/15/10 13:00	82.69	83.29	0.594
7/16/10 13:00			
7/17/10 13:00			
7/18/10 13:00			
7/19/10 1:00	79.84	79.62	-0.216
7/19/10 2:00	79.36	79.16	-0.198
7/19/10 3:00	79.17	78.96	-0.216
7/19/10 4:00	79.02	78.84	-0.18
7/19/10 5:00	78.85	78.67	-0.18
7/19/10 6:00	78.76	78.60	-0.162
7/19/10 7:00	78.70	78.65	-0.054
7/19/10 8:00	79.12	79.23	0.108
7/19/10 9:00	80.71	81.07	0.36
7/19/10 10:00	82.83	83.19	0.36
7/19/10 11:00	84.30	84.75	0.45
7/19/10 12:00	85.79	85.79	0
7/19/10 13:00	86.62	86.50	-0.126
7/19/10 14:00	85.78	85.85	0.072
7/19/10 15:00	85.38	85.20	-0.18
7/19/10 16:00	84.88	84.92	0.036
7/19/10 17:00	84.43	84.54	0.108
7/19/10 18:00	83.97	83.99	0.018
7/19/10 19:00	83.54	83.40	-0.144
7/19/10 20:00	83.02	82.84	-0.18
7/19/10 21:00	82.67	82.44	-0.234
7/19/10 22:00	81.94	81.67	-0.27
7/19/10 23:00	81.64	81.35	-0.288
7/20/10 0:00	81.13	80.83	-0.306
7/20/10 1:00	80.63	80.30	-0.324
7/20/10 2:00	80.20	79.86	-0.342
7/20/10 3:00	79.82	79.48	-0.342
7/20/10 4:00	79.48	79.13	-0.342
7/20/10 5:00	79.19	78.83	-0.36
7/20/10 6:00	79.04	78.68	-0.36
7/20/10 7:00	79.12	78.87	-0.252
7/20/10 8:00	79.33	79.22	-0.108
7/20/10 9:00	79.49	79.60	0.108
7/20/10 10:00	79.83	80.08	0.252
7/20/10 11:00	80.03	80.48	0.45
7/20/10 12:00	80.53	81.07	0.54
7/20/10 13:00	82.46	82.71	0.252
7/20/10 14:00	83.96	84.07	0.108
7/20/10 15:00	84.41	84.39	-0.018
7/20/10 16:00	84.25	84.09	-0.162
7/20/10 17:00	83.62	83.51	-0.108
7/20/10 18:00	83.29	83.09	-0.198
7/20/10 19:00	83.02	82.73	-0.288
7/20/10 20:00	82.64	82.32	-0.324
7/20/10 21:00	82.12	81.77	-0.342

7/20/10 22:00	81.56	81.18	-0.378
7/20/10 23:00	81.12	80.73	-0.396
7/21/10 0:00	80.77	80.35	-0.414
7/21/10 1:00	80.38	79.97	-0.414
7/21/10 2:00	80.05	79.64	-0.414
7/21/10 3:00	79.78	79.37	-0.414
7/21/10 4:00	79.61	79.20	-0.414
7/21/10 5:00	79.35	78.92	-0.432
7/21/10 6:00	79.25	78.87	-0.378
7/21/10 7:00	79.24	78.98	-0.252
7/21/10 8:00	79.49	79.45	-0.036
7/21/10 9:00	80.23	80.38	0.144
7/21/10 10:00	81.76	81.90	0.144
7/21/10 11:00	82.83	83.01	0.18
7/21/10 12:00	85.03	84.94	-0.09
7/21/10 13:00	86.09	86.15	0.054
7/21/10 14:00	86.83	86.42	-0.414
7/21/10 15:00	87.08	87.51	0.432
7/21/10 16:00	86.88	86.54	-0.342
7/21/10 17:00	86.32	86.40	0.072
7/21/10 18:00	85.51	85.29	-0.216
7/21/10 19:00	84.44	84.33	-0.108
7/21/10 20:00	83.48	83.39	-0.09
7/21/10 21:00	82.90	82.81	-0.09
7/21/10 22:00	82.25	82.12	-0.126
7/21/10 23:00	81.68	81.54	-0.144
7/22/10 0:00	81.14	80.98	-0.162
7/22/10 1:00	80.69	80.49	-0.198
7/22/10 2:00	80.31	80.10	-0.216
7/22/10 3:00	79.79	79.56	-0.234
7/22/10 4:00	79.34	79.08	-0.252
7/22/10 5:00	78.99	78.76	-0.234
7/22/10 6:00	78.69	78.49	-0.198
7/22/10 7:00	78.80	78.74	-0.054
7/22/10 8:00	79.90	80.03	0.126
7/22/10 9:00	81.60	81.91	0.306
7/22/10 10:00	83.60	83.57	-0.036
7/22/10 11:00	85.20	85.38	0.18
7/22/10 12:00	85.91	85.78	-0.126
7/22/10 13:00	85.98	85.92	-0.054
7/22/10 14:00	86.52	86.54	0.018
7/22/10 15:00	86.90	86.92	0.018
7/22/10 16:00	86.68	86.65	-0.036
7/22/10 17:00	85.82	85.69	-0.126
7/22/10 18:00	84.67	84.56	-0.108
7/22/10 19:00	83.72	83.62	-0.108
7/22/10 20:00	82.77	82.64	-0.126
7/22/10 21:00	82.10	81.94	-0.162
7/22/10 22:00	81.41	81.23	-0.18
7/22/10 23:00	80.87	80.69	-0.18

7/23/10 0:00	80.36	80.16	-0.198
7/23/10 1:00	79.94	79.74	-0.198
7/23/10 2:00	79.68	79.48	-0.198
7/23/10 3:00	79.34	79.16	-0.18
7/23/10 4:00	79.04	78.84	-0.198
7/23/10 5:00	78.80	78.61	-0.198
7/23/10 6:00	78.58	78.42	-0.162
7/23/10 7:00	78.48	78.43	-0.054
7/23/10 8:00	78.35	78.40	0.054
7/23/10 9:00	78.32	78.55	0.234
7/23/10 10:00	78.48	78.95	0.468
7/23/10 11:00	78.89	79.61	0.72
7/23/10 12:00	79.16	80.10	0.936
7/23/10 17:00	82.51	82.36	-0.144
7/23/10 18:00	82.49	82.31	-0.18
7/23/10 19:00	82.24	82.04	-0.198
7/23/10 20:00	81.95	81.73	-0.216
7/23/10 21:00	81.52	81.30	-0.216
7/23/10 22:00	81.01	80.76	-0.252
7/23/10 23:00	80.51	80.27	-0.234
7/24/10 0:00	80.19	79.96	-0.234
7/24/10 1:00	79.70	79.48	-0.216
7/24/10 2:00	79.66	79.49	-0.162
7/24/10 3:00	79.27	79.13	-0.144
7/24/10 4:00	78.95	78.81	-0.144
7/24/10 5:00	78.60	78.45	-0.144
7/24/10 6:00	78.61	78.50	-0.108
7/24/10 7:00	78.84	78.85	0.018
7/24/10 8:00	79.69	79.84	0.144
7/24/10 9:00	81.21	81.55	0.342
7/24/10 10:00	82.79	83.24	0.45
7/24/10 11:00	84.14	84.59	0.45
7/24/10 12:00	85.24	85.64	0.396
7/24/10 13:00	86.38	86.25	-0.126
7/24/10 14:00	86.90	86.94	0.036
7/24/10 15:00	86.97	86.76	-0.216
7/24/10 16:00	86.50	86.39	-0.108
7/24/10 17:00	86.13	85.80	-0.324
7/24/10 18:00	85.87	85.67	-0.198
7/24/10 19:00	85.64	85.46	-0.18
7/24/10 20:00	85.06	84.90	-0.162
7/24/10 21:00	84.50	84.35	-0.144
7/24/10 22:00	83.80	83.67	-0.126
7/24/10 23:00	82.85	82.67	-0.18
7/25/10 0:00	82.17	82.08	-0.09
7/25/10 1:00	81.57	81.53	-0.036

7/25/10 2:00	81.03	80.99	-0.036
7/25/10 3:00	80.56	80.59	0.036
7/25/10 4:00	80.47	80.48	0.018
7/25/10 5:00	80.13	80.15	0.018
7/25/10 6:00	80.22	80.24	0.018
7/25/10 7:00	80.11	80.18	0.072
7/25/10 8:00	80.25	80.43	0.18
7/25/10 9:00	81.07	81.38	0.306
7/25/10 10:00	82.18	82.49	0.306
7/25/10 11:00	83.39	83.93	0.54
7/25/10 12:00	83.98	82.59	-1.386
7/25/10 13:00	83.64	82.99	-0.648
7/25/10 14:00	82.11	81.78	-0.324
7/25/10 15:00	81.71	81.53	-0.18
7/25/10 16:00	81.52	81.45	-0.072
7/25/10 17:00	81.52	81.39	-0.126
7/25/10 18:00	81.35	81.12	-0.234
7/25/10 19:00	81.26	80.93	-0.324
7/25/10 20:00	80.88	80.48	-0.396
7/25/10 21:00	80.25	79.84	-0.414
7/25/10 22:00	79.71	79.28	-0.432
7/25/10 23:00	79.16	78.73	-0.432
7/26/10 0:00	78.75	78.26	-0.486
7/26/10 1:00	78.31	77.83	-0.486
7/26/10 2:00	78.17	77.65	-0.522
7/26/10 3:00	77.80	77.26	-0.54
7/26/10 4:00	77.65	77.11	-0.54
7/26/10 5:00	77.39	76.83	-0.558
7/26/10 6:00	77.27	76.74	-0.522
7/26/10 7:00	77.44	77.01	-0.432
7/26/10 8:00	78.20	77.93	-0.27
7/26/10 9:00	79.35	79.33	-0.018
7/26/10 10:00	80.87	81.12	0.252
7/26/10 11:00	82.28	82.53	0.252
7/26/10 12:00	83.30	83.38	0.072
7/26/10 13:00	84.02	83.90	-0.126
7/26/10 14:00	83.97	83.81	-0.162
7/26/10 15:00	83.49	83.60	0.108
7/26/10 16:00	82.96	82.80	-0.162
7/26/10 17:00	82.54	82.49	-0.054
7/26/10 18:00	81.96	81.94	-0.018
7/26/10 19:00	81.26	81.20	-0.054
7/26/10 20:00	80.70	80.61	-0.09
7/26/10 21:00	80.20	80.07	-0.126
7/26/10 22:00	79.69	79.53	-0.162
7/26/10 23:00	79.20	79.00	-0.198
7/27/10 0:00	78.79	78.56	-0.234
7/27/10 1:00	78.52	78.27	-0.252
7/27/10 2:00	78.07	77.80	-0.27
7/27/10 3:00	77.84	77.55	-0.288

7/27/10 4:00	77.58	77.29	-0.288
7/27/10 5:00	77.36	77.07	-0.288
7/27/10 6:00	77.05	76.80	-0.252
7/27/10 7:00	77.02	76.86	-0.162
7/27/10 8:00	77.48	77.48	0
7/27/10 9:00	78.58	78.83	0.252
7/27/10 10:00	80.01	80.50	0.486
7/27/10 11:00	81.30	82.04	0.738
7/27/10 12:00	82.25	83.13	0.882
7/27/10 13:00	82.83	83.55	0.72
7/27/10 14:00	82.94	83.69	0.756
7/27/10 15:00	82.50	82.77	0.27
7/27/10 16:00	82.12	81.85	-0.27
7/27/10 17:00	81.78	81.53	-0.252
7/27/10 18:00	81.37	81.05	-0.324
7/27/10 19:00	80.74	80.34	-0.396
7/27/10 20:00	80.31	79.92	-0.396
7/27/10 21:00	79.93	79.52	-0.414
7/27/10 22:00	79.61	79.17	-0.432
7/27/10 23:00	79.21	78.78	-0.432
7/28/10 0:00	78.81	78.40	-0.414
7/28/10 1:00	78.77	78.34	-0.432
7/28/10 2:00	78.59	78.16	-0.432
7/28/10 3:00	78.47	78.02	-0.45
7/28/10 4:00	78.35	77.90	-0.45
7/28/10 5:00	78.39	77.95	-0.432
7/28/10 6:00	78.10	77.68	-0.414
7/28/10 7:00	78.36	78.08	-0.288
7/28/10 8:00	78.78	78.80	0.018
7/28/10 9:00	79.53	79.88	0.342
7/28/10 10:00	80.27	80.72	0.45
7/28/10 11:00	81.00	81.13	0.126
7/28/10 12:00	81.95	82.13	0.18
7/28/10 13:00	82.41	82.64	0.234
7/28/10 14:00	82.54	82.20	-0.342
7/28/10 15:00	82.54	82.46	-0.072
7/28/10 16:00	82.39	82.10	-0.288
7/28/10 17:00	82.20	82.20	0
7/28/10 18:00	81.87	81.82	-0.054
7/28/10 19:00	81.56	81.49	-0.072
7/28/10 20:00	81.30	81.19	-0.108
7/28/10 21:00	81.01	80.90	-0.108
7/28/10 22:00	80.71	80.58	-0.126
7/28/10 23:00	80.47	80.34	-0.126
7/29/10 0:00	80.24	80.12	-0.126
7/29/10 1:00	80.08	79.96	-0.126
7/29/10 2:00	79.87	79.74	-0.126
7/29/10 3:00	79.79	79.65	-0.144
7/29/10 4:00	79.69	79.57	-0.126
7/29/10 5:00	79.55	79.40	-0.144

7/29/10 6:00	79.45	79.33	-0.126
7/29/10 7:00	79.36	79.33	-0.036
7/29/10 8:00	79.41	79.50	0.09
7/29/10 9:00	79.68	79.93	0.252
7/29/10 10:00	80.26	80.73	0.468
7/29/10 11:00	80.89	81.25	0.36
7/29/10 12:00	81.71	81.22	-0.486
7/29/10 13:00	82.53	82.53	0
7/29/10 14:00	82.83	82.85	0.018
7/29/10 15:00	82.75	82.91	0.162
7/29/10 16:00	82.59	82.45	-0.144
7/29/10 17:00	82.25	82.14	-0.108
7/29/10 18:00	81.68	81.54	-0.144
7/29/10 19:00	80.94	80.83	-0.108
7/29/10 20:00	80.36	80.24	-0.126
7/29/10 21:00	79.86	79.68	-0.18
7/29/10 22:00	79.43	79.24	-0.198
7/29/10 23:00	79.06	78.85	-0.216
7/30/10 0:00	78.83	78.59	-0.234
7/30/10 1:00	78.58	78.32	-0.252
7/30/10 2:00	78.19	77.92	-0.27
7/30/10 3:00	77.72	77.47	-0.252
7/30/10 4:00	77.31	77.05	-0.252
7/30/10 5:00	77.12	76.87	-0.252
7/30/10 6:00	76.53	76.26	-0.27
7/30/10 7:00	76.82	76.64	-0.18
7/30/10 8:00	77.49	77.49	0
7/30/10 9:00	78.48	78.71	0.234
7/30/10 10:00	79.83	80.30	0.468
7/30/10 11:00	81.10	81.55	0.45
7/30/10 12:00	81.89	82.56	0.666
7/30/10 13:00	82.27	82.70	0.432
7/30/10 14:00	82.26	82.60	0.342
7/30/10 15:00	81.98	81.83	-0.144
7/30/10 16:00	81.88	81.81	-0.072
7/30/10 17:00	81.57	81.15	-0.414
7/30/10 18:00	81.28	81.01	-0.27
7/30/10 19:00	80.90	80.63	-0.27
7/30/10 20:00	80.28	80.01	-0.27
7/30/10 21:00	79.70	79.43	-0.27
7/30/10 22:00	78.90	78.61	-0.288
7/30/10 23:00	78.31	78.01	-0.306
7/31/10 0:00	77.85	77.54	-0.306
7/31/10 1:00	77.23	76.91	-0.324
7/31/10 2:00	76.76	76.46	-0.306
7/31/10 3:00	76.46	76.11	-0.342
7/31/10 4:00	76.05	75.73	-0.324
7/31/10 5:00	75.65	75.33	-0.324
7/31/10 6:00	75.21	74.91	-0.306
7/31/10 7:00	75.53	75.32	-0.216

7/31/10 8:00	76.38	76.31	-0.072
7/31/10 9:00	77.54	77.72	0.18
7/31/10 10:00	79.00	79.43	0.432
7/31/10 11:00	80.88	81.60	0.72
7/31/10 12:00	82.46	83.43	0.972
7/31/10 13:00	83.17	84.34	1.17
7/31/10 14:00	82.93	83.81	0.882
7/31/10 15:00	82.42	83.39	0.972
7/31/10 16:00	81.86	82.83	0.972
7/31/10 17:00	81.60	82.34	0.738
7/31/10 18:00	81.05	81.23	0.18
7/31/10 19:00	80.72	80.79	0.072
7/31/10 20:00	80.12	80.09	-0.036
7/31/10 21:00	79.39	79.28	-0.108
7/31/10 22:00	78.67	78.43	-0.234
7/31/10 23:00	77.97	77.63	-0.342
8/1/10 0:00	77.39	76.99	-0.396
8/1/10 1:00	76.82	76.39	-0.432
8/1/10 2:00	76.56	76.11	-0.45
8/1/10 3:00	76.20	75.75	-0.45
8/1/10 4:00	76.02	75.59	-0.432
8/1/10 5:00	76.08	75.69	-0.396
8/1/10 6:00	76.00	75.61	-0.396
8/1/10 7:00	75.87	75.58	-0.288
8/1/10 8:00	75.91	75.76	-0.144
8/1/10 9:00	76.20	76.29	0.09
8/1/10 10:00	76.62	76.96	0.342
8/1/10 11:00	76.89	77.32	0.432
8/1/10 12:00	77.42	77.98	0.558
8/1/10 13:00	78.26	78.68	0.414
8/1/10 14:00	79.14	79.41	0.27
8/1/10 15:00	79.08	79.37	0.288
8/1/10 16:00	79.06	79.21	0.144
8/1/10 17:00	78.80	78.71	-0.09
8/1/10 18:00	78.61	78.29	-0.324
8/1/10 19:00	78.07	77.69	-0.378
8/1/10 20:00	77.46	77.06	-0.396
8/1/10 21:00	77.03	76.61	-0.414
8/1/10 22:00	76.52	76.07	-0.45
8/1/10 23:00	76.19	75.76	-0.432
8/2/10 0:00	75.79	75.39	-0.396
8/2/10 1:00	75.51	75.11	-0.396
8/2/10 2:00	75.26	74.87	-0.396
8/2/10 3:00	75.11	74.68	-0.432
8/2/10 4:00	74.59	74.16	-0.432
8/2/10 5:00	74.35	73.90	-0.45
8/2/10 6:00	74.20	73.76	-0.432
8/2/10 7:00	74.53	74.19	-0.342
8/2/10 8:00	75.40	75.22	-0.18
8/2/10 9:00	77.09	77.16	0.072

8/2/10 10:00	78.99	79.17	0.18
8/2/10 11:00	79.57	79.77	0.198
8/2/10 12:00	79.32	79.48	0.162
8/2/10 13:00	79.37	79.48	0.108
8/2/10 14:00	79.30	79.17	-0.126
8/2/10 15:00	79.03	79.03	0
8/2/10 16:00	79.21	79.29	0.072
8/2/10 17:00	78.80	78.66	-0.144
8/2/10 18:00	78.66	78.42	-0.234
8/2/10 19:00	78.22	77.94	-0.288
8/2/10 20:00	77.77	77.48	-0.288
8/2/10 21:00	77.44	77.19	-0.252
8/2/10 22:00	76.75	76.48	-0.27
8/2/10 23:00	76.34	76.09	-0.252
8/3/10 0:00	76.04	75.83	-0.216
8/3/10 1:00	75.77	75.61	-0.162
8/3/10 2:00	75.61	75.47	-0.144
8/3/10 3:00	75.43	75.31	-0.126
8/3/10 4:00	75.19	75.10	-0.09
8/3/10 5:00	75.04	74.93	-0.108
8/3/10 6:00	75.24	75.19	-0.054
8/3/10 7:00	75.40	75.45	0.054
8/3/10 8:00	75.64	75.83	0.198
8/3/10 9:00	76.15	76.49	0.342
8/3/10 10:00	76.66	77.09	0.432
8/3/10 11:00	77.05	77.39	0.342
8/3/10 12:00	77.45	77.83	0.378
8/3/10 13:00	77.86	78.03	0.162
8/3/10 14:00	78.12	78.10	-0.018
8/3/10 15:00	78.25	78.32	0.072
8/3/10 16:00	78.48	78.33	-0.144
8/3/10 17:00	78.65	78.54	-0.108
8/3/10 18:00	78.57	78.46	-0.108
8/3/10 19:00	78.33	78.17	-0.162
8/3/10 20:00	78.05	77.86	-0.198
8/3/10 21:00	77.75	77.54	-0.216
8/3/10 22:00	77.27	77.06	-0.216
8/3/10 23:00	76.94	76.72	-0.216
8/4/10 0:00	76.50	76.28	-0.216
8/4/10 1:00	76.12	75.90	-0.216
8/4/10 2:00	76.15	75.93	-0.216
8/4/10 3:00	75.99	75.75	-0.234
8/4/10 4:00	75.90	75.67	-0.234
8/4/10 5:00	75.78	75.55	-0.234
8/4/10 6:00	75.53	75.30	-0.234
8/4/10 7:00	75.75	75.59	-0.162
8/4/10 8:00	76.69	76.71	0.018
8/4/10 9:00	78.41	78.57	0.162
8/4/10 10:00	80.00	80.34	0.342
8/4/10 11:00	81.32	81.61	0.288

8/4/10 12:00	81.82	82.00	0.18
8/4/10 13:00	82.80	82.82	0.018
8/4/10 14:00	83.35	83.13	-0.216
8/4/10 15:00	83.57	83.54	-0.036
8/4/10 16:00	83.48	83.57	0.09
8/4/10 17:00	82.63	82.58	-0.054
8/4/10 18:00	82.40	82.33	-0.072
8/4/10 19:00	81.95	81.80	-0.144
8/4/10 20:00	81.65	81.47	-0.18
8/4/10 21:00	81.26	81.08	-0.18
8/4/10 22:00	80.77	80.60	-0.162
8/4/10 23:00	80.27	80.14	-0.126
8/5/10 0:00	79.86	79.72	-0.144
8/5/10 1:00	79.55	79.42	-0.126
8/5/10 2:00	79.10	79.01	-0.09
8/5/10 3:00	78.58	78.47	-0.108
8/5/10 4:00	78.36	78.27	-0.09
8/5/10 5:00	78.04	77.98	-0.054
8/5/10 6:00	77.78	77.75	-0.036
8/5/10 7:00	77.71	77.71	0
8/5/10 8:00	78.09	78.18	0.09
8/5/10 9:00	78.25	78.29	0.036
8/5/10 10:00	78.66	78.71	0.054
8/5/10 11:00	79.21	79.11	-0.108
8/5/10 12:00	79.69	79.97	0.288
8/5/10 13:00	80.25	80.25	0
8/5/10 14:00	81.69	81.65	-0.036
8/5/10 15:00	82.87	82.92	0.054
8/5/10 16:00	82.76	82.60	-0.162
8/5/10 17:00	82.32	82.20	-0.126
8/5/10 18:00	81.65	81.51	-0.144
8/5/10 19:00	81.23	81.07	-0.162
8/5/10 20:00	80.77	80.60	-0.162
8/5/10 21:00	80.33	80.16	-0.162
8/5/10 22:00	80.01	79.87	-0.144
8/5/10 23:00	79.53	79.39	-0.144
8/6/10 0:00	79.03	78.87	-0.162
8/6/10 1:00	78.54	78.38	-0.162
8/6/10 2:00	78.14	77.98	-0.162
8/6/10 3:00	77.87	77.71	-0.162
8/6/10 4:00	77.65	77.47	-0.18
8/6/10 5:00	77.31	77.11	-0.198
8/6/10 6:00	77.14	76.98	-0.162
8/6/10 8:00	77.13	77.20	0.072
8/6/10 9:00	78.02	78.09	0.072
8/6/10 10:00	80.05	79.96	-0.09
8/6/10 11:00	80.85	81.03	0.18
8/6/10 12:00	82.13	82.01	-0.126
8/6/10 13:00	82.27	82.07	-0.198

8/6/10 14:00	81.97	81.92	-0.054
8/6/10 15:00	81.39	81.01	-0.378
8/6/10 16:00	81.44	81.48	0.036
8/6/10 17:00	80.72	80.70	-0.018
8/6/10 18:00	79.59	79.53	-0.054
8/6/10 19:00	78.52	78.43	-0.09
8/6/10 20:00	77.98	77.87	-0.108
8/6/10 21:00	77.55	77.41	-0.144
8/6/10 22:00	77.35	77.17	-0.18
8/6/10 23:00	77.01	76.81	-0.198
8/7/10 0:00	76.75	76.53	-0.216
8/7/10 1:00	76.38	76.13	-0.252
8/7/10 2:00	76.14	75.88	-0.252
8/7/10 3:00	76.02	75.75	-0.27
8/7/10 4:00	76.00	75.73	-0.27
8/7/10 5:00	75.70	75.42	-0.288
8/7/10 6:00	75.72	75.45	-0.27
8/7/10 7:00	75.87	75.69	-0.18
8/7/10 8:00	76.36	76.34	-0.018
8/7/10 9:00	77.35	77.54	0.198
8/7/10 10:00	79.20	79.58	0.378
8/7/10 11:00	80.72	81.23	0.504
8/7/10 12:00	82.17	82.89	0.72
8/7/10 13:00	83.25	83.07	-0.18
8/7/10 14:00	83.26	83.24	-0.018
8/7/10 15:00	83.08	83.23	0.144
8/7/10 16:00	83.01	82.69	-0.324
8/7/10 17:00	81.86	81.59	-0.27
8/7/10 18:00	80.15	79.93	-0.216
8/7/10 19:00	79.52	79.32	-0.198
8/7/10 20:00	79.44	79.22	-0.216
8/7/10 21:00	78.98	78.76	-0.216
8/7/10 22:00	78.47	78.25	-0.216
8/7/10 23:00	77.94	77.70	-0.234
8/8/10 0:00	77.34	77.11	-0.234
8/8/10 1:00	76.91	76.67	-0.234
8/8/10 2:00	76.39	76.14	-0.252
8/8/10 3:00	75.74	75.51	-0.234
8/8/10 4:00	75.50	75.26	-0.234
8/8/10 5:00	75.30	75.07	-0.234
8/8/10 6:00	75.16	74.93	-0.234
8/8/10 7:00	75.23	75.09	-0.144
8/8/10 8:00	76.13	76.15	0.018
8/8/10 9:00	77.42	77.69	0.27
8/8/10 10:00	79.26	79.75	0.486
8/8/10 11:00	81.22	81.76	0.54
8/8/10 12:00	82.39	82.71	0.324
8/8/10 13:00	83.04	82.55	-0.486
8/8/10 14:00	83.74	83.76	0.018
8/8/10 15:00	83.46	83.53	0.072

8/8/10 16:00	83.03	83.11	0.072
8/8/10 17:00	82.63	82.58	-0.054
8/8/10 18:00	81.73	81.44	-0.288
8/8/10 19:00	80.65	80.40	-0.252
8/8/10 20:00	79.88	79.65	-0.234
8/8/10 21:00	79.44	79.21	-0.234
8/8/10 22:00	78.95	78.70	-0.252
8/8/10 23:00	78.40	78.15	-0.252
8/9/10 0:00	77.84	77.60	-0.234
8/9/10 1:00	77.35	77.11	-0.234
8/9/10 2:00	76.75	76.52	-0.234
8/9/10 3:00	76.27	76.02	-0.252
8/9/10 4:00	76.09	75.84	-0.252
8/9/10 5:00	76.10	75.82	-0.288
8/9/10 6:00	75.92	75.64	-0.288
8/9/10 7:00	76.23	76.10	-0.126
8/9/10 8:00	77.07	77.11	0.036
8/9/10 9:00	78.30	78.57	0.27
8/9/10 10:00	80.05	80.52	0.468
8/9/10 11:00	81.75	82.16	0.414
8/9/10 12:00	83.96	83.76	-0.198
8/9/10 13:00	85.49	85.49	0
8/9/10 14:00	83.94	84.09	0.144
8/9/10 15:00	84.09	83.98	-0.108
8/9/10 16:00	83.96	83.91	-0.054
8/9/10 17:00	83.73	83.66	-0.072
8/9/10 18:00	83.04	82.95	-0.09
8/9/10 19:00	82.54	82.47	-0.072
8/9/10 20:00	81.85	81.74	-0.108
8/9/10 21:00	81.14	81.02	-0.126
8/9/10 22:00	80.47	80.33	-0.144
8/9/10 23:00	79.91	79.77	-0.144
8/10/10 0:00	79.55	79.39	-0.162
8/10/10 1:00	79.22	79.06	-0.162
8/10/10 2:00	78.83	78.67	-0.162
8/10/10 3:00	78.60	78.42	-0.18
8/10/10 4:00	78.32	78.14	-0.18
8/10/10 5:00	78.22	78.04	-0.18
8/10/10 6:00	78.07	77.89	-0.18
8/10/10 7:00	78.09	77.98	-0.108
8/10/10 8:00	78.78	78.82	0.036
8/10/10 9:00	79.63	79.86	0.234
8/10/10 10:00	80.43	80.92	0.486
8/10/10 11:00	81.63	82.15	0.522
8/10/10 12:00	82.71	83.12	0.414
8/10/10 13:00	83.98	84.49	0.504
8/10/10 14:00	84.50	84.75	0.252
8/10/10 15:00	84.18	84.59	0.414
8/10/10 16:00	83.98	84.45	0.468
8/10/10 17:00	83.70	83.92	0.216

8/10/10 18:00	83.45	83.50	0.054
8/10/10 19:00	83.11	83.00	-0.108
8/10/10 20:00	82.53	82.35	-0.18
8/10/10 21:00	81.85	81.61	-0.234
8/10/10 22:00	81.14	80.84	-0.306
8/10/10 23:00	80.49	80.15	-0.342
8/11/10 0:00	79.91	79.52	-0.396
8/11/10 1:00	79.57	79.16	-0.414
8/11/10 2:00	79.27	78.80	-0.468
8/11/10 3:00	78.95	78.49	-0.468
8/11/10 4:00	78.57	78.10	-0.468
8/11/10 5:00	78.42	77.94	-0.486
8/11/10 6:00	78.32	77.81	-0.504
8/11/10 7:00	78.27	77.89	-0.378
8/11/10 8:00	78.63	78.40	-0.234
8/11/10 9:00	79.93	79.91	-0.018
8/11/10 10:00	81.93	82.13	0.198
8/11/10 11:00	83.41	83.36	-0.054
8/11/10 12:00	83.30	83.44	0.144
8/11/10 13:00	83.87	84.07	0.198
8/11/10 14:00	84.35	84.23	-0.126
8/11/10 15:00	84.00	84.07	0.072
8/11/10 16:00	83.98	84.02	0.036
8/11/10 17:00	83.71	83.40	-0.306
8/11/10 18:00	83.05	82.71	-0.342
8/11/10 19:00	82.44	82.10	-0.342
8/11/10 20:00	81.74	81.40	-0.342
8/11/10 21:00	81.17	80.83	-0.342
8/11/10 22:00	80.69	80.34	-0.342
8/11/10 23:00	80.22	79.88	-0.342
8/12/10 0:00	79.86	79.52	-0.342
8/12/10 1:00	79.44	79.12	-0.324
8/12/10 2:00	79.16	78.88	-0.288
8/12/10 3:00	79.05	78.75	-0.306
8/12/10 4:00	79.03	78.72	-0.306
8/12/10 5:00	78.96	78.71	-0.252
8/12/10 6:00	78.96	78.75	-0.216
8/12/10 7:00	78.95	78.83	-0.126
8/12/10 8:00	79.00	79.00	0
8/12/10 9:00	79.20	79.42	0.216
8/12/10 10:00	79.26	79.57	0.306
8/12/10 11:00	79.05	79.48	0.432
8/12/10 12:00	79.16	79.76	0.594
8/12/10 13:00	79.05	79.41	0.36
8/12/10 14:00	79.21	79.53	0.324
8/12/10 15:00	78.86	79.13	0.27
8/12/10 16:00	78.38	78.70	0.324
8/12/10 17:00	78.13	78.32	0.198
8/12/10 18:00	77.70	77.70	0
8/12/10 19:00	77.38	77.29	-0.09

8/12/10 20:00	77.33	77.08	-0.252
8/12/10 21:00	77.38	77.05	-0.324
8/12/10 22:00	77.35	76.96	-0.396
8/12/10 23:00	77.28	76.83	-0.45
8/13/10 0:00	77.17	76.68	-0.486
8/13/10 1:00	77.09	76.63	-0.468
8/13/10 2:00	76.96	76.47	-0.486
8/13/10 3:00	76.84	76.36	-0.486
8/13/10 4:00	76.77	76.28	-0.486
8/13/10 5:00	76.65	76.19	-0.468
8/13/10 6:00	76.49	76.02	-0.468
8/13/10 7:00	76.40	76.06	-0.342
8/13/10 8:00	76.60	76.42	-0.18
8/13/10 9:00	76.95	76.95	0
8/13/10 10:00	77.51	77.72	0.216
8/13/10 11:00	78.60	78.98	0.378
8/13/10 12:00	80.17	80.50	0.324
8/13/10 13:00	80.87	81.12	0.252
8/13/10 14:00	81.05	80.78	-0.27
8/13/10 15:00	81.06	80.99	-0.072
8/13/10 16:00	80.96	80.89	-0.072
8/13/10 17:00	80.01	79.88	-0.126
8/13/10 18:00	79.25	79.03	-0.216
8/13/10 19:00	78.72	78.47	-0.252
8/13/10 20:00	78.31	78.01	-0.306
8/13/10 21:00	78.21	77.87	-0.342
8/13/10 22:00	77.99	77.63	-0.36
8/13/10 23:00	77.74	77.36	-0.378
8/14/10 0:00	77.16	76.77	-0.396
8/14/10 1:00	76.80	76.41	-0.396
8/14/10 2:00	76.30	75.88	-0.414
8/14/10 3:00	75.32	74.89	-0.432
8/14/10 4:00	75.19	74.76	-0.432
8/14/10 5:00	74.97	74.54	-0.432
8/14/10 6:00	74.82	74.39	-0.432
8/14/10 7:00	74.99	74.63	-0.36
8/14/10 8:00	75.20	74.98	-0.216
8/14/10 9:00	75.55	75.55	0
8/14/10 10:00	76.19	76.41	0.216
8/14/10 11:00	77.24	77.42	0.18
8/14/10 12:00	77.85	78.12	0.27
8/14/10 13:00	78.49	78.85	0.36
8/14/10 14:00	79.42	79.45	0.036
8/14/10 15:00	80.08	80.11	0.036
8/14/10 16:00	79.85	79.58	-0.27
8/14/10 17:00	79.06	78.86	-0.198
8/14/10 18:00	78.29	78.09	-0.198
8/14/10 19:00	77.75	77.51	-0.234
8/14/10 20:00	77.24	76.95	-0.288
8/14/10 21:00	77.04	76.73	-0.306

8/14/10 22:00	77.06	76.72	-0.342
8/14/10 23:00	76.80	76.46	-0.342
8/15/10 0:00	76.43	76.07	-0.36
8/15/10 1:00	75.90	75.56	-0.342
8/15/10 2:00	75.52	75.19	-0.324
8/15/10 3:00	75.25	74.95	-0.306
8/15/10 4:00	75.16	74.89	-0.27
8/15/10 5:00	75.05	74.80	-0.252
8/15/10 6:00	75.02	74.77	-0.252
8/15/10 7:00	74.96	74.78	-0.18
8/15/10 8:00	74.74	74.68	-0.054
8/15/10 9:00	74.75	74.92	0.162
8/15/10 10:00	74.78	75.17	0.396
8/15/10 11:00	74.64	75.25	0.612
8/15/10 12:00	74.66	75.42	0.756
8/15/10 13:00	73.98	74.84	0.864
8/15/10 14:00	74.57	75.54	0.972
8/15/10 15:00	74.64	74.94	0.306
8/15/10 16:00	74.69	75.05	0.36
8/15/10 17:00	74.64	74.94	0.306
8/15/10 18:00	74.60	74.69	0.09
8/15/10 19:00	74.53	74.50	-0.036
8/15/10 20:00	74.50	74.37	-0.126
8/15/10 21:00	74.46	74.26	-0.198
8/15/10 22:00	74.41	74.16	-0.252
8/15/10 23:00	74.39	74.11	-0.288
8/16/10 0:00	74.36	74.02	-0.342
8/16/10 1:00	74.35	74.01	-0.342
8/16/10 2:00	74.35	73.97	-0.378
8/16/10 3:00	74.34	73.96	-0.378
8/16/10 4:00	74.21	73.84	-0.378
8/16/10 5:00	74.20	73.81	-0.396
8/16/10 6:00	74.29	73.91	-0.378
8/16/10 7:00	74.37	74.03	-0.342
8/16/10 8:00	74.62	74.52	-0.108
8/16/10 9:00	75.04	75.11	0.072
8/16/10 10:00	75.63	75.90	0.27
8/16/10 11:00	76.00	76.27	0.27
8/16/10 12:00	76.32	76.46	0.144
8/16/10 13:00	76.69	76.85	0.162
8/16/10 14:00	76.98	76.69	-0.288
8/16/10 15:00	77.37	77.23	-0.144
8/16/10 16:00	77.79	77.54	-0.252
8/16/10 17:00	77.95	77.86	-0.09
8/16/10 18:00	77.92	77.83	-0.09
8/16/10 19:00	77.62	77.50	-0.126
8/16/10 20:00	77.13	76.97	-0.162
8/16/10 21:00	76.57	76.37	-0.198
8/16/10 22:00	76.03	75.80	-0.234
8/16/10 23:00	75.57	75.30	-0.27

8/17/10 0:00	75.11	74.80	-0.306
8/17/10 1:00	74.77	74.45	-0.324
8/17/10 2:00	74.36	74.00	-0.36
8/17/10 3:00	74.08	73.69	-0.396
8/17/10 4:00	73.85	73.44	-0.414
8/17/10 5:00	73.61	73.19	-0.414
8/17/10 6:00	73.36	72.93	-0.432
8/17/10 7:00	73.12	72.76	-0.36
8/17/10 8:00	73.20	72.98	-0.216
8/17/10 9:00	74.24	74.24	0
8/17/10 10:00	76.29	76.54	0.252
8/17/10 11:00	78.88	79.31	0.432
8/17/10 12:00	79.58	79.76	0.18
8/17/10 13:00	79.80	79.79	-0.018
8/17/10 14:00	80.19	80.19	0
8/17/10 15:00	80.10	80.10	0
8/17/10 16:00	79.78	79.66	-0.126
8/17/10 17:00	79.48	79.12	-0.36
8/17/10 18:00	78.78	78.51	-0.27
8/17/10 19:00	78.36	78.11	-0.252
8/17/10 20:00	77.75	77.50	-0.252
8/17/10 21:00	77.09	76.82	-0.27
8/17/10 22:00	76.42	76.15	-0.27
8/17/10 23:00	76.10	75.83	-0.27
8/18/10 0:00	75.71	75.44	-0.27
8/18/10 1:00	75.25	74.96	-0.288
8/18/10 2:00	74.78	74.51	-0.27
8/18/10 3:00	74.37	74.12	-0.252
8/18/10 4:00	74.05	73.80	-0.252
8/18/10 5:00	73.72	73.49	-0.234
8/18/10 6:00	73.44	73.21	-0.234
8/18/10 7:00	73.25	73.09	-0.162
8/18/10 8:00	73.52	73.50	-0.018
8/18/10 9:00	74.68	74.86	0.18
8/18/10 10:00	75.45	75.88	0.432
8/18/10 11:00	76.99	77.62	0.63
8/18/10 12:00	78.06	78.87	0.81
8/18/10 13:00	78.29	78.97	0.684
8/18/10 14:00	78.25	78.88	0.63
8/18/10 15:00	78.05	78.56	0.504
8/18/10 16:00	77.91	78.23	0.324
8/18/10 17:00	77.78	77.83	0.054
8/18/10 18:00	77.54	77.48	-0.054
8/18/10 19:00	77.09	76.97	-0.126
8/18/10 20:00	76.58	76.34	-0.234
8/18/10 21:00	76.03	75.70	-0.324
8/18/10 22:00	75.24	74.86	-0.378
8/18/10 23:00	74.51	74.06	-0.45
8/19/10 0:00	74.40	73.94	-0.468
8/19/10 1:00	74.00	73.55	-0.45

8/19/10 2:00	73.41	72.95	-0.468
8/19/10 3:00	73.22	72.75	-0.468
8/19/10 4:00	73.02	72.57	-0.45
8/19/10 5:00	72.87	72.41	-0.468
8/19/10 6:00	72.76	72.31	-0.45
8/19/10 7:00	72.64	72.26	-0.378
8/19/10 8:00	72.77	72.55	-0.216
8/19/10 9:00	73.42	73.42	0
8/19/10 10:00	75.29	75.58	0.288
8/19/10 11:00	77.94	78.41	0.468
8/19/10 12:00	80.04	80.55	0.504
8/19/10 13:00	80.88	80.79	-0.09
8/19/10 14:00	81.72	81.77	0.054
8/19/10 15:00	81.55	81.06	-0.486
8/19/10 16:00	80.81	80.74	-0.072
8/19/10 17:00	80.12	80.05	-0.072
8/19/10 18:00	79.73	79.64	-0.09
8/19/10 19:00	79.29	79.18	-0.108
8/19/10 20:00	78.75	78.62	-0.126
8/19/10 21:00	78.16	78.02	-0.144
8/19/10 22:00	77.47	77.29	-0.18
8/19/10 23:00	76.80	76.62	-0.18
8/20/10 0:00	76.37	76.18	-0.198
8/20/10 1:00	76.01	75.78	-0.234
8/20/10 2:00	75.63	75.38	-0.252
8/20/10 3:00	75.09	74.80	-0.288
8/20/10 4:00	74.72	74.43	-0.288
8/20/10 5:00	74.36	74.06	-0.306
8/20/10 6:00	74.19	73.89	-0.306
8/20/10 7:00	74.29	74.09	-0.198
8/20/10 8:00	74.43	74.35	-0.072
8/20/10 9:00	76.25	76.41	0.162
8/20/10 10:00	77.94	78.23	0.288
8/20/10 11:00	80.33	80.80	0.468
8/20/10 12:00	82.15	82.02	-0.126
8/20/10 13:00	83.00	82.84	-0.162
8/20/10 14:00	83.38	83.38	0
8/20/10 15:00	83.21	83.12	-0.09
8/20/10 16:00	82.49	82.42	-0.072
8/20/10 17:00	81.44	81.20	-0.234
8/20/10 18:00	80.00	79.76	-0.234
8/20/10 19:00	78.72	78.47	-0.252
8/20/10 20:00	78.09	77.82	-0.27
8/20/10 21:00	77.45	77.17	-0.288
8/20/10 22:00	76.86	76.57	-0.288
8/20/10 23:00	76.30	76.00	-0.306
8/21/10 0:00	75.73	75.42	-0.306
8/21/10 1:00	75.33	75.04	-0.288
8/21/10 2:00	74.82	74.55	-0.27
8/21/10 3:00	74.69	74.42	-0.27

8/21/10 4:00	74.39	74.12	-0.27
8/21/10 5:00	74.25	74.01	-0.234
8/21/10 6:00	74.03	73.81	-0.216
8/21/10 7:00	73.98	73.87	-0.108
8/21/10 8:00	74.23	74.25	0.018
8/21/10 9:00	75.17	75.43	0.252
8/21/10 10:00	76.63	77.09	0.468
8/21/10 11:00	77.56	78.17	0.612
8/21/10 12:00	78.87	79.41	0.54
8/21/10 13:00	79.66	80.25	0.594
8/21/10 14:00	80.10	80.35	0.252
8/21/10 15:00	80.29	80.64	0.342
8/21/10 16:00	79.96	79.87	-0.09
8/21/10 17:00	79.51	79.42	-0.09
8/21/10 18:00	78.49	78.40	-0.09
8/21/10 19:00	78.07	77.94	-0.126
8/21/10 20:00	77.52	77.27	-0.252
8/21/10 21:00	77.01	76.74	-0.27
8/21/10 22:00	76.82	76.56	-0.252
8/21/10 23:00	76.53	76.39	-0.144
8/22/10 0:00	76.27	76.09	-0.18
8/22/10 1:00	76.10	75.92	-0.18
8/22/10 2:00	75.93	75.79	-0.144
8/22/10 3:00	75.68	75.57	-0.108
8/22/10 4:00	75.59	75.48	-0.108
8/22/10 5:00	75.33	75.26	-0.072
8/22/10 6:00	75.16	75.11	-0.054
8/22/10 7:00	75.07	75.07	0
8/22/10 8:00	75.03	75.14	0.108
8/22/10 9:00	75.09	75.30	0.216
8/22/10 10:00	74.65	74.81	0.162
8/22/10 11:00	74.69	74.87	0.18
8/22/10 12:00	75.13	75.47	0.342
8/22/10 13:00	75.64	76.00	0.36
8/22/10 14:00	75.86	76.06	0.198
8/22/10 15:00	76.14	75.42	-0.72
8/22/10 16:00	76.32	76.01	-0.306
8/22/10 17:00	76.28	76.03	-0.252
8/22/10 18:00	75.95	75.70	-0.252
8/22/10 19:00	75.82	75.60	-0.216
8/22/10 20:00	75.40	75.29	-0.108
8/22/10 21:00	75.04	74.95	-0.09
8/22/10 22:00	74.59	74.50	-0.09
8/22/10 23:00	74.27	74.20	-0.072
8/23/10 0:00	74.16	74.07	-0.09
8/23/10 1:00	73.96	73.87	-0.09
8/23/10 2:00	73.87	73.76	-0.108
8/23/10 3:00	73.60	73.48	-0.126
8/23/10 4:00	73.58	73.47	-0.108
8/23/10 5:00	73.43	73.29	-0.144

8/23/10 6:00	73.58	73.46	-0.126
8/23/10 7:00	73.37	73.28	-0.09
8/23/10 8:00	73.45	73.46	0.018
8/23/10 9:00	73.72	73.90	0.18
8/23/10 10:00	73.70	74.10	0.396
8/23/10 11:00	73.89	74.48	0.594
8/23/10 12:00	74.46	74.93	0.468
8/23/10 13:00	75.57	75.82	0.252
8/23/10 14:00	76.13	76.43	0.306
8/23/10 15:00	76.20	76.33	0.126
8/23/10 16:00	75.74	75.79	0.054
8/23/10 17:00	75.31	74.95	-0.36
8/23/10 18:00	75.09	74.70	-0.396
8/23/10 19:00	74.45	74.05	-0.396
8/23/10 20:00	73.90	73.52	-0.378
8/23/10 21:00	73.53	73.21	-0.324
8/23/10 22:00	73.35	73.06	-0.288
8/23/10 23:00	73.15	72.86	-0.288
8/24/10 1:00	72.67	72.40	-0.27
8/24/10 2:00	72.49	72.20	-0.288
8/24/10 3:00	72.33	72.06	-0.27
8/24/10 4:00	72.19	71.90	-0.288
8/24/10 5:00	72.06	71.75	-0.306
8/24/10 6:00	71.88	71.59	-0.288
8/24/10 7:00	71.84	71.63	-0.216
8/24/10 8:00	72.12	72.06	-0.054
8/24/10 9:00	72.46	72.59	0.126
8/24/10 10:00	72.60	72.96	0.36
8/24/10 11:00	72.67	73.15	0.486
8/24/10 12:00	72.84	73.29	0.45
8/24/10 13:00	73.18	73.54	0.36
8/24/10 14:00	73.40	73.56	0.162
8/24/10 15:00	73.60	73.72	0.126
8/24/10 16:00	73.47	73.33	-0.144
8/24/10 17:00	73.49	73.34	-0.144
8/24/10 18:00	73.34	73.16	-0.18
8/24/10 19:00	73.11	72.89	-0.216
8/24/10 20:00	72.87	72.62	-0.252
8/24/10 21:00	72.68	72.40	-0.288
8/24/10 22:00	72.32	72.02	-0.306
8/24/10 23:00	72.15	71.83	-0.324
8/25/10 0:00	72.05	71.71	-0.342
8/25/10 1:00	71.92	71.57	-0.342
8/25/10 2:00	71.79	71.45	-0.342
8/25/10 3:00	71.72	71.36	-0.36
8/25/10 4:00	71.62	71.26	-0.36
8/25/10 5:00	71.63	71.29	-0.342
8/25/10 6:00	71.50	71.16	-0.342
8/25/10 7:00	71.33	71.04	-0.288

8/25/10 8:00	71.43	71.25	-0.18
8/25/10 9:00	71.95	71.97	0.018
8/25/10 10:00	72.65	72.83	0.18
8/25/10 11:00	72.72	72.99	0.27
8/25/10 12:00	72.79	73.06	0.27
8/25/10 13:00	72.90	73.13	0.234
8/25/10 14:00	73.04	73.09	0.054
8/25/10 15:00	73.12	73.28	0.162
8/25/10 16:00	73.03	73.05	0.018
8/25/10 17:00	72.84	72.75	-0.09
8/25/10 18:00	72.61	72.50	-0.108
8/25/10 19:00	72.34	72.18	-0.162
8/25/10 20:00	72.03	71.82	-0.216
8/25/10 21:00	71.78	71.52	-0.252
8/25/10 22:00	71.56	71.25	-0.306
8/25/10 23:00	71.37	71.03	-0.342
8/26/10 0:00	71.22	70.84	-0.378
8/26/10 1:00	71.07	70.66	-0.414
8/26/10 2:00	70.97	70.54	-0.432
8/26/10 3:00	70.84	70.39	-0.45
8/26/10 4:00	70.70	70.21	-0.486
8/26/10 5:00	70.60	70.12	-0.486
8/26/10 6:00	70.56	70.11	-0.45
8/26/10 7:00	70.56	70.15	-0.414
8/26/10 8:00	70.61	70.33	-0.288
8/26/10 9:00	70.73	70.66	-0.072
8/26/10 10:00	71.23	71.29	0.054
8/26/10 11:00	71.79	72.04	0.252
8/26/10 12:00	71.88	72.23	0.342
8/26/10 13:00	72.05	72.08	0.036
8/26/10 14:00	72.10	72.05	-0.054
8/26/10 15:00	72.11	71.95	-0.162
8/26/10 16:00	72.20	71.84	-0.36
8/26/10 17:00	72.30	72.17	-0.126
8/26/10 18:00	72.24	72.12	-0.126
8/26/10 19:00	72.14	71.96	-0.18
8/26/10 20:00	72.01	71.82	-0.198
8/26/10 21:00	71.91	71.69	-0.216
8/26/10 22:00	71.79	71.56	-0.234
8/26/10 23:00	71.70	71.45	-0.252
8/27/10 0:00	71.56	71.28	-0.288
8/27/10 1:00	71.42	71.11	-0.306
8/27/10 2:00	71.29	70.97	-0.324
8/27/10 3:00	71.22	70.90	-0.324
8/27/10 4:00	71.14	70.80	-0.342
8/27/10 5:00	71.06	70.69	-0.378
8/27/10 6:00	70.96	70.57	-0.396
8/27/10 7:00	70.86	70.52	-0.342
8/27/10 8:00	70.80	70.59	-0.216
8/27/10 9:00	70.84	70.87	0.036

8/27/10 10:00	71.21	71.48	0.27
8/27/10 11:00	71.68	72.07	0.396
8/27/10 12:00	71.87	72.27	0.396
8/27/10 13:00	71.93	72.06	0.126
8/27/10 14:00	72.09	72.16	0.072
8/27/10 15:00	72.06	71.97	-0.09
8/27/10 16:00	71.98	71.92	-0.054
8/27/10 17:00	71.88	71.72	-0.162
8/27/10 18:00	71.87	71.67	-0.198
8/27/10 19:00	71.82	71.60	-0.216
8/27/10 20:00	71.74	71.47	-0.27
8/27/10 21:00	71.59	71.30	-0.288
8/27/10 22:00	71.40	71.10	-0.306
8/27/10 23:00	71.20	70.87	-0.324
8/28/10 0:00	70.99	70.66	-0.324
8/28/10 1:00	70.79	70.45	-0.342
8/28/10 2:00	70.61	70.24	-0.378
8/28/10 3:00	70.46	70.08	-0.378
8/28/10 4:00	70.32	69.94	-0.378
8/28/10 5:00	70.23	69.83	-0.396
8/28/10 6:00	70.15	69.76	-0.396
8/28/10 7:00	70.04	69.72	-0.324
8/28/10 8:00	70.08	69.90	-0.18
8/28/10 9:00	70.43	70.45	0.018
8/28/10 10:00	71.04	71.34	0.306
8/28/10 11:00	71.73	72.28	0.558
8/28/10 12:00	72.19	72.99	0.792
8/28/10 13:00	72.52	73.30	0.774
8/28/10 14:00	72.60	73.52	0.918
8/28/10 15:00	72.45	73.22	0.774
8/28/10 16:00	72.24	72.83	0.594
8/28/10 17:00	72.10	72.64	0.54
8/28/10 18:00	72.05	72.39	0.342
8/28/10 19:00	72.05	72.26	0.216
8/28/10 20:00	72.01	72.12	0.108
8/28/10 21:00	71.91	71.89	-0.018
8/28/10 22:00	71.73	71.60	-0.126
8/28/10 23:00	71.53	71.31	-0.216
8/29/10 0:00	71.28	70.99	-0.288
8/29/10 1:00	71.09	70.73	-0.36
8/29/10 2:00	70.91	70.52	-0.396
8/29/10 3:00	70.75	70.34	-0.414
8/29/10 4:00	70.64	70.17	-0.468
8/29/10 5:00	70.52	70.02	-0.504
8/29/10 6:00	70.43	69.93	-0.504
8/29/10 7:00	70.34	69.88	-0.468
8/29/10 8:00	70.40	70.06	-0.342
8/29/10 9:00	70.91	70.78	-0.126
8/29/10 10:00	71.60	71.74	0.144
8/29/10 11:00	72.37	72.80	0.432

8/29/10 12:00	73.06	73.74	0.684
8/29/10 13:00	73.51	74.39	0.882
8/29/10 14:00	73.65	74.17	0.522
8/29/10 15:00	73.59	73.70	0.108
8/29/10 16:00	73.43	73.39	-0.036
8/29/10 17:00	73.27	73.24	-0.036
8/29/10 18:00	73.18	73.09	-0.09
8/29/10 19:00	73.14	72.96	-0.18
8/29/10 20:00	73.12	72.87	-0.252
8/29/10 21:00	73.03	72.74	-0.288
8/29/10 22:00	72.93	72.57	-0.36
8/29/10 23:00	72.79	72.39	-0.396
8/30/10 0:00	72.62	72.23	-0.396
8/30/10 1:00	72.44	72.02	-0.414
8/30/10 2:00	72.24	71.81	-0.432
8/30/10 3:00	72.06	71.65	-0.414
8/30/10 4:00	71.92	71.48	-0.432
8/30/10 5:00	71.85	71.38	-0.468
8/30/10 6:00	71.76	71.27	-0.486
8/30/10 7:00	71.68	71.21	-0.468
8/30/10 8:00	71.67	71.34	-0.324
8/30/10 9:00	71.81	71.74	-0.072
8/30/10 10:00	72.55	72.73	0.18
8/30/10 11:00	73.61	74.04	0.432
8/30/10 12:00	74.44	75.14	0.702
8/30/10 13:00	75.06	75.29	0.234
8/30/10 14:00	75.36	75.11	-0.252
8/30/10 15:00	75.36	75.27	-0.09
8/30/10 16:00	75.25	75.16	-0.09
8/30/10 17:00	75.06	75.00	-0.054
8/30/10 18:00	74.85	74.78	-0.072
8/30/10 19:00	74.73	74.62	-0.108
8/30/10 20:00	74.66	74.48	-0.18
8/30/10 21:00	74.57	74.37	-0.198
8/30/10 22:00	74.46	74.22	-0.234
8/30/10 23:00	74.35	74.09	-0.252
8/31/10 0:00	74.21	73.94	-0.27
8/31/10 1:00	74.07	73.80	-0.27
8/31/10 2:00	73.89	73.62	-0.27
8/31/10 3:00	73.71	73.42	-0.288
8/31/10 4:00	73.48	73.17	-0.306
8/31/10 5:00	73.32	73.00	-0.324
8/31/10 6:00	73.14	72.82	-0.324
8/31/10 7:00	72.96	72.68	-0.288
8/31/10 8:00	73.06	72.90	-0.162
8/31/10 9:00	73.72	73.77	0.054
8/31/10 10:00	74.72	75.02	0.306
8/31/10 11:00	75.97	76.49	0.522
8/31/10 12:00	76.85	77.41	0.558
8/31/10 13:00	77.21	77.51	0.306

8/31/10 14:00	77.45	77.66	0.216
8/31/10 15:00	77.29	77.49	0.198
8/31/10 16:00	77.09	77.05	-0.036
8/31/10 17:00	76.87	76.85	-0.018
8/31/10 18:00	76.58	76.35	-0.234
8/31/10 19:00	76.50	76.23	-0.27
8/31/10 20:00	76.33	76.00	-0.324
8/31/10 21:00	76.15	75.80	-0.342
8/31/10 22:00	75.91	75.53	-0.378
8/31/10 23:00	75.72	75.32	-0.396

Sonde 6 Test Track (shallow)

Day	Tdata (F)	Tmodified (F)	delta T (F)
6/25/10 14:00	80.05	80.21	0.162
6/25/10 15:00	80.63	80.79	0.162
6/25/10 16:00	81.10	81.21	0.108
6/25/10 17:00	81.33	81.44	0.108
6/25/10 18:00	81.07	81.16	0.09
6/25/10 19:00	80.68	80.73	0.054
6/25/10 20:00	80.01	80.04	0.036
6/25/10 21:00	79.09	79.09	0
6/25/10 22:00	78.22	78.21	-0.018
6/25/10 23:00	77.48	77.45	-0.036
6/26/10 0:00	76.92	76.87	-0.054
6/26/10 1:00	76.44	76.38	-0.054
6/26/10 2:00	76.24	76.16	-0.072
6/27/10 14:00			
6/28/10 14:00			
6/29/10 14:00			
6/30/10 14:00			
7/1/10 14:00			
7/2/10 14:00	76.51	76.61	0.108
7/2/10 15:00	77.09	77.22	0.126
7/2/10 16:00	77.65	77.76	0.108
7/2/10 17:00	78.26	78.36	0.108
7/2/10 18:00	78.11	78.22	0.108
7/2/10 19:00	77.58	77.65	0.072
7/2/10 20:00	76.85	76.92	0.072
7/2/10 21:00	75.90	75.92	0.018
7/2/10 22:00	74.94	74.94	0
7/2/10 23:00	73.97	73.95	-0.018
7/3/10 0:00	73.15	73.09	-0.054
7/3/10 1:00	72.62	72.55	-0.072
7/3/10 2:00	72.15	72.06	-0.09
7/3/10 3:00	71.74	71.65	-0.09
7/3/10 4:00	71.45	71.33	-0.126
7/3/10 5:00	70.99	70.88	-0.108
7/3/10 6:00	70.82	70.71	-0.108
7/3/10 7:00	70.76	70.65	-0.108
7/3/10 8:00	71.00	70.93	-0.072
7/3/10 9:00	71.42	71.38	-0.036
7/3/10 10:00	72.32	72.36	0.036
7/3/10 11:00	73.40	73.47	0.072
7/3/10 12:00	74.69	74.81	0.126
7/3/10 13:00	75.92	76.08	0.162
7/3/10 14:00	77.23	77.42	0.198
7/3/10 15:00	78.38	78.62	0.234
7/3/10 16:00	79.21	79.43	0.216
7/3/10 17:00	79.73	79.91	0.18
7/3/10 18:00	79.86	80.01	0.144

7/3/10 19:00	79.57	79.66	0.09
7/3/10 20:00	78.84	78.91	0.072
7/3/10 21:00	77.86	77.94	0.072
7/3/10 22:00	76.82	76.88	0.054
7/3/10 23:00	75.82	75.88	0.054
7/4/10 0:00	74.87	74.89	0.018
7/4/10 1:00	74.19	74.19	0
7/4/10 2:00	73.63	73.62	-0.018
7/4/10 3:00	73.25	73.21	-0.036
7/4/10 4:00	72.92	72.86	-0.054
7/4/10 5:00	72.50	72.44	-0.054
7/4/10 6:00	72.36	72.31	-0.054
7/4/10 7:00	72.19	72.13	-0.054
7/4/10 8:00	72.36	72.34	-0.018
7/4/10 9:00	72.96	72.96	0
7/4/10 10:00	73.74	73.80	0.054
7/4/10 11:00	74.92	75.03	0.108
7/4/10 12:00	76.24	76.38	0.144
7/4/10 13:00	77.79	77.88	0.09
7/4/10 14:00	79.02	79.07	0.054
7/4/10 15:00	80.24	80.28	0.036
7/4/10 16:00	81.13	81.11	-0.018
7/4/10 17:00	81.67	81.61	-0.054
7/4/10 18:00	81.74	81.67	-0.072
7/4/10 19:00	81.45	81.37	-0.072
7/4/10 20:00	80.73	80.66	-0.072
7/4/10 21:00	79.75	79.68	-0.072
7/4/10 22:00	78.68	78.61	-0.072
7/4/10 23:00	77.68	77.59	-0.09
7/5/10 0:00	76.83	76.76	-0.072
7/5/10 1:00	76.18	76.07	-0.108
7/5/10 2:00	75.81	75.70	-0.108
7/5/10 3:00	75.39	75.29	-0.108
7/5/10 4:00	75.20	75.10	-0.108
7/5/10 5:00	74.98	74.88	-0.108
7/5/10 6:00	74.59	74.48	-0.108
7/5/10 7:00	74.57	74.46	-0.108
7/5/10 8:00	74.69	74.62	-0.072
7/5/10 9:00	75.14	75.12	-0.018
7/5/10 10:00	75.92	75.96	0.036
7/5/10 11:00	77.04	77.13	0.09
7/5/10 12:00	78.32	78.45	0.126
7/5/10 13:00	79.96	80.09	0.126
7/5/10 14:00	81.51	81.67	0.162
7/5/10 15:00	82.85	83.02	0.162
7/5/10 16:00	83.85	83.96	0.108
7/5/10 17:00	84.45	84.52	0.072
7/5/10 18:00	84.62	84.70	0.072
7/5/10 19:00	84.31	84.36	0.054
7/5/10 20:00	83.60	83.64	0.036

7/5/10 21:00	82.62	82.64	0.018
7/5/10 22:00	81.55	81.55	0
7/5/10 23:00	80.50	80.47	-0.036
7/6/10 0:00	79.57	79.52	-0.054
7/6/10 1:00	78.90	78.83	-0.072
7/6/10 2:00	78.44	78.37	-0.072
7/6/10 3:00	78.20	78.11	-0.09
7/6/10 4:00	77.96	77.87	-0.09
7/6/10 5:00	77.78	77.68	-0.108
7/6/10 6:00	77.47	77.36	-0.108
7/6/10 7:00	77.35	77.28	-0.072
7/6/10 8:00	77.51	77.47	-0.036
7/6/10 9:00	77.93	77.93	0
7/6/10 10:00	78.63	78.67	0.036
7/6/10 11:00	79.75	79.83	0.072
7/6/10 12:00	81.23	81.34	0.108
7/6/10 13:00	82.83	82.98	0.144
7/6/10 14:00	84.46	84.64	0.18
7/6/10 15:00	85.82	85.98	0.162
7/6/10 16:00	86.84	87.00	0.162
7/6/10 17:00	87.39	87.55	0.162
7/6/10 18:00	87.46	87.61	0.144
7/6/10 19:00	87.09	87.22	0.126
7/6/10 20:00	86.42	86.51	0.09
7/6/10 21:00	85.62	85.68	0.054
7/6/10 22:00	84.70	84.72	0.018
7/6/10 23:00	83.62	83.60	-0.018
7/7/10 0:00	82.59	82.54	-0.054
7/7/10 1:00	81.84	81.78	-0.054
7/7/10 2:00	81.27	81.20	-0.072
7/7/10 3:00	80.86	80.79	-0.072
7/7/10 4:00	80.69	80.60	-0.09
7/7/10 5:00	80.43	80.32	-0.108
7/7/10 6:00	80.24	80.15	-0.09
7/7/10 7:00	80.20	80.11	-0.09
7/7/10 8:00	80.25	80.20	-0.054
7/7/10 9:00	80.60	80.59	-0.018
7/7/10 10:00	81.28	81.26	-0.018
7/7/10 11:00	82.31	82.35	0.036
7/7/10 12:00	83.68	83.75	0.072
7/7/10 13:00	84.79	84.85	0.054
7/7/10 14:00	85.78	85.78	0
7/7/10 15:00	86.85	86.87	0.018
7/7/10 16:00	87.49	87.53	0.036
7/7/10 17:00	88.13	88.15	0.018
7/7/10 18:00	88.27	88.21	-0.054
7/7/10 19:00	87.95	87.88	-0.072
7/7/10 20:00	87.17	87.10	-0.072
7/7/10 21:00	86.27	86.18	-0.09
7/7/10 22:00	85.26	85.17	-0.09

7/7/10 23:00	84.23	84.12	-0.108
7/8/10 0:00	83.28	83.16	-0.126
7/8/10 1:00	82.45	82.32	-0.126
7/8/10 2:00	81.99	81.86	-0.126
7/8/10 3:00	81.61	81.47	-0.144
7/8/10 4:00	81.29	81.14	-0.144
7/8/10 5:00	81.15	81.01	-0.144
7/8/10 6:00	80.86	80.71	-0.144
7/8/10 7:00	80.66	80.53	-0.126
7/8/10 8:00	80.75	80.66	-0.09
7/8/10 9:00	81.10	81.05	-0.054
7/8/10 10:00	81.73	81.73	0
7/8/10 11:00	82.82	82.89	0.072
7/8/10 12:00	84.20	84.31	0.108
7/8/10 13:00	85.75	85.89	0.144
7/8/10 14:00	87.17	87.30	0.126
7/8/10 15:00	88.18	88.21	0.036
7/8/10 16:00	89.18	89.21	0.036
7/8/10 17:00	89.56	89.58	0.018
7/8/10 18:00	89.04	89.04	0
7/8/10 19:00	88.34	88.29	-0.054
7/8/10 20:00	87.40	87.35	-0.054
7/8/10 21:00	86.43	86.36	-0.072
7/8/10 22:00	85.61	85.54	-0.072
7/9/10 0:00	84.13	84.04	-0.09
7/9/10 1:00	83.39	83.30	-0.09
7/9/10 2:00	82.79	82.70	-0.09
7/9/10 3:00	82.51	82.42	-0.09
7/9/10 4:00	82.28	82.17	-0.108
7/9/10 5:00	82.10	81.99	-0.108
7/9/10 6:00	82.00	81.90	-0.108
7/9/10 7:00	81.81	81.70	-0.108
7/9/10 8:00	81.65	81.58	-0.072
7/9/10 9:00	81.64	81.61	-0.036
7/9/10 10:00	81.97	81.95	-0.018
7/9/10 11:00	82.40	82.40	0
7/9/10 12:00	82.98	83.02	0.036
7/9/10 13:00	83.56	83.61	0.054
7/9/10 14:00	84.83	84.91	0.072
7/9/10 15:00	86.02	86.04	0.018
7/9/10 16:00	86.27	86.27	0
7/9/10 17:00	86.68	86.66	-0.018
7/9/10 18:00	87.02	86.99	-0.036
7/9/10 19:00	86.58	86.52	-0.054
7/9/10 20:00	85.92	85.87	-0.054
7/9/10 21:00	85.28	85.20	-0.072
7/9/10 22:00	84.58	84.51	-0.072
7/9/10 23:00	83.89	83.81	-0.072
7/10/10 0:00	83.21	83.12	-0.09

7/10/10 1:00	82.41	82.32	-0.09
7/10/10 2:00	81.78	81.69	-0.09
7/10/10 3:00	81.41	81.32	-0.09
7/10/10 4:00	81.06	80.97	-0.09
7/10/10 5:00	80.76	80.65	-0.108
7/10/10 6:00	80.66	80.57	-0.09
7/10/10 7:00	80.42	80.33	-0.09
7/10/10 8:00	80.57	80.50	-0.072
7/10/10 9:00	80.45	80.40	-0.054
7/10/10 10:00	80.42	80.42	0
7/10/10 11:00	80.38	80.43	0.054
7/10/10 12:00	80.63	80.74	0.108
7/10/10 13:00	80.96	81.10	0.144
7/10/10 14:00	81.70	81.86	0.162
7/10/10 15:00	82.51	82.62	0.108
7/10/10 16:00	83.18	83.27	0.09
7/10/10 17:00	83.83	83.85	0.018
7/10/10 18:00	84.30	84.30	0
7/10/10 19:00	84.25	84.22	-0.036
7/10/10 20:00	83.81	83.74	-0.072
7/10/10 21:00	83.15	83.08	-0.072
7/10/10 22:00	82.38	82.29	-0.09
7/10/10 23:00	81.63	81.54	-0.09
7/11/10 0:00	80.86	80.75	-0.108
7/11/10 1:00	80.27	80.16	-0.108
7/11/10 2:00	79.59	79.47	-0.126
7/11/10 3:00	79.28	79.16	-0.126
7/11/10 4:00	78.85	78.70	-0.144
7/11/10 5:00	78.36	78.22	-0.144
7/11/10 6:00	78.06	77.92	-0.144
7/11/10 7:00	77.91	77.77	-0.144
7/11/10 8:00	78.11	78.00	-0.108
7/11/10 9:00	78.47	78.40	-0.072
7/11/10 10:00	79.18	79.15	-0.036
7/11/10 11:00	80.14	80.14	0
7/11/10 12:00	81.40	81.45	0.054
7/11/10 13:00	82.99	83.06	0.072
7/11/10 14:00	84.49	84.52	0.036
7/11/10 15:00	85.87	85.86	-0.018
7/11/10 16:00	86.99	86.97	-0.018
7/11/10 17:00	87.35	87.33	-0.018
7/11/10 18:00	87.15	87.12	-0.036
7/11/10 19:00	86.69	86.62	-0.072
7/11/10 20:00	85.90	85.81	-0.09
7/11/10 21:00	84.77	84.66	-0.108
7/11/10 22:00	83.62	83.49	-0.126
7/11/10 23:00	82.38	82.23	-0.144
7/12/10 0:00	81.14	80.98	-0.162
7/12/10 1:00	79.88	79.72	-0.162
7/12/10 2:00	79.01	78.85	-0.162

7/12/10 3:00	78.40	78.20	-0.198
7/12/10 4:00	78.04	77.86	-0.18
7/12/10 5:00	77.69	77.49	-0.198
7/12/10 6:00	77.43	77.25	-0.18
7/12/10 7:00	77.25	77.09	-0.162
7/12/10 8:00	77.22	77.08	-0.144
7/12/10 9:00	77.59	77.52	-0.072
7/12/10 10:00	78.36	78.32	-0.036
7/12/10 11:00	79.28	79.30	0.018
7/12/10 12:00	80.62	80.67	0.054
7/12/10 13:00	81.91	82.00	0.09
7/12/10 14:00	82.81	82.93	0.126
7/12/10 15:00	83.46	83.53	0.072
7/12/10 16:00	83.66	83.73	0.072
7/12/10 17:00	83.44	83.53	0.09
7/12/10 18:00	82.87	82.91	0.036
7/12/10 19:00	82.06	82.08	0.018
7/12/10 20:00	81.26	81.24	-0.018
7/12/10 21:00	80.46	80.44	-0.018
7/12/10 22:00	79.61	79.57	-0.036
7/12/10 23:00	78.85	78.81	-0.036
7/13/10 0:00	78.26	78.23	-0.036
7/13/10 1:00	77.95	77.89	-0.054
7/13/10 2:00	77.81	77.74	-0.072
7/13/10 3:00	77.77	77.70	-0.072
7/13/10 4:00	77.57	77.50	-0.072
7/13/10 5:00	77.56	77.49	-0.072
7/13/10 6:00	77.44	77.36	-0.072
7/13/10 7:00	77.43	77.37	-0.054
7/13/10 8:00	77.42	77.39	-0.036
7/13/10 9:00	77.42	77.42	0
7/13/10 10:00	77.59	77.65	0.054
7/13/10 11:00	78.17	78.27	0.108
7/13/10 12:00	78.84	78.98	0.144
7/13/10 13:00	79.22	79.38	0.162
7/13/10 14:00	80.08	80.24	0.162
7/13/10 15:00	80.96	81.14	0.18
7/13/10 16:00	81.44	81.62	0.18
7/13/10 17:00	81.55	81.73	0.18
7/13/10 18:00	81.66	81.81	0.144
7/13/10 19:00	81.72	81.81	0.09
7/13/10 20:00	81.25	81.34	0.09
7/13/10 21:00	80.71	80.76	0.054
7/13/10 22:00	80.17	80.19	0.018
7/13/10 23:00	79.70	79.70	0
7/14/10 0:00	79.34	79.34	0
7/14/10 1:00	79.12	79.10	-0.018
7/14/10 2:00	78.98	78.95	-0.036
7/14/10 3:00	78.82	78.77	-0.054
7/14/10 4:00	78.68	78.63	-0.054

7/14/10 5:00	78.30	78.25	-0.054
7/14/10 6:00	78.22	78.15	-0.072
7/14/10 7:00	78.12	78.05	-0.072
7/14/10 8:00	78.22	78.19	-0.036
7/14/10 9:00	78.25	78.23	-0.018
7/14/10 10:00	78.35	78.38	0.036
7/14/10 11:00	78.42	78.47	0.054
7/14/10 12:00	78.54	78.65	0.108
7/14/10 13:00	78.81	78.94	0.126
7/14/10 14:00	79.17	79.26	0.09
7/14/10 15:00	79.77	79.89	0.126
7/14/10 16:00	80.36	80.47	0.108
7/14/10 17:00	80.56	80.64	0.072
7/14/10 18:00	81.01	81.09	0.072
7/14/10 19:00	80.64	80.69	0.054
7/14/10 20:00	80.03	80.07	0.036
7/14/10 21:00	79.45	79.45	0
7/14/10 22:00	78.80	78.80	0
7/14/10 23:00	78.15	78.12	-0.036
7/15/10 0:00	77.54	77.50	-0.036
7/15/10 1:00	77.30	77.25	-0.054
7/15/10 2:00	77.29	77.22	-0.072
7/15/10 3:00	77.22	77.15	-0.072
7/15/10 4:00	77.11	77.02	-0.09
7/15/10 5:00	77.16	77.07	-0.09
7/15/10 6:00	77.05	76.95	-0.108
7/15/10 7:00	77.11	77.02	-0.09
7/15/10 8:00	77.27	77.20	-0.072
7/15/10 9:00	77.25	77.20	-0.054
7/15/10 10:00	77.48	77.48	0
7/15/10 11:00	78.05	78.09	0.036
7/15/10 12:00	79.06	79.15	0.09
7/15/10 13:00	80.15	80.26	0.108
7/15/10 14:00	81.17	81.32	0.144
7/15/10 15:00	82.22	82.36	0.144
7/15/10 16:00	83.25	83.41	0.162
7/15/10 17:00	83.94	84.08	0.144
7/15/10 18:00	84.01	84.10	0.09
7/15/10 19:00	83.74	83.81	0.072
7/15/10 20:00	83.17	83.22	0.054
7/15/10 21:00	82.30	82.33	0.036
7/15/10 22:00	81.28	81.30	0.018
7/15/10 23:00	80.33	80.33	0
7/16/10 0:00	79.54	79.52	-0.018
7/16/10 1:00	79.10	79.06	-0.036
7/16/10 2:00	78.59	78.53	-0.054
7/16/10 3:00	78.50	78.43	-0.072
7/16/10 4:00	78.23	78.14	-0.09
7/16/10 5:00	78.02	77.93	-0.09
7/16/10 6:00	77.78	77.67	-0.108

7/16/10 7:00	77.72	77.63	-0.09
7/16/10 8:00	77.97	77.90	-0.072
7/16/10 9:00	78.27	78.24	-0.036
7/16/10 10:00	79.03	79.03	0
7/16/10 11:00	80.02	79.98	-0.036
7/16/10 12:00	80.76	80.74	-0.018
7/16/10 13:00	82.95	82.95	0
7/16/10 14:00	83.89	83.89	0
7/16/10 15:00	84.61	84.57	-0.036
7/16/10 16:00	84.24	84.20	-0.036
7/16/10 17:00	83.87	83.85	-0.018
7/16/10 18:00	83.76	83.71	-0.054
7/16/10 19:00	83.20	83.13	-0.072
7/16/10 20:00	82.41	82.34	-0.072
7/16/10 21:00	81.51	81.44	-0.072
7/16/10 22:00	80.48	80.39	-0.09
7/16/10 23:00	79.66	79.57	-0.09
7/17/10 0:00	79.11	79.03	-0.072
7/17/10 1:00	78.88	78.79	-0.09
7/17/10 2:00	78.67	78.58	-0.09
7/17/10 3:00	78.54	78.47	-0.072
7/17/10 4:00	78.45	78.36	-0.09
7/17/10 5:00	78.40	78.31	-0.09
7/17/10 6:00	78.35	78.26	-0.09
7/17/10 7:00	78.31	78.23	-0.072
7/17/10 8:00	78.43	78.37	-0.054
7/17/10 9:00	78.70	78.70	0
7/17/10 10:00	79.20	79.21	0.018
7/17/10 11:00	80.01	80.06	0.054
7/17/10 12:00	81.12	81.19	0.072
7/17/10 13:00	82.30	82.36	0.054
7/17/10 14:00	83.48	83.50	0.018
7/17/10 15:00	84.52	84.50	-0.018
7/17/10 16:00	85.31	85.27	-0.036
7/17/10 17:00	85.68	85.64	-0.036
7/17/10 18:00	85.85	85.82	-0.036
7/17/10 19:00	85.55	85.51	-0.036
7/17/10 20:00	84.80	84.75	-0.054
7/17/10 21:00	83.94	83.89	-0.054
7/18/10 3:00	79.67	79.60	-0.072
7/18/10 4:00	79.51	79.45	-0.054
7/18/10 5:00	79.52	79.45	-0.072
7/18/10 6:00	79.42	79.36	-0.054
7/18/10 7:00	79.50	79.48	-0.018
7/18/10 8:00	79.65	79.65	0
7/18/10 9:00	79.95	79.99	0.036
7/18/10 10:00	80.31	80.36	0.054
7/18/10 11:00	81.04	81.11	0.072
7/18/10 12:00	82.03	82.07	0.036
7/18/10 13:00	83.01	82.99	-0.018

7/18/10 14:00	84.02	84.06	0.036
7/18/10 15:00	85.04	85.01	-0.036
7/18/10 16:00	85.81	85.77	-0.036
7/18/10 17:00	86.18	86.15	-0.036
7/18/10 18:00	86.24	86.20	-0.036
7/18/10 19:00	85.98	85.94	-0.036
7/18/10 20:00	85.34	85.29	-0.054
7/18/10 21:00	84.57	84.52	-0.054
7/18/10 22:00	83.70	83.62	-0.072
7/18/10 23:00	82.63	82.56	-0.072
7/19/10 0:00	81.62	81.53	-0.09
7/19/10 1:00	80.83	80.74	-0.09
7/19/10 2:00	80.48	80.39	-0.09
7/19/10 3:00	80.29	80.18	-0.108
7/19/10 4:00	79.94	79.85	-0.09
7/19/10 5:00	79.97	79.88	-0.09
7/19/10 6:00	79.84	79.73	-0.108
7/19/10 7:00	79.54	79.47	-0.072
7/19/10 8:00	79.65	79.57	-0.072
7/19/10 9:00	80.12	80.14	0.018
7/19/10 10:00	80.76	80.83	0.072
7/19/10 11:00	81.66	81.75	0.09
7/19/10 12:00	82.81	82.91	0.108
7/19/10 13:00	83.93	84.00	0.072
7/19/10 14:00	84.38	84.44	0.054
7/19/10 15:00	84.83	84.83	0
7/19/10 16:00	85.66	85.69	0.036
7/19/10 17:00	86.11	86.17	0.054
7/19/10 18:00	86.06	86.10	0.036
7/19/10 19:00	85.78	85.78	0
7/19/10 20:00	85.23	85.23	0
7/19/10 21:00	84.44	84.43	-0.018
7/19/10 22:00	83.70	83.68	-0.018
7/19/10 23:00	82.91	82.88	-0.036
7/20/10 0:00	82.02	81.97	-0.054
7/20/10 1:00	81.21	81.15	-0.054
7/20/10 2:00	80.60	80.53	-0.072
7/20/10 3:00	80.15	80.08	-0.072
7/20/10 4:00	80.02	79.94	-0.072
7/20/10 5:00	79.84	79.75	-0.09
7/20/10 6:00	79.63	79.54	-0.09
7/20/10 7:00	79.60	79.51	-0.09
7/20/10 8:00	79.54	79.47	-0.072
7/20/10 9:00	79.57	79.53	-0.036
7/20/10 10:00	79.83	79.83	0
7/20/10 11:00	79.91	79.97	0.054
7/20/10 12:00	80.25	80.32	0.072
7/20/10 13:00	80.83	80.92	0.09
7/20/10 14:00	81.69	81.76	0.072
7/20/10 15:00	82.48	82.55	0.072

7/20/10 16:00	83.32	83.35	0.036
7/20/10 17:00	84.24	84.25	0.018
7/20/10 18:00	84.44	84.44	0
7/20/10 19:00	84.23	84.21	-0.018
7/20/10 20:00	83.77	83.74	-0.036
7/20/10 21:00	83.20	83.14	-0.054
7/20/10 22:00	82.51	82.46	-0.054
7/20/10 23:00	81.79	81.72	-0.072
7/21/10 0:00	81.10	81.03	-0.072
7/21/10 1:00	80.53	80.44	-0.09
7/21/10 2:00	80.07	79.98	-0.09
7/21/10 3:00	79.92	79.83	-0.09
7/21/10 4:00	79.76	79.66	-0.108
7/21/10 5:00	79.56	79.45	-0.108
7/21/10 6:00	79.42	79.31	-0.108
7/21/10 7:00	79.18	79.09	-0.09
7/21/10 8:00	79.31	79.24	-0.072
7/21/10 9:00	79.64	79.61	-0.036
7/21/10 10:00	80.25	80.25	0
7/21/10 11:00	81.09	81.13	0.036
7/21/10 12:00	82.06	82.08	0.018
7/21/10 13:00	82.97	83.00	0.036
7/21/10 14:00	83.31	83.27	-0.036
7/21/10 15:00	84.05	84.05	0
7/21/10 16:00	85.29	85.27	-0.018
7/21/10 17:00	85.63	85.61	-0.018
7/21/10 18:00	85.60	85.55	-0.054
7/21/10 19:00	85.41	85.33	-0.072
7/21/10 20:00	84.98	84.89	-0.09
7/21/10 21:00	84.31	84.24	-0.072
7/21/10 22:00	83.50	83.41	-0.09
7/21/10 23:00	82.67	82.58	-0.09
7/22/10 0:00	81.75	81.66	-0.09
7/22/10 1:00	80.86	80.77	-0.09
7/22/10 2:00	80.03	79.93	-0.108
7/22/10 3:00	79.37	79.26	-0.108
7/22/10 4:00	79.08	78.98	-0.108
7/22/10 5:00	78.87	78.74	-0.126
7/22/10 6:00	78.76	78.66	-0.108
7/22/10 7:00	78.68	78.59	-0.09
7/22/10 8:00	78.77	78.70	-0.072
7/22/10 9:00	79.13	79.09	-0.036
7/22/10 10:00	79.66	79.64	-0.018
7/22/10 11:00	80.46	80.49	0.036
7/22/10 12:00	81.43	81.47	0.036
7/22/10 13:00	82.51	82.53	0.018
7/22/10 14:00	83.50	83.48	-0.018
7/22/10 15:00	84.52	84.52	0
7/22/10 16:00	85.10	85.08	-0.018
7/22/10 17:00	85.50	85.46	-0.036

7/22/10 18:00	85.59	85.55	-0.036
7/22/10 19:00	85.30	85.27	-0.036
7/22/10 20:00	84.88	84.84	-0.036
7/22/10 21:00	84.21	84.16	-0.054
7/22/10 22:00	83.42	83.37	-0.054
7/22/10 23:00	82.57	82.50	-0.072
7/23/10 0:00	81.69	81.64	-0.054
7/23/10 1:00	80.80	80.73	-0.072
7/23/10 2:00	80.10	80.02	-0.072
7/23/10 3:00	79.62	79.53	-0.09
7/23/10 4:00	79.24	79.17	-0.072
7/23/10 5:00	79.06	78.97	-0.09
7/23/10 6:00	78.98	78.90	-0.072
7/23/10 7:00	78.92	78.85	-0.072
7/23/10 8:00	78.63	78.60	-0.036
7/23/10 9:00	78.61	78.59	-0.018
7/23/10 10:00	78.57	78.60	0.036
7/23/10 11:00	78.71	78.80	0.09
7/23/10 12:00	78.99	79.12	0.126
7/23/10 13:00	79.30	79.48	0.18
7/23/10 14:00	80.16	80.38	0.216
7/23/10 15:00	81.27	81.48	0.216
7/23/10 16:00	82.04	82.22	0.18
7/23/10 17:00	82.59	82.72	0.126
7/23/10 18:00	82.86	82.95	0.09
7/23/10 19:00	82.95	83.01	0.054
7/23/10 20:00	82.81	82.85	0.036
7/23/10 21:00	82.55	82.59	0.036
7/23/10 22:00	82.09	82.09	0
7/23/10 23:00	81.55	81.52	-0.036
7/24/10 0:00	81.00	80.96	-0.036
7/24/10 1:00	80.39	80.34	-0.054
7/24/10 2:00	79.83	79.75	-0.072
7/24/10 3:00	79.36	79.29	-0.072
7/24/10 4:00	79.07	79.00	-0.072
7/24/10 5:00	78.89	78.82	-0.072
7/24/10 6:00	78.66	78.59	-0.072
7/24/10 7:00	78.73	78.68	-0.054
7/24/10 8:00	78.96	78.92	-0.036
7/24/10 9:00	79.49	79.51	0.018
7/24/10 10:00	80.17	80.23	0.054
7/24/10 11:00	81.03	81.12	0.09
7/24/10 12:00	82.17	82.30	0.126
7/24/10 13:00	83.48	83.57	0.09
7/24/10 14:00	84.46	84.57	0.108
7/24/10 15:00	85.20	85.26	0.054
7/24/10 16:00	86.13	86.17	0.036
7/24/10 17:00	86.97	86.93	-0.036
7/24/10 19:00	87.05	87.00	-0.054
7/24/10 20:00	86.49	86.44	-0.054

7/24/10 21:00	85.79	85.74	-0.054
7/24/10 22:00	84.54	84.47	-0.072
7/24/10 23:00	83.41	83.30	-0.108
7/25/10 23:00			
7/26/10 23:00			
7/27/10 23:00			
7/28/10 11:00	78.89	78.96	0.072
7/28/10 12:00	80.02	80.13	0.108
7/28/10 13:00	81.03	81.16	0.126
7/28/10 14:00	82.01	82.07	0.054
7/28/10 15:00	82.79	82.85	0.054
7/28/10 16:00	83.37	83.33	-0.036
7/28/10 17:00	83.58	83.57	-0.018
7/28/10 18:00	83.37	83.34	-0.036
7/28/10 19:00	82.96	82.93	-0.036
7/28/10 20:00	82.36	82.31	-0.054
7/28/10 21:00	81.63	81.57	-0.054
7/28/10 22:00	80.94	80.87	-0.072
7/28/10 23:00	80.38	80.31	-0.072
7/29/10 0:00	79.92	79.86	-0.054
7/29/10 1:00	79.53	79.46	-0.072
7/29/10 2:00	79.37	79.30	-0.072
7/29/10 3:00	79.07	79.00	-0.072
7/29/10 4:00	78.87	78.80	-0.072
7/29/10 5:00	78.77	78.70	-0.072
7/29/10 6:00	78.61	78.53	-0.072
7/29/10 7:00	78.50	78.43	-0.072
7/29/10 8:00	78.67	78.62	-0.054
7/29/10 9:00	78.80	78.80	0
7/29/10 10:00	79.39	79.43	0.036
7/29/10 11:00	79.91	79.98	0.072
7/29/10 12:00	80.60	80.62	0.018
7/29/10 13:00	81.41	81.32	-0.09
7/29/10 14:00	82.33	82.26	-0.072
7/29/10 15:00	83.08	83.04	-0.036
7/29/10 16:00	83.68	83.66	-0.018
7/29/10 17:00	83.91	83.87	-0.036
7/29/10 18:00	83.73	83.67	-0.054
7/29/10 19:00	83.24	83.17	-0.072
7/29/10 20:00	82.43	82.36	-0.072
7/29/10 21:00	81.43	81.34	-0.09
7/29/10 22:00	80.53	80.46	-0.072
7/29/10 23:00	79.62	79.53	-0.09
7/30/10 0:00	78.80	78.69	-0.108
7/30/10 1:00	78.40	78.29	-0.108
7/30/10 2:00	77.86	77.73	-0.126
7/30/10 3:00	77.47	77.32	-0.144
7/30/10 4:00	77.06	76.93	-0.126
7/30/10 5:00	76.78	76.65	-0.126
7/30/10 6:00	76.48	76.33	-0.144

7/30/10 7:00	76.33	76.21	-0.126
7/30/10 8:00	76.30	76.21	-0.09
7/30/10 9:00	75.02	74.94	-0.072
7/30/10 11:00	78.12	78.15	0.036
7/30/10 12:00	79.08	79.17	0.09
7/30/10 13:00	80.02	80.14	0.126
7/30/10 14:00	81.11	81.23	0.126
7/30/10 15:00	81.88	81.97	0.09
7/30/10 16:00	82.23	82.32	0.09
7/30/10 17:00	82.12	82.14	0.018
7/30/10 18:00	81.85	81.83	-0.018
7/30/10 19:00	81.24	81.19	-0.054
7/30/10 20:00	80.41	80.35	-0.054
7/30/10 21:00	79.64	79.58	-0.054
7/30/10 22:00	79.03	78.96	-0.072
7/30/10 23:00	78.40	78.31	-0.09
7/31/10 0:00	77.94	77.83	-0.108
7/31/10 1:00	77.68	77.58	-0.108
7/31/10 2:00	77.41	77.31	-0.108
7/31/10 3:00	77.27	77.15	-0.126
7/31/10 4:00	76.99	76.84	-0.144
7/31/10 5:00	76.55	76.41	-0.144
7/31/10 6:00	76.22	76.07	-0.144
7/31/10 7:00	75.88	75.74	-0.144
7/31/10 8:00	75.66	75.56	-0.108
7/31/10 9:00	75.84	75.77	-0.072
7/31/10 10:00	76.44	76.41	-0.036
7/31/10 11:00	77.27	77.31	0.036
7/31/10 12:00	78.55	78.62	0.072
7/31/10 13:00	79.86	79.98	0.126
7/31/10 14:00	81.03	81.19	0.162
7/31/10 15:00	82.28	82.46	0.18
7/31/10 16:00	82.76	82.96	0.198
7/31/10 17:00	83.05	83.25	0.198
7/31/10 18:00	83.07	83.21	0.144
7/31/10 19:00	82.58	82.73	0.144
7/31/10 20:00	81.70	81.82	0.126
7/31/10 21:00	80.77	80.88	0.108
7/31/10 22:00	79.73	79.80	0.072
7/31/10 23:00	78.85	78.91	0.054
8/1/10 0:00	78.16	78.20	0.036
8/1/10 1:00	77.77	77.77	0
8/1/10 2:00	77.55	77.55	0
8/1/10 3:00	77.28	77.26	-0.018
8/1/10 4:00	77.08	77.04	-0.036
8/1/10 5:00	76.85	76.80	-0.054
8/1/10 6:00	76.78	76.73	-0.054
8/1/10 7:00	76.64	76.59	-0.054
8/1/10 8:00	76.60	76.56	-0.036
8/1/10 9:00	76.46	76.46	0

8/1/10 10:00	76.47	76.51	0.036
8/1/10 11:00	76.66	76.73	0.072
8/1/10 12:00	76.93	77.05	0.126
8/1/10 13:00	77.62	77.77	0.144
8/1/10 14:00	78.22	78.37	0.144
8/1/10 15:00	78.63	78.79	0.162
8/1/10 16:00	79.25	79.40	0.144
8/1/10 17:00	79.48	79.57	0.09
8/1/10 18:00	79.36	79.41	0.054
8/1/10 19:00	78.93	78.96	0.036
8/1/10 20:00	78.41	78.43	0.018
8/1/10 21:00	77.99	77.98	-0.018
8/1/10 22:00	77.44	77.44	0
8/1/10 23:00	76.94	76.92	-0.018
8/2/10 0:00	76.54	76.46	-0.072
8/2/10 1:00	76.26	76.21	-0.054
8/2/10 2:00	76.05	75.97	-0.072
8/2/10 3:00	75.76	75.67	-0.09
8/2/10 4:00	75.53	75.44	-0.09
8/2/10 5:00	75.32	75.23	-0.09
8/2/10 6:00	75.15	75.04	-0.108
8/2/10 7:00	74.89	74.80	-0.09
8/2/10 8:00	75.01	74.93	-0.072
8/2/10 9:00	75.25	75.21	-0.036
8/2/10 10:00	75.83	75.83	0
8/2/10 11:00	76.29	76.31	0.018
8/2/10 12:00	76.93	76.96	0.036
8/2/10 13:00	77.66	77.69	0.036
8/2/10 14:00	78.49	78.50	0.018
8/2/10 15:00	78.54	78.56	0.018
8/2/10 16:00	78.74	78.78	0.036
8/2/10 17:00	78.82	78.82	0
8/2/10 18:00	78.77	78.73	-0.036
8/2/10 19:00	78.49	78.44	-0.054
8/2/10 20:00	78.11	78.04	-0.072
8/2/10 21:00	77.65	77.56	-0.09
8/2/10 22:00	77.20	77.11	-0.09
8/2/10 23:00	76.66	76.57	-0.09
8/3/10 0:00	76.29	76.20	-0.09
8/3/10 1:00	76.01	75.92	-0.09
8/3/10 2:00	75.72	75.61	-0.108
8/3/10 3:00	75.57	75.48	-0.09
8/3/10 4:00	75.54	75.45	-0.09
8/3/10 5:00	75.50	75.39	-0.108
8/3/10 6:00	75.43	75.34	-0.09
8/3/10 7:00	75.36	75.29	-0.072
8/3/10 8:00	75.46	75.43	-0.036
8/3/10 9:00	75.84	75.84	0
8/3/10 10:00	76.16	76.22	0.054
8/3/10 11:00	76.33	76.41	0.072

8/3/10 12:00	76.78	76.91	0.126
8/3/10 13:00	77.28	77.39	0.108
8/3/10 14:00	77.56	77.65	0.09
8/3/10 15:00	78.02	78.13	0.108
8/3/10 16:00	78.47	78.51	0.036
8/3/10 17:00	78.67	78.68	0.018
8/3/10 18:00	78.62	78.62	0
8/3/10 19:00	78.53	78.53	0
8/3/10 20:00	78.33	78.31	-0.018
8/3/10 21:00	78.00	77.98	-0.018
8/3/10 22:00	77.57	77.53	-0.036
8/3/10 23:00	77.22	77.18	-0.036
8/4/10 0:00	76.87	76.81	-0.054
8/4/10 1:00	76.52	76.46	-0.054
8/4/10 2:00	76.25	76.18	-0.072
8/4/10 3:00	76.06	76.00	-0.054
8/4/10 4:00	75.89	75.82	-0.072
8/4/10 5:00	75.84	75.79	-0.054
8/4/10 6:00	75.77	75.70	-0.072
8/4/10 7:00	75.78	75.73	-0.054
8/4/10 8:00	75.99	75.96	-0.036
8/4/10 9:00	76.56	76.55	-0.018
8/4/10 10:00	77.20	77.24	0.036
8/4/10 11:00	77.96	78.03	0.072
8/4/10 12:00	79.06	79.13	0.072
8/4/10 13:00	80.02	80.09	0.072
8/4/10 14:00	81.61	81.65	0.036
8/4/10 15:00	82.99	82.99	0
8/4/10 16:00	84.03	84.03	0
8/4/10 17:00	84.38	84.38	0
8/4/10 18:00	84.55	84.55	0
8/4/10 19:00	84.48	84.45	-0.036
8/4/10 20:00	83.95	83.91	-0.036
8/4/10 21:00	83.31	83.27	-0.036
8/4/10 22:00	82.73	82.68	-0.054
8/4/10 23:00	82.00	81.94	-0.054
8/5/10 0:00	81.17	81.10	-0.072
8/5/10 1:00	80.50	80.44	-0.054
8/5/10 2:00	79.90	79.85	-0.054
8/5/10 3:00	79.39	79.34	-0.054
8/5/10 4:00	78.93	78.88	-0.054
8/5/10 5:00	78.44	78.39	-0.054
8/5/10 6:00	78.08	78.03	-0.054
8/5/10 7:00	77.95	77.91	-0.036
8/5/10 8:00	77.94	77.90	-0.036
8/5/10 9:00	77.99	77.99	0
8/5/10 10:00	78.24	78.24	0
8/5/10 11:00	78.88	78.88	0
8/5/10 12:00	79.30	79.34	0.036
8/5/10 13:00	79.96	79.99	0.036

8/5/10 14:00	81.12	81.16	0.036
8/5/10 15:00	81.83	81.88	0.054
8/5/10 16:00	82.49	82.51	0.018
8/5/10 17:00	83.10	83.10	0
8/5/10 18:00	83.43	83.39	-0.036
8/5/10 19:00	83.56	83.50	-0.054
8/5/10 20:00	83.30	83.25	-0.054
8/5/10 21:00	82.74	82.68	-0.054
8/5/10 22:00	82.09	82.01	-0.072
8/5/10 23:00	81.33	81.26	-0.072
8/6/10 0:00	80.55	80.46	-0.09
8/6/10 1:00	79.80	79.73	-0.072
8/6/10 2:00	79.17	79.08	-0.09
8/6/10 3:00	78.58	78.50	-0.072
8/6/10 4:00	77.99	77.90	-0.09
8/6/10 5:00	77.64	77.55	-0.09
8/6/10 6:00	77.40	77.31	-0.09
8/6/10 7:00	77.16	77.07	-0.09
8/6/10 8:00	77.18	77.13	-0.054
8/6/10 9:00	77.34	77.29	-0.054
8/6/10 10:00	77.71	77.67	-0.036
8/6/10 11:00	78.27	78.27	0
8/6/10 12:00	79.06	79.06	0
8/6/10 13:00	79.85	79.82	-0.036
8/6/10 14:00	80.64	80.59	-0.054
8/6/10 15:00	81.36	81.27	-0.09
8/6/10 16:00	81.93	81.86	-0.072
8/6/10 17:00	82.33	82.27	-0.054
8/6/10 18:00	82.41	82.36	-0.054
8/6/10 19:00	82.09	82.03	-0.054
8/6/10 20:00	81.63	81.55	-0.072
8/6/10 21:00	80.94	80.87	-0.072
8/6/10 22:00	80.13	80.06	-0.072
8/6/10 23:00	79.09	79.00	-0.09
8/7/10 0:00	78.02	77.91	-0.108
8/7/10 1:00	77.06	76.95	-0.108
8/7/10 2:00	76.14	76.03	-0.108
8/7/10 3:00	75.56	75.45	-0.108
8/7/10 4:00	75.22	75.10	-0.126
8/7/10 5:00	75.00	74.88	-0.126
8/7/10 6:00	74.78	74.65	-0.126
8/7/10 7:00	74.73	74.62	-0.108
8/7/10 8:00	74.75	74.67	-0.072
8/7/10 9:00	75.16	75.13	-0.036
8/7/10 10:00	75.84	75.86	0.018
8/7/10 11:00	76.93	76.99	0.054
8/7/10 12:00	78.24	78.35	0.108
8/7/10 13:00	79.45	79.52	0.072
8/7/10 14:00	80.83	80.90	0.072
8/7/10 15:00	82.04	82.13	0.09

8/7/10 16:00	83.03	83.07	0.036
8/7/10 17:00	83.77	83.74	-0.036
8/7/10 18:00	84.00	83.95	-0.054
8/7/10 19:00	83.89	83.84	-0.054
8/7/10 20:00	83.40	83.35	-0.054
8/7/10 21:00	82.64	82.57	-0.072
8/7/10 22:00	81.78	81.71	-0.072
8/7/10 23:00	80.77	80.70	-0.072
8/8/10 0:00	79.68	79.59	-0.09
8/8/10 1:00	78.73	78.64	-0.09
8/8/10 2:00	77.85	77.76	-0.09
8/8/10 3:00	77.03	76.94	-0.09
8/8/10 4:00	76.28	76.19	-0.09
8/8/10 5:00	75.79	75.69	-0.108
8/8/10 6:00	75.45	75.34	-0.108
8/8/10 7:00	75.25	75.16	-0.09
8/8/10 8:00	75.29	75.22	-0.072
8/8/10 9:00	75.73	75.71	-0.018
8/8/10 10:00	76.37	76.39	0.018
8/8/10 11:00	77.33	77.39	0.054
8/8/10 12:00	78.42	78.53	0.108
8/8/10 13:00	79.93	79.98	0.054
8/8/10 14:00	81.37	81.45	0.072
8/8/10 15:00	82.39	82.46	0.072
8/8/10 16:00	83.20	83.27	0.072
8/8/10 17:00	83.91	83.95	0.036
8/8/10 18:00	84.24	84.22	-0.018
8/8/10 19:00	84.11	84.08	-0.036
8/8/10 20:00	83.66	83.62	-0.036
8/8/10 21:00	82.78	82.74	-0.036
8/8/10 22:00	81.74	81.68	-0.054
8/8/10 23:00	80.70	80.65	-0.054
8/9/10 0:00	79.84	79.79	-0.054
8/9/10 1:00	79.06	79.01	-0.054
8/9/10 2:00	78.35	78.29	-0.054
8/9/10 3:00	77.69	77.62	-0.072
8/9/10 4:00	77.09	77.02	-0.072
8/9/10 5:00	76.58	76.49	-0.09
8/9/10 6:00	76.24	76.17	-0.072
8/9/10 7:00	76.06	75.98	-0.072
8/9/10 8:00	76.16	76.13	-0.036
8/9/10 9:00	76.63	76.63	0
8/9/10 10:00	77.37	77.41	0.036
8/9/10 11:00	78.29	78.36	0.072
8/9/10 12:00	79.27	79.33	0.054
8/9/10 13:00	80.56	80.61	0.054
8/9/10 14:00	82.43	82.49	0.054
8/9/10 15:00	83.45	83.48	0.036
8/9/10 16:00	84.47	84.47	0
8/9/10 17:00	85.31	85.31	0

8/9/10 18:00	85.65	85.61	-0.036
8/9/10 19:00	85.54	85.52	-0.018
8/9/10 20:00	85.22	85.19	-0.036
8/9/10 21:00	84.60	84.56	-0.036
8/9/10 22:00	83.63	83.59	-0.036
8/9/10 23:00	82.58	82.53	-0.054
8/10/10 0:00	81.65	81.61	-0.036
8/10/10 1:00	80.88	80.83	-0.054
8/10/10 2:00	80.25	80.20	-0.054
8/10/10 3:00	79.66	79.61	-0.054
8/10/10 4:00	79.21	79.15	-0.054
8/10/10 5:00	78.82	78.75	-0.072
8/10/10 6:00	78.47	78.40	-0.072
8/10/10 7:00	78.33	78.27	-0.054
8/10/10 8:00	78.37	78.34	-0.036
8/10/10 9:00	78.81	78.81	0
8/10/10 10:00	79.43	79.48	0.054
8/10/10 11:00	80.06	80.13	0.072
8/10/10 12:00	80.99	81.10	0.108
8/10/10 13:00	82.18	82.32	0.144
8/10/10 14:00	83.68	83.83	0.144
8/10/10 15:00	84.27	84.45	0.18
8/10/10 16:00	85.00	85.18	0.18
8/10/10 17:00	85.80	85.96	0.162
8/10/10 18:00	86.24	86.39	0.144
8/10/10 19:00	86.00	86.10	0.108
8/10/10 20:00	85.37	85.46	0.09
8/10/10 21:00	84.78	84.85	0.072
8/10/10 22:00	84.17	84.22	0.054
8/10/10 23:00	83.42	83.47	0.054
8/11/10 0:00	82.56	82.59	0.036
8/11/10 1:00	81.74	81.76	0.018
8/11/10 2:00	81.07	81.09	0.018
8/11/10 3:00	80.44	80.42	-0.018
8/11/10 4:00	79.88	79.82	-0.054
8/11/10 5:00	79.34	79.29	-0.054
8/11/10 6:00	78.96	78.90	-0.054
8/11/10 7:00	78.68	78.62	-0.054
8/11/10 8:00	78.66	78.62	-0.036
8/11/10 9:00	78.89	78.87	-0.018
8/11/10 10:00	79.59	79.61	0.018
8/11/10 11:00	80.48	80.50	0.018
8/11/10 12:00	81.35	81.38	0.036
8/11/10 13:00	82.59	82.65	0.054
8/11/10 14:00	83.86	83.90	0.036
8/11/10 15:00	84.88	84.93	0.054
8/11/10 16:00	85.63	85.69	0.054
8/11/10 17:00	86.33	86.32	-0.018
8/11/10 18:00	86.55	86.50	-0.054
8/11/10 19:00	86.48	86.43	-0.054

8/11/10 20:00	86.11	86.04	-0.072
8/11/10 21:00	85.37	85.28	-0.09
8/11/10 22:00	84.33	84.24	-0.09
8/11/10 23:00	83.32	83.23	-0.09
8/12/10 0:00	82.47	82.36	-0.108
8/12/10 1:00	81.74	81.63	-0.108
8/12/10 2:00	81.07	80.96	-0.108
8/12/10 3:00	80.47	80.34	-0.126
8/12/10 4:00	79.96	79.84	-0.126
8/12/10 5:00	79.46	79.35	-0.108
8/12/10 6:00	79.03	78.93	-0.108
8/12/10 7:00	78.80	78.71	-0.09
8/12/10 8:00	78.75	78.68	-0.072
8/12/10 9:00	78.78	78.72	-0.054
8/12/10 10:00	78.88	78.85	-0.036
8/12/10 11:00	78.85	78.86	0.018
8/12/10 12:00	78.96	79.03	0.072
8/12/10 13:00	78.99	79.07	0.072
8/12/10 14:00	78.96	79.05	0.09
8/12/10 15:00	78.80	78.89	0.09
8/12/10 16:00	78.71	78.83	0.126
8/12/10 17:00	78.40	78.50	0.108
8/12/10 18:00	78.11	78.18	0.072
8/12/10 19:00	77.68	77.74	0.054
8/12/10 20:00	77.34	77.36	0.018
8/12/10 21:00	77.10	77.10	0
8/12/10 23:00	76.51	76.46	-0.054
8/13/10 0:00	76.29	76.24	-0.054
8/13/10 1:00	76.10	76.01	-0.09
8/13/10 2:00	75.94	75.85	-0.09
8/13/10 3:00	76.03	75.94	-0.09
8/13/10 4:00	75.91	75.80	-0.108
8/13/10 5:00	75.91	75.78	-0.126
8/13/10 6:00	75.81	75.69	-0.126
8/13/10 7:00	75.69	75.56	-0.126
8/13/10 8:00	75.62	75.51	-0.108
8/13/10 9:00	75.75	75.68	-0.072
8/13/10 10:00	75.89	75.86	-0.036
8/13/10 11:00	76.36	76.34	-0.018
8/13/10 12:00	76.92	76.94	0.018
8/13/10 13:00	77.89	77.92	0.036
8/13/10 14:00	78.77	78.76	-0.018
8/13/10 15:00	79.19	79.19	0
8/13/10 16:00	79.43	79.43	0
8/13/10 17:00	79.97	79.95	-0.018
8/13/10 18:00	80.02	79.98	-0.036
8/13/10 19:00	79.78	79.74	-0.036
8/13/10 20:00	79.40	79.35	-0.054
8/13/10 21:00	78.92	78.85	-0.072

8/13/10 22:00	78.41	78.34	-0.072
8/13/10 23:00	77.84	77.75	-0.09
8/14/10 0:00	77.31	77.20	-0.108
8/14/10 1:00	76.77	76.66	-0.108
8/14/10 2:00	76.42	76.30	-0.126
8/14/10 3:00	76.19	76.08	-0.108
8/14/10 4:00	75.99	75.87	-0.126
8/14/10 5:00	75.86	75.73	-0.126
8/14/10 6:00	75.65	75.50	-0.144
8/14/10 7:00	75.58	75.45	-0.126
8/14/10 8:00	75.64	75.53	-0.108
8/14/10 9:00	75.75	75.66	-0.09
8/14/10 10:00	75.94	75.91	-0.036
8/14/10 11:00	76.31	76.29	-0.018
8/14/10 12:00	76.77	76.77	0
8/14/10 13:00	77.63	77.66	0.036
8/14/10 14:00	78.53	78.55	0.018
8/14/10 15:00	79.64	79.66	0.018
8/14/10 16:00	80.10	80.10	0
8/14/10 17:00	80.17	80.15	-0.018
8/14/10 18:00	80.20	80.18	-0.018
8/14/10 19:00	79.98	79.95	-0.036
8/14/10 20:00	79.56	79.52	-0.036
8/14/10 21:00	78.94	78.89	-0.054
8/14/10 22:00	78.35	78.27	-0.072
8/14/10 23:00	77.72	77.65	-0.072
8/15/10 0:00	77.11	77.02	-0.09
8/15/10 1:00	76.61	76.52	-0.09
8/15/10 2:00	76.28	76.19	-0.09
8/15/10 3:00	76.10	75.99	-0.108
8/15/10 4:00	75.94	75.83	-0.108
8/15/10 5:00	75.83	75.73	-0.108
8/15/10 6:00	75.73	75.64	-0.09
8/15/10 7:00	75.59	75.50	-0.09
8/15/10 8:00	75.50	75.41	-0.09
8/15/10 9:00	75.44	75.38	-0.054
8/15/10 10:00	75.28	75.28	0
8/15/10 11:00	75.08	75.14	0.054
8/15/10 12:00	75.13	75.22	0.09
8/15/10 13:00	74.93	75.05	0.126
8/15/10 14:00	74.89	75.05	0.162
8/15/10 15:00	74.90	75.03	0.126
8/15/10 16:00	74.87	75.03	0.162
8/15/10 17:00	74.81	74.98	0.162
8/15/10 18:00	74.76	74.89	0.126
8/15/10 19:00	74.66	74.76	0.108
8/15/10 20:00	74.70	74.79	0.09
8/15/10 21:00	74.68	74.75	0.072
8/15/10 22:00	74.78	74.85	0.072
8/15/10 23:00	74.59	74.63	0.036

8/16/10 0:00	74.54	74.58	0.036
8/16/10 1:00	74.53	74.55	0.018
8/16/10 2:00	74.42	74.44	0.018
8/16/10 3:00	74.42	74.42	0
8/16/10 4:00	74.30	74.30	0
8/16/10 5:00	74.30	74.30	0
8/16/10 6:00	74.28	74.26	-0.018
8/16/10 7:00	74.24	74.24	0
8/16/10 8:00	74.27	74.27	0
8/16/10 9:00	74.38	74.41	0.036
8/16/10 10:00	74.65	74.72	0.072
8/16/10 11:00	75.07	75.16	0.09
8/16/10 12:00	75.76	75.87	0.108
8/16/10 13:00	76.73	76.83	0.108
8/16/10 14:00	77.31	77.36	0.054
8/16/10 15:00	77.81	77.85	0.036
8/16/10 16:00	78.83	78.79	-0.036
8/16/10 17:00	79.23	79.19	-0.036
8/16/10 18:00	79.27	79.21	-0.054
8/16/10 19:00	79.58	79.52	-0.054
8/16/10 20:00	79.46	79.39	-0.072
8/16/10 21:00	78.96	78.89	-0.072
8/16/10 22:00	78.36	78.27	-0.09
8/16/10 23:00	77.64	77.54	-0.108
8/17/10 0:00	76.81	76.70	-0.108
8/17/10 1:00	75.88	75.76	-0.126
8/17/10 2:00	75.09	74.96	-0.126
8/17/10 3:00	74.47	74.34	-0.126
8/17/10 4:00	74.11	73.96	-0.144
8/17/10 5:00	73.99	73.83	-0.162
8/17/10 6:00	73.86	73.70	-0.162
8/17/10 7:00	73.76	73.59	-0.162
8/17/10 8:00	73.77	73.64	-0.126
8/17/10 9:00	74.04	73.95	-0.09
8/17/10 10:00	74.49	74.44	-0.054
8/17/10 11:00	75.27	75.25	-0.018
8/17/10 12:00	76.37	76.37	0
8/17/10 13:00	77.26	77.26	0
8/17/10 14:00	78.22	78.22	0
8/17/10 15:00	79.29	79.29	0
8/17/10 16:00	80.37	80.35	-0.018
8/17/10 17:00	80.96	80.89	-0.072
8/17/10 18:00	80.98	80.89	-0.09
8/17/10 19:00	80.70	80.61	-0.09
8/17/10 20:00	80.26	80.17	-0.09
8/17/10 21:00	79.67	79.56	-0.108
8/17/10 22:00	78.86	78.75	-0.108
8/17/10 23:00	77.95	77.84	-0.108
8/18/10 0:00	77.10	76.97	-0.126
8/18/10 1:00	76.37	76.24	-0.126

8/18/10 2:00	75.70	75.57	-0.126
8/18/10 3:00	75.02	74.89	-0.126
8/18/10 4:00	74.53	74.38	-0.144
8/18/10 5:00	74.26	74.12	-0.144
8/18/10 6:00	74.14	73.99	-0.144
8/18/10 7:00	73.92	73.77	-0.144
8/18/10 8:00	73.92	73.80	-0.126
8/18/10 9:00	74.12	74.05	-0.072
8/18/10 10:00	74.40	74.36	-0.036
8/18/10 11:00	75.10	75.11	0.018
8/18/10 12:00	75.96	76.03	0.072
8/18/10 13:00	76.60	76.69	0.09
8/18/10 14:00	76.98	77.10	0.126
8/18/10 15:00	77.50	77.62	0.126
8/18/10 16:00	77.85	77.97	0.126
8/18/10 17:00	78.07	78.18	0.108
8/18/10 18:00	78.22	78.31	0.09
8/18/10 19:00	78.13	78.21	0.072
8/18/10 20:00	77.75	77.80	0.054
8/18/10 21:00	77.07	77.09	0.018
8/18/10 22:00	76.42	76.42	0
8/18/10 23:00	75.79	75.75	-0.036
8/19/10 0:00	75.16	75.09	-0.072
8/19/10 1:00	74.61	74.53	-0.072
8/19/10 2:00	74.08	74.01	-0.072
8/19/10 3:00	73.69	73.58	-0.108
8/19/10 4:00	73.47	73.34	-0.126
8/19/10 5:00	73.18	73.08	-0.108
8/19/10 6:00	72.97	72.84	-0.126
8/19/10 7:00	72.86	72.73	-0.126
8/19/10 8:00	72.82	72.71	-0.108
8/19/10 9:00	72.96	72.91	-0.054
8/19/10 10:00	73.21	73.19	-0.018
8/19/10 11:00	73.98	74.02	0.036
8/19/10 12:00	75.34	75.42	0.072
8/19/10 13:00	76.66	76.71	0.054
8/19/10 14:00	77.99	78.08	0.09
8/19/10 15:00	79.36	79.36	0
8/19/10 16:00	80.54	80.52	-0.018
8/19/10 17:00	81.31	81.29	-0.018
8/19/10 18:00	81.63	81.59	-0.036
8/19/10 19:00	81.55	81.51	-0.036
8/19/10 20:00	81.12	81.09	-0.036
8/19/10 21:00	80.41	80.37	-0.036
8/19/10 22:00	79.49	79.43	-0.054
8/19/10 23:00	78.52	78.44	-0.072
8/20/10 0:00	77.63	77.55	-0.072
8/20/10 1:00	76.85	76.78	-0.072
8/20/10 2:00	76.04	75.95	-0.09
8/20/10 3:00	75.53	75.44	-0.09

8/20/10 4:00	75.21	75.10	-0.108
8/20/10 5:00	75.02	74.93	-0.09
8/20/10 6:00	74.87	74.76	-0.108
8/20/10 7:00	74.83	74.72	-0.108
8/20/10 8:00	74.82	74.75	-0.072
8/20/10 9:00	75.24	75.20	-0.036
8/20/10 10:00	75.70	75.70	0
8/20/10 11:00	76.56	76.60	0.036
8/20/10 12:00	77.60	77.62	0.018
8/20/10 13:00	78.78	78.76	-0.018
8/20/10 14:00	79.92	79.92	0
8/20/10 15:00	81.02	81.01	-0.018
8/20/10 16:00	82.07	82.05	-0.018
8/20/10 17:00	82.76	82.71	-0.054
8/20/10 18:00	82.95	82.88	-0.072
8/20/10 19:00	82.68	82.59	-0.09
8/20/10 20:00	82.04	81.95	-0.09
8/20/10 21:00	81.18	81.09	-0.09
8/20/10 22:00	80.20	80.10	-0.108
8/20/10 23:00	79.21	79.11	-0.108
8/21/10 0:00	78.10	77.98	-0.126
8/21/10 1:00	77.06	76.93	-0.126
8/21/10 2:00	76.08	75.93	-0.144
8/21/10 3:00	75.27	75.12	-0.144
8/21/10 4:00	74.76	74.62	-0.144
8/21/10 5:00	74.36	74.22	-0.144
8/21/10 6:00	74.03	73.89	-0.144
8/21/10 7:00	73.79	73.67	-0.126
8/21/10 8:00	73.66	73.55	-0.108
8/21/10 9:00	73.97	73.90	-0.072
8/21/10 10:00	74.48	74.48	0
8/21/10 11:00	75.07	75.10	0.036
8/21/10 12:00	75.86	75.95	0.09
8/21/10 13:00	76.81	76.94	0.126
8/21/10 14:00	77.81	77.93	0.126
8/21/10 15:00	78.68	78.85	0.162
8/21/10 16:00	79.30	79.41	0.108
8/21/10 17:00	79.66	79.76	0.108
8/21/10 18:00	79.77	79.88	0.108
8/21/10 19:00	79.62	79.71	0.09
8/21/10 20:00	79.27	79.33	0.054
8/21/10 21:00	78.84	78.87	0.036
8/21/10 22:00	78.38	78.41	0.036
8/21/10 23:00	77.89	77.89	0
8/22/10 0:00	77.36	77.34	-0.018
8/22/10 1:00	76.82	76.78	-0.036
8/22/10 2:00	76.24	76.20	-0.036
8/22/10 3:00	75.78	75.72	-0.054
8/22/10 4:00	75.48	75.44	-0.036
8/22/10 5:00	75.26	75.20	-0.054

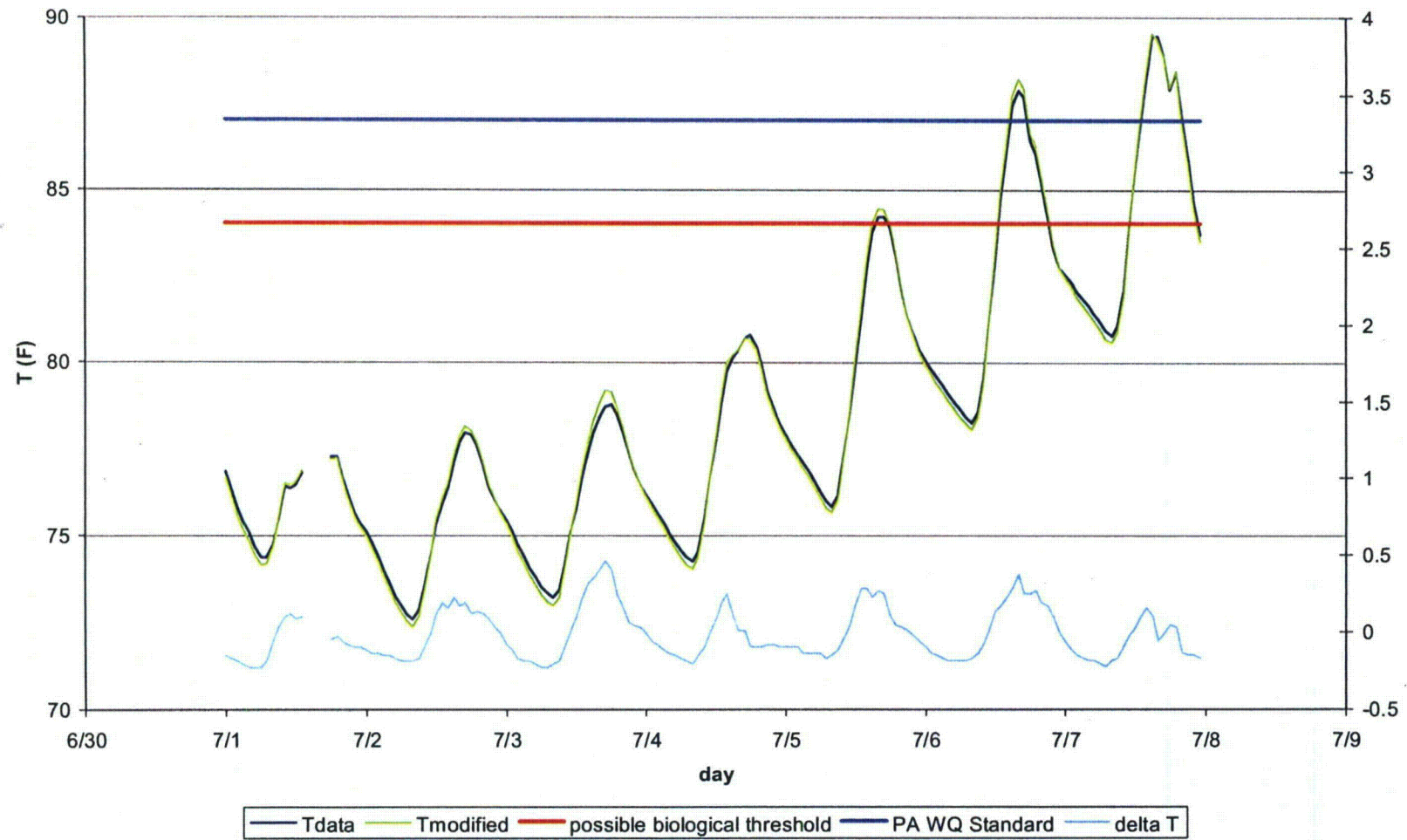
8/22/10 6:00	75.20	75.14	-0.054
8/22/10 7:00	74.87	74.84	-0.036
8/22/10 8:00	74.68	74.66	-0.018
8/22/10 9:00	74.55	74.55	0
8/22/10 10:00	74.53	74.56	0.036
8/22/10 11:00	74.69	74.76	0.072
8/22/10 12:00	74.95	75.06	0.108
8/22/10 13:00	75.05	75.18	0.126
8/22/10 14:00	75.15	75.29	0.144
8/22/10 15:00	75.49	75.51	0.018
8/22/10 16:00	75.98	75.98	0
8/22/10 17:00	76.33	76.30	-0.036
8/22/10 18:00	76.46	76.40	-0.054
8/22/10 19:00	76.26	76.13	-0.126
8/22/10 20:00	76.03	75.92	-0.108
8/22/10 21:00	75.48	75.37	-0.108
8/22/10 22:00	74.63	74.52	-0.108
8/22/10 23:00	73.51	73.42	-0.09
8/23/10 0:00	72.55	72.44	-0.108
8/23/10 1:00	72.16	72.05	-0.108
8/23/10 2:00	71.99	71.88	-0.108
8/23/10 3:00	72.07	71.96	-0.108
8/23/10 4:00	71.98	71.87	-0.108
8/23/10 5:00	71.87	71.76	-0.108
8/23/10 6:00	71.71	71.59	-0.126
8/23/10 7:00	71.76	71.65	-0.108
8/23/10 8:00	71.57	71.48	-0.09
8/23/10 9:00	71.73	71.68	-0.054
8/23/10 10:00	72.03	72.03	0
8/23/10 11:00	72.24	72.28	0.036
8/23/10 12:00	72.54	72.61	0.072
8/23/10 13:00	72.94	73.01	0.072
8/23/10 14:00	73.72	73.82	0.108
8/23/10 15:00	73.75	73.84	0.09
8/23/10 16:00	73.77	73.84	0.072
8/23/10 17:00	74.09	74.09	0
8/23/10 18:00	73.64	73.63	-0.018
8/23/10 19:00	72.99	72.94	-0.054
8/23/10 20:00	72.57	72.50	-0.072
8/23/10 21:00	71.99	71.90	-0.09
8/23/10 22:00	71.54	71.43	-0.108
8/23/10 23:00	71.14	71.03	-0.108
8/24/10 0:00	71.06	70.95	-0.108
8/24/10 1:00	70.88	70.76	-0.126
8/24/10 2:00	70.74	70.61	-0.126
8/24/10 3:00	70.42	70.30	-0.126
8/24/10 4:00	70.29	70.14	-0.144
8/24/10 5:00	70.23	70.09	-0.144
8/24/10 6:00	70.04	69.89	-0.144
8/24/10 7:00	70.04	69.91	-0.126

8/24/10 8:00	70.18	70.07	-0.108
8/24/10 9:00	70.17	70.10	-0.072
8/24/10 10:00	70.40	70.36	-0.036
8/24/10 11:00	70.39	70.41	0.018
8/24/10 12:00	70.95	70.98	0.036
8/24/10 13:00	71.31	71.38	0.072
8/24/10 14:00	71.61	71.68	0.072
8/24/10 15:00	72.11	72.18	0.072
8/24/10 16:00	72.18	72.23	0.054
8/24/10 17:00	72.14	72.18	0.036
8/24/10 18:00	72.05	72.08	0.036
8/24/10 19:00	71.83	71.85	0.018
8/24/10 20:00	71.54	71.54	0
8/24/10 21:00	71.22	71.20	-0.018
8/24/10 22:00	70.89	70.85	-0.036
8/24/10 23:00	70.60	70.57	-0.036
8/25/10 0:00	70.61	70.58	-0.036
8/25/10 1:00	70.46	70.42	-0.036
8/25/10 2:00	70.34	70.29	-0.054
8/25/10 3:00	70.34	70.29	-0.054
8/25/10 4:00	70.37	70.30	-0.072
8/25/10 5:00	70.17	70.08	-0.09
8/25/10 6:00	70.08	69.99	-0.09
8/25/10 7:00	70.03	69.95	-0.072
8/25/10 8:00	70.01	69.96	-0.054
8/25/10 9:00	70.50	70.47	-0.036
8/25/10 10:00	70.80	70.80	0
8/25/10 11:00	70.87	70.91	0.036
8/25/10 12:00	71.09	71.15	0.054
8/25/10 13:00	71.55	71.62	0.072
8/25/10 14:00	71.71	71.78	0.072
8/25/10 15:00	71.68	71.75	0.072
8/25/10 16:00	71.68	71.75	0.072
8/25/10 17:00	71.61	71.67	0.054
8/25/10 18:00	71.53	71.56	0.036
8/25/10 19:00	71.24	71.26	0.018
8/25/10 20:00	70.74	70.74	0
8/25/10 21:00	70.36	70.38	0.018
8/25/10 22:00	70.20	70.20	0
8/25/10 23:00	70.07	70.05	-0.018
8/26/10 0:00	69.93	69.89	-0.036
8/26/10 1:00	69.85	69.81	-0.036
8/26/10 2:00	69.94	69.90	-0.036
8/26/10 3:00	70.06	69.98	-0.072
8/26/10 4:00	70.06	69.98	-0.072
8/26/10 5:00	70.07	70.00	-0.072
8/26/10 6:00	70.02	69.93	-0.09
8/26/10 7:00	70.01	69.92	-0.09
8/26/10 8:00	69.95	69.88	-0.072
8/26/10 9:00	69.99	69.94	-0.054

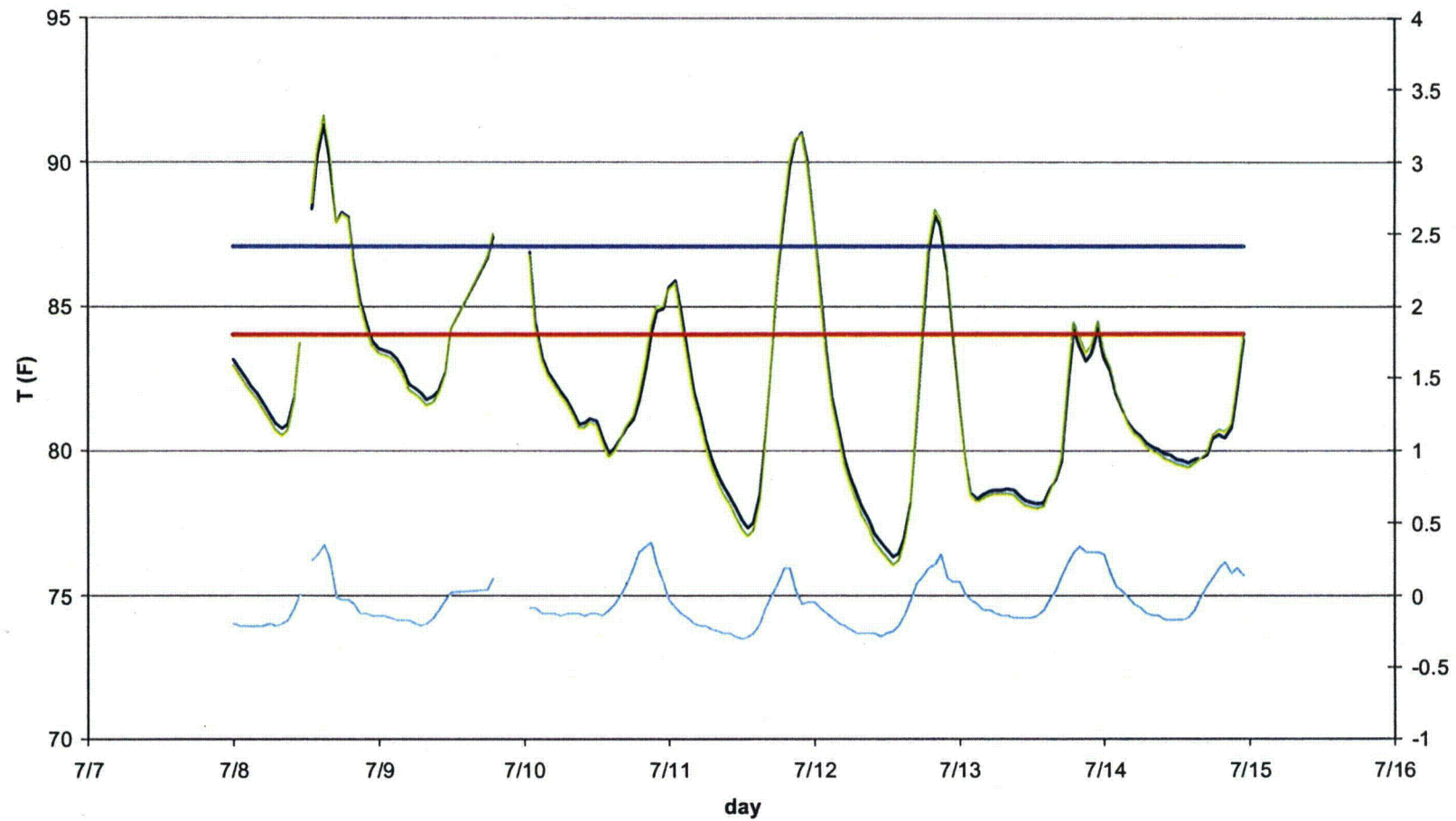
8/26/10 10:00	70.17	70.13	-0.036
8/26/10 11:00	70.52	70.52	0
8/26/10 12:00	71.02	71.06	0.036
8/26/10 13:00	71.52	71.56	0.036
8/26/10 14:00	71.87	71.89	0.018
8/26/10 15:00	72.28	72.26	-0.018
8/26/10 16:00	72.59	72.52	-0.072
8/26/10 17:00	72.74	72.67	-0.072
8/26/10 18:00	72.70	72.61	-0.09
8/26/10 19:00	72.45	72.36	-0.09
8/26/10 20:00	72.10	71.99	-0.108

APPENDIX 5-C. GRAPHICAL THERMAL RESPONSE

Sonde 1 Goose Island (shallow)

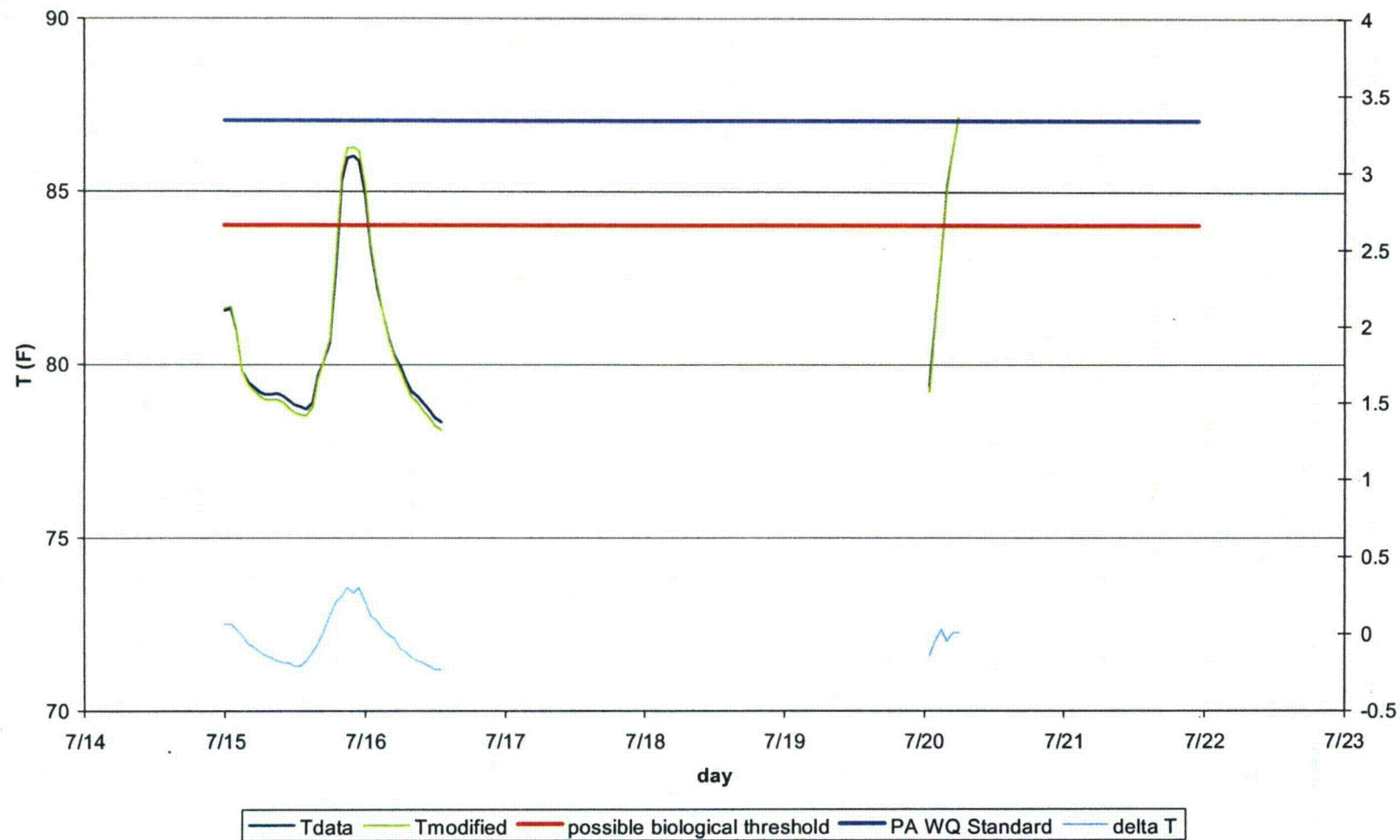


Sonde 1 Goose Island (shallow)

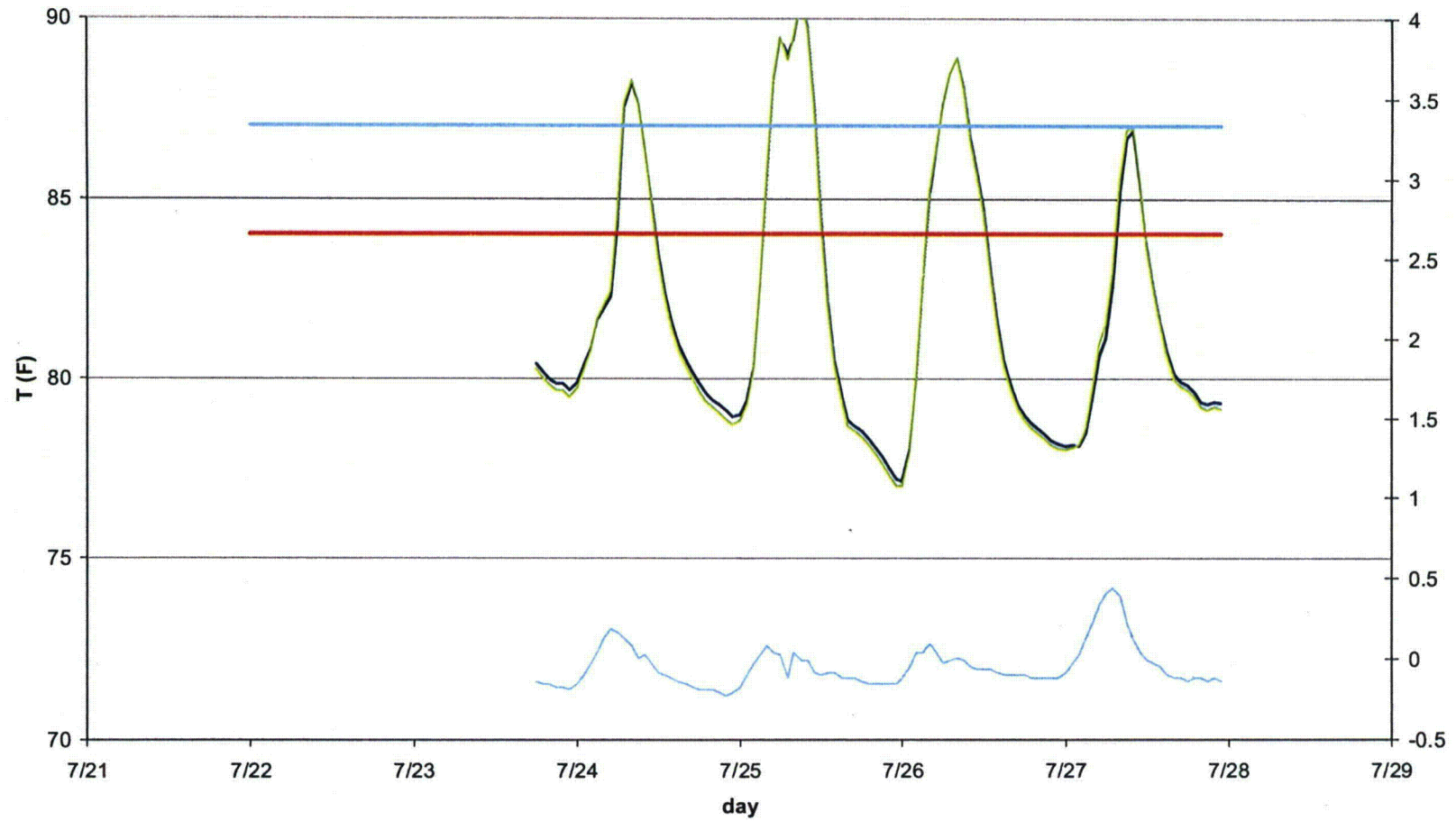


— Tdata — Tmodified — possible biological threshold — PA WQ Standard — delta T

Sonde 1 Goose Island (shallow)

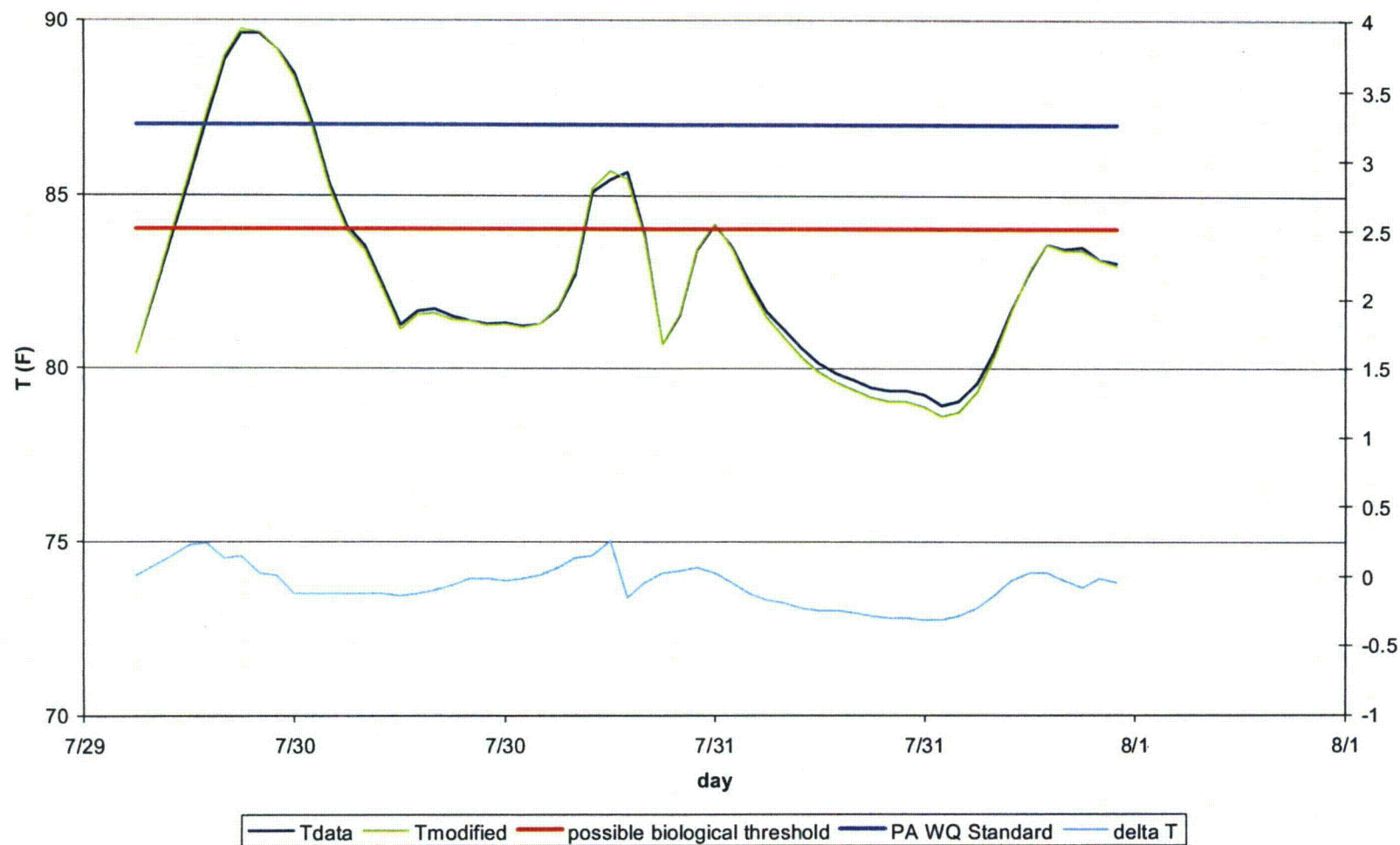


Sonde 1 Goose Island (shallow)

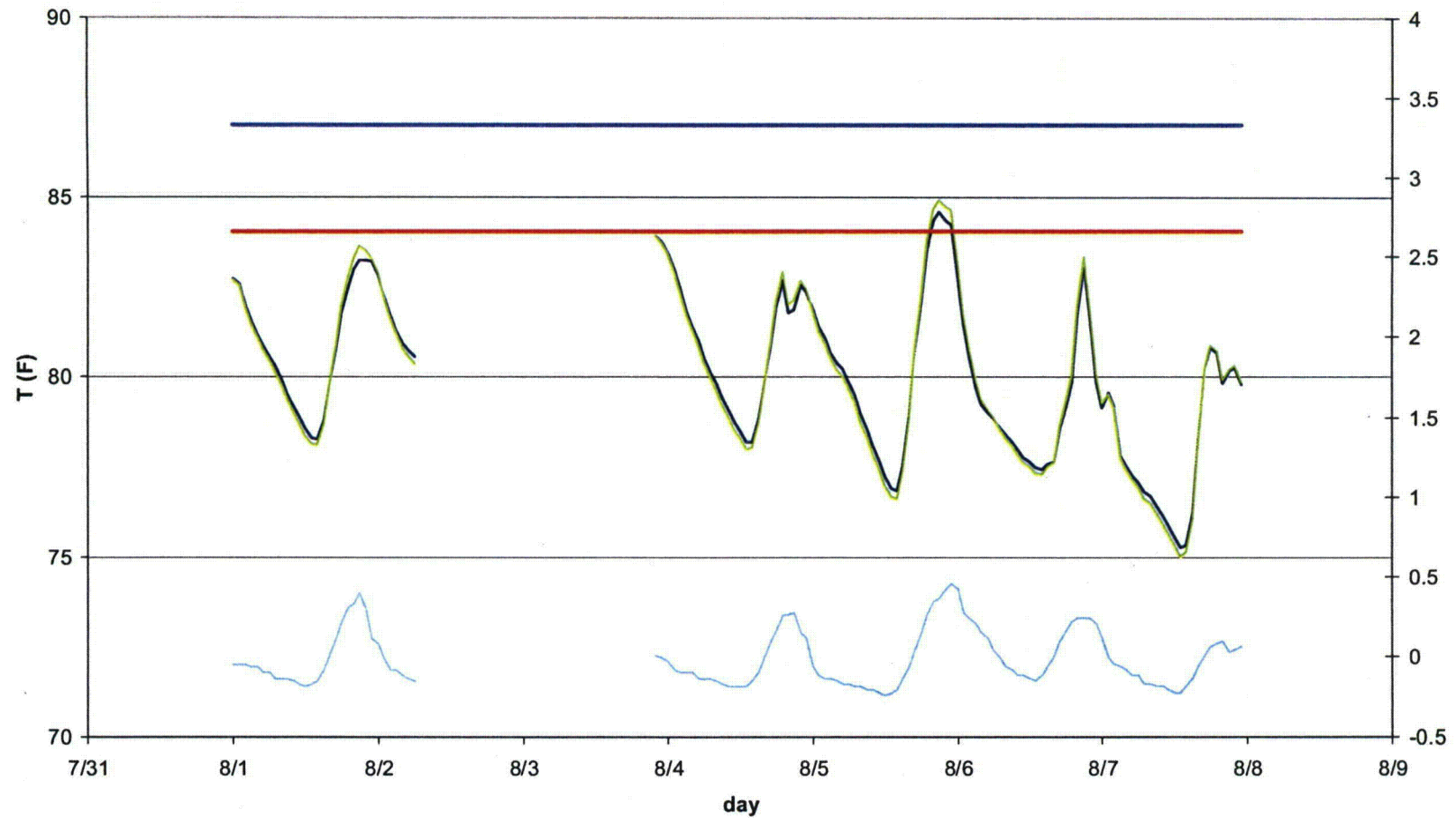


Tdata Tmodified possible biological threshold PA WQ Standard delta T

Sonde 1 Goose Island (shallow)

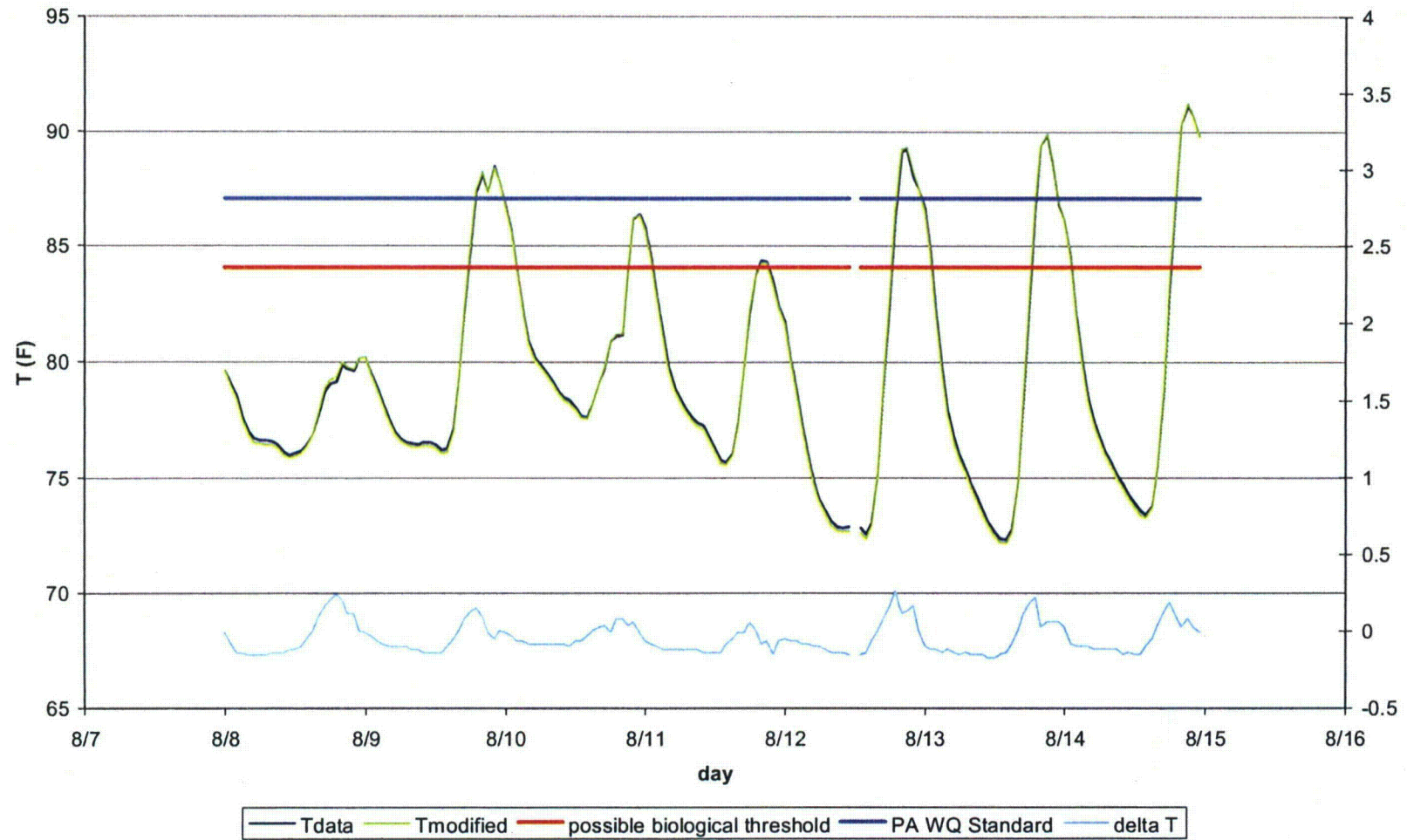


Sonde 1 Goose Island (shallow)

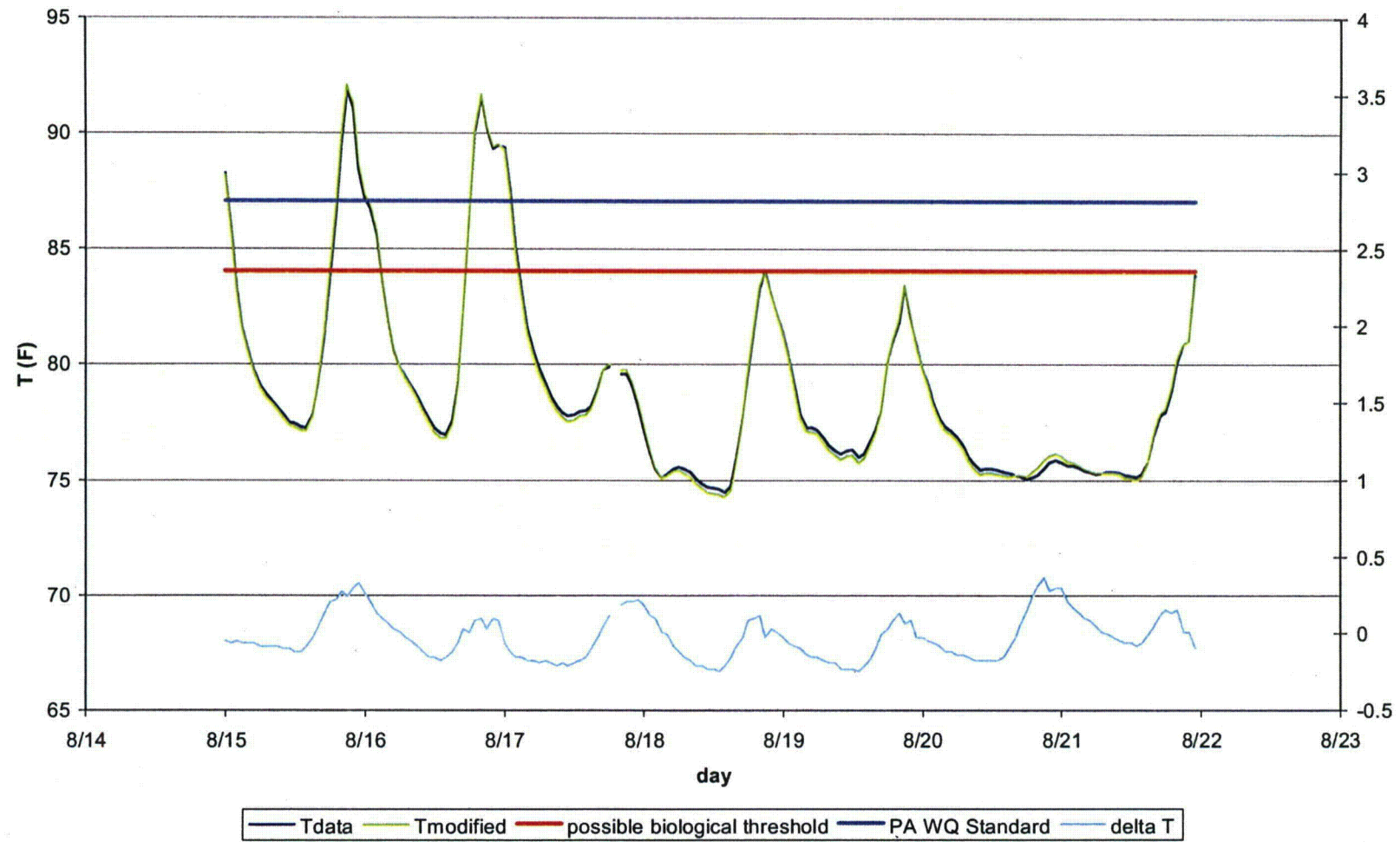


— Tdata — Tmodified — possible biological threshold — PA WQ Standard — delta T

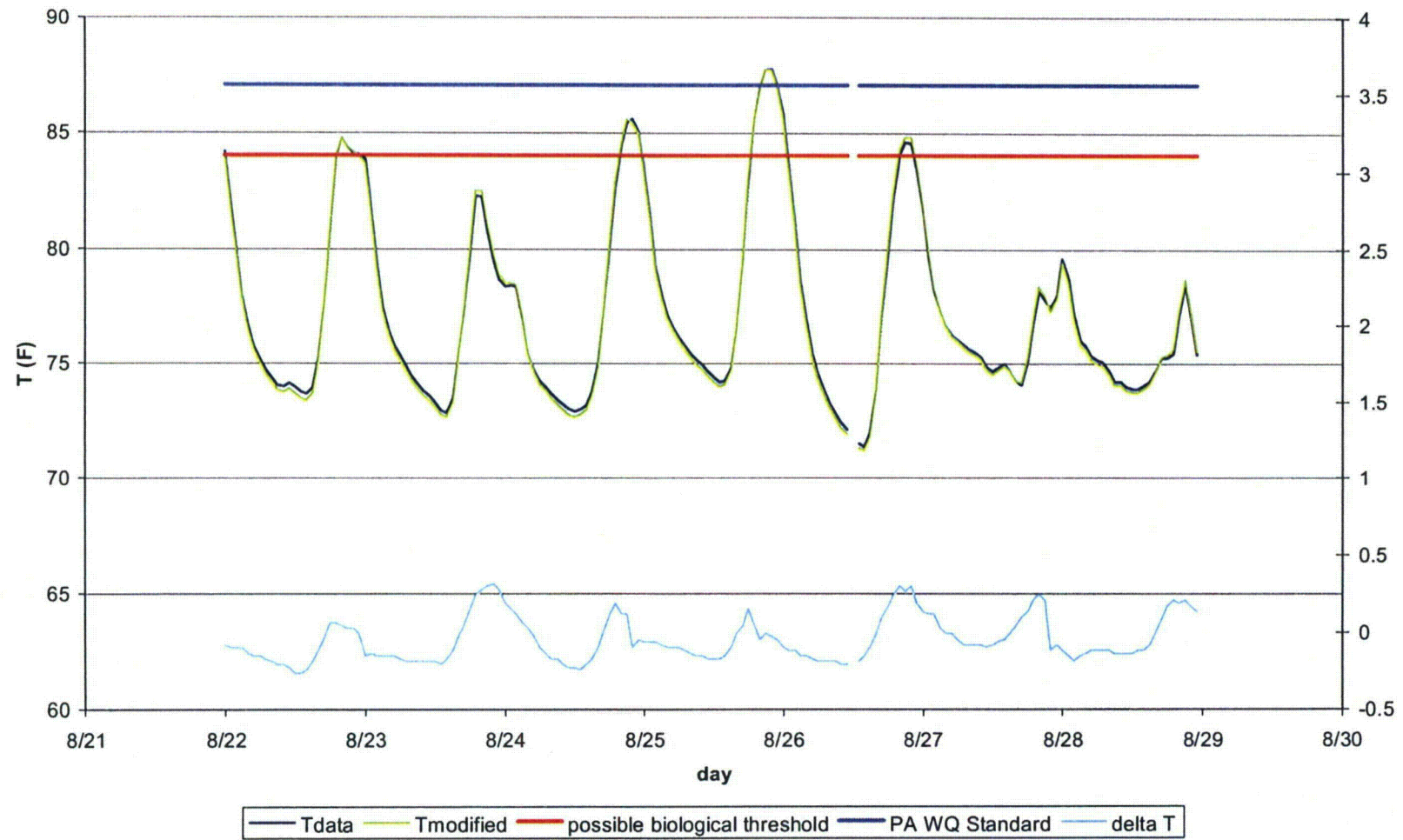
Sonde 1 Goose Island (shallow)



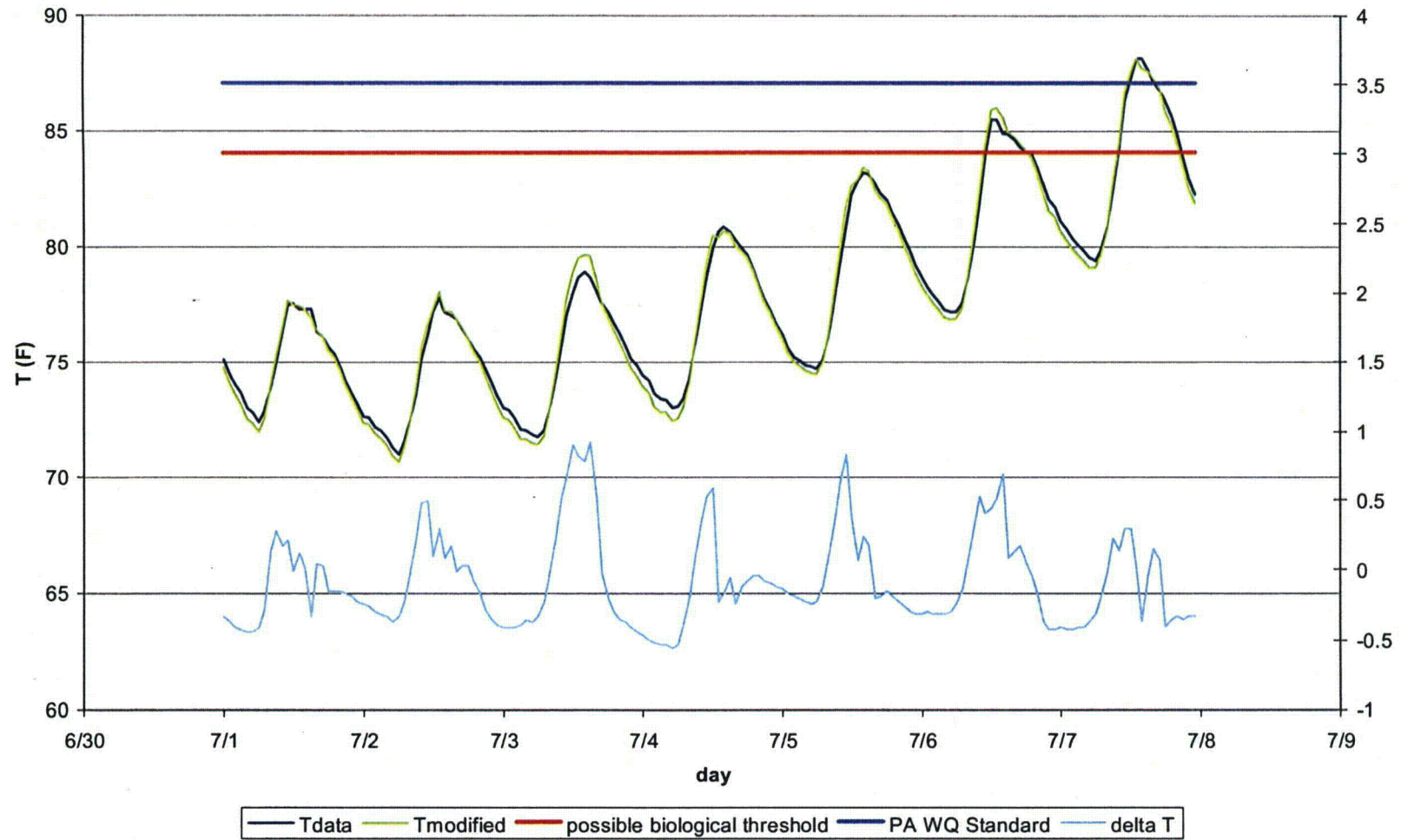
Sonde 1 Goose Island (shallow)



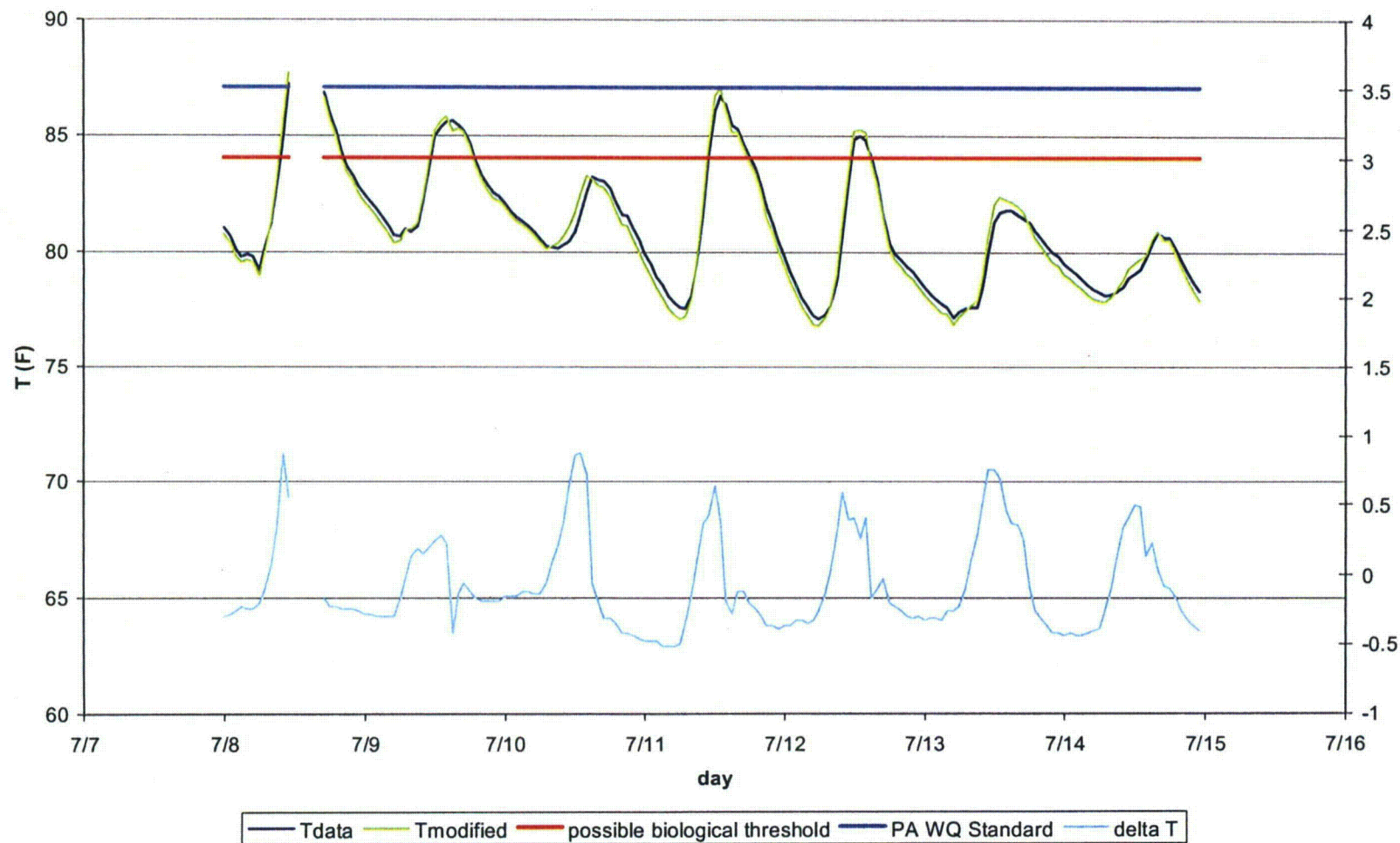
Sonde 1 Goose Island (shallow)



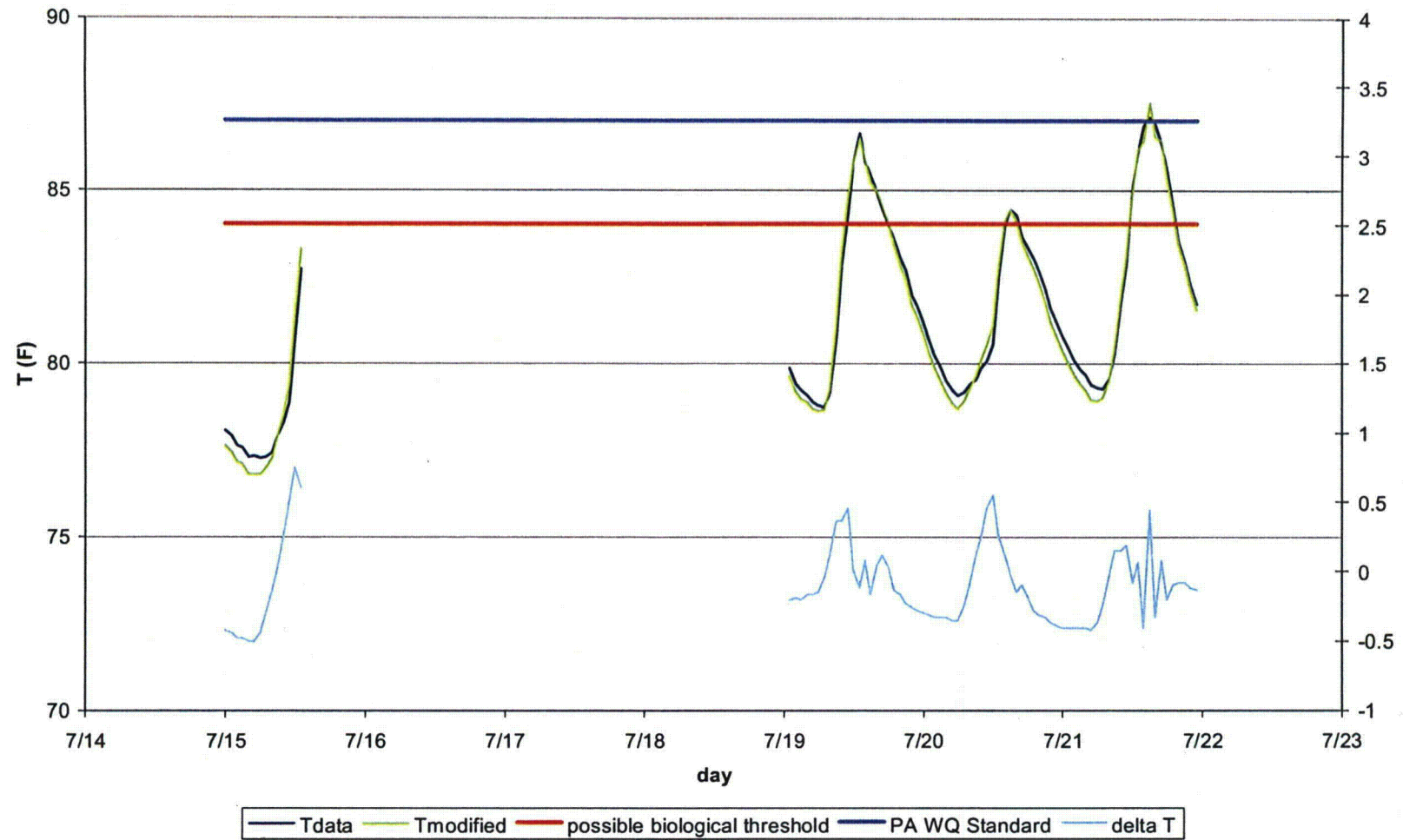
Sonde 3 Environmental lab (shallow)



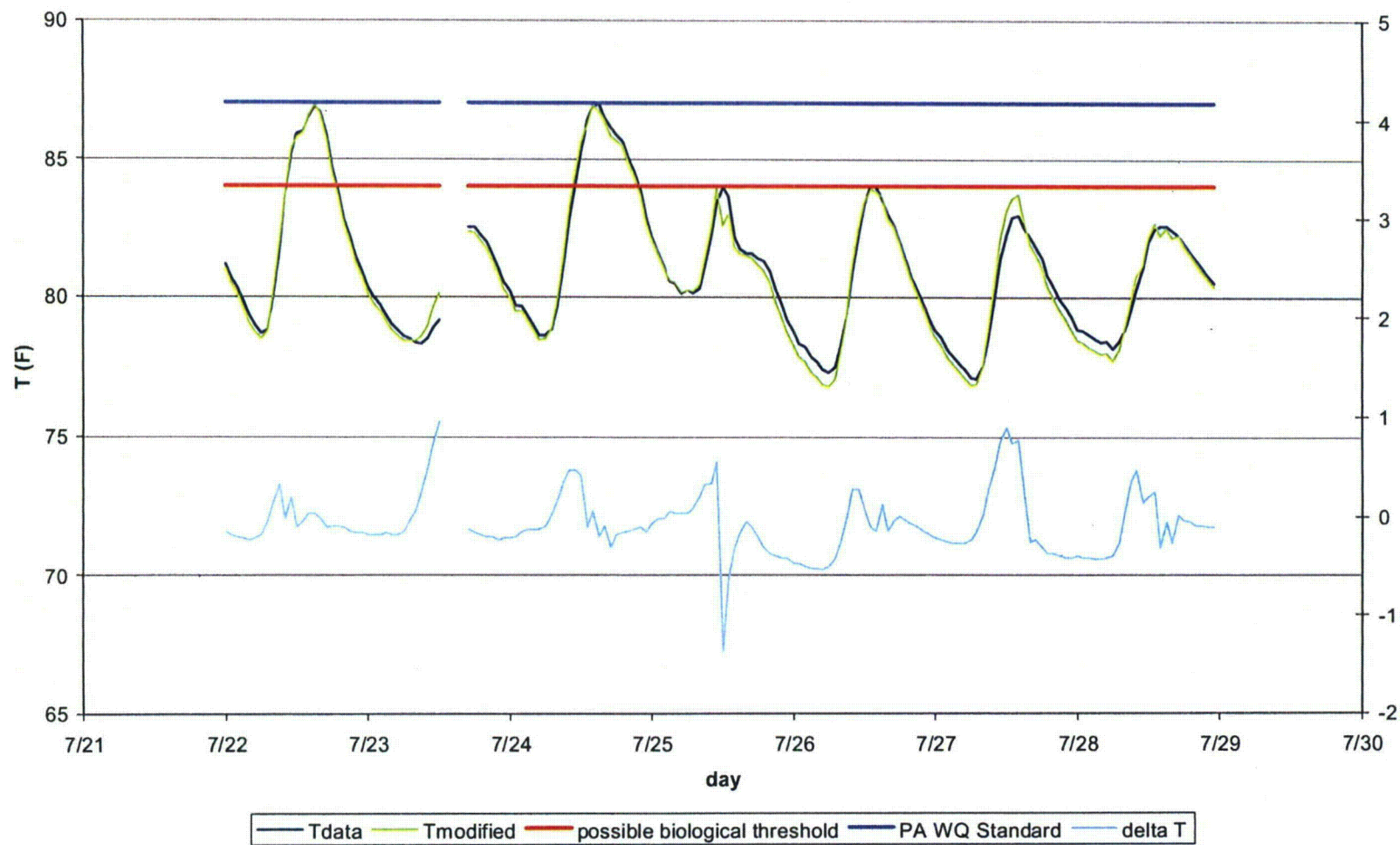
Sonde 3 Environmental lab (shallow)



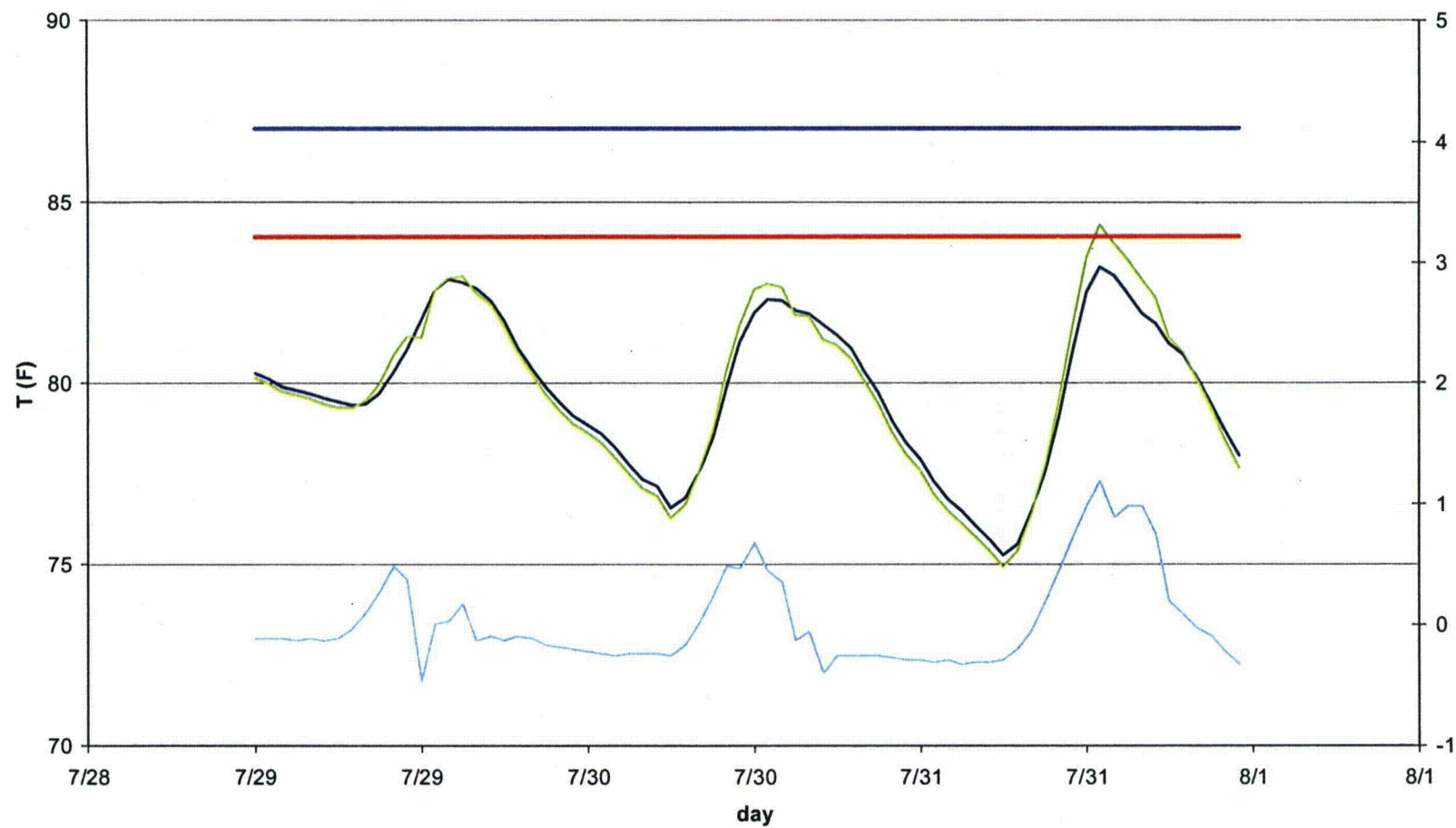
Sonde 3 Environmental lab (shallow)



Sonde 3 Environmental lab (shallow)

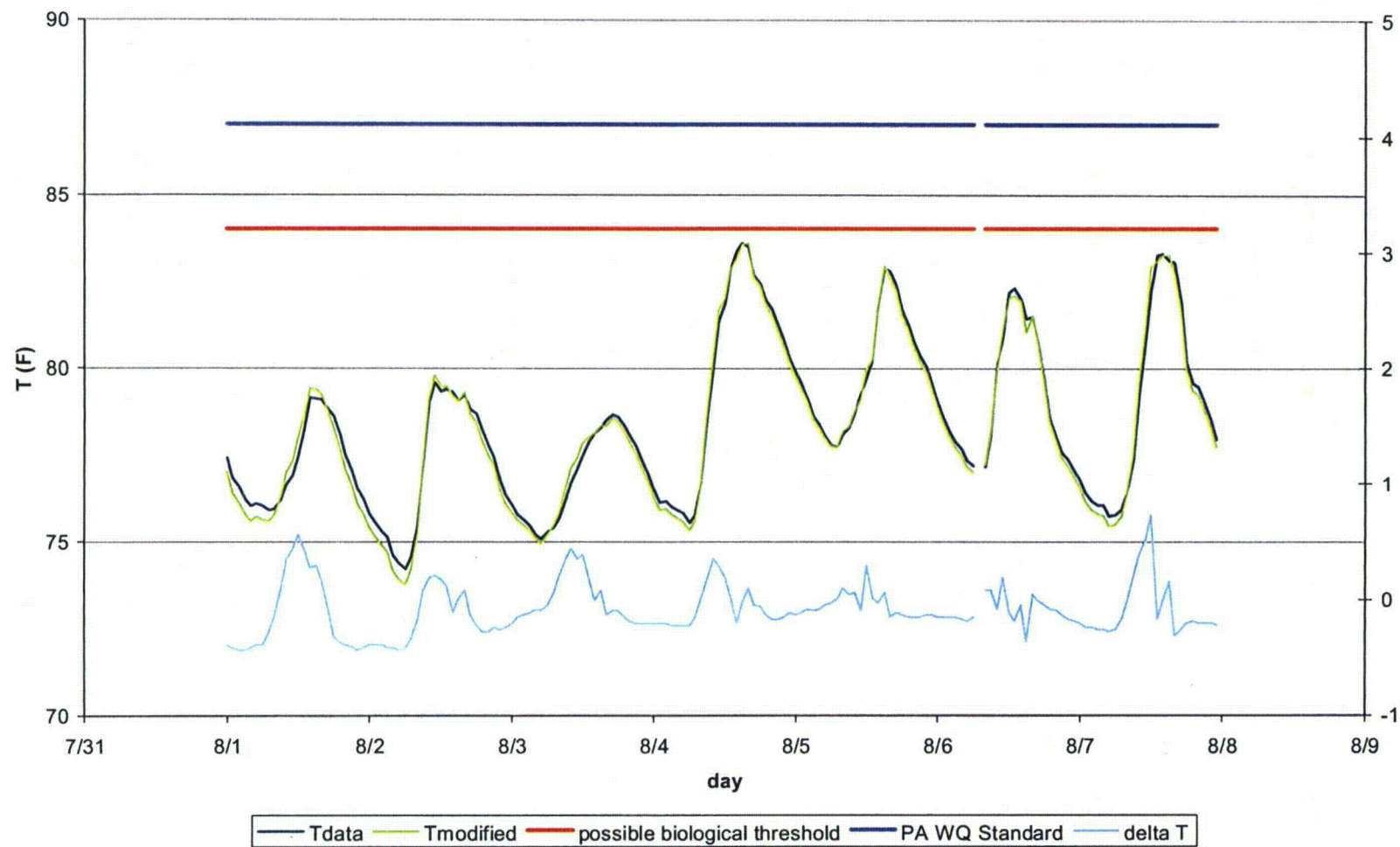


Sonde 3 Environmental lab (shallow)

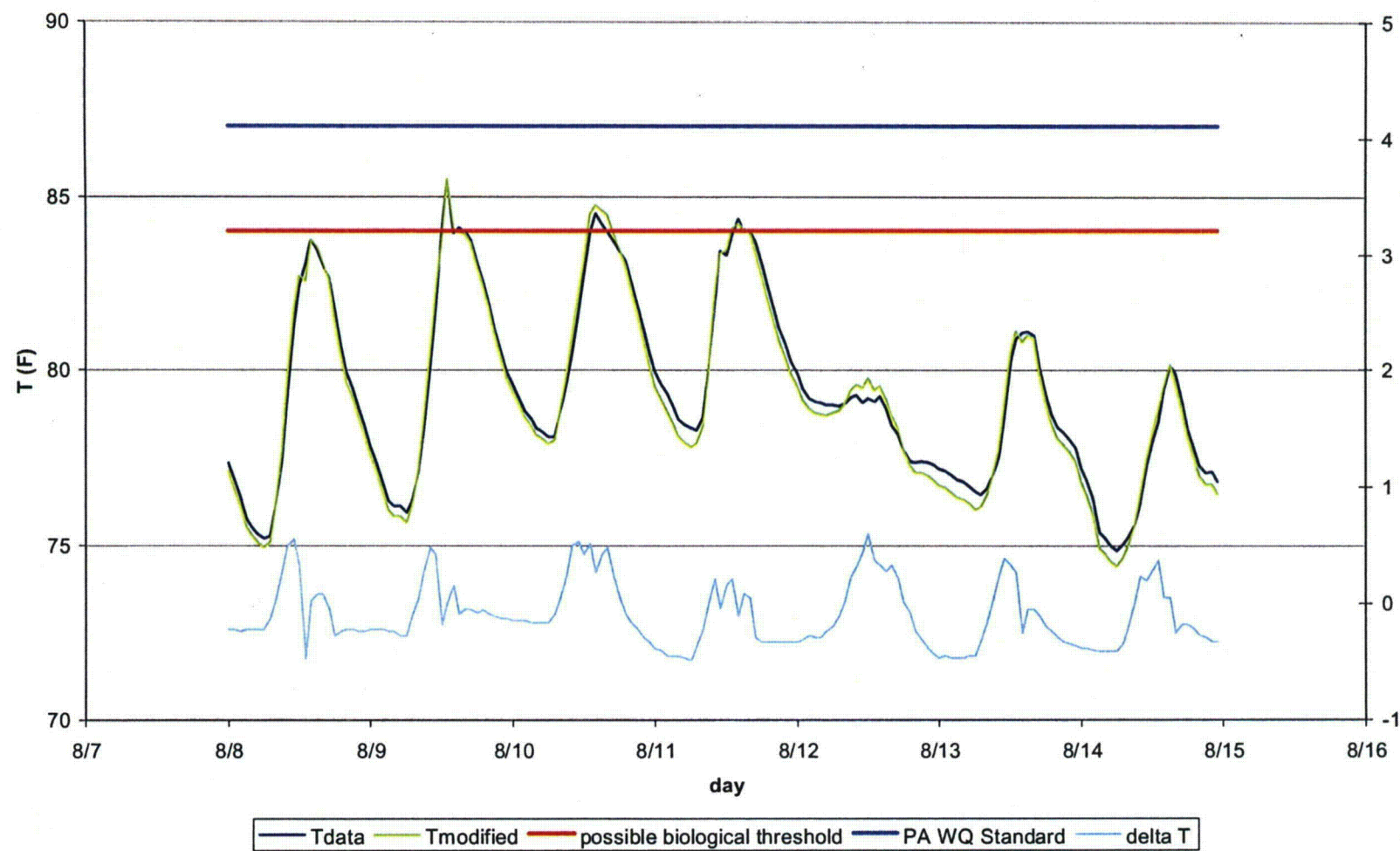


— Tdata — Tmodified — possible biological threshold — PA WQ Standard — delta T

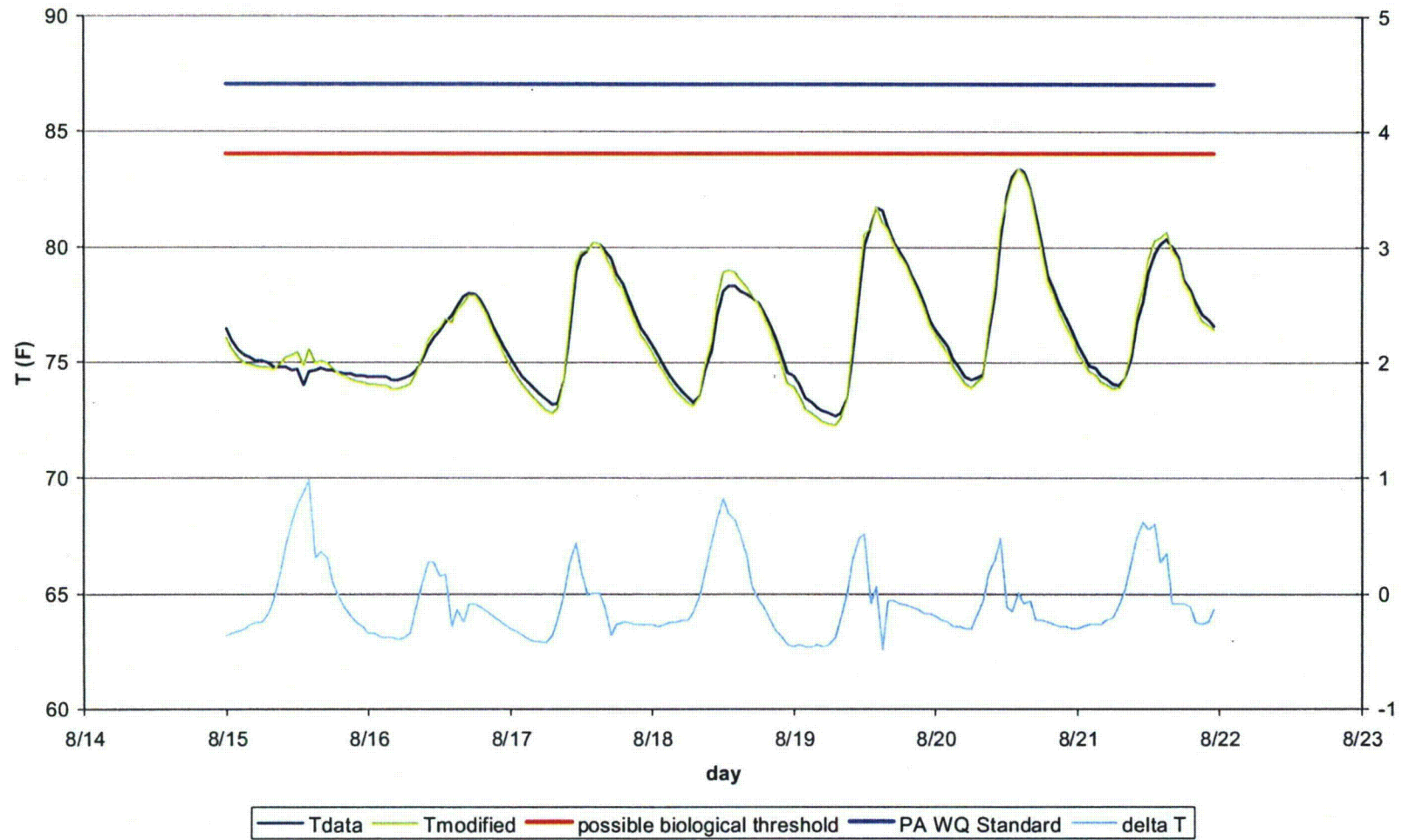
Sonde 3 Environmental lab (shallow)



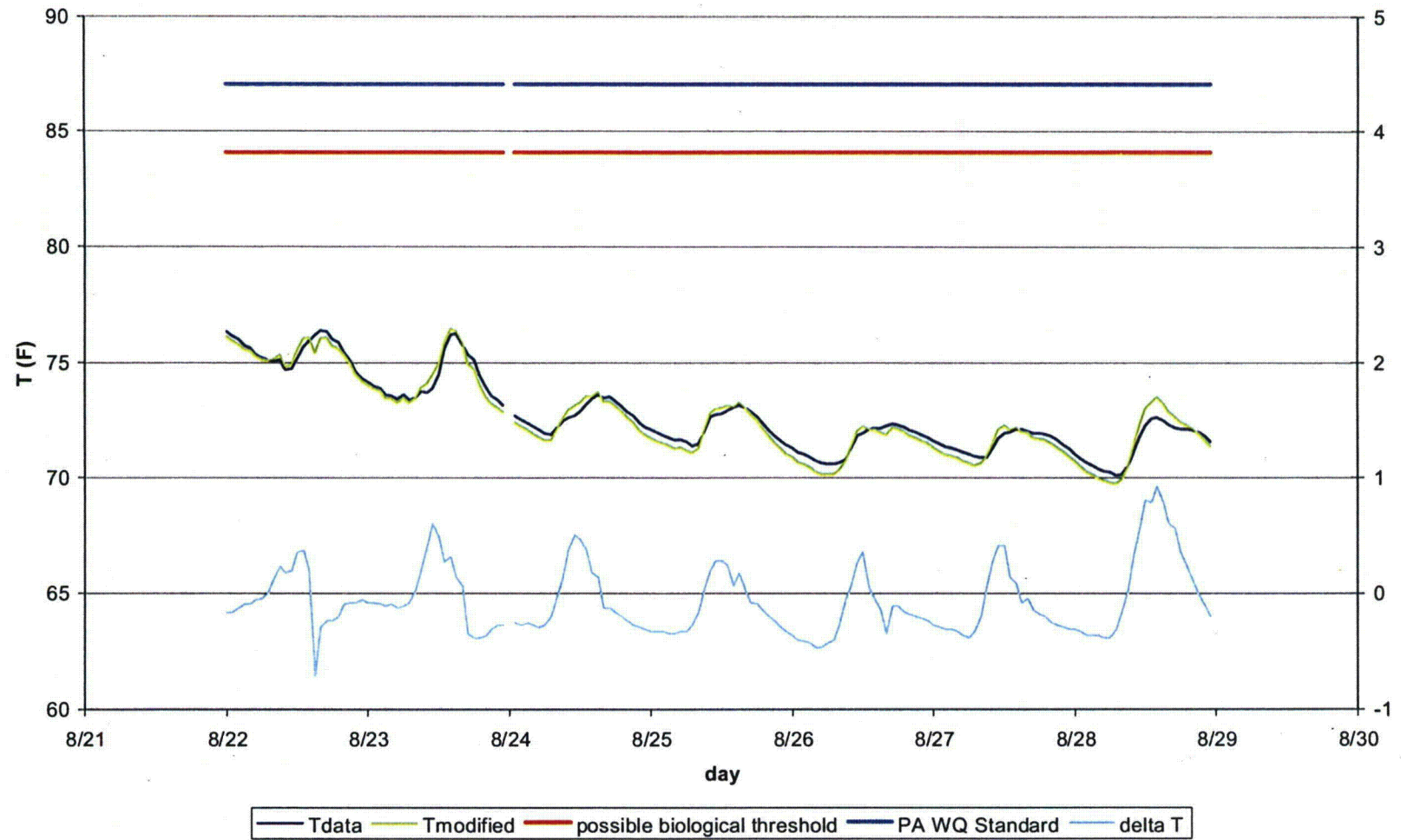
Sonde 3 Environmental lab (shallow)



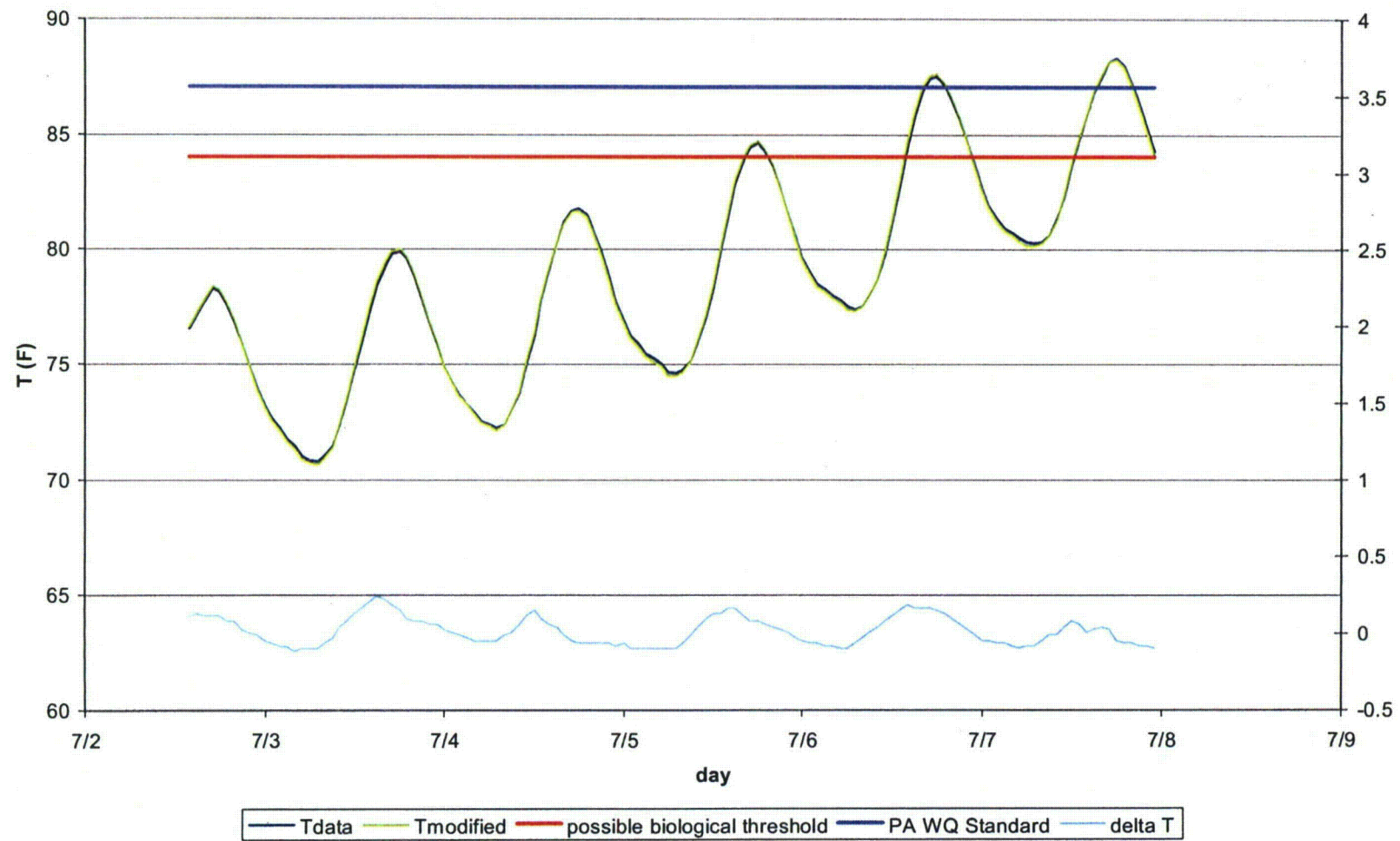
Sonde 3 Environmental lab (shallow)



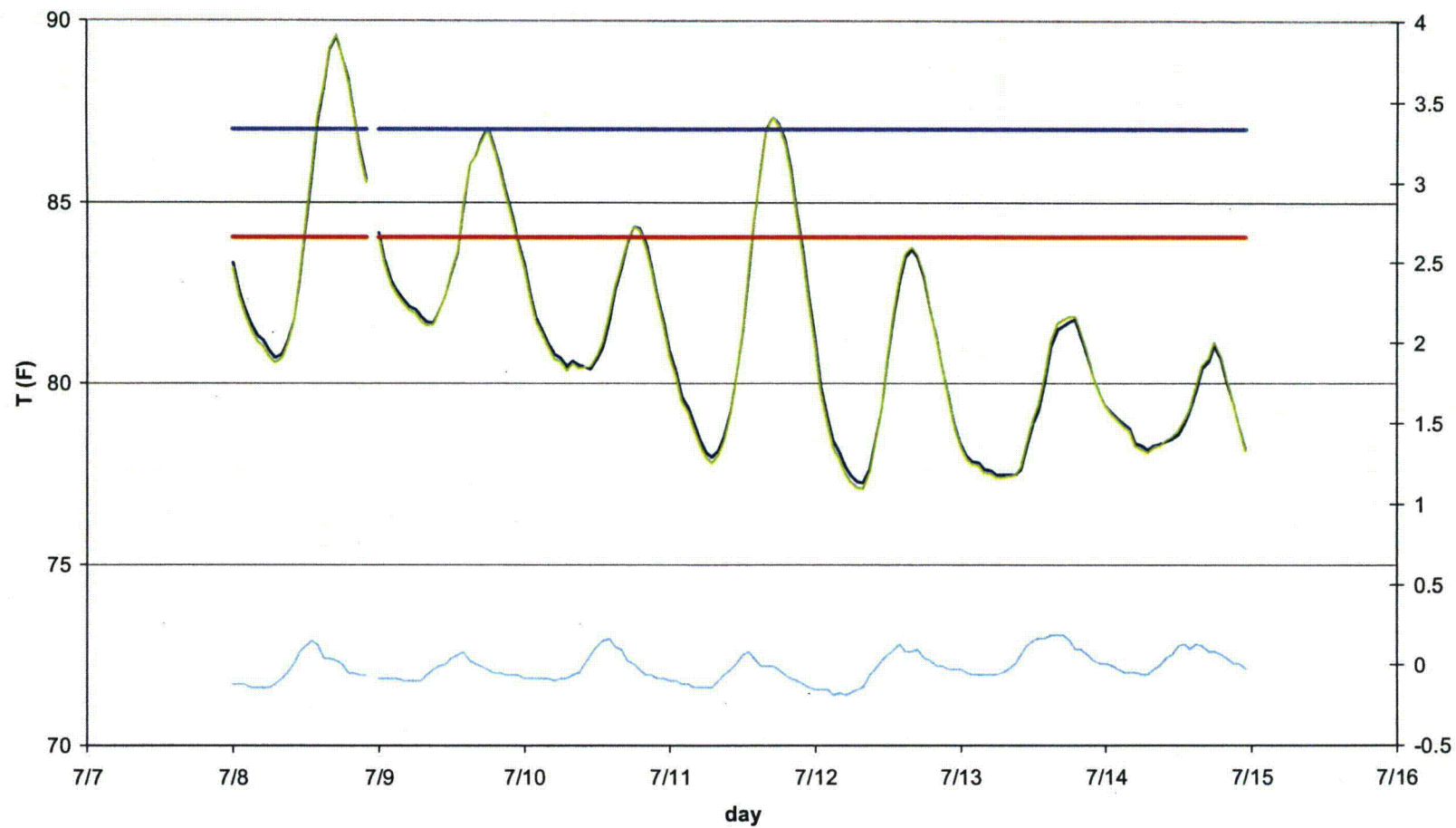
Sonde 3 Environmental lab (shallow)



Sonde 6 Test Track (shallow)

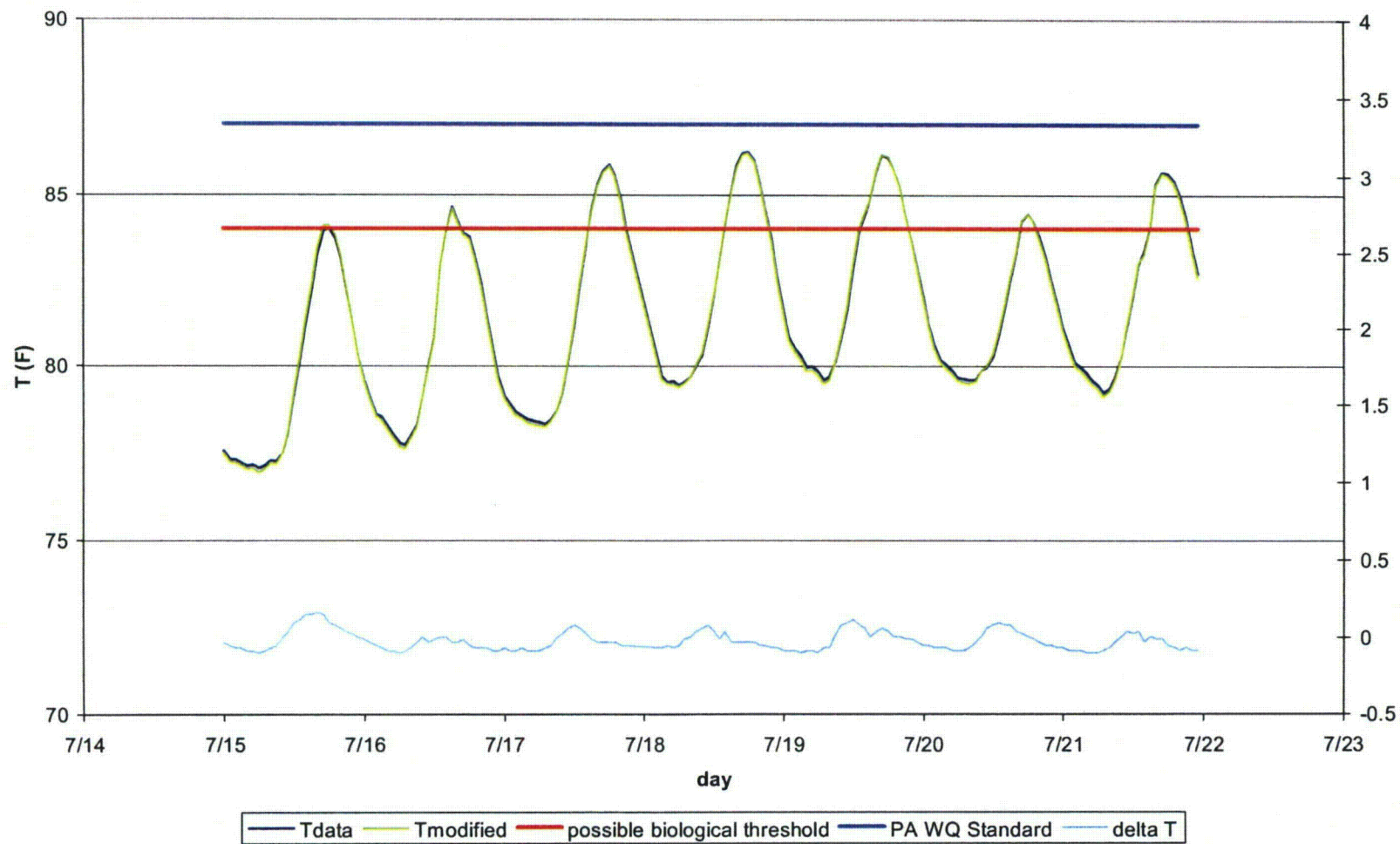


Sonde 6 Test Track (shallow)

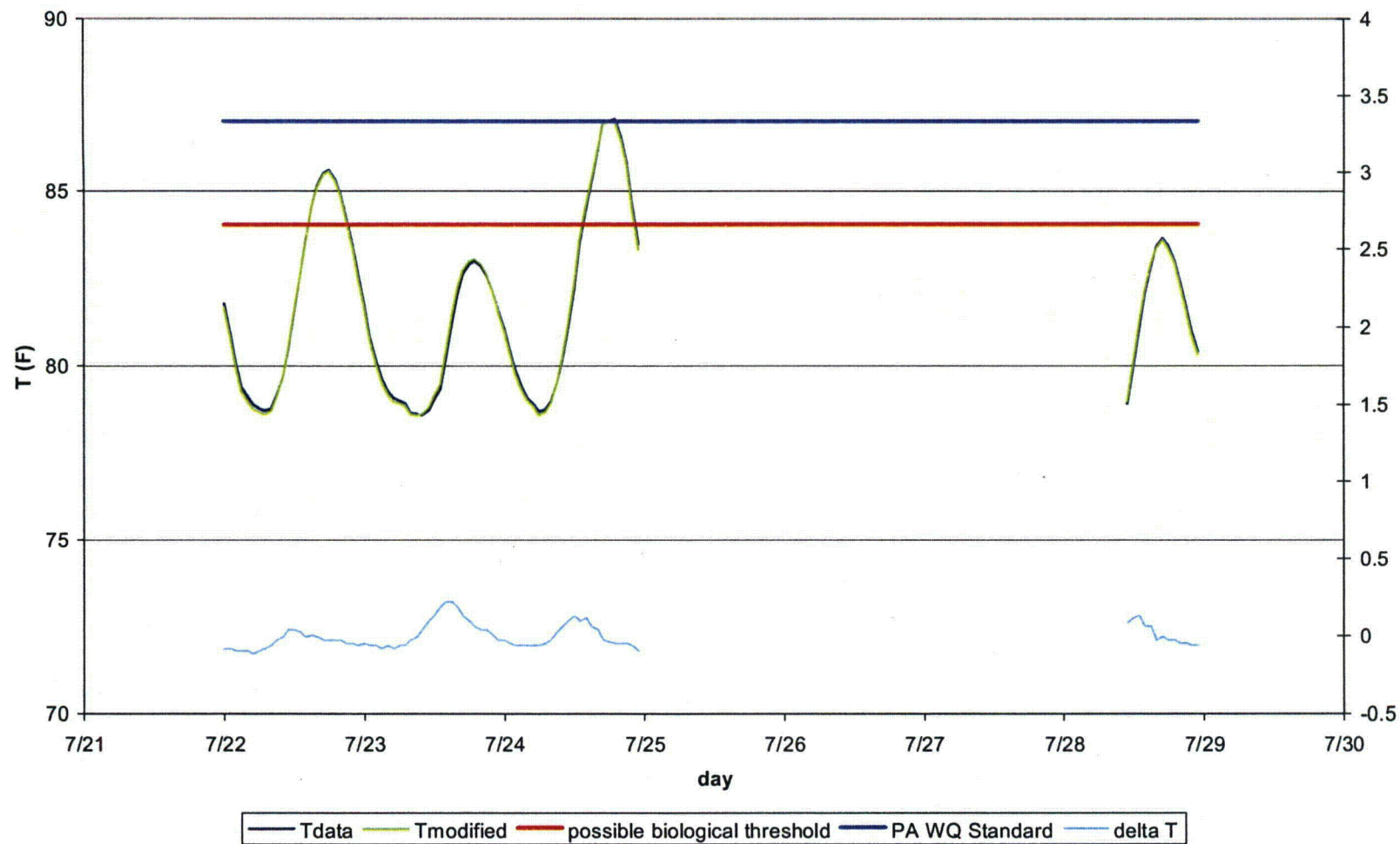


— Tdata — Tmodified — possible biological threshold — PA WQ Standard — delta T

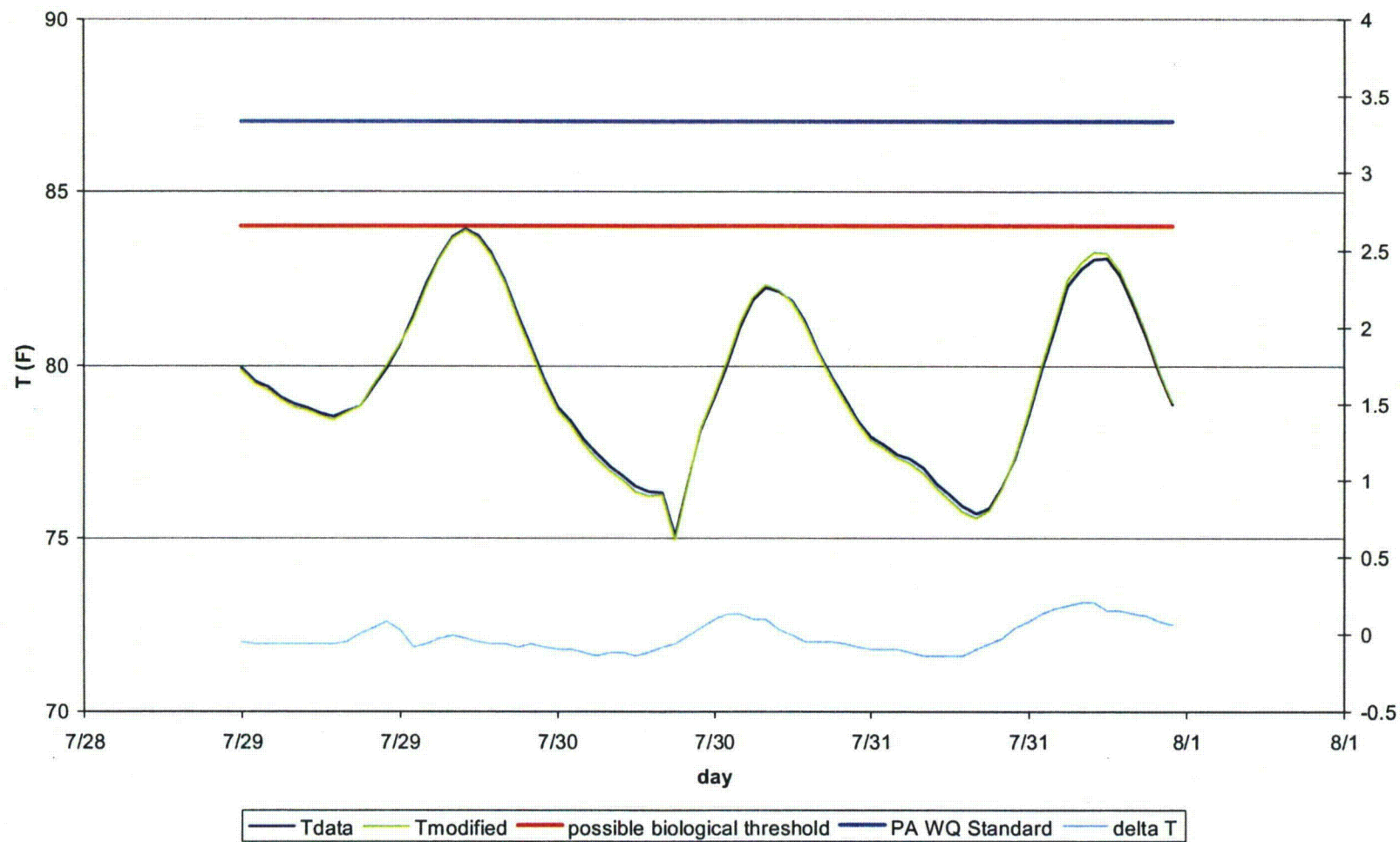
Sonde 6 Test Track (shallow)



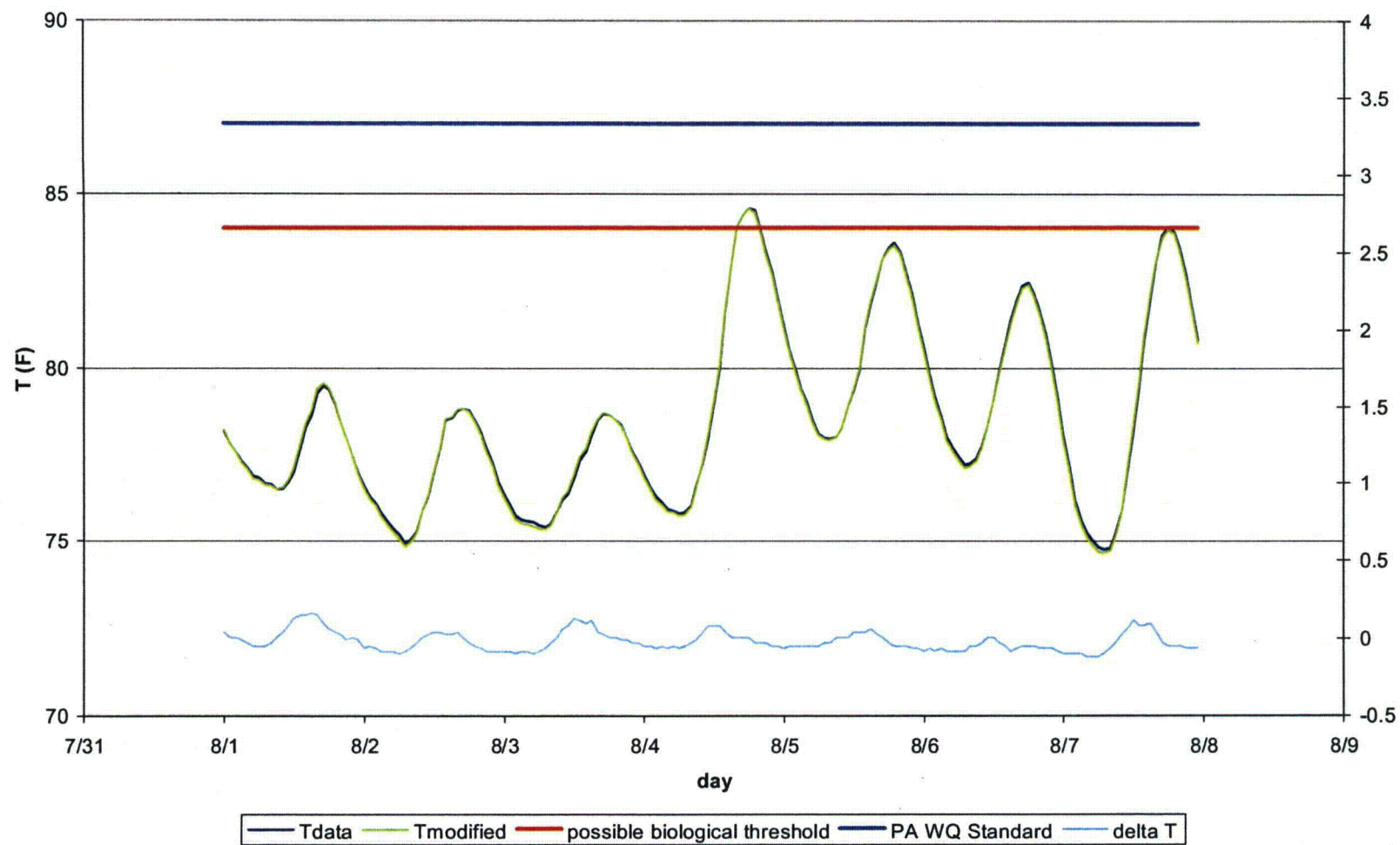
Sonde 6 Test Track (shallow)



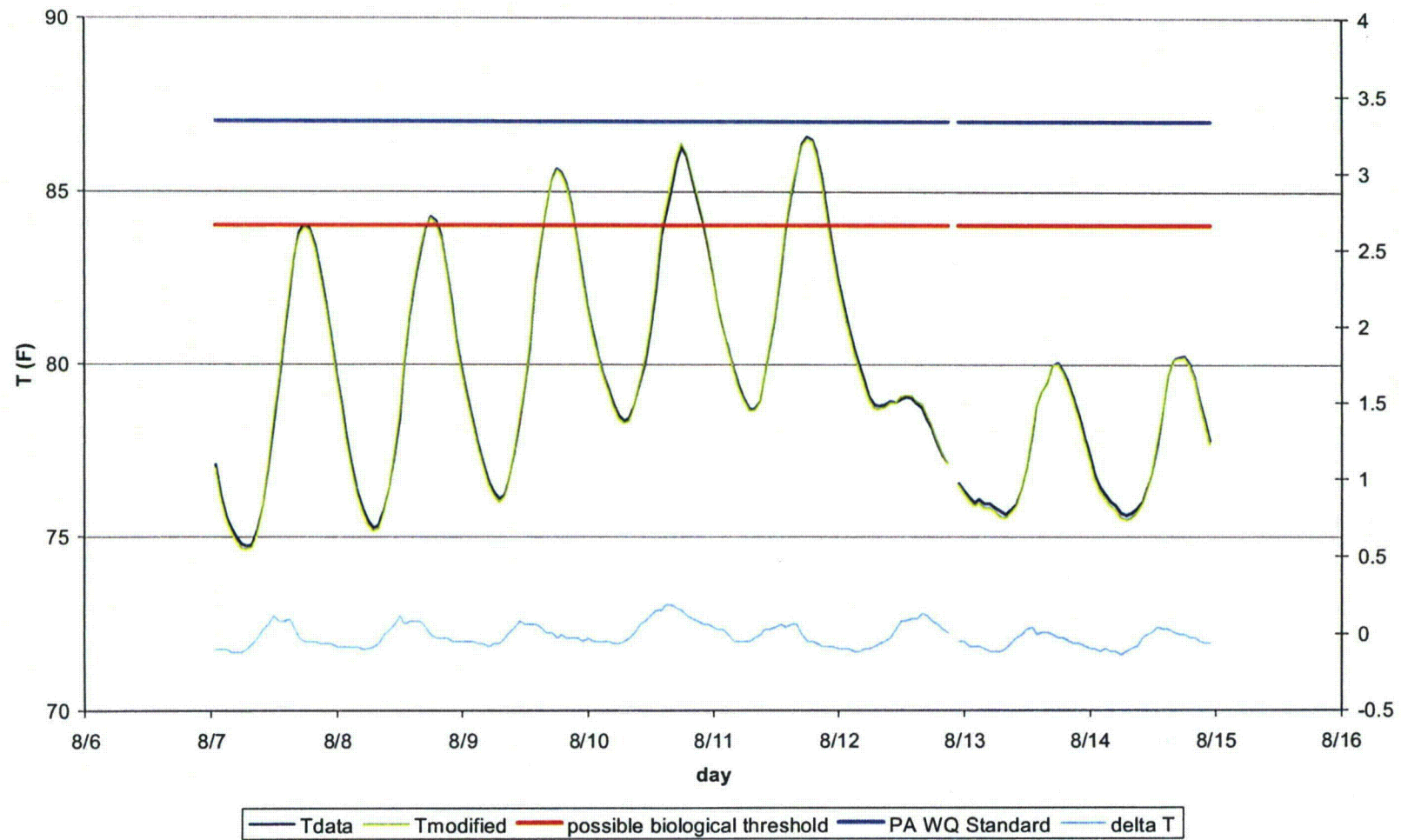
Sonde 6 Test Track (shallow)



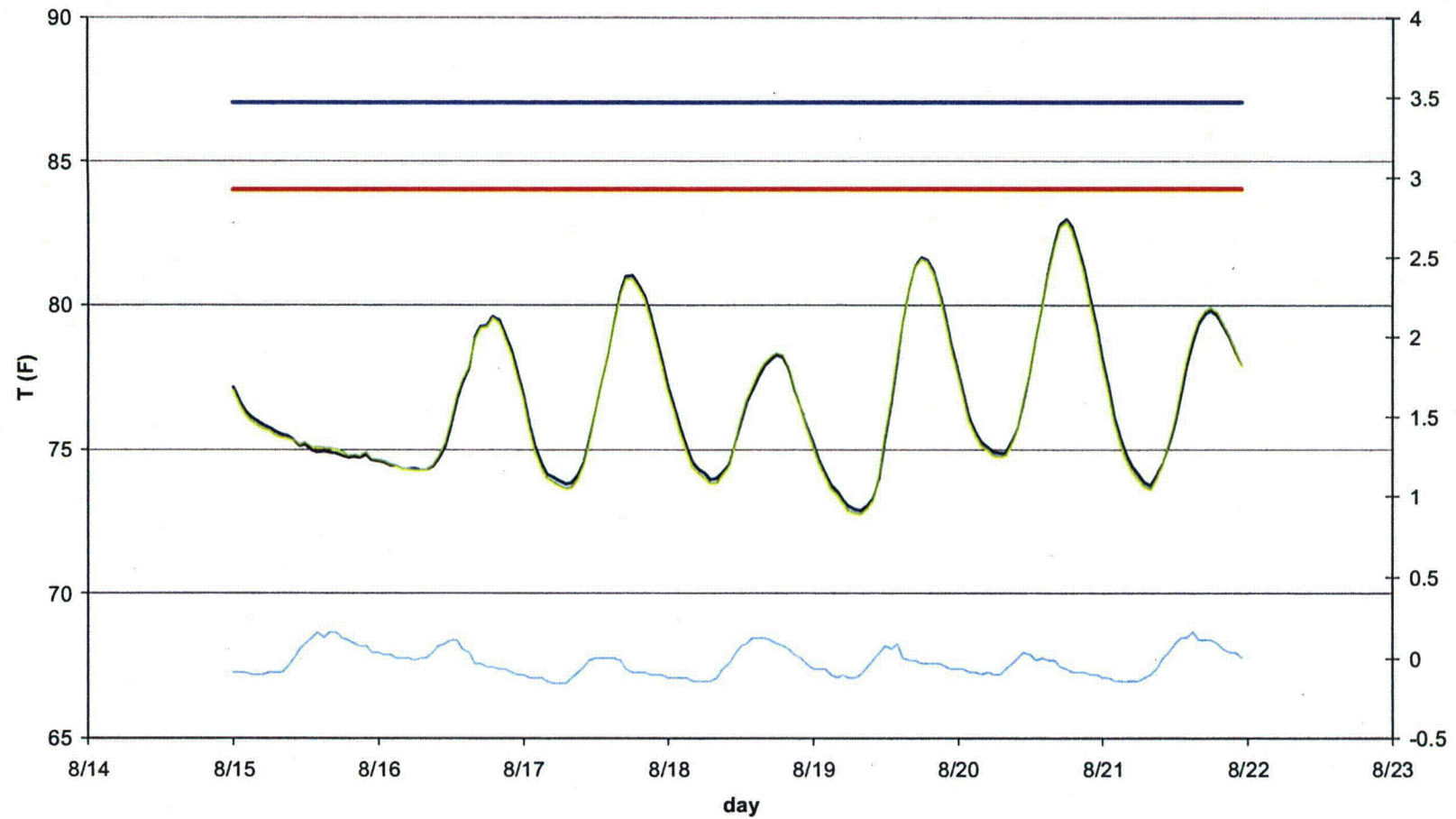
Sonde 6 Test Track (shallow)



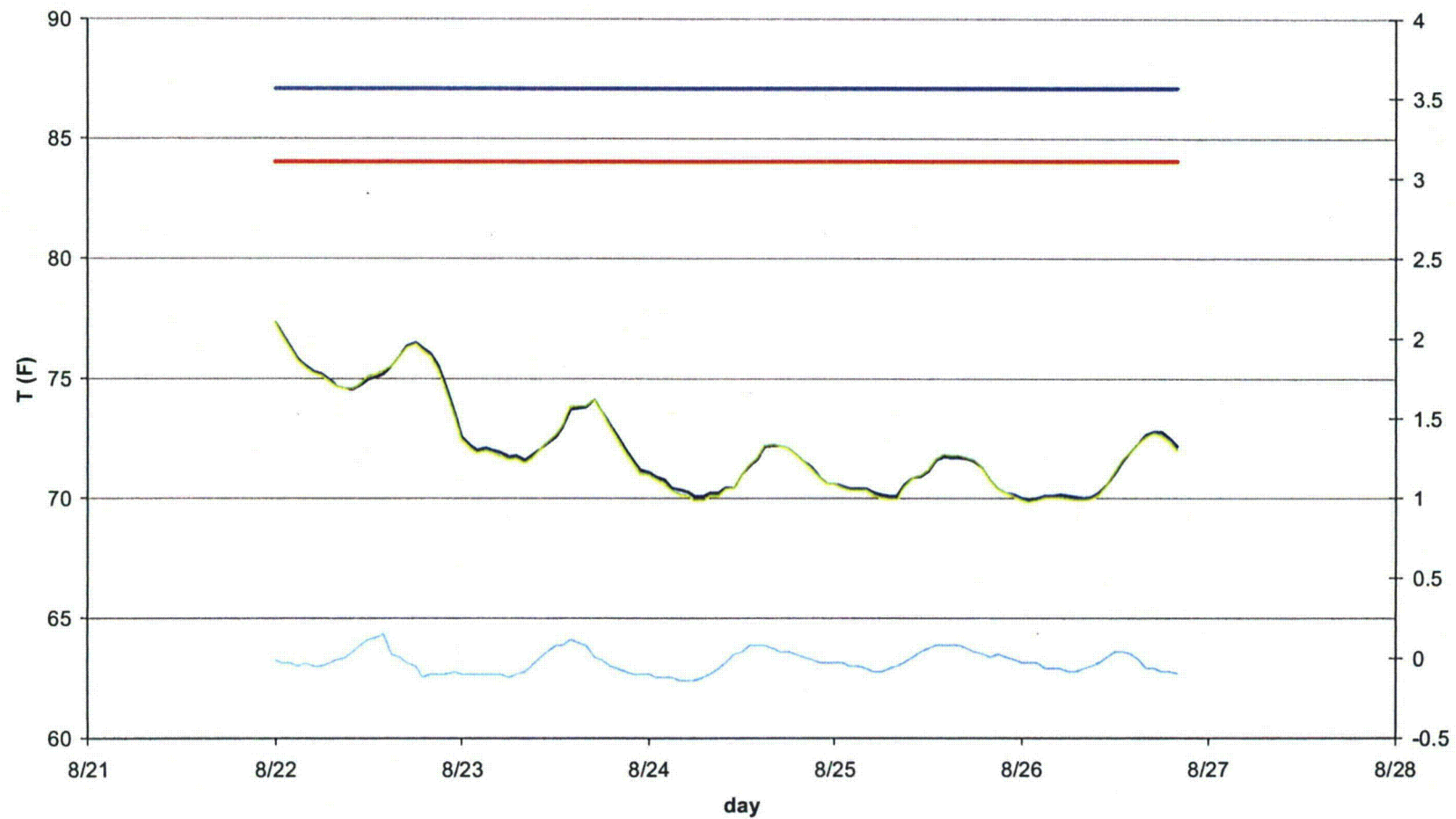
Sonde 6 Test Track (shallow)



Sonde 6 Test Track (shallow)



Sonde 6 Test Track (shallow)



— Tdata — Tmodified — possible biological threshold — PA WQ Standard — delta T