

**POPULATION ASSESSMENT OF MARINE TURTLES IN  
LAKE WORTH LAGOON, FLORIDA.  
TASK #5, August 2009**



**Submitted to : Palm Beach County Department Of  
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## INTRODUCTION

Lake Worth Lagoon (LWL) is a 32 kilometer long body of water located just west of the Atlantic Ocean along the coast of Palm Beach County, Florida. The lagoon was historically a freshwater lake, but has been severely altered by human activities since the late 1800s. Today, LWL is a moderately polluted estuarine waterway that receives ocean water from two man-made inlets. Due to heightened awareness of its degraded state, Palm Beach County's Department of Environmental Resources Management (PBCDERM) drafted a management plan for LWL in the mid 1990s. The final draft of the Lake Worth Lagoon Management Plan was approved by a steering committee in 1998 and was updated in 2008. One of the goals under the habitat restoration and enhancement program is "to attain and maintain the biological integrity of the ecosystem which supports the diversity of fisheries and wildlife, including endangered and threatened species." This directive specifically includes "research that should be conducted to understand the extent of utilization of the Lake Worth Lagoon habitat by sea turtles".

In March 2005, PBCDERM contracted Inwater Research Group, Inc. (IRG) to conduct a preliminary survey of marine turtles in LWL. Possible study sites in LWL were originally identified by analyzing stranding records and sighting data provided by PBCDERM. An introductory trip with PBCDERM representatives in fall 2004 provided an on-site look at potential study sites within LWL and was followed by a sampling trip on March 7-10, 2005. This initial assessment used a two pronged approach to evaluate the abundance and species composition of marine turtles utilizing LWL. First, visual transects were used to identify potential areas where marine turtles aggregate and second, netting operations were conducted in areas that were identified as potential turtle "hotspots". Results from this sampling trip were detailed in a report titled "Preliminary Population Assessment of Marine Turtles in Lake Worth Lagoon, Florida" submitted to PBCDERM in March 2005.

Based on results obtained during IRG's preliminary study, PBCDERM obtained funding through the Sea Turtle Grants Program for the continuation of this project. This grant provided funding for the project through the spring of 2007. However, after the spring of 2007, the project was suspended due to lack of funding. This resulted in a gap in seasonal data for the remainder of 2007 and the beginning of 2008. In May 2008, PBCDERM initiated a new contract with Inwater Research Group to continue the sea turtle research project in LWL for a period of three years. This report provides a summary of the activities associated with Task # 5 as outlined in the contract. The report includes data from sampling that occurred during August 24-26, 2009 and provides a summation of data collected during all sampling events associated with this project.

The primary objectives of this study are to:

- 1) Obtain baseline data on species abundance, size frequencies and sex ratios. These baseline data consist of quantitative measurements that can be used to determine stage-specific abundance, and in the future, determine recoveries or declines in these populations.
- 2) Determine Catch per Unit Effort (CPUE) at specific sites in Lake Worth Lagoon. This measurement will allow direct comparisons over time within Lake Worth Lagoon and with other ongoing research projects throughout the state.
- 3) Document the prevalence of fibropapillomatosis (FP), a potentially deadly disease that occurs at a high frequency among sea turtles in Indian River Lagoon and Florida Bay.

- 4) Obtain blood samples for genetic, sex ratio and disease analysis.
- 5) Determine spatial distribution of sea turtles within Lake Worth Lagoon by collecting GPS waypoints for sighting and captures.

## METHODS

Quantitative data on the abundance of turtles over wide areas of LWL were collected by a vessel based, visual transect system developed by IRG. The “H.U.N.T.” (haphazard, unmarked, nonlinear transect) method consisted of stationing two individuals in an elevated tower of the boat to sight turtles while moving at slow speeds. Start and end points of each transect were recorded by GPS and all turtles sighted were assigned a waypoint relative to their distance from the transect line. This method allows for analysis of marine turtles sighted per kilometer of transect performed.

During this sampling trip we used a method of capture that we have used at another project in the Key West National Wildlife Refuge. The rodeo capture method is used in conjunction with the HUNT transects and involves pursuing a turtle to the point it is along side the boat. At that time a snorkler jumps from the boat and attempts to capture the turtle. We had not planned on using this method in LWL, but we had the opportunity to capture a turtle with severe fibropapillomas in shallow water and realized that this capture technique would work on a limited basis. The turtle was sent to a rehabilitation facility for treatment. This method of capture is listed on our permit from FWCC, but is not specific to our NMFS permit. We will continue to experiment with this capture method to determine if it is worth the lengthy process of amending our NMFS permit for this project.

During the history of this project turtles have typically been captured using a large mesh tangle net, 100 meters long by five meters deep with 40 cm stretch (knot to knot) multi-filament mesh. The mesh is suspended from a foam core braided polyethylene top line with fixed buoys spaced 3.5 meters apart. The bottom line consists of a small diameter lead core line. Anchors attached to both ends of the net keep it in position and prevent it from drifting. GPS waypoints were recorded at each end of the net and when possible, habitat type was identified and recorded. Every effort was made to avoid damaging sea grass beds and netting was not conducted in areas of identified critical habitat for listed sea grass species. The net was deployed by boat and carefully monitored by pulling the net hand over hand every 30 minutes. When turtles encountered the net and became entangled, they were quickly removed and placed on the deck of the boat for work up.

Morphometric data were collected for each turtle captured using forestry calipers and a flexible tape. Measurements included straight standard carapace length (SCL), straight minimum carapace length, straight maximum carapace width, straight midline plastron length, curved standard carapace length, curved maximum carapace width and head width. Inconel # 681 tags were applied to the trailing edge of each front flipper and a passive integrated transponder (PIT) tag was applied subcutaneously to the right front flipper. Only one inconel tag was applied to green turtles smaller than 40 cm SCL or turtles with flipper anomalies. Before insertion of any tags all flippers were scanned for the presence of any pre-existing PIT tags. All turtles were inspected carefully and when present, tumors associated with fibropapillomatosis (FP) were measured and recorded on a standardized tumor score sheet. The total tumor score was used to assign turtles a severity category as described by Work and Balazs (1999). Turtles were weighed and photographed before being released near the capture area.

To determine the relative abundance of marine turtles within LWL, catch per unit effort (CPUE) was calculated. In the formula described in Ehrhart *et al.* (1996) effort is expressed in net kilometer (km) hours (one kilometer of net fished for one hour). CPUE is then calculated using the formula  $C/(L*T)$ . Where C = the number of turtles captured, L = the length of net fished, and T = the amount of time the net was fished. The CPUE data collected at sites within LWL will be used to determine seasonal and annual fluctuations in marine turtle abundance.

Blood samples were taken from most turtles captured for genetic analysis, sex ratios and disease verification. Blood was drawn from the cervical sinus using a sterile vacutainer with no additive (Owens and Ruiz, 1980). The area was thoroughly sterilized with alcohol before needle insertion. A 22 gauge 1" needle was used on small juveniles, while a 1.5" was used on larger subadults. Approximately 4 ml of blood was collected from each turtle and a few drops were added to a lysis buffer (100 mM Tris-HCL, pH 8; 100 mM EDTA, pH 8, 10 mM NaCl; 1.0% SDS) in a 1:10 ratio, the mixture was gently shaken and stored in a cool dark place. This blood will be used for later mtDNA haplotype analysis to determine the turtles origins (Encalada *et al.* 1996). The remaining blood was placed in a sterile vacutainer with lithium heparin and spun for ten minutes in an Adams Physician centrifuge. Plasma was then pipetted into a 1.8 ml vial and held for future testosterone radioimmunoassays to determine sex.

Dietary samples were carefully extracted from captured green turtles using a technique called "lavage". The lavage process flushes food items from the esophagus and mouth areas. During this procedure turtles were held on their back with their posterior slightly elevated. A soft plastic veterinarian's stomach tube was lubricated with vegetable oil and cautiously inserted into the mouth and throat area. Seawater was then pumped through the tube using a veterinarian's double action pump. The tube was gently moved back and forth along the length of the esophagus and prey items were collected in a bucket positioned under the turtle's head.

The extracted diet sample was then strained through a fine mesh net (mesh ~1mm) and placed into a collection jar. A 4% formalin-seawater solution was used to preserve the sample for future analysis. Date, location and tag numbers of the turtles were recorded on the collection jar.

## RESULTS AND DISCUSSION

From August 24-26, 2009 Inwater Research Group continued its sea turtle sampling in LWL according to the requirements outlined in the new contract with Palm Beach County. Sampling effort during this period was primarily focused in the northern region of the lagoon near Little Munyon Island (LMI). During this sampling event 40 visual transects were conducted covering 43.48 kilometers of sea turtle habitat in LWL. A total of seventy seven (77) green turtles (*Chelonia mydas*) were sighted during transect effort, generating an overall sighting rate of 1.77 green turtles per kilometer of transect (Table 1). In August we observed more green turtles on transect than during any other previous sampling event. However, we have had greater relative abundance of green turtles during past sampling efforts based on sightings per kilometer of transect. The number of green turtles sighted in August emphasizes the importance of the LMI area as an important developmental habitat. Cumulatively, visual transects conducted over the course of this project have yielded five loggerhead and 286 green turtle sightings over 475.59 kilometers of transects. Total green turtle sightings were calculated at 0.60 turtles sighted per kilometer of transect. Total loggerhead sightings were calculated at 0.01 turtles sighted per kilometer of transect. Locations of all turtles sighted on transect are presented in Table 2. In

addition to sea turtles sighted on transect in August, forty two (42) green turtles were sighted off transect. The locations for these sightings were recorded by GPS and are presented in Table 3. Overall, 232 green turtles and two loggerheads have been sighted off transect in LWL. Green turtles sighted on and off transect were considered to be in their juvenile life stage (< 65.0 cm SCL) and loggerheads were all immature animals under 85.0 cm SCL. The number of green turtles sighted on and off transect in the LMI area during August 2009 was remarkable. The relative abundance of juvenile green turtles at the LMI site is equal to or greater than any densities found at other study site in Florida

During August 2009, tangle nets were only set in LWL once for a total of 1.08 km net hours. All net beginning and end point locations were recorded by GPS and are presented in Table 4. In August, netting activity was conducted exclusively in the northern region of the lagoon in the LMI area. During netting activities in August, no green turtles were net captured. The net was only set once during this sampling period due to two reasons; the presence of manatees and the efficiency of the rodeo method in capturing turtles.

Nine turtles were captured using the rodeo method during August. More turtles were captured in August than during any other sampling effort conducted this project. This represents the most turtles captured during a single

Catch per unit effort (CPUE) for green turtles during May was calculated at 3.71 turtles per km/net hour. This is greater than the overall CPUE found for green turtles over the past 13 sampling events and marks an increase in the relative abundance of green turtles in the northern region of the lagoon. CPUE for LWL, including past sampling events, was calculated at 2.38 turtles per km/net hour for green turtles and 0.06 turtles per km/net hour for loggerheads; a total of 2.43 sea turtles per km/net hour. This CPUE is similar to what is observed in the Indian River Lagoon which is an area considered important developmental habitat for juvenile green turtles by the National Marine Fisheries Service.

The nine green turtles captured in August ranged in size from 28.6 – 52.0 cm SCL with a mean of 37.5 cm. Cumulatively, green turtles captured in LWL have ranged in size from 28.6 – 61.7 cm straight carapace length (SCL) with a mean of 42.1 cm (n=57, Table 5). Of the nine green turtles captured in August four had tumors consistent with FP. The FP rate of 44.4% observed in August marks another sampling period where we have observed FP rates that are below the overall rate of 47.3% documented for green turtles in LWL (27 of 57 turtles captured). FP rates for green turtles in Lake Worth Lagoon have ranged between 0% in March 2005 to 100% in September 2006. The fluctuation in seasonal FP rates among green turtles in LWL makes determining trends difficult, but as more data are collected we should be able to identify significant increases or decreases in the disease over time.

During August we captured one green turtle that had previously been tagged by our group at the LMI site. This turtle was captured on August 24, 2009 and recaptured on August 26, 2009. This short recapture interval tells us two things; 1) the capture and workup of this turtle had no short term detrimental affects and 2) the turtle remained in the area even after being captured. As we collect more recapture data we will develop a better understanding of trends in FP and growth rates among green turtles in LWL. Along with genetic, dietary and seasonal analysis, this will allow for a more comprehensive evaluation of sea turtle usage in LWL.

## ACKNOWLEDGEMENTS

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## **TABLES**

**Table 1 .** Visual transect results from haphazard unmarked non-linear transects, Lake Worth Lagoon, Palm Beach County, 2005 - 2009. *Cm* = *Chelonia mydas*, *Cc* = *Caretta caretta*.

DATE	TRANSECT NUMBER	AREA COVERED	START LOCATION (LAT/LONG)	END LOCATION (LAT/LONG)	TRANSECT LENGTH (km)	<i>Cm</i> sighted	<i>Cc</i> sighted	<i>Cm</i> per km/transect	<i>Cc</i> per km/transect
3/7/2005	1	North end of lagoon to north of Blue Heron Bridge.	N26.83840 W80.05656	N26.79415 W80.04418	13.10	0	0	0.00	0.00
3/7/2005	2	North of Peanut Island to north of Flagler Bridge.	N26.77839 W80.04360	N26.71975 W80.04711	11.61	1	0	0.09	0.00
3/7/2005	3	Boynton Inlet area and north.	N26.54797 W80.04767	N26.54709 W80.04770	10.10	0	0	0.00	0.00
3/7/005	4	North of Flagler bridge to Sailfish Marina.	N26.72535 W80.04577	N26.77689 W80.04130	11.80	0	0	0.00	0.00
3/10/2005	5	Lake Worth Inlet to south of Rybovich Marine	N26.77241 W80.03999	N26.74685 W80.04556	4.31	0	0	0.00	0.00
3/10/2005	6	SE Little Munyon Island to north of Munyon Island	N26.80429 W80.04321	N26.82423 W80.04785	5.60	0	0	0.00	0.00
3/10/2005	7	East of Little Munyon Island to south of Little Munyon Island	N26.80626 W80.04241	N26.80021 W80.04344	2.54	0	0	0.00	0.00
6/13/2005	8	SE Little Munyon Island	N26.80101 W80.04001	N26.80335 W80.03676	1.14	1	0	0.88	0.00
6/13/2005	9	South of Little Munyon to north of Peanut Island	N26.79931 W80.04217	N26.77949 W80.04447	5.35	0	0	0.00	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>C</i><sub>m</sub> sighted</b>	<b><i>C</i><sub>c</sub> sighted</b>	<b><i>C</i><sub>m</sub> per km/transect</b>	<b><i>C</i><sub>c</sub> per km/transect</b>
6/14/2005	10	South of Port of Palm Beach to north of Ibis Isle	N26.76413 W80.04957	N26.64413 W80.04278	14.10	0	0	0.00	0.00
6/15/2005	11	South of Little Munyon Island to SE of Little Munyon Island	N26.80053 W80.04468	N26.80216 W80.03757	2.78	9	0	3.24	0.00
6/15/2005	12	SE Little Munyon Island	N26.80103 W80.03735	N26.80516 W80.04350	2.62	2	0	0.76	0.00
9/26/2005	13	Boynton Inlet area and north.	N26.54546 W80.04895	N26.55018 W80.04771	4.46	0	0	0.00	0.00
9/26/2005	14	South of Southern Blvd bridge	N26.66978 W80.04547	N26.67070 W80.04393	2.35	0	0	0.00	0.00
9/26/2005	15	Little Munyon Island area	N26.80091 W80.04487	N26.80661 W80.03763	1.98	1	0	0.51	0.00
9/26/2005	16	Little Munyon Island area	N26.80278 W80.03803	N26.80292 W80.03732	1.50	0	0	0.00	0.00
9/26/2005	17	Little Munyon Island to south of LW inlet	N26.80271 W80.03725	N26.76245 W80.04209	9.55	1	0	0.10	0.00
9/27/2005	18	Little Munyon Island area	N26.80026 W80.04356	N26.80257 W80.03777	3.20	6	0	1.88	0.00
9/27/2005	19	North LWL to Kelsey Park area	N26.79976 W80.04956	N26.80932 W80.04515	2.39	3	0	1.26	0.00
9/27/2005	20	Little Munyon Island area to north LWL	N26.81106 W80.04151	N26.83539 W80.05304	8.34	1	0	0.12	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>Cm</i> sighted</b>	<b><i>Cc</i> sighted</b>	<b><i>Cm</i> per km/transect</b>	<b><i>Cc</i> per km/transect</b>
9/28/2005	21	Little Munyon Island area	N26.79972 W80.04401	N26.80009 W80.03888	0.63	4	0	6.35	0.00
9/28/2005	22	Little Munyon Island area	N26.80271 W80.03689	N26.80016 W80.03724	5.12	0	0	0.00	0.00
9/28/2005	23	Little Munyon Island area to north LWL	N26.80528 W80.04046	N26.81537 W80.05168	7.71	6	0	0.78	0.00
1/9/2006	24	Little Munyon Island area	N26.80046 W80.04535	N26.80381 W80.04060	4.84	3	0	0.62	0.00
1/9/2006	25	Kelsey Park West side of lagoon.	N26.81408 W80.05125	N26.79608 W80.04821	2.01	0	0	0.00	0.00
1/9/2006	26	Inlet and south to Rybovich	N26.77574 W80.04060	N26.77930 W80.04512	8.69	0	0	0.00	0.00
1/9/2006	27	Little Munyon Island area	N26.79907 W80.04412	N26.80131 W80.04421	2.75	1	0	0.36	0.00
1/10/2006	28	Little Munyon Island area	N26.80355 W80.03939	N26.80346 W80.03661	0.74	0	0	0.00	0.00
1/10/2006	29	South of Peanut Island to Sailfish Marina	N26.76409 W80.04852	N26.78037 W80.04296	4.94	0	0	0.00	0.00
1/11/2006	30	Little Munyon Island area	N26.80453 W80.03758	N26.80434 W80.03733	2.01	0	0	0.00	0.00
1/11/2006	31	Little Munyon Island area to Macarthur park	N26.80274 W80.03751	N26.83693 W80.05123	6.89	8	0	1.16	0.00
1/11/2006	32	West side of lagoon north of Blue Heron bridge	N26.80316 W80.04981	N26.78677 W80.04625	2.92	0	0	0.00	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>Cm</i> sighted</b>	<b><i>Cc</i> sighted</b>	<b><i>Cm</i> per km/transect</b>	<b><i>Cc</i> per km/transect</b>
3/21/2006	33	Little Munyon Island area	N26.80211 W80.04369	N26.80605 W80.03932	2.00	3	0	1.50	0.00
3/21/2006	34	West side of lagoon north of Blue Heron bridge	N26.79825 W80.05106	N26.78253 W80.04511	2.03	0	0	0.00	0.00
3/22/2006	35	Little Munyon Island area	N26.80303 W80.04273	N26.80574 W80.04034	4.86	2	0	0.41	0.00
6/26/2006	36	Little Munyon Island area	N26.80298 W80.03804	N26.80286 W80.03784	0.31	0	0	0.00	0.00
6/26/2006	37	Little Munyon Island area	N26.80258 W80.03879	N26.80176 W80.04058	3.15	2	0	0.63	0.00
6/26/2006	38	Little Munyon Island area	N26.80007 W80.04075	N26.80132 W80.03964	1.49	0	0	0.00	0.00
6/26/2006	39	Little Munyon Island area	N26.80309 W80.04159	N26.79587 W80.04384	0.94	0	0	0.00	0.00
6/27/2006	40	Bird Island to Ocean Ave. Bridge	N26.53229 W80.05331	N26.53974 W80.05148	8.89	0	0	0.00	0.00
6/28/2006	41	Little Munyon Island area	N26.80112 W80.04344	N26.81002 W80.03965	5.11	24	0	4.70	0.00
9/18/2006	42	Little Munyon Island area	N26.80905 W80.04365	N26.81169 W80.03774	3.52	0	0	0.00	0.00
9/18/2006	43	Little Munyon Island area	N26.81117 W80.03769	N26.79316 W80.04341	2.21	0	0	0.00	0.00
9/19/2006	44	Little Munyon Island area	N26.79910 W80.04254	N26.79945 W80.04218	3.46	5	1	1.45	0.29

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b>Cm sighted</b>	<b>Cc sighted</b>	<b>Cm per km/transect</b>	<b>Cc per km/transect</b>
9/19/2006	45	Little Munyon Island area	N26.80045 W80.04181	N26.80723 W80.04434	2.92	1	0	0.34	0.00
9/19/2006	46	Little Munyon Island area	N26.80560 W80.03934	N26.78731 W80.04061	7.11	2	0	0.28	0.00
9/20/2006	47	Little Munyon Island area	N26.80503 W80.04332	N26.80556 W80.04298	1.49	1	1	0.67	0.67
9/20/2006	48	Little Munyon Island area	N26.80535 W80.04398	N26.80027 W80.04188	2.72	0	0	0.00	0.00
12/4/2006	49	Little Munyon Island area	N26.79784 W80.04353	N26.80791 W80.04418	5.10	3	0	0.59	0.00
12/4/2006	50	Little Munyon Island area	N26.80234 W80.04372	N26.79054 W80.04367	1.34	0	0	0.00	0.00
12/5/2006	51	Little Lake Worth Lagoon	N26.84628 W80.05480	N26.84617 W80.05518	4.38	0	0	0.00	0.00
12/6/2006	52	Little Munyon Island area	N26.80213 W80.04177	N26.80896 W80.04100	2.09	0	0	0.00	0.00
12/6/2006	53	Little Munyon Island area	N26.81133 W80.04654	N26.83380 W80.04974	2.99	1	0	0.33	0.00
4/2/2007	54	Little Munyon Island area	N26.80407 W80.04327	N26.81178 W80.04377	2.49	3	0	1.20	0.00
4/2/2007	55	Little Munyon Island area	N26.80744 W80.04408	N26.80394 W80.03997	1.87	0	0	0.00	0.00
4/2/2007	56	Little Munyon Island area to MacArthur park	N26.81023 W80.04640	N26.83649 W80.05130	3.17	0	0	0.00	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>Cm</i> sighted</b>	<b><i>Cc</i> sighted</b>	<b><i>Cm</i> per km/transect</b>	<b><i>Cc</i> per km/transect</b>
4/2/2007	57	Little Munyon Island area	N26.81229 W80.04361	N26.79754 W80.04293	2.75	0	0	0.00	0.00
4/2/2007	58	Little Munyon Island area	N26.79699 W80.04353	N26.80752 W80.04449	3.29	2	0	0.61	0.00
4/2/2007	59	Little Munyon Island area	N26.80782 W80.04400	N26.79954 W80.03677	3.67	1	0	0.27	0.00
4/3/2007	60	Little Munyon Island area	N26.79869 W80.04298	N26.80265 W80.04027	3.35	4	2	1.19	0.60
4/3/2007	61	Lake Worth Inlet to south of Rybovich Marine	N26.76096 W80.04818	N26.74649 W80.04704	1.69	0	0	0.00	0.00
4/3/2007	62	South of Southern Blvd. to across from C51 canal	N26.64348 W80.04287	N26.66110 W80.04302	2.52	0	0	0.00	0.00
4/3/2007	63	Snook Island area	N26.63431 W80.04416	N26.61843 W80.04498	2.00	0	0	0.00	0.00
4/3/2007	64	Bird Island area	N26.55083 W80.04710	N26.55451 W80.05091	5.70	3	0	0.53	0.00
4/4/2007	65	Little Munyon Island area	N26.79728 W80.04313	N26.80313 W80.04073	1.84	1	0	0.54	0.00
4/4/2007	66	Little Munyon Island area to Macarthur park	N26.80616 W80.04205	N26.82581 W80.04678	6.49	1	0	0.15	0.00
4/4/2007	67	Little Munyon Island area to MacArthur park	N26.82554 W80.04818	N26.82240 W80.04790	2.36	1	0	0.42	0.00
6/16/2008	68	Little Munyon Island area	N26.79828 W80.04246	N26.81129 W80.03795	6.20	14	0	2.26	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>Cm</i> sighted</b>	<b><i>Cc</i> sighted</b>	<b><i>Cm</i> per km/transect</b>	<b><i>Cc</i> per km/transect</b>
6/16/2008	69	Little Munyon Island area	N26.80419 W80.04112	N26.80659 W80.03819	2.60	4	0	1.54	0.00
6/18/2008	70	Little Munyon Island area	N26.79838 W80.04236	N26.81094 W80.03884	5.80	6	0	1.03	0.00
6/18/2008	71	Little Munyon Island area	N26.80743 W80.04025	N26.80638 W80.04388	0.59	1	0	1.69	0.00
6/19/2008	72	Little Munyon Island area	N26.79918 W80.04366	N26.80599 W80.04354	11.20	10	0	0.89	0.00
6/19/2008	73	MacArthur Park, Munyon Island, PB Waterway, Peanut Island	N26.81375 W80.04711	N26.78908 W80.04381	22.60	0	0	0.00	0.00
10/6/2008	74	Little Munyon Island area	N26.79843 W80.04094	N26.80586 W80.03839	3.95	1	0	0.25	0.00
10/6/2008	75	Peanut Island to Rybovich Marine	N26.77029 W80.04428	N26.77381 W80.04915	7.40	0	1	0.00	0.14
10/6/2008	76	Peanut Island to Little Munyon Island	N26.77500 W80.04831	N26.80295 W80.03853	3.90	4	0	1.03	0.00
10/6/2008	77	Little Munyon Island area	N26.80488 W80.03655	N26.80072 W80.03499	6.23	0	0	0.00	0.00
10/6/2008	78	Kelsey Park	N26.80142 W80.04923	N26.80229 W80.04990	1.66	0	0	0.00	0.00
10/6/2008	79	West Little Munyon Island to J.D. MacArthur Park	N26.80465 W80.04657	N26.81741 W80.04496	3.32	0	0	0.00	0.00
10/6/2008	80	West Intracoastal waterway, J.D. MacArthur Park south	N26.82052 W80.05317	N26.80810 W80.05138	1.50	0	0	0.00	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>Cm</i> sighted</b>	<b><i>Cc</i> sighted</b>	<b><i>Cm</i> per km/transect</b>	<b><i>Cc</i> per km/transect</b>
10/7/2008	81	Little Munyon Island area	N26.80034 W80.04145	N26.80984 W80.03859	3.30	0	0	0.00	0.00
10/7/2008	82	J.D. MacArthur Park	N26.80949 W80.04627	N26.81952 W80.04173	2.91	1	0	0.34	0.00
10/7/2008	83	J.D. MacArthur Park	N26.81944 W80.04162	N26.80781 W80.04751	2.89	0	0	0.00	0.00
10/7/2008	84	Lake Worth Inlet Jetty	N26.77125 W80.04038	N26.77118 W80.04377	2.01	0	0	0.00	0.00
10/7/2008	85	Little Munyon Island area	N26.79851 W80.04212	N26.80432 W80.03833	1.37	0	0	0.00	0.00
10/8/2008	86	Little Munyon Island area	N26.79806 W80.04443	N26.80822 W80.03780	4.25	0	0	0.00	0.00
2/23/2009	87	Boynton Inlet area and north.	N26.54736 W80.05203	N26.55231 W80.04462	4.80	1	0	0.21	0.00
2/23/2009	88	Boynton Inlet south	N26.53221 W80.05349	N26.53503 W80.05279	1.00	0	0	0.00	0.00
2/23/2009	89	Snook Island area	N26.63200 W80.04418	N26.61989 W80.04535	1.50	0	0	0.00	0.00
2/23/2009	90	Snook Island area	N26.62749 W80.04434	N26.61799 W80.04462	1.30	0	0	0.00	0.00
2/23/2009	91	Ibis Isle to Snook Island west bank	N26.63538 W80.04515	N26.62037 W80.04460	4.40	0	0	0.00	0.00
2/23/2009	92	Ibis Isle to Snook Island east bank	N26.63563 W80.04285	N26.62400 W80.04069	1.70	0	0	0.00	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>C</i><sub>m</sub> sighted</b>	<b><i>C</i><sub>c</sub> sighted</b>	<b><i>C</i><sub>m</sub> per km/transect</b>	<b><i>C</i><sub>c</sub> per km/transect</b>
2/23/2009	93	Half Moon Bay	N26.58298 W80.04832	N26.56740 W80.04920	1.90	0	0	0.00	0.00
2/23/2009	94	North Bird Island	N26.55640 W80.04744	N26.56151 W80.04426	2.20	0	0	0.00	0.00
2/23/2009	95	Bird Island area	N26.55965 W80.04502	N26.55070 W80.04452	1.80	0	0	0.00	0.00
2/24/2009	96	Snook Island area	N26.61720 W80.04493	N26.62410 W80.04493	3.40	0	0	0.00	0.00
2/24/2009	97	Little Munyon Island area	N26.79864 W80.04163	N26.80156 W80.03628	6.40	2	0	0.31	0.00
2/24/2009	98	Little Munyon Island area	N26.80259 W80.03694	N26.80093 W80.04312	0.88	0	0	0.00	0.00
2/24/2009	99	Peanut Island to S. Lake Worth Inlet	N26.78019 W80.04581	N26.74929 W80.04288	4.10	0	0	0.00	0.00
2/25/2009	100	Snook Island area	N26.61690 W80.04471	N26.61664 W80.04506	4.00	1	0	0.25	0.00
5/11/2009	101	Little Munyon Island	N26.80080 W80.04321	N26.80493 W80.03995	1.60	8	0	5.00	0.00
5/12/2009	102	Little Munyon Island	N26.79898 W80.04162	N26.80525 W80.04303	2.1	7	0	3.33	0.00
5/12/2009	103	Little Munyon Island	N26.80002 W80.03842	N26.80118 W80.03833	0.57	1	0	1.75	0.00
5/12/2009	104	Little Munyon Island	N26.80179 W80.03809	N26.80098 W80.04083	1.80	1	0	.56	0.00

**Table 1. (cont.)**

<b>DATE</b>	<b>TRANSECT NUMBER</b>	<b>AREA COVERED</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>	<b>TRANSECT LENGTH (km)</b>	<b><i>Cm</i> sighted</b>	<b><i>Cc</i> sighted</b>	<b><i>Cm</i> per km/transect</b>	<b><i>Cc</i> per km/transect</b>
5/12/2009	105	Little Munyon Island	N26.80115 W80.04095	N26.80086 W80.03837	0.81	1	0	1.23	0.00
5/12/2009	106	Little Munyon Island	N26.80124 W80.04086	N26.80079 W80.03852	0.30	0	0	0.00	0.00
5/12/2009	107	Little Munyon Island	N26.80122 W80.03846	N26.80206 W80.03580	1.10	3	0	2.73	0.00
5/12/2009	108	Little Munyon Island	N26.80154 W80.03630	N26.80157 W80.03649	3.00	5	0	1.67	0.00
5/12/2009	109	Little Munyon Island	N26.80120 W80.03762	N26.79761 W80.04458	1.00	1	0	1.00	0.00
5/13/2009	110	Little Munyon Island	N26.79849 W80.04250	N26.80204 W80.03978	2.30	13	0	5.65	0.00
5/13/2009	111	Little Munyon Island	N26.79968 W80.04037	N26.80318 W80.03972	3.10	12	0	3.87	0.00
5/13/2009	112	Little Munyon Island	N26.80072 W80.03928	N26.80303 W80.03881	2.00	2	0	1.00	0.00

**Table 2.** Location of sea turtles sighted on transect in Lake Worth Lagoon, Palm Beach County, 2005 -2009.

<b>DATE</b>	<b>SPECIES</b>	<b>LOCATION (LAT/LONG)</b>	<b>TRANSECT NUMBER</b>
3/7/2005	<i>Chelonia mydas</i>	N26.75181 W80.04921	2
6/13/2005	<i>Chelonia mydas</i>	N26.80217 W80.03721	8
6/15/2005	<i>Chelonia mydas</i>	N26.79903 W80.04250	11
6/15/2005	<i>Chelonia mydas</i>	N26.79850 W80.04001	11
6/15/2005	<i>Chelonia mydas</i>	N26.80018 W80.03957	11
6/15/2005	<i>Chelonia mydas</i>	N26.80141 W80.03852	11
6/15/2005	<i>Chelonia mydas</i>	N26.80149 W80.03702	11
6/15/2005	<i>Chelonia mydas</i>	N26.80134 W80.03688	11
6/15/2005	<i>Chelonia mydas</i>	N26.80131 W80.03687	11
6/15/2005	<i>Chelonia mydas</i>	N26.80162 W80.03720	11
6/15/2005	<i>Chelonia mydas</i>	N26.80202 W80.03746	11
6/15/2005	<i>Chelonia mydas</i>	N26.79928 W80.03683	12
6/15/2005	<i>Chelonia mydas</i>	N26.80116 W80.03590	12
9/26/2005	<i>Chelonia mydas</i>	N26.80234 W80.03696	15
9/26/2005	<i>Chelonia mydas</i>	N26.80112 W80.03995	17
9/27/2005	<i>Chelonia mydas</i>	N26.80157 W80.04013	18
9/27/2005	<i>Chelonia mydas</i>	No Data	18
9/27/2005	<i>Chelonia mydas</i>	N26.80089 W80.03817	18
9/27/2005	<i>Chelonia mydas</i>	N26.80281 W80.03683	18
9/27/2005	<i>Chelonia mydas</i>	No Data	18
9/27/2005	<i>Chelonia mydas</i>	N26.80273 W80.03765	18
9/27/2005	<i>Chelonia mydas</i>	N26.80444 W80.05048	19
9/27/2005	<i>Chelonia mydas</i>	N26.80829 W80.04568	19
9/27/2005	<i>Chelonia mydas</i>	N26.80894 W80.04433	19
9/27/2005	<i>Chelonia mydas</i>	N26.80014 W80.04149	20
9/28/2005	<i>Chelonia mydas</i>	N26.79930 W80.04211	21
9/28/2005	<i>Chelonia mydas</i>	N26.79978 W80.04007	21
9/28/2005	<i>Chelonia mydas</i>	N26.80039 W80.03946	21
9/28/2005	<i>Chelonia mydas</i>	N26.80023 W80.03898	21
9/28/2005	<i>Chelonia mydas</i>	N26.80108 W80.04457	23
9/28/2005	<i>Chelonia mydas</i>	N26.79911 W80.04202	23
9/28/2005	<i>Chelonia mydas</i>	N26.79896 W80.04559	23

**Table 2 (Cont.)**

9/28/2005	<i>Chelonia mydas</i>	N26.80025 W80.04528	23
9/28/2005	<i>Chelonia mydas</i>	N26.80137 W80.04502	23
9/28/2005	<i>Chelonia mydas</i>	N26.80124 W80.04449	23
1/9/2006	<i>Chelonia mydas</i>	N26.80028 W80.03993	24
1/9/2006	<i>Chelonia mydas</i>	N26.80329 W80.03994	24
1/9/2006	<i>Chelonia mydas</i>	N26.80316 W80.03957	24
1/9/2006	<i>Chelonia mydas</i>	N26.80096 W80.03826	27
1/11/2006	<i>Chelonia mydas</i>	N26.80555 W80.04274	31
1/11/2006	<i>Chelonia mydas</i>	N26.80606 W80.04337	31
1/11/2006	<i>Chelonia mydas</i>	N26.80719 W80.04405	31
1/11/2006	<i>Chelonia mydas</i>	N26.80622 W80.04139	31
1/11/2006	<i>Chelonia mydas</i>	N26.80627 W80.04103	31
1/11/2006	<i>Chelonia mydas</i>	N26.80626 W80.03957	31
1/11/2006	<i>Chelonia mydas</i>	N26.80627 W80.03922	31
1/11/2006	<i>Chelonia mydas</i>	N26.80687 W80.03836	31
3/21/2006	<i>Chelonia mydas</i>	N26.80275 W80.04034	33
3/21/2006	<i>Chelonia mydas</i>	N26.80417 W80.03851	33
3/21/2006	<i>Chelonia mydas</i>	N26.80661 W80.03964	33
3/22/2006	<i>Chelonia mydas</i>	N26.80828 W80.03751	35
3/22/2006	<i>Chelonia mydas</i>	N26.80536 W80.04089	35
6/26/2006	<i>Chelonia mydas</i>	N26.80478 W80.03699	37
6/26/2006	<i>Chelonia mydas</i>	N26.80218 W80.04285	37
6/28/2006	<i>Chelonia mydas</i>	N26.80149 W80.04094	41
6/28/2006	<i>Chelonia mydas</i>	N26.80154 W80.04028	41
6/28/2006	<i>Chelonia mydas</i>	N26.80161 W80.03960	41
6/28/2006	<i>Chelonia mydas</i>	N26.80266 W80.03703	41
6/28/2006	<i>Chelonia mydas</i>	N26.80814 W80.04025	41
6/28/2006	<i>Chelonia mydas</i>	N26.80852 W80.03976	41
6/28/2006	<i>Chelonia mydas</i>	N26.80862 W80.03959	41
6/28/2006	<i>Chelonia mydas</i>	N26.80893 W80.03909	41
6/28/2006	<i>Chelonia mydas</i>	N26.81014 W80.03955	41
6/28/2006	<i>Chelonia mydas</i>	N26.81060 W80.04140	41
6/28/2006	<i>Chelonia mydas</i>	N26.80959 W80.04363	41
6/28/2006	<i>Chelonia mydas</i>	N26.80133 W80.03770	41
6/28/2006	<i>Chelonia mydas</i>	N26.80166 W80.03795	41
6/28/2006	<i>Chelonia mydas</i>	N26.80499 W80.03836	41
6/28/2006	<i>Chelonia mydas</i>	N26.80579 W80.03859	41

**Table 2 (Cont.)**

6/28/2006	<i>Chelonia mydas</i>	N26.80601 W80.03867	41
6/28/2006	<i>Chelonia mydas</i>	N26.80796 W80.03936	41
6/28/2006	<i>Chelonia mydas</i>	N26.80807 W80.03939	41
6/28/2006	<i>Chelonia mydas</i>	N26.80824 W80.03944	41
6/28/2006	<i>Chelonia mydas</i>	N26.80831 W80.03946	41
6/28/2006	<i>Chelonia mydas</i>	N26.80841 W80.03948	41
6/28/2006	<i>Chelonia mydas</i>	N26.80863 W80.03952	41
6/28/2006	<i>Chelonia mydas</i>	N26.80899 W80.03956	41
6/28/2006	<i>Chelonia mydas</i>	N26.80912 W80.03958	41
9/19/2006	<i>Caretta caretta</i>	N26.79949 W80.04182	44
9/19/2006	<i>Chelonia mydas</i>	N26.79950 W80.04186	44
9/19/2006	<i>Chelonia mydas</i>	N26.79951 W80.04184	44
9/19/2006	<i>Chelonia mydas</i>	N26.79949 W80.04185	44
9/19/2006	<i>Chelonia mydas</i>	N26.79954 W80.04168	44
9/19/2006	<i>Chelonia mydas</i>	N26.80170 W80.04266	44
9/19/2006	<i>Chelonia mydas</i>	N26.80288 W80.04017	45
9/19/2006	<i>Chelonia mydas</i>	N26.81271 W80.03956	46
9/19/2006	<i>Chelonia mydas</i>	N26.79912 W80.04489	46
9/20/2006	<i>Chelonia mydas</i>	N26.80673 W80.04105	47
9/20/2006	<i>Caretta caretta</i>	N26.80676 W80.04128	47
12/4/2006	<i>Chelonia mydas</i>	N26.80495 W80.03959	49
12/4/2006	<i>Chelonia mydas</i>	N26.80498 W80.03955	49
12/4/2006	<i>Chelonia mydas</i>	N26.81044 W80.04068	49
12/6/2006	<i>Chelonia mydas</i>	N26.82042 W80.04772	53
4/2/2007	<i>Chelonia mydas</i>	N26.80130 W80.04116	54
4/2/2007	<i>Chelonia mydas</i>	N26.80216 W80.03932	54
4/2/2007	<i>Chelonia mydas</i>	N26.80226 W80.03938	54
4/2/2007	UNKNOWN	N26.80468 W80.03829	55
4/2/2007	<i>Chelonia mydas</i>	N26.80196 W80.04338	58
4/2/2007	<i>Chelonia mydas</i>	N26.80223 W80.04302	58
4/2/2007	<i>Chelonia mydas</i>	N26.80045 W80.04394	59
4/3/2007	<i>Chelonia mydas</i>	N26.80165 W80.04137	60
4/3/2007	<i>Caretta caretta</i>	N26.80118 W80.03972	60
4/3/2007	<i>Caretta caretta</i>	N26.80273 W80.04111	60
4/3/2007	<i>Chelonia mydas</i>	N26.80324 W80.04089	60
4/3/2007	<i>Chelonia mydas</i>	N26.80219 W80.03951	60
4/3/2007	<i>Chelonia mydas</i>	N26.80203 W80.04065	60

**Table 2 (Cont.)**

4/3/2007	<i>Chelonia mydas</i>	N26.54879 W80.04433	64
4/3/2007	<i>Chelonia mydas</i>	N26.54923 W80.04748	64
4/3/2007	<i>Chelonia mydas</i>	N26.54897 W80.04673	64
4/4/2007	<i>Chelonia mydas</i>	N26.79987 W80.04079	65
4/4/2007	<i>Chelonia mydas</i>	N26.81371 W80.04098	66
4/4/2007	<i>Chelonia mydas</i>	N26.82762 W80.04868	67
6/16/2008	<i>Chelonia mydas</i>	N26.79833 W80.03954	68
6/16/2008	<i>Chelonia mydas</i>	N26.80045 W80.03609	68
6/16/2008	<i>Chelonia mydas</i>	N26.80090 W80.04109	68
6/16/2008	<i>Chelonia mydas</i>	N26.80168 W80.04436	68
6/16/2008	<i>Chelonia mydas</i>	N26.80176 W80.04446	68
6/16/2008	<i>Chelonia mydas</i>	N26.80196 W80.04467	68
6/16/2008	<i>Chelonia mydas</i>	N26.80345 W80.04146	68
6/16/2008	<i>Chelonia mydas</i>	N26.80362 W80.04048	68
6/16/2008	<i>Chelonia mydas</i>	N26.80531 W80.03899	68
6/16/2008	<i>Chelonia mydas</i>	N26.80712 W80.04073	68
6/16/2008	<i>Chelonia mydas</i>	N26.80744 W80.03989	68
6/16/2008	<i>Chelonia mydas</i>	N26.80758 W80.03946	68
6/16/2008	<i>Chelonia mydas</i>	N26.80846 W80.03945	68
6/16/2008	<i>Chelonia mydas</i>	N26.80841 W80.03978	68
6/16/2008	<i>Chelonia mydas</i>	N26.81069 W80.03909	69
6/16/2008	<i>Chelonia mydas</i>	N26.81052 W80.03967	69
6/16/2008	<i>Chelonia mydas</i>	N26.80988 W80.03929	69
6/16/2008	<i>Chelonia mydas</i>	N26.80774 W80.03803	69
6/18/2008	<i>Chelonia mydas</i>	N26.80262 W80.04233	70
6/18/2008	<i>Chelonia mydas</i>	N26.80522 W80.03942	70
6/18/2008	<i>Chelonia mydas</i>	N26.80855 W80.03914	70
6/18/2008	<i>Chelonia mydas</i>	N26.80853 W80.03954	70
6/18/2008	<i>Chelonia mydas</i>	N26.80848 W80.03982	70
6/18/2008	<i>Chelonia mydas</i>	N26.80928 W80.04252	70
6/18/2008	<i>Chelonia mydas</i>	N26.80762 W80.04181	71
6/19/2008	<i>Chelonia mydas</i>	N26.80465 W80.03683	72
6/19/2008	<i>Chelonia mydas</i>	N26.80629 W80.03689	72
6/19/2008	<i>Chelonia mydas</i>	N26.80774 W80.03946	72
6/19/2008	<i>Chelonia mydas</i>	N26.80795 W80.03864	72
6/19/2008	<i>Chelonia mydas</i>	N26.80016 W80.03940	72
6/19/2008	<i>Chelonia mydas</i>	N26.80229 W80.03993	72

**Table 2 (Cont.)**

6/19/2008	<i>Chelonia mydas</i>	N26.80295 W80.04028	72
6/19/2008	<i>Chelonia mydas</i>	N26.80166 W80.04043	72
6/19/2008	<i>Chelonia mydas</i>	N26.80166 W80.04050	72
6/19/2008	<i>Chelonia mydas</i>	N26.80006 W80.04095	72
10/6/2008	<i>Chelonia mydas</i>	N26.80193 W80.04108	74
10/6/2008	<i>Caretta caretta</i>	N26.75818 W80.04366	75
10/6/2008	<i>Chelonia mydas</i>	N26.78773 W80.04432	76
10/6/2008	<i>Chelonia mydas</i>	N26.80072 W80.04090	76
10/6/2008	<i>Chelonia mydas</i>	N26.80210 W80.03942	76
10/6/2008	<i>Chelonia mydas</i>	N26.80295 W80.03853	76
10/7/2008	<i>Chelonia mydas</i>	N26.81924 W80.04336	82
2/23/2009	<i>Chelonia mydas</i>	N26.54736 W80.05203	87
2/24/2009	<i>Chelonia mydas</i>	N26.80267 W80.04061	97
2/24/2009	<i>Chelonia mydas</i>	N26.80308 W80.04141	97
2/25/2009	<i>Chelonia mydas</i>	N26.62843 W80.04453	100
5/11/2009	<i>Chelonia mydas</i>	N26.79969 W80.04024	101
5/11/2009	<i>Chelonia mydas</i>	N26.79965 W80.03986	101
5/11/2009	<i>Chelonia mydas</i>	N26.80050 W80.03860	101
5/11/2009	<i>Chelonia mydas</i>	N26.80110 W80.03890	101
5/11/2009	<i>Chelonia mydas</i>	N26.80161 W80.03986	101
5/11/2009	<i>Chelonia mydas</i>	N26.80233 W80.04079	101
5/11/2009	<i>Chelonia mydas</i>	N26.80267 W80.04124	101
5/11/2009	<i>Chelonia mydas</i>	N26.80408 W80.04072	101
5/12/2009	<i>Chelonia mydas</i>	N26.80049 W80.03939	102
5/12/2009	<i>Chelonia mydas</i>	N26.80141 W80.03876	102
5/12/2009	<i>Chelonia mydas</i>	N26.80238 W80.03903	102
5/12/2009	<i>Chelonia mydas</i>	N26.80264 W80.03926	102
5/12/2009	<i>Chelonia mydas</i>	N26.80288 W80.03959	102
5/12/2009	<i>Chelonia mydas</i>	N26.80312 W80.03984	102
5/12/2009	<i>Chelonia mydas</i>	N26.80551 W80.03879	102
5/12/2009	<i>Chelonia mydas</i>	N26.80002 W80.03842	103
5/12/2009	<i>Chelonia mydas</i>	N26.80098 W80.04083	104
5/12/2009	<i>Chelonia mydas</i>	N26.80086 W80.03837	105
5/12/2009	<i>Chelonia mydas</i>	N26.80307 W80.03890	107
5/12/2009	<i>Chelonia mydas</i>	N26.80161 W80.03572	107
5/12/2009	<i>Chelonia mydas</i>	N26.80199 W80.03576	107
5/12/2009	<i>Chelonia mydas</i>	N26.80229 W80.03636	108

**Table 2 (Cont.)**

5/12/2009	<i>Chelonia mydas</i>	N26.80102 W80.03704	108
5/12/2009	<i>Chelonia mydas</i>	N26.80085 W80.03699	108
5/12/2009	<i>Chelonia mydas</i>	N26.80044 W80.03752	108
5/12/2009	<i>Chelonia mydas</i>	N26.80171 W80.03648	108
5/12/2009	<i>Chelonia mydas</i>	N26.79809 W80.04407	109
5/13/2009	<i>Chelonia mydas</i>	N26.80083 W80.03878	110
5/13/2009	<i>Chelonia mydas</i>	N26.80272 W80.03974	110
5/13/2009	<i>Chelonia mydas</i>	N26.80341 W80.03983	110
5/13/2009	<i>Chelonia mydas</i>	N26.80371 W80.04002	110
5/13/2009	<i>Chelonia mydas</i>	N26.80266 W80.04003	110
5/13/2009	<i>Chelonia mydas</i>	N26.80299 W80.03984	110
5/13/2009	<i>Chelonia mydas</i>	N26.80381 W80.03949	110
5/13/2009	<i>Chelonia mydas</i>	N26.80386 W80.03947	110
5/13/2009	<i>Chelonia mydas</i>	N26.80413 W80.03938	110
5/13/2009	<i>Chelonia mydas</i>	N26.80573 W80.03927	110
5/13/2009	<i>Chelonia mydas</i>	N26.80265 W80.04009	110
5/13/2009	<i>Chelonia mydas</i>	N26.80242 W80.04009	110
5/13/2009	<i>Chelonia mydas</i>	N26.80221 W80.03997	110
5/13/2009	<i>Chelonia mydas</i>	N26.80047 W80.04046	111
5/13/2009	<i>Chelonia mydas</i>	N26.80862 W80.03986	111
5/13/2009	<i>Chelonia mydas</i>	N26.80892 W80.03898	111
5/13/2009	<i>Chelonia mydas</i>	N26.80859 W80.03939	111
5/13/2009	<i>Chelonia mydas</i>	N26.80668 W80.04111	111
5/13/2009	<i>Chelonia mydas</i>	N26.80605 W80.03944	111
5/13/2009	<i>Chelonia mydas</i>	N26.80546 W80.03942	111
5/13/2009	<i>Chelonia mydas</i>	N26.80446 W80.03933	111
5/13/2009	<i>Chelonia mydas</i>	N26.80415 W80.03938	111
5/13/2009	<i>Chelonia mydas</i>	N26.80416 W80.03939	111
5/13/2009	<i>Chelonia mydas</i>	N26.80390 W80.03948	111
5/13/2009	<i>Chelonia mydas</i>	N26.80326 W80.03970	111
5/13/2009	<i>Chelonia mydas</i>	N26.80196 W80.04291	112
5/13/2009	<i>Chelonia mydas</i>	N26.80146 W80.03903	112

**Table 3.** Non-transect sightings and locations of sea turtles in Lake Worth Lagoon, Palm Beach County, 2005 - 2009.

<b>DATE</b>	<b>SPECIES</b>	<b>LOCATION (LAT/LONG)</b>	<b>Captured?</b>
3/8/2005	<i>Chelonia mydas</i>	N26.79904 W80.05063	YES
3/9/2005	<i>Chelonia mydas</i>	N26.80294 W80.04350	YES
3/10/2005	<i>Chelonia mydas</i>	N26.80533 W80.04321	NO
3/10/2005	<i>Chelonia mydas</i>	N26.80236 W80.04294	NO
3/10/2005	<i>Chelonia mydas</i>	N26.80209 W80.04299	NO
3/10/2005	<i>Chelonia mydas</i>	N26.80198 W80.04263	NO
6/13/2005	<i>Caretta caretta</i>	N26.80427 W80.03947	YES
6/13/2005	<i>Chelonia mydas</i>	N26.80453 W80.03842	NO
6/13/2005	<i>Chelonia mydas</i>	N26.80089 W80.03872	NO
6/13/2005	<i>Chelonia mydas</i>	NET SET #8	YES
6/13/2005	<i>Chelonia mydas</i>	NET SET #8	YES
6/13/2005	<i>Chelonia mydas</i>	NET SET #8	YES
6/14/2005	<i>Chelonia mydas</i>	N26.80456 W80.03714	NO
6/14/2005	<i>Chelonia mydas</i>	N26.80525 W80.04095	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80232 W80.03724	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80243 W80.03703	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80166 W80.03700	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80195 W80.03756	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80219 W80.03750	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80132 W80.03745	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80236 W80.03738	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80130 W80.03675	NO
6/15/2005	<i>Chelonia mydas</i>	NET SET #11	YES
6/15/2005	<i>Chelonia mydas</i>	N26.80242 W80.03737	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80160 W80.03734	NO
6/15/2005	<i>Chelonia mydas</i>	N26.80212 W80.03765	NO
6/15/2005	<i>Chelonia mydas</i>	NET SET #12	YES
6/15/2005	<i>Chelonia mydas</i>	NET SET #12	YES
9/26/2005	<i>Chelonia mydas</i>	N26.80014 W80.04103	NO
9/26/2005	<i>Chelonia mydas</i>	N26.80195 W80.03730	NO
9/27/2005	<i>Chelonia mydas</i>	N26.80027 W80.04363	NO
9/27/2005	<i>Chelonia mydas</i>	N26.80126 W80.03824	NO
9/27/2005	<i>Chelonia mydas</i>	N26.80192 W80.04173	NO
9/27/2005	<i>Chelonia mydas</i>	N26.80217 W80.03732	NO
9/27/2005	<i>Chelonia mydas</i>	N26.80293 W80.03767	NO
9/28/2005	<i>Chelonia mydas</i>	N26.80034 W80.03969	NO

**Table 3 (Cont.)**

9/28/2005	<i>Chelonia mydas</i>	N26.79934 W80.04044	YES
9/28/2005	<i>Chelonia mydas</i>	N26.79860 W80.04042	YES
9/28/2005	<i>Chelonia mydas</i>	N26.79860 W80.04042	NO
9/28/2005	<i>Chelonia mydas</i>	N26.80087 W80.03868	NO
9/28/2005	<i>Chelonia mydas</i>	N26.80295 W80.04055	NO
9/28/2005	<i>Chelonia mydas</i>	N26.80296 W80.04055	NO
9/28/2005	<i>Chelonia mydas</i>	N26.80344 W80.04086	NO
1/9/2006	<i>Chelonia mydas</i>	NET SET #20	YES
1/9/2006	<i>Chelonia mydas</i>	N26.80400 W80.04050	NO
1/9/2006	<i>Chelonia mydas</i>	NET SET #20	YES
1/9/2006	<i>Chelonia mydas</i>	NET SET #20	YES
1/9/2006	<i>Chelonia mydas</i>	N26.80349 W80.03975	NO
1/9/2006	<i>Chelonia mydas</i>	NET SET #20	YES
1/9/2006	<i>Chelonia mydas</i>	NET SET #20	YES
1/10/2006	<i>Chelonia mydas</i>	NET SET #22	YES
1/10/2006	<i>Chelonia mydas</i>	NET SET #22	YES
1/10/2006	<i>Chelonia mydas</i>	NET SET #22	YES
1/10/2006	<i>Chelonia mydas</i>	NET SET #22	YES
1/10/2006	<i>Chelonia mydas</i>	N26.80432 W80.03938	NO
1/10/2006	<i>Chelonia mydas</i>	N26.80411 W80.03942	NO
1/10/2006	<i>Chelonia mydas</i>	N26.80442 W80.03882	NO
1/11/2006	<i>Chelonia mydas</i>	NET SET #24	YES
1/11/2006	<i>Chelonia mydas</i>	N26.80305 W80.04339	NO
3/20/2006	<i>Chelonia mydas</i>	N26.80399 W80.03820	NO
3/20/2006	<i>Chelonia mydas</i>	N26.80583 W80.04086	NO
3/20/2006	<i>Chelonia mydas</i>	N26.80548 W80.03945	NO
3/20/2006	<i>Chelonia mydas</i>	N26.80620 W80.03948	NO
3/20/2006	<i>Chelonia mydas</i>	N26.80628 W80.03967	NO
3/20/2006	<i>Chelonia mydas</i>	NET SET #28	YES
3/20/2006	<i>Chelonia mydas</i>	NET SET #28	YES
3/20/2006	<i>Chelonia mydas</i>	NET SET #28	YES
3/21/2006	<i>Chelonia mydas</i>	N26.80696 W80.03837	NO
3/22/2006	<i>Chelonia mydas</i>	NET SET #32	YES
3/23/2006	<i>Chelonia mydas</i>	NET SET #32	YES
6/26/2006	<i>Chelonia mydas</i>	N26.80190 W80.04309	NO
6/26/2006	<i>Chelonia mydas</i>	N26.80204 W80.04275	NO
6/26/2006	<i>Chelonia mydas</i>	NET SET #34	YES
6/26/2006	<i>Chelonia mydas</i>	NET SET #34	YES

**Table 3 (Cont.)**

6/28/2006	<i>Chelonia mydas</i>	N26.80858 W80.03818	NO
6/28/2006	<i>Chelonia mydas</i>	N26.80894 W80.03996	NO
6/28/2006	<i>Chelonia mydas</i>	N26.80901 W80.04003	NO
9/18/2006	<i>Chelonia mydas</i>	N26.80792 W80.04306	YES
9/18/2006	<i>Chelonia mydas</i>	N26.80540 W80.03856	YES
9/18/2006	<i>Chelonia mydas</i>	N26.80344 W80.03564	NO
9/18/2006	<i>Chelonia mydas</i>	N26.80593 W80.03783	NO
9/18/2006	<i>Chelonia mydas</i>	N26.80545 W80.04021	NO
9/18/2006	<i>Chelonia mydas</i>	N26.80744 W80.04352	NO
9/19/2006	<i>Chelonia mydas</i>	N26.80701 W80.04450	NO
9/19/2006	<i>Chelonia mydas</i>	NET SET #41	YES
9/19/2006	<i>Chelonia mydas</i>	NET SET #42	YES
12/5/2006	<i>Chelonia mydas</i>	NET SET #45	YES
12/5/2006	<i>Chelonia mydas</i>	NET SET #45	NO
12/5/2006	<i>Chelonia mydas</i>	NET SET #45	NO
12/6/2006	<i>Chelonia mydas</i>	N26.81194 W80.04628	NO
12/6/2006	<i>Chelonia mydas</i>	N26.83346 W80.05123	NO
12/6/2006	<i>Chelonia mydas</i>	N26.83238 W80.05086	NO
4/2/2007	<i>Chelonia mydas</i>	N26.80237 W80.04228	NO
4/3/2007	<i>Chelonia mydas</i>	NET SET #52	YES
4/3/2007	<i>Chelonia mydas</i>	N26.80283 W80.04014	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80281 W80.04007	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80290 W80.03985	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80307 W80.04037	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80202 W80.04087	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80210 W80.04061	NO
4/3/2007	<i>Chelonia mydas</i>	NET SET #52	YES
4/3/2007	<i>Chelonia mydas</i>	N26.80177 W80.04052	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80188 W80.04085	NO
4/3/2007	<i>Chelonia mydas</i>	N26.80204 W80.04080	NO
4/3/2007	<i>Chelonia mydas</i>	NET SET #52	YES
4/4/2007	<i>Chelonia mydas</i>	NET SET #53	YES
4/4/2007	<i>Chelonia mydas</i>	NET SET #53	YES
4/4/2007	<i>Chelonia mydas</i>	NET SET #53	YES
4/4/2007	<i>Chelonia mydas</i>	NET SET #53	YES
4/4/2007	<i>Chelonia mydas</i>	N26.80277 W80.04072	NO
6/16/2008	<i>Chelonia mydas</i>	N26.81083 W80.03783	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80859 W80.03955	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80851 W80.03965	NO

**Table 3 (Cont.)**

6/16/2008	<i>Chelonia mydas</i>	N26.80817 W80.04000	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80347 W80.04396	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80337 W80.04369	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80304 W80.04333	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80689 W80.03767	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80674 W80.03796	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80153 W80.04267	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80594 W80.03735	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80209 W80.04363	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80281 W80.04262	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80202 W80.04281	NO
6/16/2008	<i>Chelonia mydas</i>	N26.80278 W80.04351	NO
6/18/2008	<i>Chelonia mydas</i>	NET SET #56	NO
6/19/2008	<i>Chelonia mydas</i>	NET SET #57	NO
6/19/2008	<i>Chelonia mydas</i>	NET SET #57	NO
10/6/2008	<i>Chelonia mydas</i>	N26.80542 W80.03774	NO
10/6/2008	<i>Chelonia mydas</i>	N26.80631 W80.03709	NO
10/8/2008	<i>Caretta caretta</i>	N26.80212 W80.03991	NO
10/8/2008	<i>Chelonia mydas</i>	N26.80484 W80.03812	NO
2/25/2009	<i>Chelonia mydas</i>	N26.62972 W80.04575	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80386 W80.04076	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80352 W80.03969	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80222 W80.03960	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80188 W80.03921	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80181 W80.03918	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80144 W80.04080	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80179 W80.04045	YES
5/11/2009	<i>Chelonia mydas</i>	N26.80249 W80.03989	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80246 W80.03962	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80101 W80.03946	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80040 W80.03971	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80235 W80.04010	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80121 W80.03979	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80192 W80.03953	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80222 W80.03946	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80209 W80.03883	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80150 W80.03981	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80067 W80.04007	NO

**Table 3 (Cont.)**

5/11/2009	<i>Chelonia mydas</i>	N26.80000 W80.03928	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80128 W80.03858	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80132 W80.03999	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80200 W80.03947	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80309 W80.04046	YES
5/11/2009	<i>Chelonia mydas</i>	N26.80365 W80.04004	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80391 W80.03994	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80353 W80.04001	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80300 W80.03967	NO
5/11/2009	<i>Chelonia mydas</i>	N26.80397 W80.03987	NO
5/11/2009	<i>Chelonia mydas</i>	N26.79898 W80.04162	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80098 W80.03911	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80093 W80.04018	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80148 W80.03575	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80149 W80.03896	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80098 W80.03911	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80251 W80.03927	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80208 W80.03877	YES
5/12/2009	<i>Chelonia mydas</i>	N26.80201 W80.03921	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80023 W80.03943	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80180 W80.03818	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80191 W80.03885	YES
5/12/2009	<i>Chelonia mydas</i>	N26.80173 W80.03883	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80238 W80.03700	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80249 W80.03741	NO
5/12/2009	<i>Chelonia mydas</i>	N26.80268 W80.03732	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80241 W80.03976	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80220 W80.03977	NO
5/13/2009	<i>Chelonia mydas</i>	N26.79521 W80.04507	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80218 W80.03988	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80200 W80.03989	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80174 W80.03972	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80240 W80.03991	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80147 W80.03953	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80140 W80.03998	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80294 W80.03953	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80297 W80.03943	NO

**Table 3 (Cont.)**

5/13/2009	<i>Chelonia mydas</i>	N26.80217 W80.03996	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80345 W80.03959	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80333 W80.04088	NO
5/13/2009	<i>Chelonia mydas</i>	N26.80302 W80.04085	NO

**Table 4.** Tangle net set locations for sea turtle sampling, Lake Worth Lagoon, Palm Beach County, 2005 - 2009.

<b>DATE</b>	<b>NET SET NUMBER</b>	<b>LOCATION</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>
3/8/2005	1	East of Kelsey Park	N26.79975 W80.05065	N26.79822 W80.05081
3/9/2005	2	SE of Little Munyon Island	N26.80585 W80.03754	N26.80470 W80.03677
3/9/2005	3	SE of Little Munyon Island	N26.80182 W80.04260	N26.80297 W80.04361
3/10/2005	4	SE of Little Munyon Island	N26.80571 W80.04374	N26.80420 W80.04353
3/10/2005	5	SE of Little Munyon Island	N26.80334 W80.04325	N26.80198 W80.04263
3/10/2005	6	East of Little Munyon Island	N26.80726 W80.04403	N26.80599 W80.04421
6/13/2005	7	SE of Little Munyon Island	N26.80476 W80.03948	N26.80351 W80.04017
6/13/2005	8	SE of Little Munyon Island	N26.80125 W80.03861	N26.79989 W80.03873
6/14/2005	9	SE of Little Munyon Island	N26.80338 W80.03707	N26.80438 W80.03809
6/14/2005	10	SE of Little Munyon Island	N26.80493 W80.03817	N26.80456 W80.03663
6/15/2005	11	SE of Little Munyon Island	N26.80178 W80.03711	N26.80111 W80.03689
6/15/2005	12	SE of Little Munyon Island	N26.80225 W80.03770	N26.80118 W80.03684
9/26/2005	13	SE of Little Munyon Island	N26.80228 W80.03702	N26.80305 W80.03588
9/27/2005	14	North of Little Munyon Island	N26.80883 W80.04433	N26.80763 W80.04451
9/27/2005	15	North of Little Munyon Island	N26.80863 W80.04359	N26.80756 W80.04439
9/27/2005	16	SE of Little Munyon Island	N26.80255 W80.03728	N26.80167 W80.03857
9/27/2005	17	SE of Little Munyon Island	N26.80371 W80.03636	N26.80269 W80.03726
9/28/2005	18	SE of Little Munyon Island	N26.80008 W80.03893	N26.79907 W80.03978

**Table 4 (Cont.)**

<b>DATE</b>	<b>NET SET NUMBER</b>	<b>LOCATION</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>
9/28/2005	19	SE of Little Munyon Island	N26.79930 W80.04037	N26.79905 W80.04181
1/9/2006	20	SE of Little Munyon Island	N26.80438 W80.04083	N26.80349 W80.03975
1/10/2006	21	SE of Little Munyon Island	N26.80381 W80.03676	N26.80518 W80.03713
1/10/2006	22	SE of Little Munyon Island	N26.80435 W80.03986	N26.80366 W80.03845
1/11/2006	23	SE of Little Munyon Island	N26.80346 W80.03775	N26.80437 W80.03920
1/11/2006	24	SE of Little Munyon Island	N26.80434 W80.03733	N26.80402 W80.03878
1/11/2006	25	SE of Little Munyon Island	N26.80282 W80.04265	N26.80391 W80.04265
3/20/2006	26	SE of Little Munyon Island	N26.80404 W80.03876	N26.80266 W80.03894
3/20/2006	27	NE of Little Munyon Island	N26.80766 W80.04473	N26.80870 W80.04384
3/20/2006	28	East of Little Munyon Island	N26.80517 W80.03886	N26.80595 W80.04007
3/21/2006	29	SE of Little Munyon Island	N26.80554 W80.03897	N26.80663 W80.03953
3/21/2006	30	SE of Little Munyon Island	N26.80368 W80.03726	N26.80404 W80.03571
3/21/2006	31	SE of Little Munyon Island	N26.80381 W80.04344	N26.80493 W80.04267
3/22/2006	32	SE of Little Munyon Island	N26.80590 W80.04158	N26.80531 W80.04027
3/22/2006	33	SE of Little Munyon Island	N26.80520 W80.04145	N26.80387 W80.04164
6/26/2006	34	SE of Little Munyon Island	N26.80321 W80.03721	N26.80220 W80.03808
6/27/2006	35	North of Bird Island	N26.55499 W80.04497	N26.55354 W80.04517
6/27/2006	36	South of south Lake Worth Inlet	N26.54389 W80.04685	N26.54428 W80.04825
6/28/2006	37	East of Little Munyon Island	N26.80858 W80.03818	N26.80894 W80.03996

**Table 4 (Cont.)**

<b>DATE</b>	<b>NET SET NUMBER</b>	<b>LOCATION</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>
6/28/2006	38	SE of Little Munyon Island	N26.80361 W80.03875	N26.80373 W80.03721
9/18/2006	39	East of Little Munyon Island	N26.80511 W80.03741	N26.80567 W80.03881
9/18/2006	40	East of Little Munyon Island	N26.80782 W80.04204	N26.80760 W80.04358
9/19/2006	41	SE of Little Munyon Island	N26.79996 W80.04181	N26.79909 W80.04058
9/19/2006	42	East of Little Munyon Island	N26.80704 W80.04324	N26.80562 W80.04344
9/20/2006	43	East of Little Munyon Island	N26.80706 W80.04406	N26.80575 W80.04310
9/20/2006	44	East of Little Munyon Island	N26.80706 W80.04406	N26.80765 W80.04253
12/5/2006	45	W. of Macarthur Park	N26.83375 W80.05000	N26.83459 W80.05147
12/5/2006	46	W. of Macarthur Park	N26.83254 W80.05055	N26.83167 W80.04948
12/5/2006	47	East of Little Munyon Island	N26.80733 W80.03885	N26.80847 W80.03809
12/6/2006	48	East of Little Munyon Island	N26.80778 W80.04388	N26.80855 W80.04277
12/6/2006	49	W. of Macarthur Park	N26.83386 W80.04989	N26.83263 W80.05053
4/2/2007	50	SE of Little Munyon Island	N26.80302 W80.03809	N26.80192 W80.03835
4/2/2007	51	SE of Little Munyon Island	N26.79912 W80.04037	N26.79919 W80.03923
4/3/2007	52	SE of Little Munyon Island	N26.80244 W80.04084	N26.80325 W80.03997
4/4/2007	53	SE of Little Munyon Island	N26.80322 W80.03933	N26.80295 W80.04065
6/16/2008	54	SE of Little Munyon Island	N26.80355 W80.04414	N26.80277 W80.04352
6/16/2008	55	SE of Little Munyon Island	N26.80664 W80.03772	N26.80583 W80.03760

**Table 4 (Cont.)**

<b>DATE</b>	<b>NET SET NUMBER</b>	<b>LOCATION</b>	<b>START LOCATION (LAT/LONG)</b>	<b>END LOCATION (LAT/LONG)</b>
6/16/2008	56	Little Munyon Island	N26.80289 W80.04251	N26.80254 W80.04346
6/18/2008	57	Little Munyon Island	N26.80762 W80.03954	N26.80785 W80.03865
6/19/2008	58	Little Munyon Island	N26.80678 W80.03956	N26.80593 W80.03994
10/6/2008	59	Little Munyon Island	N26.80527 W80.03655	N26.80596 W80.03706
10/7/2008	60	Little Munyon Island	N26.80989 W80.03804	N26.80888 W80.03792
10/8/2008	61	Little Munyon Island	N26.80162 W80.03887	N26.80251 W80.03950
10/8/2008	62	Little Munyon Island	N26.80424 W80.03735	N26.80518 W80.03789
2/25/2009	63	Snook Island	N26.63014 W80.04528	N26.62934 W80.04569
2/25/2009	64	Snook Island	N26.54227 W80.05248	N26.54310 W80.05199
5/11/2009	65	Little Munyon Island	N26.80288 W80.04126	N26.80375 W80.04105
5/11/2009	66	Little Munyon Island	N26.80120 W80.03981	N26.80183 W80.04059
5/11/2009	67	Little Munyon Island	N26.80050 W80.03883	N26.80129 W80.03920
5/11/2009	68	Little Munyon Island	N26.80270 W80.03965	N26.80321 W80.04048
5/12/2009	69	Little Munyon Island	N26.80129 W80.03895	N26.80214 W80.03860
5/12/2009	70	Little Munyon Island	N26.80170 W80.03643	N26.80242 W80.03705
5/13/2009	71	Little Munyon Island	N26.80163 W80.03933	N26.80225 W80.03982
5/13/2009	72	Little Munyon Island	N26.80202 W80.03963	N26.80114 W80.03974
5/13/2009	73	Little Munyon Island	N26.80344 W80.03973	N26.80291 W80.04051

**Table 5.** Morphometric data collected on sea turtles captured in Lake Worth Lagoon, Palm Beach County, 2005-2009.

Species	Date	Tag Number	SSCL (cm)	CSCL (cm)	SMCW (cm)	CMCW (cm)	Weight (kg)	Lavaged?	Blood Taken?	FP	Comments
<i>Chelonia mydas</i>	3/8/05		40.5	43.5	31.1	37.0	8.0	No	No	No	S shaped deep gouge in carapace, apparent boat propeller wound. Sent to Marinelifelife Center in Juno Beach for rehabilitation.
<i>Chelonia mydas</i>	3/9/05	XXQ561/XXQ562	52.8	57.7	45.9	53.3	22.3	No	Yes	No	Leeches present in inguinal area.
<i>Chelonia mydas</i>	6/13/05	XXY522/XXY523	46.7	50.5	35.4	42.2	15.0	Yes	No	Yes	Biopsy taken for DNA.
<i>Caretta caretta</i>	6/13/05		72.0	77.6	60.7	72.0	38.0	No	No	No	Large, healing propeller wound to carapace. Sent to Miami Seaquarium for rehabilitation.
<i>Chelonia mydas</i>	6/13/05	XXY521	29.8	31.8	21.5	25.7	3.6	Yes	No	No	Biopsy taken for DNA.
<i>Chelonia mydas</i>	6/13/05	XXY524/XXY525	45.4	48.7	37.1	43.4	13.2	Yes	Yes	No	
<i>Chelonia mydas</i>	6/15/05	XXY516	53.7	57.1	44.0	51.0	21.4	Yes	Yes	Yes	Leeches and leech cocoons present.
<i>Chelonia mydas</i>	6/15/05	XXY518	54.9	58.8	44.3	52.8	27.4	Yes	Yes	Yes	Leeches on inguinal area. Tail missing distal tip and pigals appear truncated. 1 cm round scar at nape of neck.
<i>Chelonia mydas</i>	6/15/05	XXY519	35.0	37.7	28.0	32.7	6.0	Yes	Yes	No	Barnacle on tomium.
<i>Chelonia mydas</i>	6/15/05	XXY520	30.9	32.8	25.1	29.0	3.9	Yes	Yes	No	Fat. Very white plastron.
<i>Chelonia mydas</i>	9/28/05	XXY501	37.2	39.7	29.5	34.4	6.9	No	Yes	Yes	
<i>Chelonia mydas</i>	9/28/05	XXY502	37.6	40.0	31.3	35.9	7.3	No	Yes	No	Leeches and cocoons present, few large barnacles on carapace.

**Table 5 (cont.).**

Species	Date	Tag Number	SSCL (cm)	CSCL (cm)	SMCW (cm)	CMCW (cm)	Weight (kg)	Lavaged?	Blood Taken?	FP	Comments
<i>Chelonia mydas</i>	1/9/2006	XXY503	34.0	35.6	30.8	27.4	6.4	Yes	Yes	No	Few barnacles on carapace, 5 cm depression on 2nd left costal
<i>Chelonia mydas</i>	1/9/2006	XXY504/XXY505	50.0	53.5	46.9	40.5	17.9	Yes	No	No	Biopsy taken for DNA
<i>Chelonia mydas</i>	1/9/2006	XXY506	41.8	45.3	39.8	34.4	10.4	Yes	Yes	Yes	PAPILLOMAS. Leeches and cocoons present.
<i>Chelonia mydas</i>	1/9/2006	XXY522/XXY523	50.3	54.3	45.8	39.0	18.4	No	Yes	Yes	RECAPTURE, from 6/13/05. PAPILLOMAS.
<i>Chelonia mydas</i>	1/9/2006		41.3	45.6	39.4	33.5	9.4	Yes	No	Yes	PAPILLOMAS. Straight carapace measurements taken to the right of large tumor at nuchal notch. PIT tag only. Biopsy taken.
<i>Chelonia mydas</i>	1/10/2006		44.4	47.2	43.0	36.5	12.6	No	No	Yes	PAPILLOMAS. Biopsy taken. Turtle sent to rehabilitation due to large papillomas and embedded monofilament line on LFF.
<i>Chelonia mydas</i>	1/10/2006	XXY507/XXY508	38.8	40.6	39.1	33.2	8.3	No	Yes	Yes	PAPILLOMAS. Few barnacles, minor scalloping of rear flippers.
<i>Chelonia mydas</i>	1/10/2006		37.5	41.9	37.0	31.8	9.3	No	Yes	Yes	PAPILLOMAS. Large healed notch on posterior left carapace with associated hump on 4th vertebral. PIT tag only.
<i>Chelonia mydas</i>	1/10/2006	XXY509/XXY510	42.9	45.2	38.5	34.0	10.8	Yes	Yes	No	Few barnacles on carapace.
<i>Chelonia mydas</i>	1/11/2006	XXY511	33.4	35.0	28.9	26.4	4.7	No	Yes	No	Few barnacles on carapace.
<i>Chelonia mydas</i>	3/20/2006	XXY512/XXY513		52.0		44.9	16.7	No	Yes	Yes	PAPILLOMAS. No calipers. Leeches on FF and neck.

**Table 5 (cont.).**

Species	Date	Tag Number	SSCL (cm)	CSCL (cm)	SMCW (cm)	CMCW (cm)	Weight (kg)	Lavaged?	Blood Taken?	FP	Comments
<i>Chelonia mydas</i>	3/20/2006	XXY514/XXY515	43.3	45.8	34.2	39.5	12.6	No	Yes	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	3/20/2006	XXY517/XXY526	43.0	45.9	36.0	42.0	12.7	No	No	No	DNA sample obtained. Leeches and cocoons on all flippers. RRF injury.
<i>Chelonia mydas</i>	3/22/2006	XXY527	37.6	40.1	29.6	33.6	8.1	No	No	Yes	PAPILLOMAS. DNA sample obtained. Leeches and cocoons.
<i>Chelonia mydas</i>	3/22/2006	XXY528	44.9	47.6	35.7	42.4	12.9	No	Yes	Yes	PAPILLOMAS. Leeches and cocoons present.
<i>Chelonia mydas</i>	6/26/2006	XXY529/XXY530	41.0	43.7	33.0	36.8	8.8	Yes	Yes	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	6/26/2006	XXY531/XXY532	44.9	47.6	35.7	42.4	12.9	Yes	Yes	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	9/18/2006		41.8	44.0	33.6	38.2	11.2	No	No	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	9/18/2006	XXY533/XXY534	49.0	51.0	38.5	45.5	16.0	No	Yes	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	9/19/2006	XXY535/XXY536	47.7	50.0	36.8	43.0	33.5	Yes	Yes	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	9/19/2006		42.7	44.8	33.0	38.8	11.3	No	Yes	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	12/5/2006	XXY537/XXY538	39.5	42.2	33.4	37.3	8.1		No	Yes	PAPILLOMAS.
<i>Chelonia mydas</i>	4/3/2007	XXY539/XXY540	61.7	66.7	50.0	60.1	NA	No	No	No	DNA sample obtained
<i>Chelonia mydas</i>	4/3/2007	XXY541/XXY542	44.5	47.3	36.1	41.4	13.0	Yes	Yes	No	
<i>Chelonia mydas</i>	4/3/2007	XXY543/XXY544	55.7	59.3	44.3	52.2	24.6	No	Yes	No	

**Table 5 (cont.).**

Species	Date	Tag Number	SSCL (cm)	CSCL (cm)	SMCW (cm)	CMCW (cm)	Weight (kg)	Lavaged?	Blood Taken?	FP	Comments
<i>Chelonia mydas</i>	4/4/2007	XXY545/XXY546	59.6	64.7	48.6	57.0	29.3	Yes	No	No	DNA sample obtained
<i>Chelonia mydas</i>	4/4/2007	XXY547/XXY548	35.8	38.6	29.1	33.0	6.5	Yes	Yes	Yes	PAPILLOMAS
<i>Chelonia mydas</i>	4/4/2007	XXY549/XXY552	32.3	34.5	25.0	29.6	5.0	Yes	Yes	No	
<i>Chelonia mydas</i>	4/4/2007	XXY553/XXY554	43.3	45.6	33.0	39.5	11.3	Yes	Yes	Yes	PAPILLOMAS
<i>Chelonia mydas</i>	6/16/2008	XXY555/XXY556	53.8	57.7	42.9	49.6	21.5	Yes	Yes	Yes	PAPILLOMAS
<i>Chelonia mydas</i>	6/18/2008	XXY557/XXY558	39.4	41.7	30.4	36.8	8.0	Yes	Yes	No	
<i>Chelonia mydas</i>	6/19/2008	XXY559/XXY560	48.0	51.0	35.9	44.0	14.7	Yes	Yes	No	
<i>Chelonia mydas</i>	5/11/2009	XXY562/XXY563	45.5	48.6	36.4	42.6	13.8	Yes	Yes	No	Scar tissue in corner of right eye
<i>Chelonia mydas</i>	5/11/2009	XXY536/XXY561	57.4	60.3	44.9	52.8	25.7	Yes	No	No	RECAPTURE, from 9/19/06. Grew 9.7 cm SCL and regressed 12 tumors
<i>Chelonia mydas</i>	5/12/2009	XXY565	32.4	33.8	26.8	29.6	4.2	No	No	No	Biopsy taken for DNA.
<i>Chelonia mydas</i>	5/12/2009	XXY566/XXY567	57.9	62.1	45.0	55.1	28.5	Yes	Yes	No	RECAPTURE, from 6/15/05. Grew 22.9 cm SCL. New tags added.
<i>Chelonia mydas</i>	5/12/2009	N/A	35.0	37.2	28.5	31.9	5.0	No	No	Yes	PAPILLOMAS, severe and occluding eyes. Sent to rehabilitation at Clearwater Aquarium after consultation with FFWCC
<i>Chelonia mydas</i>	8/24/2009	XXY568/XXY569	36.1	38.3	28.5	31.7	6.3	Yes	No		Biopsy taken for DNA.

**Table 5 (cont.).**

Species	Date	Tag Number	SSCL (cm)	CSCL (cm)	SMCW (cm)	CMCW (cm)	Weight (kg)	Lavaged?	Blood Taken?	FP	Comments
<i>Chelonia mydas</i>	8/24/2009	N/A	37.7	40.3	30.6	37.1	6.0	No	No	Yes	PAPILLOMAS, severe and ulcerated. Remanded to FWC for transport to rehabilitation facility. Biopsy taken for DNA
<i>Chelonia mydas</i>	8/25/2009	XXY572	28.6	30.0	22.6	25.5	3.2	No	No	No	Broken and healed distal tip of RFF. Biopsy taken for DNA.
<i>Chelonia mydas</i>	8/25/2009	XXY573	29.2	31.2	24.6	28.1	3.8	No	No	Yes	Biopsy taken for DNA
<i>Chelonia mydas</i>	8/25/2009	N/A	40.9	43.9	32.3	36.2	8.5	No	No	Yes	PAPILLOMAS, severe and ulcerated. Remanded to FWC for transport to rehabilitation facility. Biopsy taken for DNA.
<i>Chelonia mydas</i>	8/25/2009	XXY568/XXY569	36.1	38.3	28.5	31.7	6.3	No	No	No	RECAPTURE, from 8/24/09.
<i>Chelonia mydas</i>	8/25/2009	XXY570/XXY571	52.0	56.5	41.7	49.2	19.5	Yes	No	No	Posterior spinal bulge present, truncated movement of rear flippers. Biopsy taken for DNA.
<i>Chelonia mydas</i>	8/25/2009	N/A	44.6	48.2	35.0	40.7	8.5	No	No	Yes	PAPILLOMAS, severe. Remanded to FWC for transport to rehabilitation facility. Biopsy taken for DNA.
<i>Chelonia mydas</i>	8/26/2009	XXY574/XXY576	32.1	34.4	26.0	30.1	4.4	Yes	No	No	Biopsy taken for DNA.