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"A STUDY OF THE POPULATION ECOLOGY OF IN-WATER MARINE TURTLE POPULATIONS ON THE EAST-CENTRAL FLORIDA COAST FROM 1982-96"

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INTRODUCTION

The Recovery Plan for the U.S. Population of the Atlantic Green Turtle (NMFS and USFWS, 1991) states flatly that, "The foremost problem in management and conservation of sea turtles is the lack of basic biological information.....To effectively enhance survival, the most critical information needed is when, where, and in what abundance turtles may occur over the various stages of their life cycles." Marine turtles have been studied intensively on nesting beaches for at least the last three decades but relatively little is known about the lengthy portion of their life history which occurs from the time they leave the nesting beach as hatchlings until they return as adults to reproduce. In the southeastern U.S. we do know that aggregations of subadult loggerheads migrate northward during the spring to the rich foraging grounds of Chesapeake Bay, Virginia (Lutcavage and Musick, 1985; Keinath et al., 1987) and Pamlico Sound, North Carolina (Crouse, 1988; Epperly et al., 1995) and then migrate southward as the waters cool in the fall. Also, subadult loggerheads are seasonally present in near-shore Georgia waters (Hillestad et al., 1978) and year-round in Florida at Port Canaveral (Ogren and McVea, 1982; Henwood, 1987), the northern region of the Indian River Lagoon System including Mosquito Lagoon (Ehrhart and Yoder, 1976; Ehrhart and Yoder, 1978; Ehrhart, 1980; Mendonca and Ehrhart, 1982; Ehrhart, 1983; Ehrhart, 1984; Witherington and Ehrhart, 1989; Schroeder et al., 1990), the central part of the Indian River system (Ehrhart, 1985; Ehrhart and Witherington, 1986; Luepschen and Ehrhart, 1987; Ehrhart and Redfoot, 1992; Redfoot et al., 1992), the near-shore waters off Hutchinson Island (Ernest et al., 1989) and in the Florida Keys (Wells and Bellmund, 1990).

Juvenile green turtles are also known to use so-called "developmental habitats" in the Southeast. The largest aggregations reside in Florida waters but the species occurs in North Carolina (Crouse, 1988; Epperly et al., 1995), Virginia (Barnard et al.,

1989) and even New York (Morreale et al., 1992) in the warmer months of the year. In Florida, green turtles are known to occur year-round in Mosquito Lagoon (Ehrhart, 1980; Mendonca and Ehrhart, 1982; Ehrhart, 1983; Ehrhart, 1984; Witherington and Ehrhart, 1989; Schroeder et al., 1990); in the central part of the Indian River Lagoon system at Sebastian (Ehrhart, 1985; Ehrhart and Witherington, 1986; Luepschen and Ehrhart, 1987; Ehrhart and Redfoot, 1992; Redfoot et al., 1992); over near-shore worm reefs off Indian River County (Guseman and Ehrhart, 1990; Ehrhart et al., 1991; Guseman and Ehrhart, 1991); in the near-shore waters off Hutchinson Island (Ernest et al., 1989); over limestone reefs off Broward County (Wershoven and Wershoven, 1989); in the Florida Keys (Wells and Bellmund, 1990); and in Florida Bay (B.A. Schroeder, pers. com.). The species is more seasonal in occurrence on the Florida Gulf coast in the region between Crystal River and Waccasassa Bay and in Laguna Madre on the Texas coast (Shaver, 1990).

The aggregations of loggerheads and green turtles that dwell in Florida's Indian River Lagoon system and over the worm reefs off Indian River County, noted above, have been under study by the UCF Marine Turtle Research Group continuously since 1982 and 1989, but the level of effort devoted to that research has varied greatly as a result of the instability of funding support. The intensity of the work reached its lowest ebb in the early 1990's, as equipment deteriorated, the cost of marine operations rose and funding support dwindled. Nevertheless, continuity was maintained, especially during the summers and one of the study's most important attributes, its long-term nature, was preserved. There are few, if any, other populations of immature marine turtles that have been under continuous study for as long as the loggerheads and green turtles of the central region of the Indian River Lagoon. The stability of the methodology and the assiduous attention to documentation of catch-per-unit-effort over the long-term impart usefulness of the results that is essentially unique. The work

with the reef green turtle population, although of shorter duration, is also essentially one-of-a-kind. The funding supplied by the National Marine Fisheries Service to support field work from June 1995 through May of 1996 provided for the revitalization and enhancement of this long-term research endeavor and for the opportunity to gather otherwise-unattainable evidence of an important trend in the green turtle population. Details will be given below but suffice it to say here that unprecedented catch rates (CPUE) were seen throughout the year, but especially in the winter and spring of 1996 (Tables 1, 2, 3, 4). To the extent that this measure of relative density relates to real population dynamics, a genuine increase in the stock of immature green turtles is implied. It is possible that this surge in numbers was a temporary aberration on an otherwise flat trend line but it is certainly true that there were a lot of juvenile green turtles in the Indian River in early 1996.

In this study, effort was expressed as kilometer-hours of net deployment and "effort targets" were established for each season in the Indian River Lagoon and for the summer on the near-shore reefs. The effort targets for the fall (15 km-hrs), winter (15 km-hrs) and spring (15 km-hrs) were all met or exceeded (Tables 6, 7, and 8). Effort in the summer of 1995 (38.78 km-hrs) reached 97% of the 40 km-hr target (Table 5). Regarding the reef study area, however, the unusually large number of tropical storms and hurricanes of August, 1995, precluded attainment of the effort target. The Indian River County coast is a high energy shoreline and it was understood from the outset that our ability to work there depended entirely on the weather and ocean conditions. We could not have predicted such an active tropical weather season as that of summer, 1995 and most of the bad weather occurred in August, when we were expecting to expend about 33% of the netting effort. It began with Hurricane Erin on the night of 1/2 August; that was followed by Hurricane Felix, Tropical Storm Jerry and Hurricane Luis. Those storms and several others that stayed farther out in the Atlantic

caused heavy surf advisories and precluded any netting on the reef throughout the month of August. As a result the effort target for the reef was missed by a large margin (Table 9). However, the netting on the reef began somewhat earlier than in most years (9 June) and continued throughout June and July, when conditions were satisfactory. Capture rates were generally good during that period and the 37 green turtles and one loggerhead (Table 10) produced an unusually large CPUE relative to the rate observed in the lagoon that summer.

Although weather and ocean conditions imposed impediments to the research in the summer, the weather was generally good throughout the rest of the year, allowing us to attain some truly remarkable results and to meet all of the following, original objectives of the study.

1. To elucidate long-term trends in relative population density of loggerheads and green turtles in the Indian River Lagoon system through seasonal live capture in tangle nets .
2. To provide an index to long-term relative density of green turtles dwelling over near-shore worm reefs through live capture in the summer.
3. To quantify the size and age structures of lagoon loggerhead and green turtle populations and of the reef-dwelling green turtle assemblage and to interpret those data with reference to similar data that go back to 1982 in the lagoon and 1989 on the reef.
4. To gain an understanding of the sex ratios of lagoon loggerhead and green turtle populations and of the reef green turtle assemblage.
5. To further our understanding of the ecologic geography and population genetics of these loggerhead and green turtle assemblages.
6. To further our understanding of the foraging ecology of reef and lagoon green turtles.

7. To monitor the prevalence of fibropapillomatosis in two wild populations of green turtles on the East Florida coast.

8. To compare and contrast all of the biological attributes discussed above for lagoon and reef dwelling green turtles.

METHODS AND STUDY AREAS

Turtles are captured using large mesh tangle nets. The nets are approximately three meters deep with a 40 cm stretch (knot to knot) mesh size. They are hung from a braided polyethylene top line that is suspended at the surface by floats attached at intervals during deployment. The bottom line is braided polyethylene with a continuous lead core. In the lagoon 192 to 455 meters of net is set depending on the netting site and weather conditions. Over the Sabellariid worm reefs 220 meters of net is set.

The nets are deployed in the lagoon during daylight hours for varying lengths of time and are constantly tended using one or more small boats (15, 17, and/or 19 foot Boston Whalers). The net is constantly checked by pulling hand over hand along the top line from the bow of a small boat. For the first four years of the lagoon study netting was conducted from May into September. Starting in the fall of 1985 the nets were deployed during all seasons, though with reduced effort during the academic year.

Surf conditions will only allow the net to be set over the reefs during the summer months, and even then there are many days when the surf conditions are too rough to work. Usually by early afternoon the rising sea breeze or thunderstorms force netting operations over the reefs to stop. When conditions do allow the net to be set, relays of swimmers equipped with mask, snorkel, and fins continuously patrol its length.

When a turtle becomes entangled it is immediately brought aboard and freed from the net. Measurements are made of its standard carapace length (SCL), total

carapace length, straight-line carapace width, head width, and body depth using forestry calipers. Curved-line carapace length, curved-line carapace width, plastron length, the distance from the posterior tip of the plastron to the vent and from the posterior tip of the plastron to tip of tail are measured using a cloth tape. A spring scale is used to obtain weight.

The animal is double tagged externally. At present we are applying an inconel tag to one front flipper and a plastic roto-tag in the other front flipper, both supplied by the Caribbean Conservation Corporation. In the past we have variously used monel tags, inconel tags and combinations of monel and inconel tags. Starting in July of 1995 Trovan type PIT (passive internal transponder) tags were inserted subcutaneously into the right front flipper proximal to the wrist joint of each initial capture. The turtle is photographed and released near its site of capture.

From June, 1995 through May, 1996 samples of food items were obtained from a sub sample of juvenile green turtles captured in the lagoon and over the reefs by lavage of the esophagus. Using a modification of the methods described by Balazs (1980) and Forbes and Limpus (1993), a plastic tube lubricated with vegetable oil was carefully inserted through the mouth of the turtle down the length of the esophagus. The size of the tube varied with the size of the turtle being lavaged. Sea water was then pumped through the tube using a veterinarian's double action stomach pump as the tube was gently moved up and down the length of the esophagus. Food items flushed out of the esophagus and mouth were collected in a five gallon plastic bucket. The collected food items were then preserved in a four percent formalin-seawater solution for later analysis. The lavage procedure was reviewed by a licensed veterinarian and a marine turtle researcher experienced with lavage before being used in this study.

Data have been collected in two study areas. One is in the Indian River Lagoon

System (IRLS) which extends 260 kilometers along the east coast of Florida from Ponce DeLeon Inlet to Jupiter inlet (Figure 1). Since May of 1982 tangle nets have been deployed at nine localities in the central region of the IRLS between the town of Indialantic, Brevard County (28° 05' N, 80° 34' W) and the town of Wabasso, Indian River County (27° 46' N, 80° 24' W). The great majority of the netting effort has been expended in a large embayment 3 km south of Sebastian Inlet, unnamed on maps but known as South Bay by local commercial fishermen and residents, at a site within 1 km of the east shore (27° 49.' N, 80° 27' W). The central region of the IRLS averages 1.5 meters in depth and exceeds 3 meters only in dredged channels and basins. The portion of the central region included in the study area is the relatively undeveloped eastern side of the lagoon. The undisturbed areas of shoreline are lined with red mangroves (Rhizophora wrightii). Sea grass beds composed primarily of manatee grass (Syringodium filiforme) and shoal grass (Halodule wrightii) are found in areas less than one meter deep. The sea grass Halophila decepiens is also found in deeper waters next to the sea grass beds and in areas of drift algae. Large areas of drift algae, including Gracilaria sp., Acanthoptera specifica, Bryothamnion seaforthii, Hypnea sp., and Solieria filiformis can be found in deeper waters adjacent to the grass beds.

The other study area is in the system of Sabellariid worm reefs that extend along the Atlantic Coast of Florida from Cape Canaveral southward to Biscayne Bay. The reefs are formed by a species of polychaete worms (Phragmatopoma lapidosa) in the Sabellariid family. These worms cement sand grains and fragments of shells into tubes; the aggregations of which form the reefs. These reefs extend from the intertidal zone to a depth of approximately 10 meters in a series of linear structures parallel to the shoreline. The reefs provide a substrate for the growth of at least 109 species of benthic marine algae; primarily red algae (Rhodophyta), but also green (Chlorophyta),

brown (Phaeophyta), and blue-green (Cyanophyta) algae (Juett et al., 1976).

Although exploratory net sets have been made as far south as Vero Beach, Indian River Co., most of the netting effort occurred between 27° 50' N, 80° 26' W and 27° 47' N, 80° 24' W along the northern coast of Indian River Co. The tangle net are usually set in water depths of less than 3.5 meters, within 150 meters of the shore.

Determining the abundance of marine turtles by a direct visual census is at best difficult, and in many of their habitats impossible. The latter is the case with both the Indian River Lagoon System (IRLS) and Sabellariid worm reef marine turtle populations. Instead, catch per unit effort (CPUE) data can be used as an index of relative abundance (Ricker, 1958). The unit of effort for this study was standardized as the net kilometer-hour, i.e. one kilometer of net in the water (net soak) for one hour. CPUE was calculated using the formula C/(L x T) where C = the number of captures, L = the length of net used, and T = the amount of net soak time.

Netting operations have been conducted at several sites within the central region of the IRLS, however most of the effort has been expended in the large embayment on the east side of the lagoon immediately south of Sebastian Inlet. Only CPUE data obtained at this site are presented in this report.

The IRLS loggerhead and green turtle CPUE data were analyzed to determine if there was an increase or decrease in relative abundance of either species over the 14 year length of the study, and if cyclic fluctuations in their relative abundance occurred from season to season. To test the null hypothesis that there were no significant changes in the relative abundance of either species over the length of the study, CPUE data from the early years (1983-85) mid years (1988-90) and latter years (1993-95) were statistically analyzed. Because netting operations have been consistently conducted during the months of June and July each year from 1983 through 1995, while netting during other months was not conducted as consistently over the years

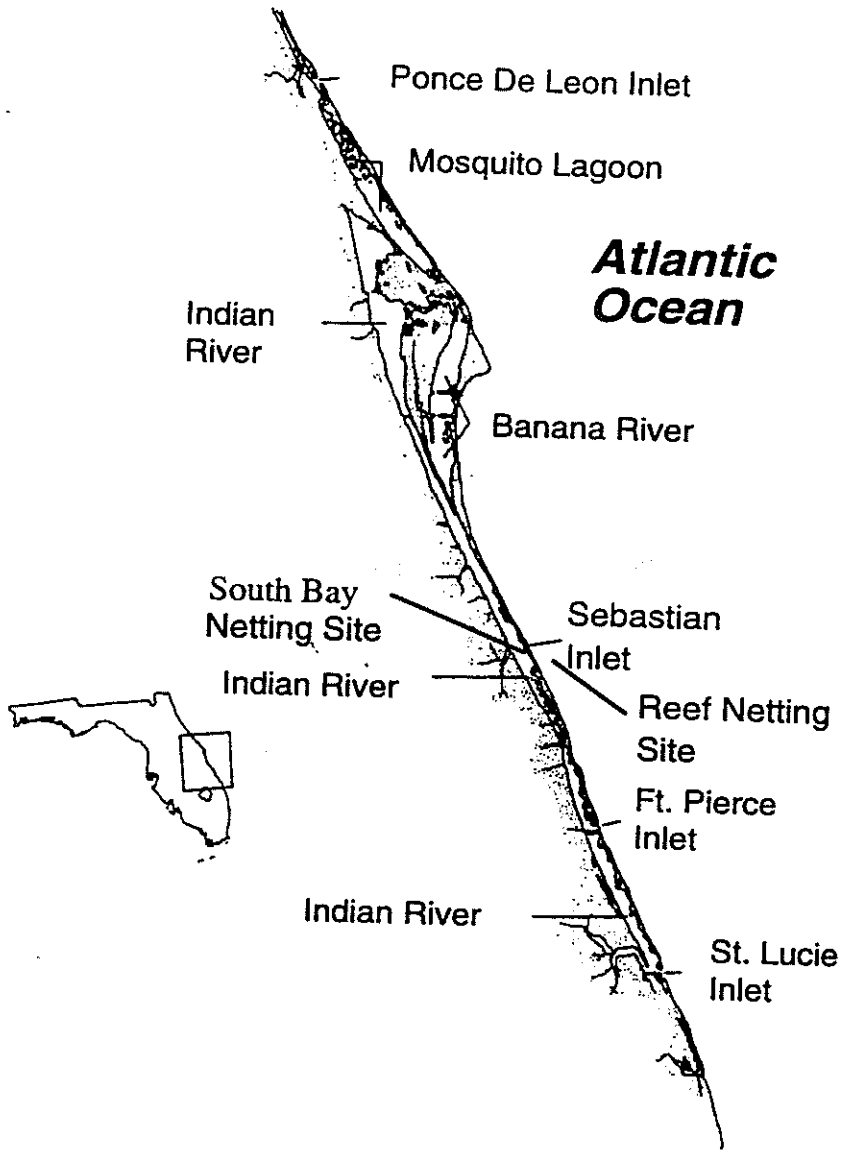


Figure 1. The Indian River Lagoon System including the locations of the primary lagoon and reef netting sites.

due to time and budget constraints, only the data from June and July were used to construct data sets for each span of years. This also minimized the possible influence of environmental variables such as water temperature, hours of daylight and food availability.

To quantify within-year cyclic fluctuations, CPUE data obtained for each species during the Winter (December 22 to March 21), Spring (March 22 to June 21), Summer (June 22 to September 21), and Fall (September 22 to December 21) over the length of the study were compiled and statistically compared to test the null hypothesis that there are no significant differences in relative abundance from one season to another.

Because netting over the Sabellariid reefs is generally only feasible during the months of June, July, and August, it was not possible to look for within year cyclic fluctuations. The Sabellariid worm reef CPUE data obtained each of the seven years of the reef study were statistically analyzed to test the null hypothesis that there were no significant changes in the relative abundance of green turtles over the span of the study. Because only six of the 202 Sabellariid worm reef captures were loggerheads (< 3 %) only the green turtle CPUE data was examined.

Due to the non-normal distribution of CPUE data, the Kruskal-Wallis nonparametric ANOVA test was used. When there were significant differences between samples, Dunn's multiple comparison test was used to determine which of the samples were significantly different from others in the data set. All statistical tests were performed using InStat for the Macintosh, published by GraphPad Software, Inc.

Blood samples were taken within the first few minutes after capture. Blood was drawn from the cervical sinus into a sterile 10 ml vacutainer using a 20 or 22 gauge needle. From this whole blood, a variety of samples was made for multiple analyses: 1 ml was pipetted into 9 ml of lysis buffer and gently inverted several times for DNA analysis; .5-1 ml was pipetted into a 3 ml heparinized vacutainer tube, inverted several

times and placed on ice for NMFS analysis; 1 drop on each of two slides to make smears for blood count analysis (CBC) also for NMFS. The remaining whole blood was then put into a new vacutainer with lithium heparin additive, and kept on ice until it could be centrifuged. Upon return to the lab, samples were centrifuged for approximately 15 minutes using an Adams Physicians Compact Centrifuge. Plasma was drawn by pipette to make 3 equal samples; one for NMFS, one for testosterone analysis, and one to be used in the ongoing fibropapilloma research at the University of Florida. These samples were kept frozen until ready to be shipped in dry ice.

Shortly after the beginning of this project we were contacted by biologists at the NMFS Charleston Laboratory, inquiring about the possibility of our providing various kinds of blood samples from loggerheads and green turtles. They were interested in obtaining samples from turtles in various habitats and seasons in order to compile a database of baseline data on blood biochemical parameters. These are the result of full clinical work-ups (blood chemistry and CBC). Blood chemistry analysis includes but is not limited to sugars, urea, amino acids, various elements such as sodium, calcium, phosphorus; several enzymes, protein and cholesterol. CBC analysis covers the various red and white cells as well as blood parasites. NMFS samples were packaged in special containers and picked up by courier.

It should be clarified here that collecting samples for NMFS was for a relatively short time; we routinely sample only for DNA and 2 vials of plasma. Any recaptures of previously sampled turtles were subsequently sampled for only 1 vial of plasma for immunological studies, to provide an "over time" analysis. As of May 1996, 121 samples from the lagoon and 35 from the reef have been taken for DNA analysis; we have initial results for the first 10. From the lagoon, we have collected 325 samples for fibropapilloma research and 222 for testosterone analysis. The last 151 lagoon samples are expected to be shipped this month. Ninety-five reef samples have been

taken for fibropapilloma research; 35 for testosterone analysis. A summary of samples taken from lagoon and reef turtles can be found in Tables 11 and 12.

In order to conduct a preliminary assay of genetic structure among juvenile green turtles inhabiting the reef and lagoon study areas, mitochondrial DNA (mtDNA) control regions were analyzed for ten turtles (5 reef, 5 lagoon). Total genomic DNA was isolated by a standard technique modified from Hillis et al. (1990). Control regions were amplified with PCR methodology using green turtle-specific primers (Allard et al., 1994) and purified. Single-stranded sequencing reactions using dye-labeled dideoxynucleotides were performed and the labeled products were sequenced with an automated DNA sequencer. Sequences from each individual were aligned by computer to known mtDNA control region sequences (haplotypes) representing green turtle nesting rookeries throughout the Caribbean Sea and Atlantic Ocean (Encalada et al., 1996). DNA analysis was conducted at the BEECS Genetics Analysis Core, University of Florida, Gainesville.

RESULTS AND DISCUSSION

Species Composition

Lagoon

From 19 May, 1982 through 31 May, 1996, 1,708 marine turtles were captured in the central region of the IRLS (Figure 2). Of those, one was an adult male green turtle and 1,061 were juvenile green turtles (907 initial captures, and 154 recaptures). This statement is based on the comparison of SCL measurements obtained from the lagoon green turtles to those from 221 green turtles nesting on the adjacent central and south Brevard County beaches. The largest lagoon green turtle SCL, other than that of the adult male, was 72.4 cm while the smallest SCL measurement obtained from a nesting green turtle was 83.2 cm.

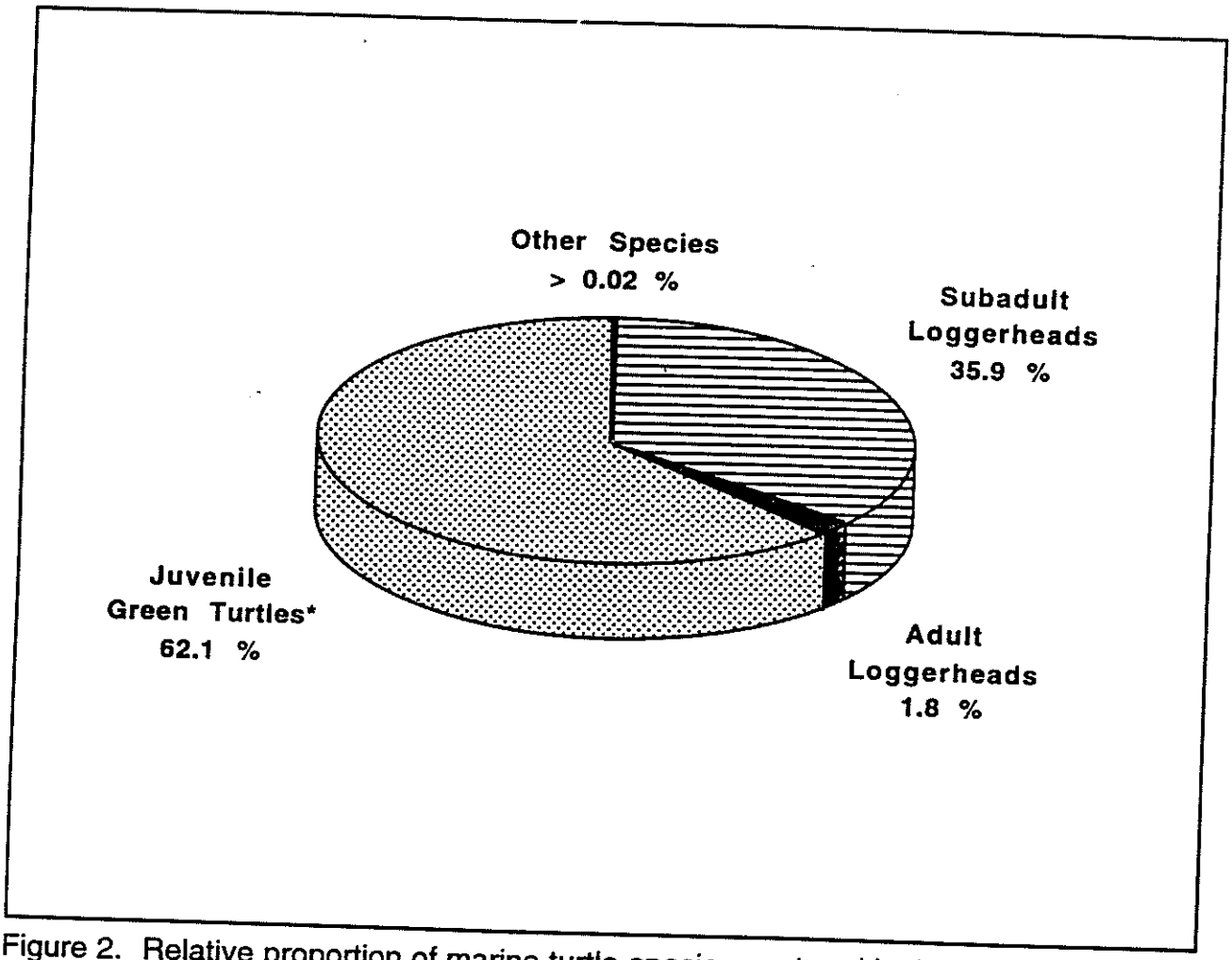


Figure 2. Relative proportion of marine turtle species captured in the central region of the Indian River Lagoon System, Florida, May, 1982 through May, 1996. (* includes one adult male).

Loggerheads accounted for 643 captures, of which 612 were subadults (430 initial captures and 182 recaptures), and 31 were adults. Because the the age and size at which loggerheads become sexually mature is variable (Limpus, 1985 in Dodd, 1988), it was difficult to determine which of the captures in the 70.0 to 89.9 cm SCL range were large subadults still utilizing the lagoon as developmental habitat and which were small adult females that had entered the lagoon during the nesting season or were over-wintering there. The lagoon loggerheads whose SCL was 90.0 cm or greater were assumed to be adult females. Three individuals were obviously adult males based on their long tail lengths and carapace lengths (Dodd, 1988). Eighty-three cm was chosen as the cut off point between subadult and adult females. This was based on the range of SCL measurements obtained from 1,207 loggerheads nesting on the adjacent central and south Brevard County beaches. While one third of the nesting females had a SCL less than 90.0 cm and ten percent had an SCL less than 85.0 cm, only four percent were less than 83.0 cm. Because the overall proportion of nesting females less than 83.0 cm SCL was so low, it was felt that few if any of the lagoon captures would be mistakenly classified as a subadult. It is possible that, of the nine lagoon loggerheads whose SCLs ranged from 83.0 to 89.9 cm, a few may have been subadults and were mistakenly classified as adult females. The 83.0 cm cutoff point is between the 85.0 cm SCL used by Ernest et al. (1989) for loggerheads captured at Hutchinson Island, Fl. and the 83.0 cm total carapace length used by Henwood (1987) for loggerheads captured in the Port Canaveral, Fl. ship channel (Henwood's 83.0 cm TCL converted to 81.5 ± 1.1 cm SCL using a 95% prediction interval based on regression analysis of the TCLs and SCLs obtained from the lagoon loggerheads).

Fourteen of the subadult loggerheads were noted as being either a maturing male or possibly a maturing male based on relative tail length. Six individuals with SCL's

between 63.5 and 72.0 cm were tentatively described as "may be" or "seems to be" a maturing male. The nine that had SCL's between 74.1 and 80.9 cm were more emphatically described as "probably" a male or "definitely a maturing male but not as yet fully mature". One of these was captured four times over seven months. During that period his SCL increased by 1.9 cm (from 79.1 to 81.0) while his plastron to tip of tail measurement increased 3.6 cm (from 22.5 to 26.1). Only one of the nine lagoon loggerheads in the 83.0 to 89.9 cm SCL range was noted as being definitely a male (an 88.7 cm SCL individual).

Two Kemp's ridley turtles (Lepidochelys kempi), and one hawksbill (Eretmochelys imbricata) were also caught in the lagoon (Table 13).

Although not a result of this study, two leatherbacks have been recorded in the central region of the lagoon system. Caldwell (1958) reported that an immature leatherback was killed in the vicinity of Sebastian Inlet during the summer of 1954. Another immature leatherback (130.8 cm SCL) was found tangled in a crab trap line on 13 July ,1987 off Hog Point in the lagoon (27° 59'N, 80° 32'W), approximately 12 km north of Sebastian Inlet (unpbl. data).

The higher proportion of green turtle captures is consistent with findings in the northern region of the lagoon system. Though Ehrhart (1983) reported 89 loggerheads and only 11 green turtles were captured in the northern region with tangle nets, he also reported 116 loggerheads and 188 green turtles recovered during hypothermic stunning events in 1977 and 1981. Of the 150 marine turtles recovered in the 1985 hypothermic stunning event 95.3% were juvenile green turtles and 4.7% were subadult loggerheads (Witherington and Ehrhart, 1989). Schroeder et al. (1990) reported the recovery of 246 green turtles (96.1%) and 10 loggerheads during the 1989 hypothermic stunning event in that same region.

To suggest that the developmental habitat provided by the central and northern

regions of the lagoon system is primarily used by green turtles and is of only secondary importance to loggerheads would be misleading. The high proportion of green turtle captures in the central region of the Indian River Lagoon may be an artifact of the location of the primary netting site, which is in a large area of drift algae. The preliminary results of the feeding ecology study have shown that green turtles are feeding on the drift algae almost exclusively rather than on seagrasses in the adjacent beds as previously assumed. In other words, the nets had unknowingly been deployed in prime green turtle foraging habitat. Also, while loggerheads are probably foraging on invertebrates in the drift algae, they are known to be attracted to channels (Byles, 1988) and may be more abundant around the intracoastal waterway and the Sebastian Inlet channel. Witherington and Ehrhart (1989) suggested that the proportionately larger number of green turtles collected during hypothermic stunning events in the northern region of the Indian River Lagoon system may be due to a greater susceptibility to the effects of reduced water temperature because of their physiology and smaller body size. At any rate, the results of this study and those in the northern region have demonstrated is that these areas of the lagoon system are prime developmental habitat for both green turtles and loggerheads.

Reef

From 27 June, 1989 to 11 July, 1995, 195 juvenile green turtles (190 initial captures, and 5 recaptures), five subadult loggerheads (all initial captures), and one adult female loggerhead were captured over the Sabellariid worm reefs. A juvenile hawksbill turtle was caught with a dip net as it swam along the deployed tangle net.

As can be seen by an examination of Figure 3, only 3 % of reef captures were loggerheads whereas almost 38 % of the lagoon captures were loggerheads (Figure 2). The relative paucity of loggerheads over the reefs is somewhat perplexing in light

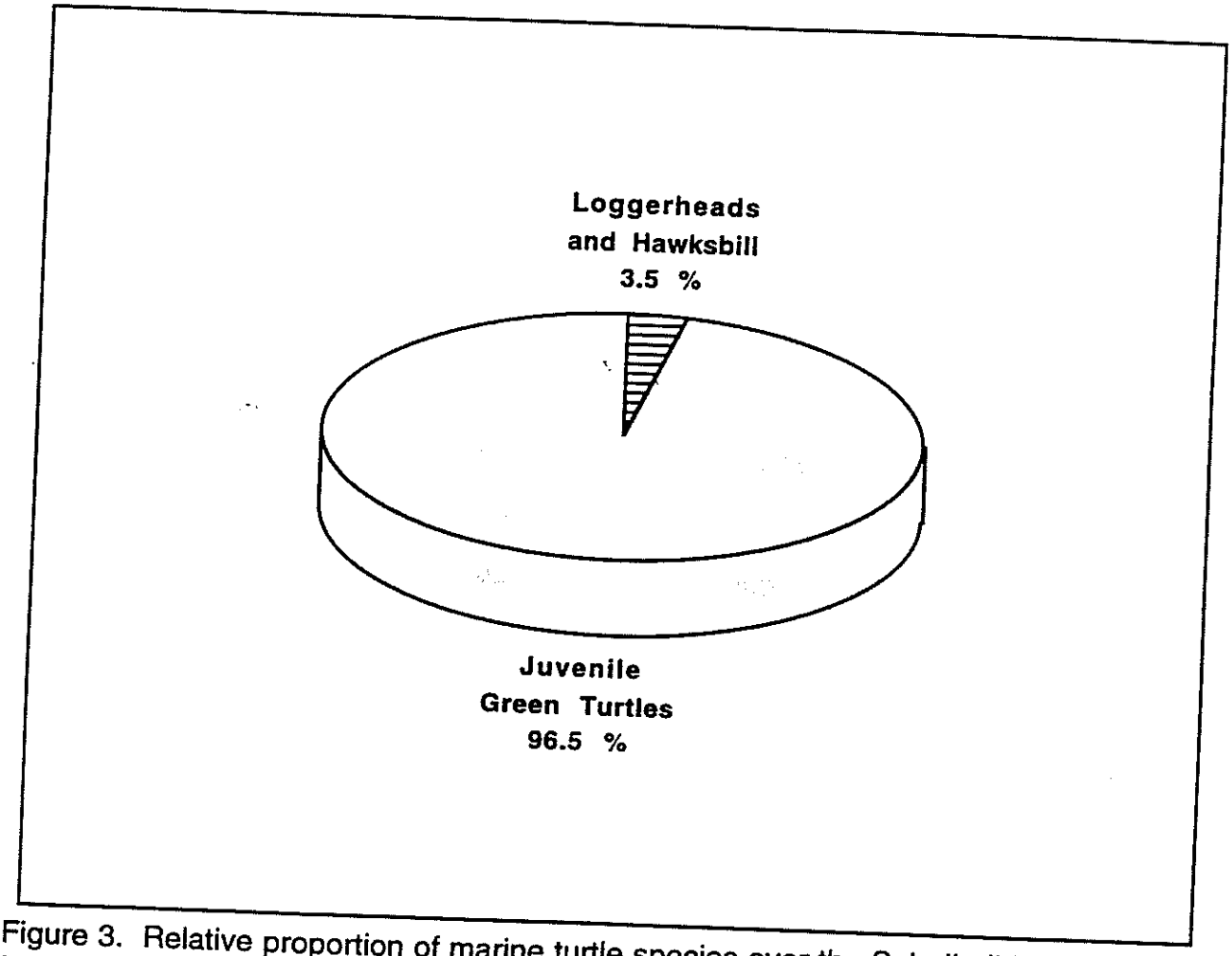


Figure 3. Relative proportion of marine turtle species over the Sabellariid worm reefs, Indian River Co., Florida from June, 1989 through July, 1995.

of the large number of loggerheads captured in a similar reef habitat off Hutchinson Island, St. Lucie Co., Florida less than 60 km to the south (Ernest et al., 1989).

Population Structure

Lagoon Green Turtles

The SCL measurements for all initial capture green turtles, including the adult male, ranged from 24.3 to 97.2 cm with a mean of 40.8 cm. The range of the juvenile green turtle SCL measurements was 24.3 to 72.4 cm with a mean of 40.7 cm. Table 14 contains the eight standard measurements and weight of each initial capture juvenile green turtle. A summary including the median, mean, standard deviation and range of each measurement is at the end of that table. Figure 4 shows the distribution of SCL measurements of initial green turtle captures. The measurements of the adult male green turtle are in Table 15.

The structure of the juvenile green turtle population in the central region of the Indian River Lagoon system is similar in both the mean and range of SCL measurements to that reported for some of the other developmental habitats along the Atlantic and Gulf coasts of the U.S., yet dissimilar in mean and/or range to others. There doesn't seem to be a discernible geographical pattern. Table 16 contains a summary of means and ranges of carapace length measurements reported for green turtles from Texas to Long Island, New York and should be referred to for the following discussion.

The mean and range of the SCL measurements obtained from the initial capture juvenile green turtles from the central region of the IRLS are similar to those captured over the Sabellariid worm reefs in northern Indian River Co., Florida; in the South Bay/Mexaquita Flats next to Padre Island, Texas (Coyne, 1994), and to those reported for juvenile green turtles cold stunned in 1985 in the northern region of the IRLS by Witherington and Ehrhart (1989). Wershoven and Wershoven (1989) reported a

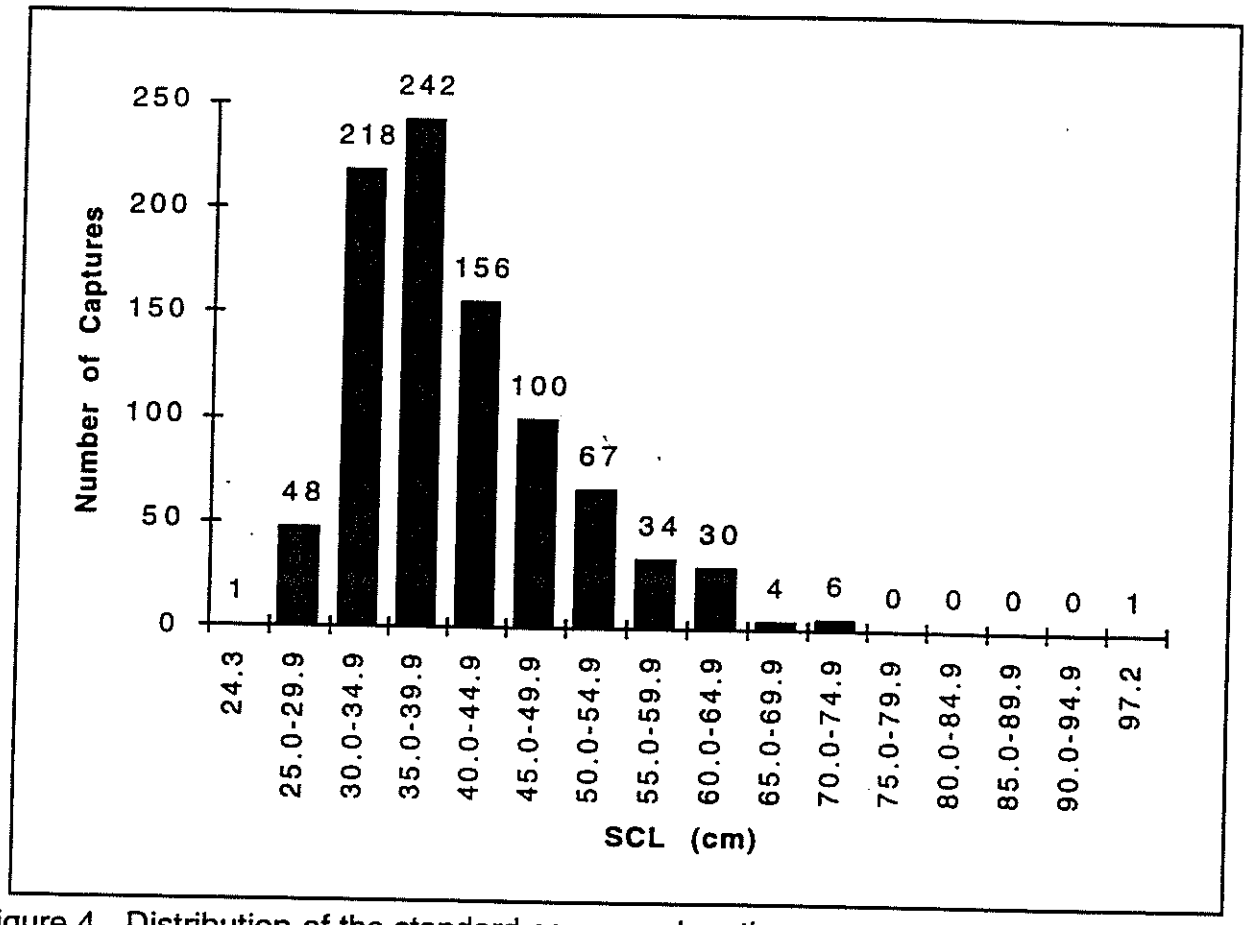


Figure 4. Distribution of the standard carapace length measurements of initial capture green turtles from the central region of the Indian River Lagoon System, Florida, May, 1982 through May, 1996.

similar range for green turtles they hand captured on the limestone reefs off of Broward County (they did not report a mean).

Although similar SCL ranges were reported by Henwood and Ogren (1987) for green turtles captured in the Cape Canaveral area, and by Ernest et al. (1989) for the nearshore waters off Hutchinson Island, the means they reported were noticeably lower (33.8 cm and 35.6 cm respectively) than that of the central region IRLS green turtles. The differences may be a result of capture method rather than in any real difference in the structure of the populations. Henwood and Ogren captured turtles using a shrimp trawler. The larger green turtles may more easily avoid the slow moving trawl nets than the smaller individuals. Sample size could also be a factor. Only 20 individuals were caught in the Cape Canaveral area compared to 907 in the central region of the IRLS.

The green turtles reported by Ernest et al. (1989) from the nearshore waters of Hutchinson Island were captured when they entered the mouths of power plant cooling water intake pipes 365 m offshore and rapidly transported by currents into the power plant intake canal. They noted that over 80 % of the Hutchinson Island juvenile greens were less than 40 cm SCL. Of the green turtles captured in tangle nets in the central region of the Indian River Lagoon, only 56 % were less than 40 cm SCL. It could be that smaller green turtles are more susceptible to being swept into the intake canal by the currents in the intake pipe; or that the mesh size of the tangle nets allows a greater proportion of smaller turtles to slip through or escape; or a combination of these factors. The idea of capture method selectivity gains some support from the results reported below of tangle netting in an environment similar to that found around the Hutchinson Island intake pipes- the nearshore Sabellariid worm reefs off Indian River County. There only 49 % of the green turtles were less than 40 cm SCL.

It is difficult to explain why the 40.7 mean SCL of the central region IRLS juvenile

green turtles is so much lower than the 48.2 mean SCL reported by Ehrhart (1983) for northern region IRLS green turtles captured in tangle nets and cold stunned in 1977 and 1981, and the 52.3 mean SCL reported by Schroeder et al. (1990) for green turtles cold stunned in 1989 in the northern region. This is especially true in light of the similarity of the central region IRLS mean and the 44.0 cm mean reported by Witherington and Ehrhart for cold stunned green turtles in the northern region in 1985. A contributing factor may be the proximity of the northern region and central region populations to inlets. The Mosquito Lagoon, Banana River and the northern portion of the Indian River are 24 to 64 kilometers from Ponce DeLeon Inlet and even further from Sebastian Inlet. The South Bay netting site is 3 km from Sebastian Inlet. The recruitment rate of the smaller animals that have recently left the pelagic habitat is probably greater for the central region population than that of the northern region population.

What is easier to explain is the differences between the mean and range of the central region IRLS green turtles and the identical means (31.3 cm) and almost identical ranges (22.2-47.9 cm and 22.9-48.1 cm respectively) reported for the Brazos Santiago Pass, Texas green turtles (Coyne, 1994) and the Trident Turning Basin, Port Canaveral, Florida green turtles (Ehrhart and Redfoot, 1996). The two latter populations are found in man made habitats-along rock jetties at Brazos Santiago Pass and in the rock lined turning basin. Feeding ecology studies conducted in both areas reveled that the small green turtles were feeding exclusively on the algal mat growing on the rocks. The researchers involved in both studies came to the same conclusion; the algal mat did not provide enough biomass to support turtles in the 50 cm SCL and larger size classes.

The curved carapace length measurements for green turtles stranded in the Florida Keys ranged from 12 to 94 cm (Wells and Bellmund, 1990). The presence of small

green turtles in the < 20 cm carapace length size class distinguishes the Florida Keys from all other known developmental habitats along the U.S. Atlantic and Gulf Coasts. These smaller animals were probably still in the pelagic stage of their life history and were brought into the Florida Keys developmental habitat by eddies of the current that flows to the east through the Florida Straits.

The range (34.6 to 76.3 cm) and mean (60.0 cm) of green turtles reported by Carr and Caldwell (1956) for the Cedar Key to Crystal River area of Florida's Gulf Coast suggest a developmental habitat favorable to the larger size classes of juvenile green turtles. However, this bias towards the larger size classes may be an artifact of the source of the turtles measured rather than representative of the actual population structure. In the 1950's turtle fishing was still legal and there was an active turtle fishery along the Gulf Coast as well as elsewhere. Carr and Caldwell measured animals brought into fish houses for sale by commercial fishermen that were specifically fishing for green turtles using large mesh tangle nets. They noted that the large mesh size of the tangle nets may have allowed smaller individuals to escape. There may have also been a conscious selection on the part of the fishermen. Smaller turtles were refered to as "housekeepers" by the fishermen and were released when caught (Larry Ogren, pers. com.; Jeff Schmid, pers. com.). It was felt they attracted other turtles to the area.

The dissimilar ranges and/or means that were reported by Morreale et al. (1990) for Long Island Sound, New York, by Barnard et al. (1989) for the Chesapeake Bay and coastal waters of Virginia, and by Epperly et al. (1995) for Pamlico and Core Sounds, North Carolina might well be due to the small sample sizes for those area.

The differences in the population structures reported for green turtle developmental habitats along the Gulf and Atlantic Coasts do not reveal any geographical pattern. Instead they seem to reflect the differences in quantity of food available and the

method used to obtain data (ie. tangle nets vs intake pipes vs strandings).

Lagoon Loggerheads

The range of SCL measurements for all central region IRLS initial capture loggerheads was 41.5 to 103.0 cm with a mean of 64.4 cm (Figure 5). The mean SCL of the subadult lagoon loggerheads was 62.6 cm, and ranged from 41.5 to 82.5 cm.

Table 17 contains the eight standard measurements and weight of each initial capture subadult loggerhead. A summary including the median, mean, standard deviation and range of each measurement is at the end of that table. Table 18 has the sex, standard measurements, and weights of the adult loggerheads. Because of the difficulty in landing adult loggerheads when in the small boats used to tend the nets and in handling them once they were aboard, weights and some measurements were not obtained for several of these animals.

Unlike the green turtles, there seems to be a geographical pattern to the differences in loggerhead population structures. In general, the population structure of the central region IRLS loggerheads is similar to that reported for other habitats along the Atlantic Coast of Florida and the coast of Georgia; but dissimilar to those reported for habitats along the mid-Atlantic and northeastern U.S. coast, and the Florida Keys. An examination of Table 19 shows that the mean and range of SCL measurements obtained from all initial capture loggerheads in the central region of the Indian River Lagoon system is similar to those reported for loggerheads in the northern region of the lagoon system by Ehrhart (1983); for loggerheads from the Canaveral Ship Channel and waters adjacent to Cape Canaveral, Florida (Ogren and McVea,1982; Henwood, 1987); to those reported by Ernest et al. (1989) from the nearshore waters off Hutchinson Island, Florida; and to those noted by Hillestad et al. (1978) from the coastal waters of Georgia.

There is a noticeable disparity between the lower ends of the range of Florida

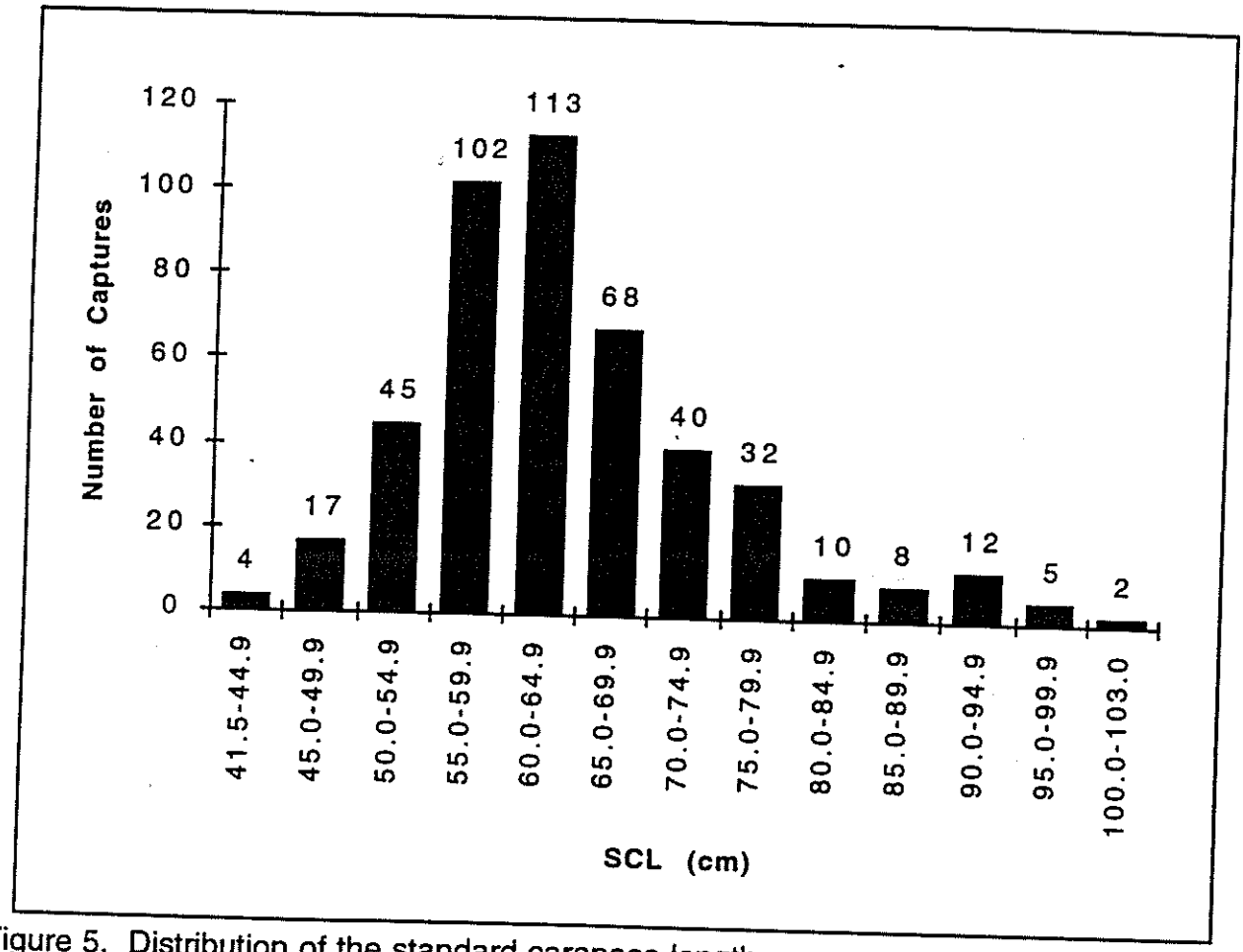


Figure 5. Distribution of the standard carapace length measurements of initial capture loggerheads from the central region of the Indian River Lagoon System, Florida from May, 1982 through May, 1996.

Atlantic Coast and Georgia loggerhead SCL measurements and those reported from North Carolina (Crouse, 1988), Virginia (Lutcavage and Musick, 1985), New Jersey (Eggers,1989), New York (Morreale et al., 1992), and the Florida Keys (Wells and Bellmund, 1990). In those localities records exist for a small but significant number of individuals whose carapace length ranged from approximately 10 cm to 40 cm. The capture or stranding of a loggerhead with a SCL less than 40.0 cm, other that post-hatchling sized individuals, is virtually unheard of along Florida's Atlantic Coast (Ehrhart, 1987). The records of small loggerheads "down stream" (i.e. down drift along the Gulf Stream) of the Florida nesting beaches along the mid-Atlantic and northeastern coast suggests some juvenile loggerheads stay on this side of the Atlantic Ocean during the pelagic stage of their life cycle rather than make a complete circuit of the Atlantic via the northern subtropical gyre. Perhaps they get caught up in the meanders and eddies of the Gulf Stream. The small loggerheads in the Florida Keys may have originated on nesting beaches on the Gulf Coast and were then brought in from the pelagic habitat by currents. It is important to note that the records from the Florida Keys are based on the strandings of dead, sick, or injured turtles; not live, in-water captures.

Reef

The range of SCL measurements of the juvenile green turtles captured over the Sabellariid worm reefs was 25.1 to 67.0 cm with a mean of 41.1 cm (Figure 6.). Table 20 contains the eight standard measurements and weight of each initial capture green turtle. A summary including the median, mean, standard deviation and range of each measurement is at the end of that table. The structure of the reef population was not significantly different from that of the lagoon juvenile green turtle population ($t = -1.473$, $df = 314$, $P = 0.142$). In light of this, the discussion of the structure of the lagoon

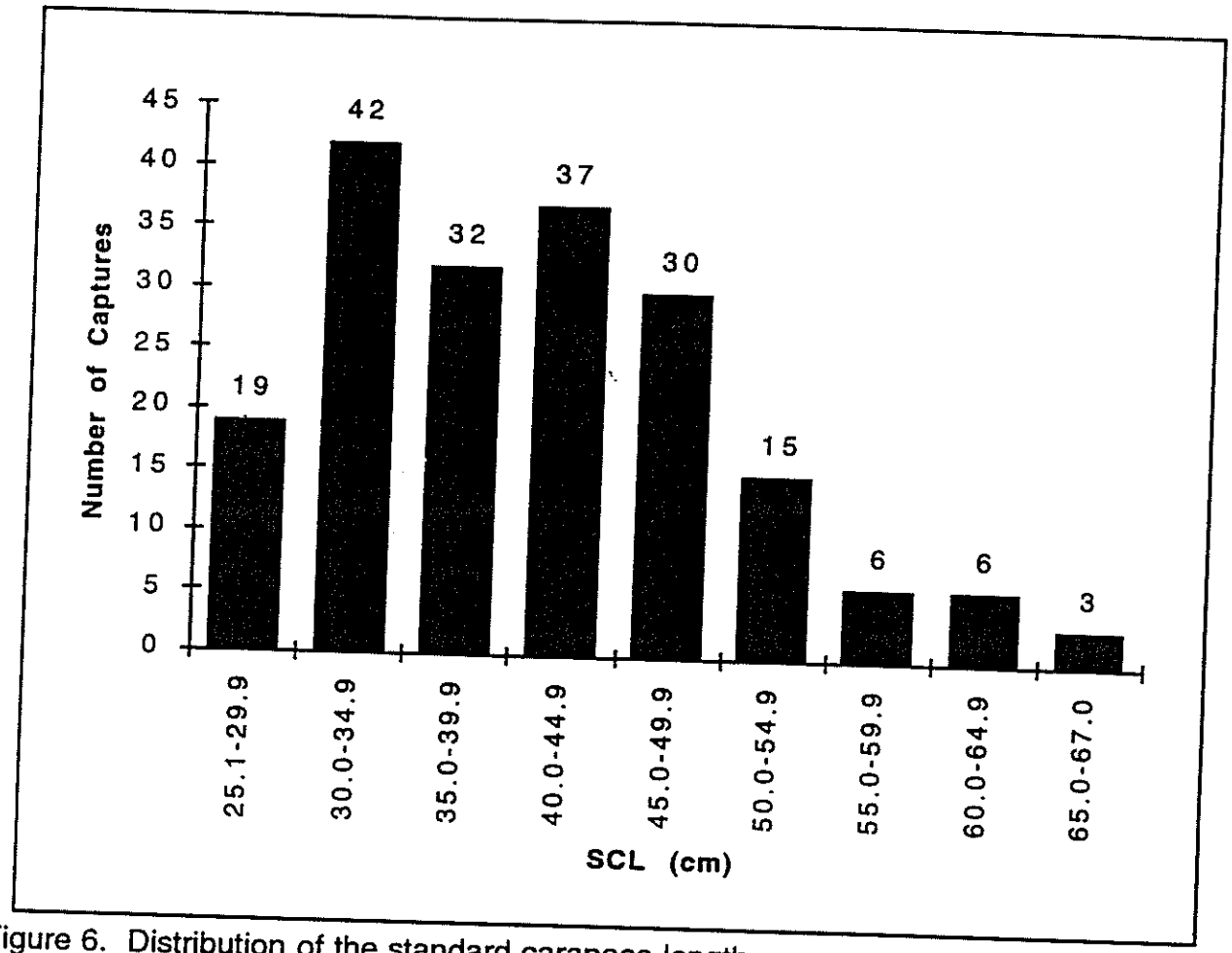


Figure 6. Distribution of the standard carapace length measurements of initial capture green turtles from the Sabellariid worm reefs, Indian River Co. Florida from June, 1989 through July, 1995.

juvenile green turtle population above can apply to that of the reef population.

As noted above, the capture of so few loggerheads over the Sabellariid worm reefs is hard to understand, especially since they are commonly seen by sport divers over the reefs further south along Florida's east coast. Because so few were captured,a comparison to other loggerhead developmental habitats would not be meaningful. Table 21 contains the eight standard measurements and weight of each of the loggerhead captures.

Relative Population Size

Indian River Lagoon System

From July, 1982 through June, 1996 tangle nets varying from 0.357 to 0.455 kilometers in length were deployed 453 times for a total of 1,930.6 hours. Loggerheads had an overall mean CPUE of 0.75 captures per kilometer hour of net soak and green turtles had an overall mean CPUE of 1.44.

Figure 7 shows the variation in loggerhead CPUE between the combined years of 1983-85, 1988-90, and 1993-95. Although there was some variation between the three spans of years, it was not statistically significant (K-W = 1.244, df = 2, P = 0.5369). The descriptive statistics of each of the samples in the loggerhead combined years data set are in Table 22.

The analysis of the loggerhead CPUE samples in the between season data set also showed no statistically significant variation (K-W = 2.51, df = 3, P = 0.4728). The descriptive statistics of each of the samples in the loggerhead between seasons data set are in Table 23. The relatively flat loggerhead CPUE rates over the span of a year can be seen in Figure 8.

Green turtles, on the other hand, had statistically significant differences both between years (K-W = 21.3, df = 2, P< 0.0001) and between seasons (K-W = 50.1, df = 3, P < 0.0001). As can be seen in Figure 7 and by the results of Dunn's multiple

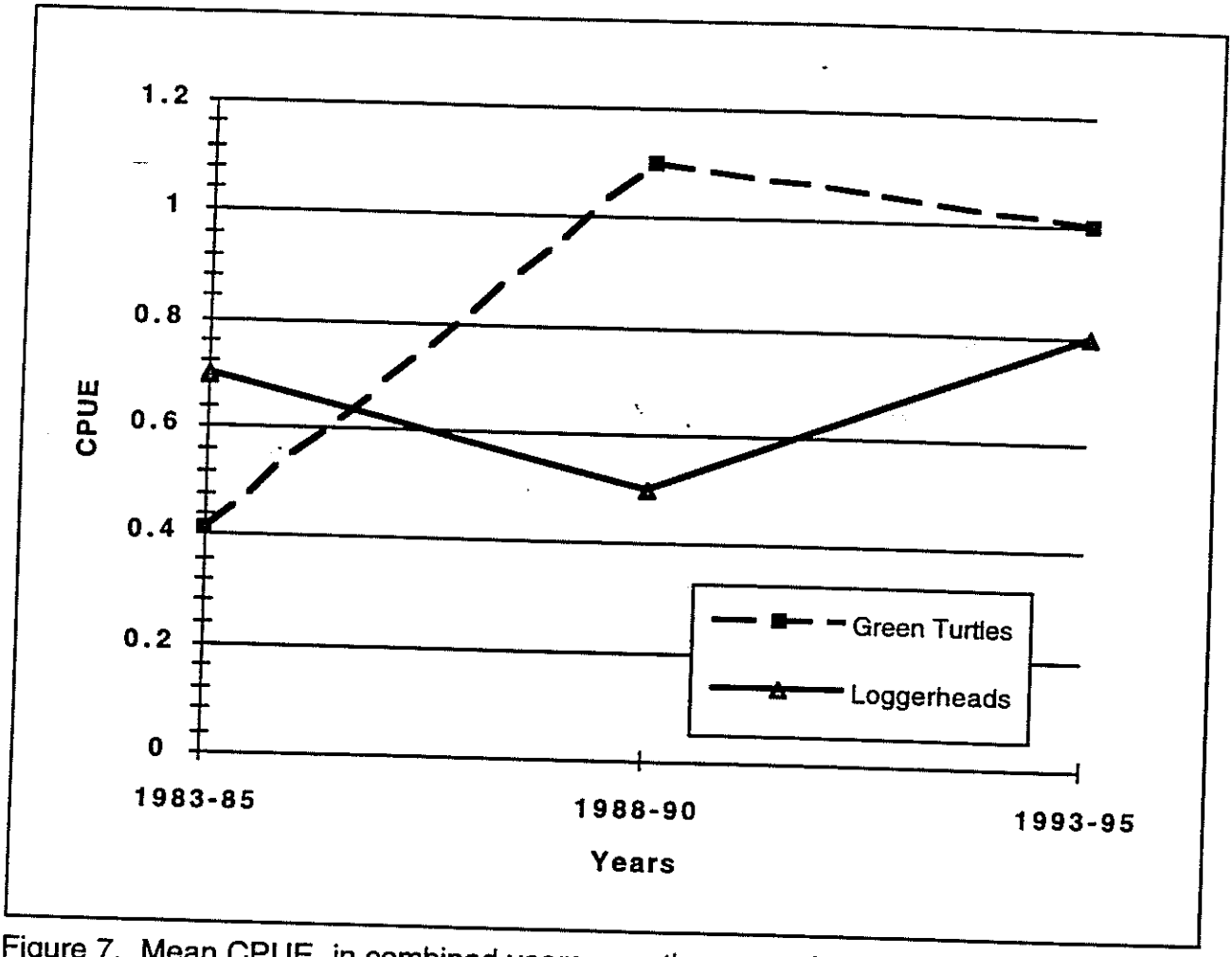


Figure 7. Mean CPUE in combined years over the span of the study for green turtles and loggerheads in the central region of the Indian River Lagoon System.

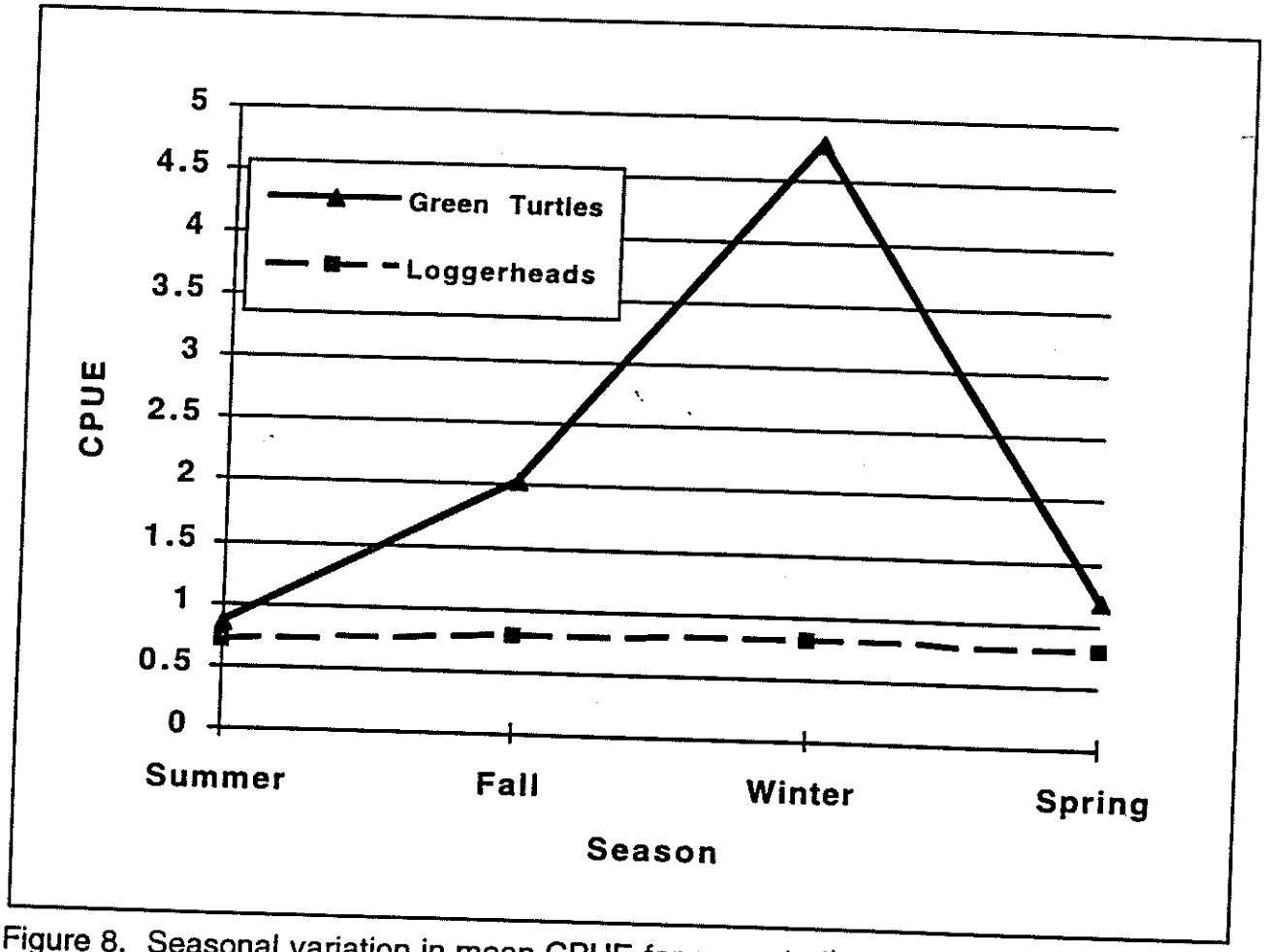


Figure 8. Seasonal variation in mean CPUE for green turtles and loggerheads in the central region of the Indian River Lagoon System.

comparison test, the 0.41 green turtle mean CPUE for the years 1983-85 was significantly less than the 1.1 green turtle mean CPUE for 1988-90 ($P < 0.001$) and the 1.0 green turtle mean CPUE for 1993-95 ($P < 0.01$). The CPUEs for 1988-90 and 1993-95 were not significantly different from each other ($P > 0.05$). The descriptive statistics of each of the samples in the green turtle combined years data set are in Table 22.

The increase in green turtle capture rates suggests an overall increase in the numbers of green turtles in the central IRLS developmental habitat from the early years of the study to the mid and later years of the study. It is tempting to herald this increase as an indication of the effectiveness of the Endangered Species Act of 1973 and of the conservation efforts of a number of individuals and organizations. Legislation and conservation probably contributed to the increase. However caution must be exercised in viewing these results. The 14 year span of this study has been relatively lengthy as field studies go, but for a species that takes anywhere from 20 to 50 years to reach sexual maturity (Balazs, 1982; Frazer and Ehrhart, 1985) that span of time covers only a fraction of one generation. Changes in environmental conditions such as alteration of habitat due to human activity and natural fluctuations in food supply in other areas of the lagoon system may have also influenced the population density in the study area.

It is important to note that there was a surprisingly large, highly significant increase in the green turtle capture rates in the lagoon during the winter and spring of the present contract year (June, 1995 through May, 1996; mean = 4.58, median = 1.59) compared to that of previous years (mean = 1.18, median = 0.82) (Wilcoxon test - ChiSquare = 20.87, df = 1, $P < 0.0001$). The increase was so extraordinary (Figure 9) that it defies objective interpretation. On some days we were literally overwhelmed (as never before) by the numbers of green turtles captured; we exhausted our supply of

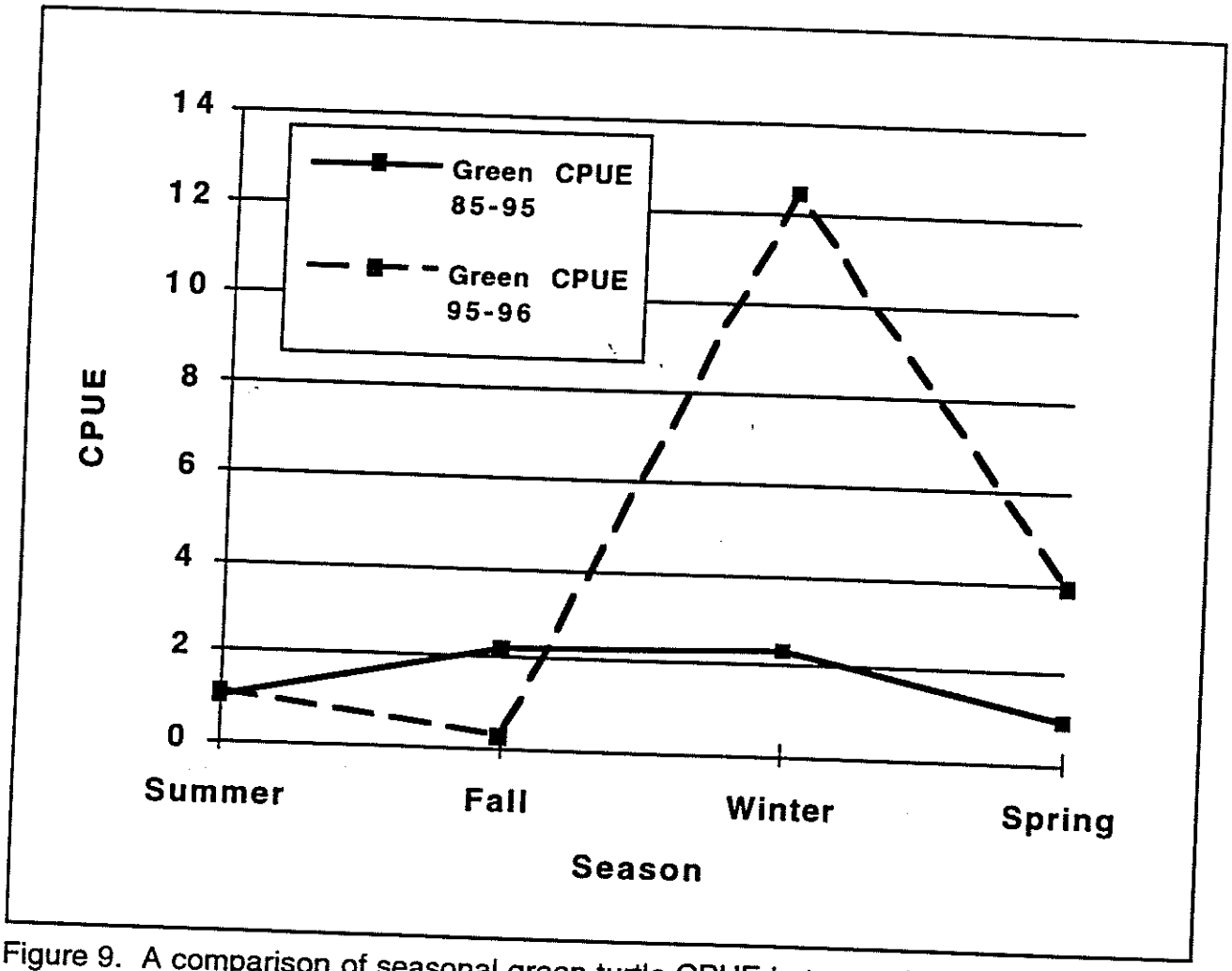


Figure 9. A comparison of seasonal green turtle CPUE between January, 1985 through May ,1995 and June, 1995 through May, 1996.

tags and other consumables. This marked increase may constitute the culmination of the upward trend seen over the past 12 years (Figure 7), it may portend another stepwise increase in the relative population density of the lagoonal green turtle population, or it may be nothing more than the kind of aberrant departure from normal that often characterizes the dymanics of marine animal populations. This uncertainty about the meaning of the CPUE surge underscores the need to continue to study the Indian River green turtle population. There was no comparable increase in loggerhead CPUE in 1995-96 (mean = 0.86, median = 0.45) over that of previous years (mean = 0.72, median = 0.53) (Wilcoxon test - ChiSquare = 0.0, df = 1, P = 0.998).

Figure 8 shows the cyclic nature of green turtle abundance in the lagoon throughout the year. The results of Dunn's multiple comparison test indicate that green turtles are more abundant during the fall and winter than during the spring (fall vs spring $P < 0.05$, winter vs spring $P < 0.001$) and summer (fall vs summer $P < 0.001$, winter vs summer $P < 0.001$). A comparison of fall vs winter and spring vs summer did not show a significant difference ($P > 0.05$). The descriptive statistics of each of the samples in the green turtle between seasons data set are in Table 23.

The marked increase in green turtle abundance in the study area during the fall and winter may be due to food supply and seasonal migration. Preliminary results of a feeding ecology study have shown that green turtles in the study area are primarily foraging on drift algae. A study of seasonal abundance of drift algae in the central region of the IRLS by Virnstein and Carbonara (1985) showed a greater abundance during the cooler months of the year and a marked decrease during the late spring and summer. There seems to be a succession in the abundance of different species of drift algae from season to season. Certain species may be more palatable to green turtles than others, which could result in an influx of green turtles in the study area when the more favored species are in greater abundance

The greater population density during the fall, winter and early spring and decrease during late spring and much of the summer may also be influenced by migrations induced by changes in water temperature in more northern latitudes. Lazell (1980) reports a "regular, summering population of young greens in Nantucket Sound" based on anecdotal evidence. Green turtles are also known to be found in Long Island Sound, New York (Morreale et al., 1992); Chesapeake Bay, Virginia (Barnard et al., 1989); and Pamlico and Core Sounds, North Carolina (Epperly et al., 1995). Presumably these animals migrate southwards as water temperatures cool during the fall and may enter the central region of the IRLS via Sebastian Inlet.

Juvenile green turtles that stay within Florida waters during the summer may also migrate southwards during the late fall. Carr and Caldwell (1956) noted the disappearance of juvenile green turtles from the shallow Gulf Coast waters off of Cedar Key and Crystal river in the early fall and their reappearance in early spring. Mendonca and Ehrhart (1982) reported a cyclic fluctuation in CPUE in Mosquito Lagoon, in the northern region of the IRLS, which is virtually the reverse of that in the central region. Mendonca (1983) noted "erratic long distance wandering" of green turtles when water temperature dropped, and suggested they might be trying to find their way out of the lagoon to find warmer water. With the behavior of Gulf Coast and Mosquito Lagoon green turtles in mind, it is reasonable to suggest that greens from the northern region of the Indian River Lagoon system, and lagoons and estuaries along the coast of Georgia and northeastern Florida are migrating to the central and southern regions of the the Indian River Lagoon system to forage during the winter months.

Sabellariid Worm Reefs

From June, 1989 through July, 1995 tangle nets varying from 0.02 to 0.22 kilometers in length were deployed 106 times for a total of 204.2 hours. Loggerheads

had an overall mean CPUE of 0.23 captures per kilometer hour of net soak and green turtles had an overall mean CPUE of 6.28.

Figure 10 depicts the mean CPUE for each species for the years 1989 through 1995. The fluctuations in CPUE for green turtles may be due to changes in surf and water clarity conditions encountered from year to year; or could be actual short term fluctuations in population density. It will take several more years of study to elucidate any population trend.

Despite the fluctuations from year to year in the reef CPUE, overall the reef CPUE is significantly higher (mean = 6.28, median = 2.08) for 1989 through 1995 than the lagoon green turtle summer CPUE (mean = 0.85, median = 0.66) for the same time span (Wilcoxon test - ChiSquare = 11.14, df = 1, P = 0.0008). This may indicate that there is a greater population of green turtles over the reef during the summer, or that the foraging area is more concentrated over the reefs resulting in a higher capture rate.

Sex Ratios

Results of some of the radioimmunoassay (RIA) determinations of testosterone titers in the blood of reef green turtles and lagoon greens and loggerheads are given in Tables 24 and 25. Not all of the testosterone titrations have been completed by the Texas A&M lab at the time of this writing and the sample size for lagoon loggerheads is quite small. As a result the observed 4:1 (female:male) ratio does not attain statistical significance (Fisher's Exact Test, P=0.35) and not much is contributed to the problem of natural sex ratios of loggerhead populations as yet. The literature presents a very confused picture with respect to sex ratios of both loggerheads and green turtles worldwide, in the southeastern U.S., and in the Indian River Lagoon system of

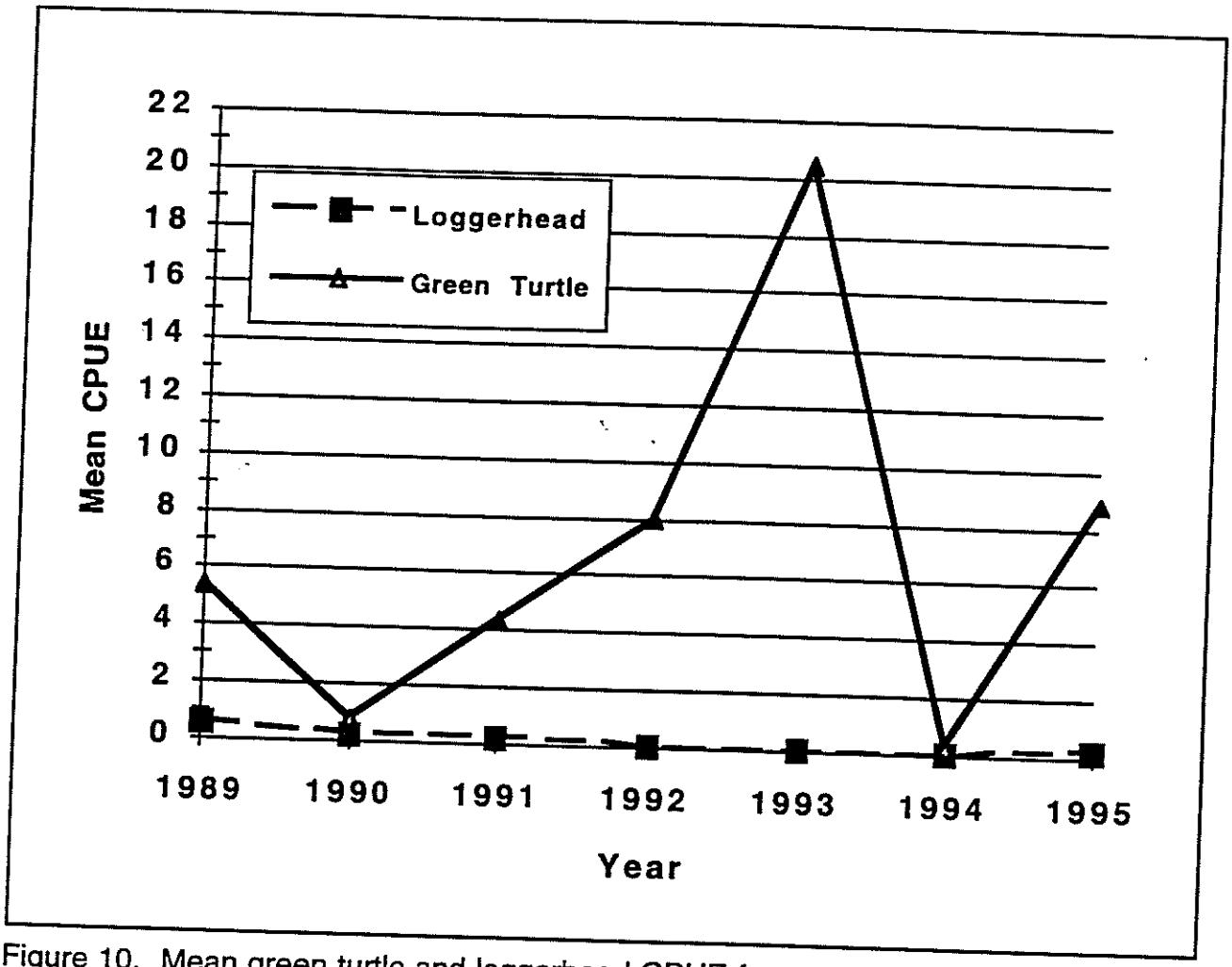


Figure 10. Mean green turtle and loggerhead CPUE for each year of the Sabellariid worm reef study.

Florida. The whole question of what constitutes a "normal" or representative sex ratio of a species or population of marine turtles is hard to deal with. Variables such as sex-dependent variations in migration patterns and the multi-annual reproductive intervals exhibited by females make interpretations of adult sex ratio data difficult to interpret (Wibbels et al., (1987). It doesn't make much sense to use hatchling sex ratios either, because of the reality of temperature-dependent sex determination. There is some agreement among sea turtle reproductive physiologists and population biologists that examination of the sex ratio in the juvenile-through-subadult portion of the population is "an effective initial step" (Wibbels et al., 1987). Studies of two loggerhead populations in the southeastern U.S. (Port Canaveral and Hutchinson Island) which involved large sample sizes showed female-biased ratios that were statistically significant (Wibbels et al., 1987) but the same authors found ratios not significantly different from 1:1 in loggerheads from the Indian River Lagoon and Chesapeake Bay. Another, independent, study of loggerheads from the same location in the Indian River Lagoon, which used the same RIA technique, found a 0.8:1.0 (female:male) ratio (Luepschen, 1987). If the female bias seen in our small sample persists when more of the titrations have been completed (as N becomes larger), these results may contribute to a developing consensus that subadult loggerheads in southeastern U.S. waters generally exhibit female-biased sex ratios.

The picture is even more confused for green turtles, primarily because ratios based on necropsy results have provided different ratios than those based on RIA titrations. In studies of immature green turtles in Hawaii (Wibbels et al., 1993) and the southern Bahamas (Bolten et al., 1992), where only the RIA technique was used, no female bias was observed. In an earlier study of green turtles in the Indian River Lagoon at Sebastian (same site as the current study), Luepschen (1987) reported a 0.9:1.0 (female:male) ratio using RIA but found significant female bias (2.3:1.0) in a sample of

necropsied green turtle carcasses from the same region. Later, Schroeder and Owens (1994) observed a 1.75:1.0 (female:male) ratio in a large sample of necropsied carcasses of immature green turtles, the result of a severe cold-water episode in the northern part of the Indian River system (Mosquito Lagoon) in December, 1989. They were unable to predict sex ratios from rescued survivors of that hypothermic event, however, because RIA analysis of a large sample of them failed to provide a bi-modal distribution of testosterone titers.

The data in Table 25 provide a female:male ratio of 3.4:1.0, which is significantly different from 1:1 at P= 0.045 by a Fisher's Exact Test. This result agrees with Luepschen's and Schroeder and Owens' necropsy-based ratios but conflicts with Luepschen's RIA-based ratio for turtles captured at exactly the same locality, but 10 years earlier. It only adds to the confusion to note that the data in Table 24, giving the RIA-based results for the reef-dwelling juvenile green turtles, provides a 1.3:1.0 (female:male) sex ratio (P=0.80, ns) for animals captured at virtually the same latitude as the lagoon turtles, but in the ocean, a few hundred meters off the barrier island beach.

As of this writing, then, it appears that RIA-based sex determinations should be regarded with caution because they are often at odds with those provided by the "tried and true" method of gross examination of the gonads. With that as a caveat, however, it can be observed that these results provide additional evidence of female bias in the sex ratio of juvenile green turtles in the Indian River Lagoon, especially its central region. As noted above there is conflicting evidence on this point but the preponderance of evidence points to female bias. Just how that can be reconciled with the apparent absence of bias in the reef population "next door" is a matter that awaits further study.

Ecological Geography and Genetics

Remote Recoveries

Green Turtles and Hawksbills

The mass of morphometric and relative density data given above and the information about foraging ecology below make it clear that the lagoon and the nearshore reefs are juvenile foraging areas for green turtles and constitute "developmental habitats" in the sense of Carr et al. (1978). It is also clear, however, that green turtles do not remain in these habitats to maturity. Even the largest of the greens captured in the lagoon and over the reefs are not close to adult size. It follows that these green turtles move out of the lagoon, off the reefs and away from the east Florida coast to some other, "subadult developmental habitat," to complete the maturation process. Just where they go after departing the lagoon and the reefs is the question that we have been trying to answer for almost 15 years, through an exhaustive tagging effort evidenced by the data in Table 14. The "game" of long-distance tag recoveries is one of very small probabilities and few other investigators have been tagging juvenile turtles. The principal exception, of course, is the St. Lucie nuclear power plant near Ft. Pierce, Florida, where relatively large numbers of juvenile green turtles have been captured, tagged and released in recent years. Information about remote recoveries of those animals is not yet available. All of this makes the relatively few remote recoveries of Indian River green turtles reported here (Table 26) all the more valuable. The data from that table are mapped in Figure 11 and they show that a major portion of the recoveries are from the coast of Nicaragua and Belize. There are three from Cuba but in two of them there is no specific locality information.

There have been no remote recoveries of green turtles tagged on the nearshore reef but there has been one remarkable recovery of a turtle from that habitat (Table 27). In October, 1989 we captured a 24 cm (SCL) hawksbill turtle (Eretmochelys) over

the reef. It was the only hawksbill captured in seven summers of work in that habitat but it is true that hawksbills are seen at the Sebastian Inlet jetties occasionally and that carcasses of juvenile hawksbills strand on nearby beaches from time to time. The remarkable aspect is in the fact that this turtle was recovered at Walker's Cay in the Bahamas almost seven years later (Figure 12). The recovery letter provided precious little in terms of method of capture or fate of the turtle but the record constitutes a meager beginning of an understanding of the ecological geography of the small "population" of hawksbills that shares the Sabellariid worm-rock reefs with the green turtles.

In summary, then, the evidence points to the Western Caribbean (and perhaps the Cuban coast) as the next geographically and ecologically distinct "station" in the ecological geography of green turtles that spend their juvenilehood on the east coast of Florida. This statement should be viewed as nothing more than a working hypothesis, in view of the small number of recoveries thus far obtained. As additional recoveries are reported for animals tagged in our study areas in Indian River County, others tagged at the St. Lucie plant and even, perhaps, for green turtles tagged at Bermuda, this idea will be confirmed or refuted. Variations in the routes of travel (obviously oversimplified in Figure 11) and the use of other, unknown developmental habitats could complicate the picture. Also, the role of Cuba in the overall scheme is virtually unknown, even though it could be a major feature.

Loggerheads

There have been no remote recoveries of subadult loggerheads tagged in the Indian River Lagoon or over the nearshore reefs. It is clear, however, that loggerheads remain in the lagoon and nearshore waters until they reach the low end of the size range of adult females seen nesting on nearby beaches. We have captured several "maturing males" (75-85 cm CLSL); i.e., animals in which the tail was clearly in the

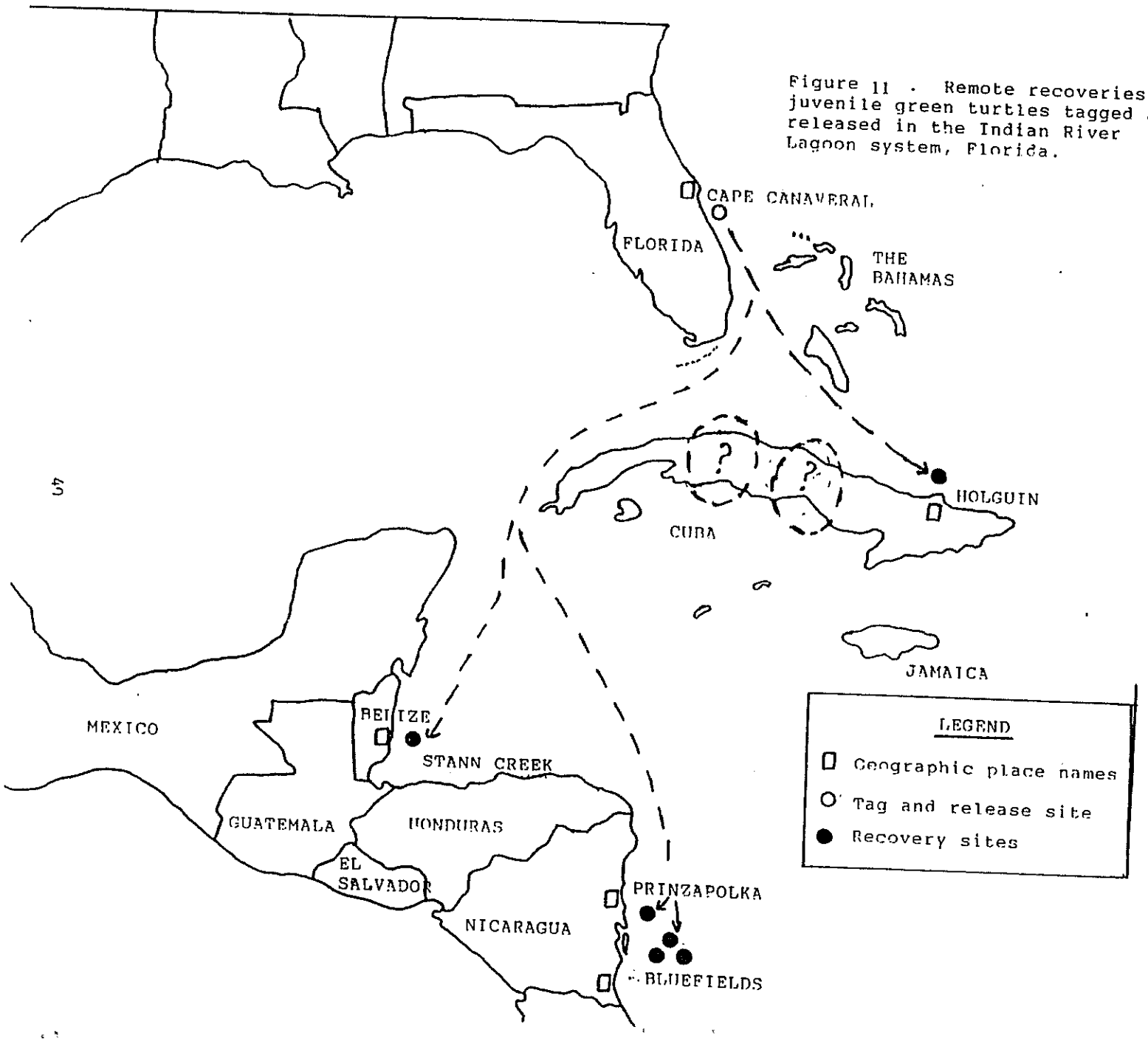
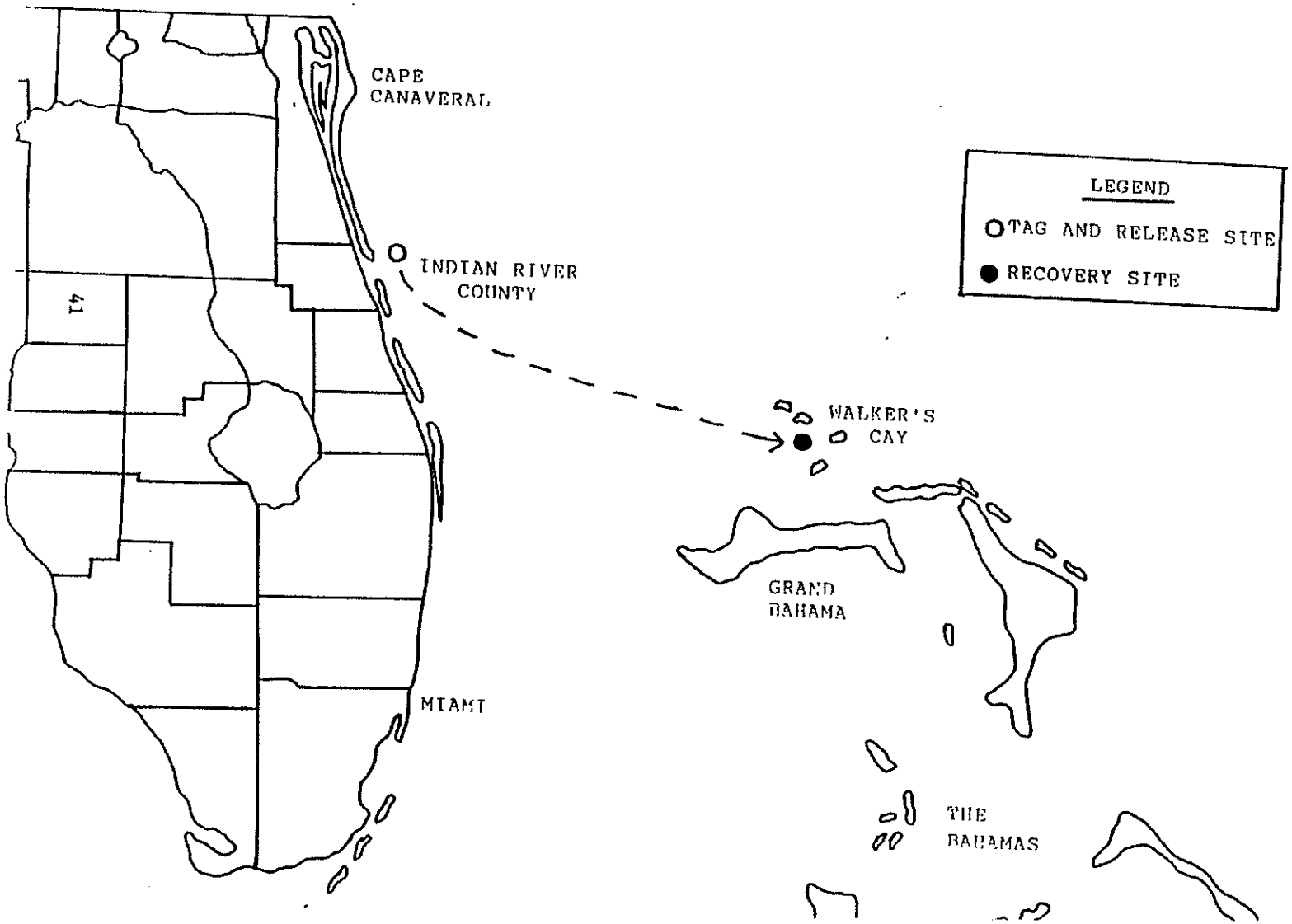


Figure 11 . Remote recoveries of juvenile green turtles tagged and released in the Indian River Lagoon system, Florida.

Figure 12. Remote recovery of a juvenile hawksbill turtle tagged and released over nearshore Sabelleriid worm reefs, Indian River County, Florida.



process of elongating but not yet of the proportions of a fully adult male. What remains to be explained is exactly how these loggerheads that approach or attain puberty in the lagoon rendezvous with the aggregation of adult loggerheads that remigrate from the known foraging grounds in the Bahamas, Greater Antilles and Gulf of Mexico. Do they make an initial migration to the remote foraging grounds, join the remigrants as they depart for the waters off the nesting beaches and mate there, or do they simply remain on the east Florida coast, rendezvous with the remigrants when they arrive in March and April, participate in their first reproductive episode and then make their first migration to the adult foraging grounds? The answer to this question may require the use of satellite telemetry. The solution may prove to be daunting, even if that high technology is utilized, because there is undoubtedly considerable variation in the size and age at which the loggerheads actually mature (but see below).

Domestic Recoveries and Strange Recaptures

Green Turtles

Recoveries of lagoon and reef green turtles within Florida are given in Tables 28 and 29. The data show that the great majority of these were local (Brevard, Indian River and St. Lucie Counties, on the Florida Atlantic coast) and occurred after a relatively short time interval (1-2 years). The single exception to this was PPJ156/PPN820, which was captured, tagged and released in the Indian River near Sebastian, Florida, in May of 1986 and recovered eight years later, badly injured by a boat propeller but alive, on the ocean beach in St. Lucie County. The size and age at which individuals recruit to the lagoon or reef aggregations is probably somewhat variable and their period of residence there appears to be equally so. It is worthy of note, however, that there have been no recoveries along the Florida coast south of St. Lucie County; i.e., between the local area and Cuba. It may mean that once the green

turtles begin to move south they do so quickly, moving resolutely to the next developmental habitat. Records of green turtles tagged and released by other investigators and recaptured in the lagoon or over the reef during this study are given in Table 30. They complement the picture given by the domestic recoveries (above) in that they are all of local origin. Six of the 11 records, including two captures of the same animal one year apart on the reef, are of green turtles that were products of the FDNR (now FDEP) "head-start" program in the late 1980's.

When interpreting results such as these one should always bare in mind that the tag loss problem has been especially severe for turtles tagged in lagoonal and other estuarine environments. Although the plastic Roto-tags and inconel alloy tags that we now employ have brought improvement to the situation, the problem is far from resolved. But for the tag loss problem we might well have more recoveries at greater intervals and from more variable locations.

Loggerheads

Domestic loggerhead recoveries are listed in Table 31. There are more of them than there were for green turtles and there are more extended intervals between tagging and recovery. In addition to one animal that was tagged at Sebastian in 1983 and recovered as a carcass on the beach in St. Lucie County 13 years later, there are records of >5 yr, 6 yr, and >7 yr intervals among the table entries. As in the case of green turtles, however, all of these recoveries are "local;" occurring within the three-county area whose geographic center is near the original capture/tag site just south of Sebastian Inlet. The fact that none of these lagoon-tagged subadult loggerheads has ever been recovered farther south along the east Florida coast has relevance for the discussion above, regarding the question about how these loggerheads join the breeding remigrants prior to their first breeding season. The data in Table 31 suggest that they may not migrate to the adult foraging grounds but, instead, meet the

remigrants in the waters off the east coast nesting beaches. Again, this is only a working hypothesis, one that might require satellite telemetry for solid corroboration.

Records of loggerheads tagged and released by other investigators and recaptured in the lagoon during this study are given in Table 32. As in the case of green turtle strange recaptures, most (14/16) of these loggerheads were tagged and released locally. The exception was an individual tagged in Long Island Sound, N.Y., in September, 1989. It was captured twice in the Indian River at Sebastian in the summer of 1990. Apparently not all subadult loggerheads remigrate to the mid-Atlantic states (Chesapeake Bay and Long Island Sound) after over-wintering in Florida.

NMFS Tags Recovered by the UCF Research Group

The UCF Marine Turtle Research Group has been involved in a number of aspects of marine turtle research in addition to the "in-water" work that is the primary subject of this report. The group has been conducting nesting beach research (nest production and reproductive success) at what is now the Archie Carr National Wildlife Refuge and it has been involved in carcass stranding documentation even longer. During the course of these research activities we have encountered a large number of marine turtles bearing tags originally issued by the National Marine Fisheries Service. To the best of our knowledge these recoveries have been reported to NMFS/Miami in a timely fashion but it seems appropriate to provide an updated compilation of these recoveries as a supplement to this report. The complete data set is given in Table 33.

MtDNA Analysis

Three distinct haplotypes were found among the ten turtles sampled (Table 34). The most common haplotype represented in the sample of juvenile green turtles (CM III) is shared among four nesting colonies: Florida, Mexico, Costa Rica and Aves Island, at varying frequencies (Encalada et al., 1996). Haplotype CM I, found in two of

the reef turtles, has been identified in nesting females from Florida and Mexico. Interestingly, haplotype CM VIII (found in one lagoon turtle) has been identified only in nesting females from Brazil, Ascension Island and Guinea Bissau. Considering the small sample sizes, all that can be said at present is that the reef and lagoon populations probably derive from multiple rookeries. The magnitude of the various rookeries' contributions is uncertain and awaits analysis of more samples.

Foraging Ecology

From June of 1995 through May of 1996 lavage of the esophagus was performed on 157 juvenile green turtles captured in the Indian River Lagoon; 22 during the summer, 25 captured during the fall, 60 during the winter, and 50 during the spring. Thirty six juvenile green turtles captured over the Sabellariid worm reefs during the summer were lavaged.

Algae was collected in both study areas by SCUBA diving and identified for reference when analyzing the food items obtained by lavage.

Seven lavage samples from the summer lagoon captures, four from the fall lagoon captures, and five from the Sabellariid worm reef captures were randomly selected and examined to determine food items. Because we are still in the food item identification stage of this aspect of the study, no attempt was made to quantify the sample contents. The results of this preliminary examination are as follows.

Indian River Lagoon - Summer

Algae

Division Rhodophyta

- Acanthoptera specifica
- Bryothamnion seaforthii
- Champia pavula (identification tentative)
- Gracilaria sp.
- Hypnea sp.
- Solieria filiformis
- a yet to be identified species

Vascular Plants (sea grass)
Halodule wrightii
Halophila decepiens

Gracilaria sp. and Bryothamnion seaforthii were the two most abundant food items. Additionally, one sample consisted entirely of unidentified animal tissue (probably from a benthic invertebrate). Another sample contained the same type of animal tissue as well algae.

Indian River Lagoon - Fall

Algae
Division Rhodophyta
Acanthoptera specifica
Bryothamnion seaforthii
Champia pavula (identification tentative)
Gracilaria sp.
Hypnea sp.
Vascular Plants (sea grass)
Halodule wrightii
Halophila decepiens

As with the summer, Gracilaria sp. and Bryothamnion seaforthii were the two most abundant food items in the fall lavage samples.

Sabellariid Worm Reefs

Algae
Division Chlorophyta
Caulerpa prolifera
Ulva lactura
Division Rhodophyta
Bryocladia cuspidata
Bryothamnion seaforthii
Gelidium americana
Gigartina acicularis
Hypnea musciformis
Rhodymenia pseudoplamata
Solieria filiformis

Fibropapilloma

The juvenile green turtle population of Mosquito Lagoon, in the northern part of the Indian River Lagoon (IRL) system, was originally studied between 1975 and 1981. Small numbers of animals were caught by net throughout the year and over 200 more

green turtles were examined after being cold-stunned in January 1977 and 1981. No occurrence of fibropapillomatosis (GTFP) was observed in the green turtles of the Mosquito Lagoon/northern IRL system.

In 1982, population studies shifted to the central region of the IRL, ca. 120 km south, where green turtles with fibropapillomas were encountered almost immediately (Figure 13). The observed frequency remained close to 50% through 1985. In 1984 the first loggerhead with fibropapillomas was seen and that was the year with the highest prevalence in loggerheads to date (6/32 captures, or 19%; Figure 14). In January 1985 another cold stun episode affected 145 green turtles in Mosquito Lagoon; of these, 29% exhibited GTFP, the first ever seen in green turtles from the "northern region".

The frequency of GTFP in the green turtle population of the "central region" varied from 34-65% between 1986 and 1990 (Figure 13) and morphometric data revealed that individuals of intermediate size (10-30kg) were more likely to be afflicted. About 64% of non-afflicted turtles weighed <10 kg and only 20% with GTFP were in the <10 kg weight class. During the period from 1991 through 1996 however, 66% of all lagoon captures weighed <10 kg, and 72% of all GTFP turtles were <10 kg, suggesting that they may be contracting the disease earlier than previously thought, after entering the lagoon system. The prevalence of GTFP appears to fluctuate randomly or as a result of some as yet unidentified variable. In 1990, the most recent cold stun event provided another 248 green turtles from Mosquito Lagoon. Only four of the turtles showed any evidence of fibropapillomas; i.e., the prevalence of the disease returned to near zero.

The severity of GTFP affliction varies greatly. Some turtles develop growths between the time of capture and subsequent recaptures; some turtles have tumors that appear to be regressing. Of the turtles that we recapture, some develop GTFP quickly;

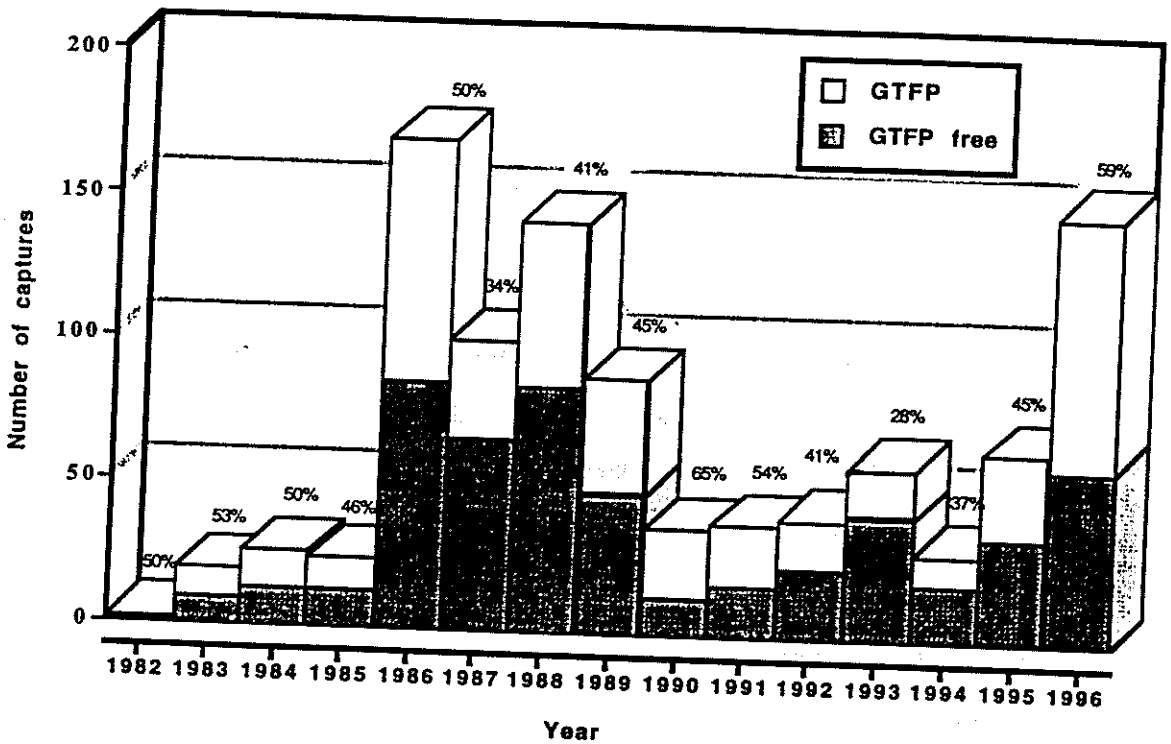


Figure 13. Prevalence of GTFP in juvenile green turtles in the Indian River Lagoon system, shown as a percentage of total captures by year.

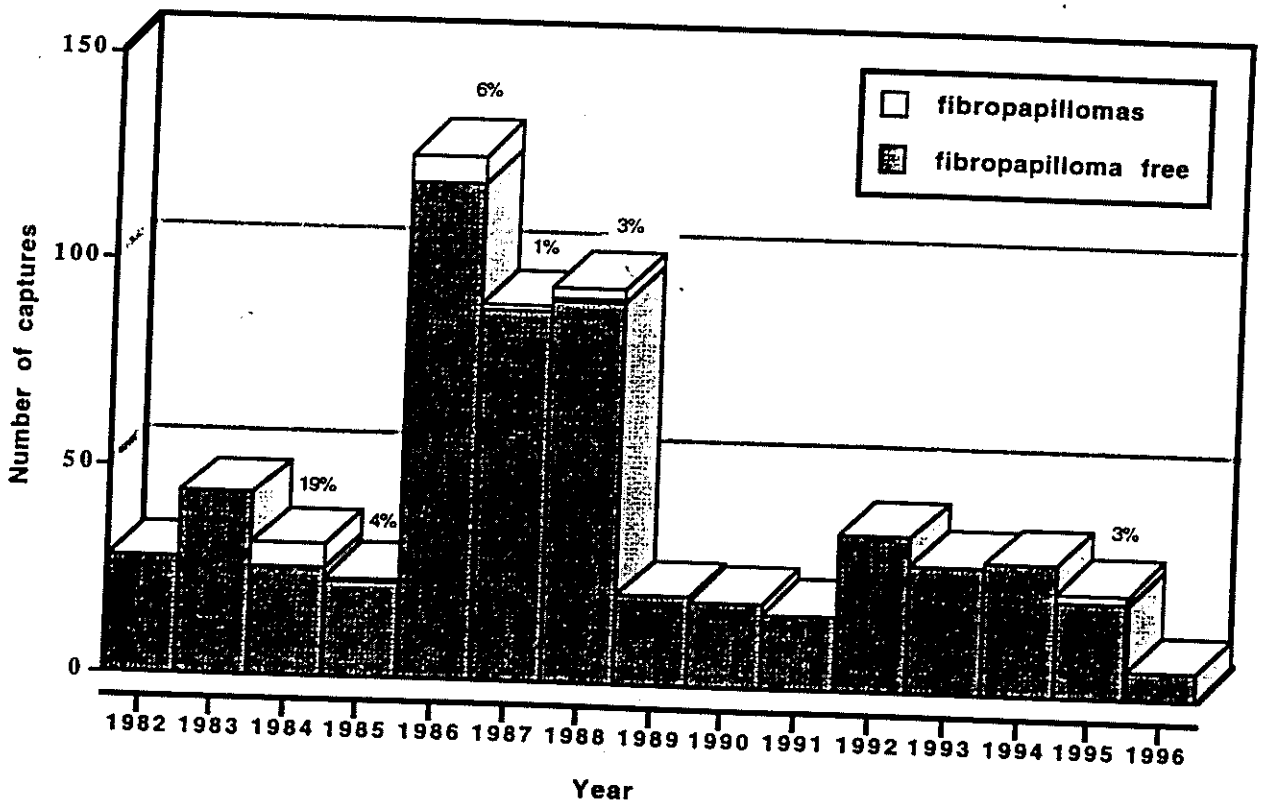


Figure 14. Prevalence of fibropapillomas in subadult loggerheads in the Indian River Lagoon system, Florida, shown as a percentage of total captures.

others over long periods of time. Two examples of this include a small green turtle that was captured June 16, 1987 and had no growths, but was documented to have "leeches on both sides of the anal scutes, on soft skin". This turtle was recaptured one month later almost to the day and exhibited many growths--in the same areas where the leeches had been documented just one month earlier. The role of leeches in the etiology of the disease remains unknown, but we often find them in association with GTFP. At the opposite end of the spectrum is a subadult loggerhead with severe trauma to the posterior of the carapace and rear flippers. When first captured in August 1992 it had no tumors. At subsequent recaptures in 1992, 1993, and 1994 there was no evidence of fibropapillomas. When recaptured in August 1995, however, this turtle was covered with many actively growing tumors. The one other loggerhead captured with fibropapillomas in 1995 also had a severe injury; its left front flipper had been amputated by a monofilament ligature around the shaft of the humerus.

Every green turtle captured on the nearshore reef is examined for the presence of GTFP. In a sample of more than 200 juvenile green turtles spanning seven summers of work on the reef, not a single case of GTFP was observed. Other "oceanic" populations of green turtles, such as those in the leeward Hawaiians and at Bermuda, are also free of the disease. On the other hand, the disease is prevalent in 25-90% of individuals in degraded bays, lagoons and other estuarine habitats such as those in the Indian River Lagoon, Florida Bay/Keys, and the windward Hawaiians. It now appears that two kinds of viruses are involved in the etiology of this complex disease (G. Balazs, pers. com.) but the ecological evidence also points to environmental co-factors. We have continued to collaborate with Drs. Herbst and Klein at the BEECS lab in Gainesville, by providing serum, biopsies and live afflicted animals.

Ad Hoc Collaboration With NMFS Charleston Lab

We were in a good position to collaborate and were pleased to provide blood smear slides, plasma samples and heparinized whole blood for this purpose. Tables 35 and 36 list the loggerheads and green turtles from which samples were obtained. The samples were shipped to SmithKline Beecham Clinical Laboratories in Leesburg, Florida for the clinical work-ups. To date we (and more importantly, the Charleston Lab) have received results from 88 samples from the Indian River Lagoon (13 subadult loggerheads, 1 adult female loggerhead and 74 juvenile green turtles) and 35 samples from another study site, the Trident Submarine Basin (34 juvenile green turtles and 1 adult male loggerhead). NMFS Charleston Lab has since asked for a hiatus in the collection of samples to allow them time to analyze those collected thus far.

LITERATURE CITED

Allard, M.W., M.M. Miyamoto, K.A. Bjorndal, A.B. Bolten and B.W. Bowen. 1994. Support for natal homing in green turtles from mitochondrial DNA sequences. Copeia 1994(1):34-41.

Balazs, G.H. 1980. Field methods for sampling the dietary components of green turtles, *Chelonia mydas.* Herp Review 11(1):5-6.

Balazs, G.H. 1982. Growth rates of immature green turtles in the Hawaiian Archipelago. *In:* Bjorndal, K.A. (Ed.). Biology and Conservation of Sea Turtles. Smithsonian Institution Press, Washington, D.C., p. 117-125.

Barnard, D.E., J.A. Keinath and J.A. Musick. 1989. Distribution of ridley, green, and leatherback turtles in Chesapeake Bay and adjacent waters. *In:* Eckert, S.A., K.L. Eckert, T.H Richardson (Compilers). 1989. Proceedings of the Ninth Annual Workshop on Sea Turtle Conservation and Biology. NOAA Technical Memorandum NMFS-SEFC-232, p. 201-203.

Bolten, A.B., K.A. Bjorndal, J.S. Grumbles and D.W. Owens. 1992. Sex ratio and sex-specific growth rates of immature green turtles, *Chelonia mydas*, in the southern Bahamas. Copeia 1992(4):1098-1103.

Byles, R.A. 1988. Behavior and ecology of sea turtles from Chesapeake Bay, Virginia. Unpublished Ph.D dissertation. College of William and Mary in Virginia.

Caldwell, D. 1958. On the status of the Atlantic leatherback turtle, *Dermochelys coriacea coriacea*, as a visitant to Florida nesting beaches, with natural history notes. Quart. Journ. Fla. Acad. Sci. 21(3):285-291.

Carr, A., and D.K. Caldwell. 1956. The ecology and migrations of sea turtles, 1. Results of field work in Florida, 1955. Amer. Mus. Novitates 1793:1-23.

Carr, A., M. Carr and A. Meylan. 1978. The ecology and migrations of sea turtles, 7. The west Caribbean green turtle colony. Bull. Amer. Mus. Nat. Hist. 162(1):1-46.

Coyne, M.S. 1994 Feeding ecology of subadult green sea turtles in south Texas waters. Unpublished Masters Thesis. Texas A&M University, College Station, Texas.

Crouse, D.T. 1988. Sea turtle strandings: New perspectives on North Carolina biology. *In:* Schroeder, B.A. (Compiler). 1988. Proceedings of the Eighth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-214, p. 13-16.

Dodd, C.K., Jr. 1988. Synopsis of the biological data on the loggerhead sea turtle *Caretta caretta* (Linnaeus 1758). U.S. Fish Wildl. Serv., Biol. Report 88-14, 110 pp.

Eggers, J.M. 1989. Incidental capture of sea turtles at Salem Generating Station, Delaware Bay, New Jersey. *In:* Eckert, S.A., K.L. Eckert and T.H. Richardson (Compilers). 1989. Proceedings of the Ninth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-232, p. 221-224.

Ehrhart, L.M. 1980. Threatened and endangered species of the Kennedy Space Center: Marine turtle studies. NASA Contract Report 163122, KSC TR 51-2, Vol. IV, Part 1. A Continuation of Base-line Studies for Environmentally Monitoring Space Transportation Systems at John F. Kennedy Space Center.

Ehrhart, L.M. 1983. Marine turtles of the Indian River Lagoon System. Florida Scientist 46(3-4):337-346.

Ehrhart, L.M. 1984. Structure, status and ecology of loggerhead and green turtle populations in developmental habitats of the Indian River Lagoon System, Florida. *In:* Proceedings of the Western Atlantic Turtle Symposium, p. 256-257.

Ehrhart, L.M. 1985. Characterization of loggerhead and green turtle populations in the Indian River Lagoon System, Florida, with comments on use of the terms, "juvenile" and "subadult." Amer. Zool. 25(4):106A.

Ehrhart, L.M. 1987. Marine turtle mortality in the vicinity of Port Canaveral, Florida, 1977-84. *In:* Witzell, W.N. (Ed.). Ecology of east Florida sea turtles. NOAA Tech. Rep. NMFS 53, p. 1-20.

Ehrhart, L.M. 1991. Fibropapillomas in green turtles of the Indian River Lagoon, Florida: distribution over time and area. *In:* Balazs, G.H. and S.G. Pooley (Eds.). Research Plan for Marine Turtle Fibropapilloma. NOAA Tech. Mem., NOAA-TM-SWFSC-156.

Ehrhart, L.M., P.W. Raymond, J.L. Guseman and R.D. Owen. 1990. A documented case of green turtles killed in an abandoned gill net: the need for better regulation of Florida's gill net fisheries. *In:* Richardson, T.H., J.I. Richardson and M. Donnelly (Compilers). 1990. Proceedings of the Tenth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-278, p. 55-58.

Ehrhart, L.M. and W.E. Redfoot. 1992. Trends in loggerhead and green turtle population densities in Florida's east coast lagoons: The usefulness of CPUE analysis. Florida Scientist 55(1):25.

Ehrhart, L.M. and W.E. Redfoot. 1996. Assessment of green turtle relative abundance in the Cape Canaveral AFS Port area, Trident Submarine Basin. Final Report to USAE Waterways Experiment Station, Coastal Ecology Group, Environmental Laboratory, Vicksburg, MS.

Ehrhart, L.M. and B.E. Witherington. 1986. The role of juveniles and subadults in the ecologic geography of Florida loggerheads and green turtles: Evidence from the central region of the Indian River, Florida. Florida Scientist 49(1):38.

Ehrhart, L.M. and R.G. Yoder. 1976. Initial results of studies of marine turtles in Mosquito Lagoon, Merritt Island NWR, Brevard County, Florida. Florida Scientist 39(1):3.

Ehrhart, L.M. and R.G. Yoder. 1978. The marine turtles of the Merritt Island National Wildlife Refuge, Kennedy Space Center, Florida. *In:* Proceedings of the Florida and Interregional Conference on Sea Turtles. Florida Marine Research Publications No. 33.

Encalada, S.E., P.N. Lahanas, M.M. Miyamoto, K.A. Bjorndal, A.B. Bolten and B.W. Bowen. 1996. Phylogeography and population structure of the green turtle *(Chelonia mydas)* in the Atlantic Ocean and Mediterranean Sea: a mitochondrial DNA control region sequence assessment. Molecular Ecology (in press).

Epperly, S.P., J. Braun, and A. Veishlow. 1995. Sea turtles in North Carolina. Conservation Biology 9(2):384-394.

Ernest, R.G., R.E. Martin, N. Williams-Walls and J.R. Wilcox. 1989. Population dynamics of sea turtles utilizing shallow coastal waters off Hutchinson Island, Florida. *In:* Eckert, S.A., K.L. Eckert and T.H. Richardson (Compilers). 1989. Proceedings of the Ninth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-232, p. 57-59.

Forbes, G.A. and C.J. Limpus. 1993. A non-lethal method for retrieving stomach contents from sea turtles. Wildlife Research 20:339-343.

Frazer, N.B., and L.M. Ehrhart. 1985. Preliminary growth models for green, *Chelonia mydas*, and loggerhead, *Caretta caretta*, turtles in the wild. Copeia 1985(1):73-79.

Guseman, J.L. and L.M. Ehrhart. 1990. Preliminary assessment of a marine turtle population inhabiting the Sabellariid reefs off Indian River County, Florida, with comparisons to a nearby lagoon population. Florida Scientist 53(1):23.

Guseman, J.L. and L.M. Ehrhart. 1990. Green turtles on Sabellariid worm reefs: Initial results from studies on the Florida Atlantic coast. *In:* Richardson, T.H., J.I. Richardson and M. Donnelly (Compilers). 1990. Proceedings of the Tenth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-278, p. 125-127.

Henwood, T.A. 1987. Movements and seasonal changes in loggerhead turtle *Caretta caretta* aggregations in the vicinity of Cape Canaveral, Florida (1978-84). Biological Conservation 40(3):191-202.

Henwood, T.A. and L.H. Ogren. 1987. Distribution and migrations of immature Kemp's ridley turtles *(Lepidochelys kempi)* and green turtles *(Chelonia mydas)* off Florida, Georgia and South Carolina. Northeast Gulf Science 9(2):153-159.

Hillis, D.M., A. Larson, S.K. Davis and E.A. Zimmer. 1990. Nucleic acids III: Sequencing. *In:* Hillis, D.M. and C. Moritz (Eds.). Molecular Systematics. Sinauer Associates, Sunderland, Massachusetts, pp. 318-370.

Hillestad, H.O., J.I. Richardson, and G.K. Williamson. 1978. Incidental capture of sea turtles by shrimp trawlermen in Georgia. Proc. Ann. Conf. S.E. Assoc. Fish and Wildl. Agencies 32:167-178.

Juett, L., C.J. Miller, S.J. Moore, and E.S. Ford. 1976. Summer marine algae at Vero Beach, Florida. Florida Scientist 39(2):76-80.

Keinath, J.A., J.A. Musick and R.A. Byles. 1987. Aspects of the biology of Virginia's sea turtles: 1979-1986. The Virginia Journal of Science 38(4):229-236.

Lazell, J.D., Jr. 1980. New England waters: Critical habitat for marine turtles. Copeia 1980(2):290-295.

Luepschen, L.K. 1987. Seasonal variation in serum testosterone of immature sea turtles in central Florida. Unpublished M.S. Thesis Univ. of Central Florida.

Luepschen, L.K. and L.M. Ehrhart. 1987. Seasonal variation in serum testosterone of immature sea turtles in central Florida. Amer. Zool. 27(4):71A.

Lutcavage, M., and J.A. Musick. 1985. Aspects of the biology of sea turtles in Virginia. Copeia 1985(2):449-456.

Mendonca, M.T. 1983. Movements and feeding ecology of immature green turtles *(Chelonia mydas)* in a Florida lagoon. Copeia 1983(4):1013-1023.

Mendonca, M.T., and L.M. Ehrhart. 1982. Activity, population size and structure of immature *Chelonia mydas* and *Caretta caretta* in Mosquito Lagoon, Florida. Copeia 1982(1):161-167.

Morreale, S.J., A.B. Meylan, S.S. Sadove, and E.A. Standora. 1992. Annual occurrence and winter mortality of marine turtles in New York waters. J. Herpetology 26(3):301-308.

Morreale, S.J., and E.A. Standora. 1990. Occurrence, movement and behavior of the Kemp's ridley and other sea turtles in New York waters. Okeanos Ocean Research Foundation Annual Report: April 1989 - April 1990.

National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1991. Recovery Plan for U.S. Population of Atlantic Green Turtle. National Marine Fisheries Service, Washington, D.C.

Ogren, L., and C. McVea. 1982. Apparent hibernation by sea turtles in North American waters. *In:* Bjorndal, K. A. (Ed.). Biology and Conservation of Sea Turtles. Smithsonian Institution Press, Washington, D.C., p. 127-132.

Redfoot, W.E., L.M. Ehrhart and J.L. Guseman. 1992. A spatial and temporal comparison of the morphomentrics of juvenile green turtles and subadult loggerheads in the central region of the Indian River. Florida Scientist 55(1):25.

Ricker, W.E. 1958. Handbook of computations for biological statistics of fish populations. Fisheries Research Board of Canada, Bulletin No. 119.

Schroeder, B.A., L.M. Ehrhart, J.L. Guseman, R.D. Owens and W.E. Redfoot. 1990. Cold stunning of marine turtles in the Indian River Lagoon System, Florida, December 1989. *In:* Richardson, T.H., J.I. Richardson, and M. Donnelly (Compilers). 1990. Proceedings of the Tenth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-278, p. 67-69.

Schroeder, B.A., and D.W. Owens. 1994. Sex ratio of immature green turtles in an east central Florida developmental habitat. *In:* Schroeder, B.A. and B.E. Witherington (Compilers). 1994. Proceedings of the Thirteenth Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC-341, p. 157-160.

Shaver, D.J. 1990. Sea turtles in south Texas inshore waters. *In:* Richardson, T.H., J.I. Richardson, and M. Donnelly (Compilers). 1990. Proceedings of the Tenth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-278, p. 67-69.

Virnstein, R.W. and P.A. Carbonara. 1985. Seasonal abundance and distribution of drift algae and seagrasses in the mid-Indian River Lagoon, Florida. Aquat. Bot. 23:67-82.

Wershoven, R.W. and J.L. Wershoven. 1989. Assessment of juvenile green turtles and their habitat in Broward County, Florida waters. *In:* Eckert, S.A., K.L. Eckert, T.H. Richardson (Compilers). 1989. Proceedings of the Ninth Annual Workshop on Sea Turtle Conservation and Biology. NOAA Technical Memorandum NMFS-SEFC-232, p. 185-188.

Wells, P. and S. Bellmund. 1990. Sea turtle activity in the Florida Keys 1980-1989. *In:* Richardson, T.H., J.I. Richardson, and M. Donnelly (Compilers). 1990. Proceedings of the Tenth Annual Workshop on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFC-278, p. 25-27.

Wibbels, T.R., G.H. Balazs, D.W. Owens and M.S. Amoss. 1993. Sex ratio of immature green turtles inhabiting the Hawaiian Archipelago. J. Herp. 27(3):327-329.

Wibbels, T.R., D.W. Owens, Y.A. Morris and M.S. Amoss. 1987. Sexing techniques and sex ratios for immature loggerhead sea turtles captured along the Atlantic coast of the United States. *In:* Witzell, W.N. (Ed.). Ecology of east Florida sea turtles. NOAA Tech. Rep. NMFS 53, p. 65-74.

Witherington, B.E. and L.M. Ehrhart. 1989. Hypothermic stunning and mortality of marine turtles in the Indian River Lagoon System, Florida. Copeia 1989(3):696-703.

Table 1. Summary of netting effort in the Indian River Lagoon, Indian River County, Florida, during summer, 1995.

DATE	TAG NUMBERS		EFFORT (in Km-Hours)	SPECIES
8-May-95	BP3164	X6001	1.51	*Caretta caretta*
	BP3259	X6002		*Caretta caretta*
	BP3260	X6003		*Chelonia mydas*
	BP3261	X6004		*Chelonia mydas*
9-May-95	*BP3262	X6007	1.76	*Chelonia mydas*
11-May-95	BP3263	X6008	1.25	*Chelonia mydas*
	BP3264	X6009		*Caretta caretta*
15-May-95	*BP3265	X6010	2.58	*Chelonia mydas*
	BP3266	X6011		*Chelonia mydas*
16-May-95	BBE233	QQJ274	1.91	*Chelonia mydas*
	*BP3267	X6006		*Chelonia mydas*
	BP3268	X6012		*Chelonia mydas*
	BP3269	X6013		*Chelonia mydas*
	BP3270	X6014		*Chelonia mydas*
	N5493	X6015		*Chelonia mydas*
22-May-95	*BP3279	X6018	1.23	*Chelonia mydas*
	BP3280	X6019		*Chelonia mydas*
	BP3282	X6020		*Chelonia mydas*
26-May-95	*BP3283	X6021	1.72	*Chelonia mydas*
30-May-95	BP3284	X6022	1.45	*Chelonia mydas*
5-Jun-95	no captures		0.30	
6-Jun-95	BBE005	QQJ020	2.26	*Caretta caretta*
	BP3288	N5271		*Chelonia mydas*
	*BP3291	X6024		*Chelonia mydas*
	BP3292	X6025		adult male *Chelonia mydas*
	*BP3293	X6034		*Chelonia mydas*
	BP3300	X6023		*Chelonia mydas*
8-Jun-95	*BP3290	X6035	1.45	*Chelonia mydas*
	BP3294	X6036		*Chelonia mydas*

Table 1. continued

DATE	TAG NUMBERS		EFFORT (in Km-Hours)	CAPTURES
8-Jun-95 cont'd	BP3295	X6037		*Chelonia mydas*
15-Jun-95	*BP5508	X6040	2.07	*Chelonia mydas*
	*BP5513	X6041		*Chelonia mydas*
20-Jun-95	BP5522	X6049	1.83	*Caretta caretta*
	BP5523	X6050		*Caretta caretta*
	BP5524	X6058		*Caretta caretta*
	BP5525	X6059		*Chelonia mydas*
26-Jun-95	BP5531	N5488	0.76	*Chelonia mydas*
30-Jun-95	BP5550	N6283	1.14	*Caretta caretta*
	BP5551	X6027		*Caretta caretta*
6-Jul-95	BP5551	X6027	0.75	*Caretta caretta*
	BP5552	X6032		*Caretta caretta*
	BP5553	X6033		*Chelonia mydas*
7-Jul-95	BP5554	X6060	1.02	*Chelonia mydas*
10-Jul-95	no captures		1.58	
18-Jul-95	BP5566	X6082	0.28	*Chelonia mydas*
25-Jul-95	BP5567	X6083	0.64	*Caretta caretta*
	BP5568	X6084		*Caretta caretta*
	BP5569	X6085		*Caretta caretta*
	BP5570	X6086		*Chelonia mydas*
31-Jul-95	BP5573	X6089	2.81	*Chelonia mydas*
	*BP5574	X6088		*Chelonia mydas*
	BP5575	X6087		*Chelonia mydas*
4-Aug-95	BP5571	X6090	1.40	*Chelonia mydas*
	BP5572	X6091		*Chelonia mydas*
10-Aug-95	no captures		1.43	
11-Aug-95	*BP3163	X4335	1.43	*Caretta caretta*

Table 1. continued

DATE	TAG NUMBERS		EFFORT (in Km-Hours)	CAPTURES
11-Aug-95 cont'd	BP5576	X6068		*Chelonia mydas*
15-Aug-95	*BP5583	X6093	1.46	*Chelonia mydas*
	BP5585	X6094		*Chelonia mydas*
11-Sep-95	*BP5586	X6095	2.76	*Chelonia mydas*
	*BP5587	X6096		*Chelonia mydas*

* papillomas present
in C. mydas (14/43) = 33%
in C. caretta (1/15) = 7%

Effort in km-hrs: 38.78
Number of captures:
43 *Chelonia mydas*
15 *Caretta caretta*

Table 2. Summary of netting effort in the Indian River Lagoon, Indian River County, Florida, during fall, 1995.

DATE	TAG NUMBERS		EFFORT (in Km-Hours)	SPECIES
21-Sep-95	BP5550	N6283	3.82	*Caretta caretta*
	BP5588	X6097		*Caretta caretta*
	BP5589	X6098		*Caretta caretta*
	*BP5590	n/a		*Caretta caretta*
22-Sep-95	BP5552	X6032	2.92	*Caretta caretta*
	*BP5591	X6099		*Chelonia mydas*
	BP5592	X6100		*Caretta caretta*
	BP5594	X6128		*Caretta caretta*
	X6126	X6127		adult female *Caretta caretta*
21-Nov-95	*BBE181	QQJ214	2.97	*Chelonia mydas*
	*BP5599	X6107		*Chelonia mydas*
	*BP5600	X6108		*Chelonia mydas*
	BP5601	X6110		*Caretta caretta*
	*BP5602	X6111		*Chelonia mydas*
	*BP5603	X6039		*Chelonia mydas*
	*BP5604	X6113		*Chelonia mydas*
	*BP5605	X6114		*Chelonia mydas*
5-Dec-95	*BP5508	X6040	2.87	*Chelonia mydas*
	BP5606	X6115		*Chelonia mydas*
	*BP5607	X6116		*Chelonia mydas*
	*BP5608	X6117		*Chelonia mydas*
	*BP5609	X6118		*Chelonia mydas*
	BP5610	X6119		*Caretta caretta*
	*BP5611	X6120		*Chelonia mydas*
15-Dec-95	BP3295	X6037	2.60	*Chelonia mydas*
	BP5617	X6121		*Chelonia mydas*
	BP5618	X6122		*Chelonia mydas*
	BP5619	X6123		*Chelonia mydas*
	*BP5620	X6124		*Chelonia mydas*
	*BP5621	X6139		*Chelonia mydas*
	BP5622	X6125		*Chelonia mydas*
	BP5623	X6140		*Chelonia mydas*

* papillomas present
in C. mydas (15/22) = 68%
in C. caretta (1/10) = 10%

Effort in km-hrs: 15.18
Number of captures: 22 *Chelonia mydas*
10 *Caretta caretta*

Table 3. Summary of netting effort in the Indian River Lagoon, Indian River County, Florida, during winter, 1996

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
15-Jan-96	* BP5624 X6141	2.99	*Chelonia mydas*
	* BP5625 X6142		*Chelonia mydas*
	* BP5626 X6145		*Chelonia mydas*
	* BP5627 X6148		*Chelonia mydas*
	BP5628 X6149		*Chelonia mydas*
	BP5629 X6156		*Chelonia mydas*
	BP5630 X6155		*Chelonia mydas*
	BP5631 X6158		*Chelonia mydas*
	* BP5633 X6157		*Chelonia mydas*
	BP5634 X6144		*Chelonia mydas*
	* BP5635 X6147		*Chelonia mydas*
	BP5636 X6146		*Chelonia mydas*
	* BP5637 X6143		*Chelonia mydas*
30-Jan-96	BP5632 X6177	1.36	*Chelonia mydas*
	BP5638 X6178		*Chelonia mydas*
	BP5639 X6179		*Chelonia mydas*
	BP5640 X6180		*Chelonia mydas*
	* BP5641 X6181		*Chelonia mydas*
	* BP5642 X6168		*Chelonia mydas*
	* BP5643 X6172		*Chelonia mydas*
	* BP5644 X6174		*Chelonia mydas*
	* BP5645 X6175		*Chelonia mydas*
	BP5646 X6159		*Chelonia mydas*
	* BP5647 X6160		*Chelonia mydas*
	* BP5648 X6162		*Chelonia mydas*
	BP5649 X6166		*Chelonia mydas*
	* BP5650 X6163		*Chelonia mydas*
	* BP5651 X6170		*Chelonia mydas*
	* BP5652 X6173		*Chelonia mydas*
	* BP5653 X6176		*Chelonia mydas*
	* BP5654 X6167		*Chelonia mydas*
	BP5655 X6171		*Chelonia mydas*
	* BP5656 X6169		*Chelonia mydas*
	* BP5657 X6165		*Chelonia mydas*
	* BP5658 X6164		*Chelonia mydas*
	* BP5659 X6183		*Chelonia mydas*
	* BP5660 X6182		*Chelonia mydas*
	BP5661 X6184		*Chelonia mydas*

Table 3. continued

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
30-Jan-96	BP5662 X6186		*Chelonia mydas*
	BP5663 X6185		*Chelonia mydas*
	BP5664 X6188		*Chelonia mydas*
	* BP5665 X6190		*Chelonia mydas*
	* BP5666 X6189		*Chelonia mydas*
	* BP5667 X6187		*Chelonia mydas*
	BP5668 X6171		*Chelonia mydas*
22-Feb-96	* BP5554 X6195	1.94	*Chelonia mydas*
	BP5661 X6184		*Chelonia mydas*
	* BP5669 X6193		*Chelonia mydas*
	BP5670 X6194		*Chelonia mydas*
	BP5671 X6196		*Chelonia mydas*
	* BP5672 N6353		*Chelonia mydas*
	* BP5673 N6354		*Chelonia mydas*
	* BP5675 X6192		*Chelonia mydas*
	BP5676 N6373		*Caretta caretta*
	* BP5677 N6355		*Chelonia mydas*
	* BP5678 N6356		*Chelonia mydas*
	* BP5679 N6357		*Chelonia mydas*
	BP5680 N6359		*Chelonia mydas*
	* BP5681 N6358		*Chelonia mydas*
	BP5682 N6368		*Chelonia mydas*
	BP5683 N6360		*Chelonia mydas*
	* BP5684 N6362		*Chelonia mydas*
	BP5685 N6363		*Chelonia mydas*
	BP5686 N6366		*Chelonia mydas*
	* BP5687 N6367		*Chelonia mydas*
	BP5688 N6369		*Chelonia mydas*
	* BP5689 N6370		*Chelonia mydas*
	* BP5690 N6371		*Chelonia mydas*
	* BP5691 N6372		*Chelonia mydas*
	BP5692 X6199		*Caretta caretta*
	* BP5693 N6375		*Chelonia mydas*
	* BP5694 X6197		*Chelonia mydas*
	* BP5695 X6198		*Chelonia mydas*
	* BP5696 N6401		*Chelonia mydas*
	BP5697 X6200		*Chelonia mydas*
	* BP5698 N6402		*Chelonia mydas*
	BP5699 N6403		*Chelonia mydas*

Table 3. continued

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
22-Feb-96	* BP5700 N6404		*Chelonia mydas*
	* N6406 N6410		*Chelonia mydas*
	* N6407 N6412		*Chelonia mydas*
	* N6408 N6411		*Chelonia mydas*
	N6405 N6409		*Chelonia mydas*
13-Mar-96	* BP4501 X4701	3.24	*Chelonia mydas*
	BP4502 X4702		*Chelonia mydas*
	* BP4508 X4703		*Chelonia mydas*
	BP4512 X4726		*Chelonia mydas*
	* BP4527 X4727		*Chelonia mydas*
	* BP4528 X4728		*Chelonia mydas*
	* BP5644 X6174		*Chelonia mydas*
	BP4506 X4729		*Chelonia mydas*
	* BP4505 X4705		*Chelonia mydas*
	* BP4504 X4706		*Chelonia mydas*
	BP4507 X4707		*Caretta caretta*
	BP4530 X4730		*Chelonia mydas*
	BP4510 X4708		*Chelonia mydas*
	BP4531 X4731		*Caretta caretta*
	BP4509 X4709		*Chelonia mydas*
	* BP4526 X4710		*Chelonia mydas*
	BP4511 X4711		*Caretta caretta*
14-Mar-96	BP4533 X4732	3.19	*Chelonia mydas*
	BP4534 X4733		*Chelonia mydas*
	* BP4513 X4712		*Chelonia mydas*
	* BP4514 X4713		*Chelonia mydas*
	BP4515 X4714		*Caretta caretta*
	BP5664 X6188		*Chelonia mydas*
	* BP4517 X4716		*Chelonia mydas*
	* BP4541 X4741		*Chelonia mydas*
	BP4516 X4715		*Chelonia mydas*
	* BP4518 X4717		*Chelonia mydas*
	* BP4519 X4718		*Chelonia mydas*
	BP4520 X4719		*Chelonia mydas*
	* BP4521 X4720		*Chelonia mydas*
	BP4532 X4721		*Chelonia mydas*
	BP4523 X4722		*Chelonia mydas*

Table 3. continued

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
14-Mar-96	* BP4524 X4723		*Chelonia mydas*
	BP4525 X4724		*Chelonia mydas*
	BP4522 X4725		*Chelonia mydas*
	BP4535 X4734		*Caretta caretta*
	* BP4529 X4735		*Chelonia mydas*
	BP4538 X4736		*Chelonia mydas*
	* BP4536 X4737		*Chelonia mydas*
	BP4537 X4738		*Chelonia mydas*
	* BP4540 X4739		*Chelonia mydas*
	* BP4539 X4740		*Chelonia mydas*
	* BP4542 X4742		*Chelonia mydas*
	* BP4543 X4743		*Chelonia mydas*
	* BP5650 X6163		*Chelonia mydas*
	BP4544 X4744		*Chelonia mydas*
15-Mar-96	* BP5574 X6088	2.26	*Chelonia mydas*
	* BP4576 X4776		*Chelonia mydas*
	* BP4545 X4745		*Chelonia mydas*
	BP4546 X4746		*Chelonia mydas*
	* BP4547 X4747		*Chelonia mydas*
	BP4548 X4748		*Chelonia mydas*
	BP4549 X4749		*Chelonia mydas*
	BP4577 X4777		*Chelonia mydas*
	* BP4578 X4778		*Chelonia mydas*
	* BP4551 X4751		*Chelonia mydas*
	BP4579 X4779		*Chelonia mydas*
	* BP4561 X4761		*Chelonia mydas*
	* BP4580 X4780		*Chelonia mydas*
	BP4553 X4753		*Chelonia mydas*
	* BP4554 X4754		*Chelonia mydas*
	* BP4555 X4755		*Chelonia mydas*
	* BP4550 X4750		*Chelonia mydas*
	BP4560 X4760		*Chelonia mydas*
	BP4556 X4756		*Chelonia mydas*
	* BP4552 X4752		*Chelonia mydas*
	* BP4557 X4757		*Chelonia mydas*
	BP4558 X4758		*Chelonia mydas*
	* BP4581 X4781		*Chelonia mydas*
	BP4559 X4759		*Chelonia mydas*
	* BP4562 X4762		*Chelonia mydas*

Table 3. continued

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
15-Mar-96	BP4563 X4763		*Chelonia mydas*
	BP4564 X4764		*Chelonia mydas*
	BP4503 X4704		*Chelonia mydas*

* papillomas present
in C. mydas (88 /149) = 59%
in C. caretta 0%

Effort in km-hrs:	14.98	
Number of captures:	149	*Chelonia mydas*
	7	*Caretta caretta*

Table 4. Summary of netting effort in the Indian River Lagoon, Indian River County, Florida, during spring (through May), 1996.

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
29-Apr-96	* BP4541 X4741	2.67	*Chelonia mydas*
	BP4565 X4788		*Chelonia mydas*
	* BP4582 X4782		*Chelonia mydas*
	* BP4583 X4783		*Chelonia mydas*
	* BP4584 X4784		*Chelonia mydas*
	BP4585 X4785		*Chelonia mydas*
	BP4586 X4786		*Chelonia mydas*
	* BP4587 X4787		*Chelonia mydas*
	* BP5599 X6107		*Chelonia mydas*
13-May-96	* BP4508 X4703	1.80	*Chelonia mydas*
	* BP4566 X4766		*Chelonia mydas*
	* BP4567 X4767		*Chelonia mydas*
	* BP4568 X4797		*Chelonia mydas*
	BP4569 X4769		*Chelonia mydas*
	* BP4570 X4770		*Chelonia mydas*
	* BP4571 X4771		*Chelonia mydas*
	BP4572 X4772		*Chelonia mydas*
	* BP4573 X4773		*Chelonia mydas*
	BP4574 X4774		*Chelonia mydas*
	BP4575 X4775		*Chelonia mydas*
	* BP4589 X4793		*Chelonia mydas*
	BP4590 X4790		*Chelonia mydas*
	* BP4591 X4791		*Chelonia mydas*
	BP4592 X4792		*Chelonia mydas*
	BP4593 X4789		*Chelonia mydas*
	* BP4594 X4794		*Chelonia mydas*
	BP4595 X4795		*Chelonia mydas*
	BP4596 X4796		*Chelonia mydas*
	* BP4597 X4768		*Caretta caretta*
	* BP4598 X4798		*Chelonia mydas*
	* BP4599 X4799		*Chelonia mydas*
	BP4600 X4800		*Chelonia mydas*
			Chelonia mydas
15-May-96	BP6601 X4801	1.07	*Caretta caretta*
	* BP6602 X4802		*Chelonia mydas*
	BP6603 X4805		*Caretta caretta*
	BP6604 X4804		*Chelonia mydas*

Table 4. continued

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
15-May-96	* BP6605 X4803		*Chelonia mydas*
	* BP6606 X4806		*Chelonia mydas*
	BP6607 X4807		*Chelonia mydas*
	BP6608 X4808		*Chelonia mydas*
17-May-96	BP3295 X6037	1.22	*Chelonia mydas*
	* BP4588 X4809		*Chelonia mydas*
	BP6610 X4810		*Caretta caretta*
	* BP6611 X4811		*Chelonia mydas*
	* BP6612 X4812		*Chelonia mydas*
	BP6613 X4813		*Chelonia mydas*
	* BP6614 X4814		*Chelonia mydas*
20-May-96	* BP3213 X4817	1.00	*Chelonia mydas*
	* BP4528 X4728		*Chelonia mydas*
	BP5618 X6122		*Chelonia mydas*
	BP6610 X4810		*Caretta caretta*
	* BP6615 X4815		*Chelonia mydas*
	BP6616 X4816		*Chelonia mydas*
	BP6618 X4818		*Chelonia mydas*
	* BP6619 X4819		*Chelonia mydas*
	BP6620 X4820		*Chelonia mydas*
24-May-96	BP5632 X6177	1.48	*Chelonia mydas*
	BP6617 X6001		*Caretta caretta*
	* BP6621 X4821		*Chelonia mydas*
	BP6622 X4822		*Chelonia mydas*
	BP6623 X4823		*Chelonia mydas*
28-May-96	* BP3300 X4765	1.06	*Chelonia mydas*
	* BP4583 X4783		*Chelonia mydas*
	BP6644 X4844		*Chelonia mydas*
	* BP6645 X4845		*Chelonia mydas*
	* BP6646 X4846		*Chelonia mydas*
	BP6647 X4847		*Chelonia mydas*
	* BP6648 X4848		*Chelonia mydas*
	BP6649		*Caretta caretta*

Table 4. continued

DATE	TAG NUMBERS	EFFORT (in Km-Hours)	SPECIES
28-May-96	BP6650 X4850		*Chelonia mydas*
31-May-96	* BP6609 X4849	0.81	*Chelonia mydas*
	* BP6624 X4824		*Chelonia mydas*
	* BP6625 X4825		*Chelonia mydas*
	* BP6642 X4842		*Chelonia mydas*
	BP6643 X4843		*Caretta caretta*

*papillomas present
in C. mydas (40/67)= 59.7%
in C. caretta 0%

Effort in km-hrs:	11.11		
Number of captures:		67	*Chelonia mydas*
		8	*Caretta caretta*

Table 5. CPUE data for loggerheads and green turtles net-captured in the Indian River Lagoon, Indian River County, Florida, during summer, 1995.

Date	Hours	Length of Net In Kilometers	Loggerhead Captures	Green Turtle Captures	Loggerhead LogCPUE	Green Turtle GmCPUE	Total TotCPUE
8-May-95	3.28	0.46	2	2	1.32	1.32	2.65
9-May-95	3.82	0.46	0	1	0.00	0.57	0.57
11-May-95	2.72	0.46	1	1	0.80	0.80	1.60
15-May-95	5.62	0.46	0	2	0.00	0.77	0.77
16-May-95	4.15	0.46	0	6	0.00	3.14	3.14
22-May-95	2.67	0.46	0	3	0.00	2.45	2.45
26-May-95	3.73	0.46	0	1	0.00	0.58	0.58
30-May-95	3.15	0.46	0	1	0.00	0.69	0.69
5-Jun-95	0.63	0.46	0	0	0.00	0.00	0.00
6-Jun-95	4.92	0.46	1	5	0.44	2.21	2.65
8-Jun-95	3.15	0.46	0	3	0.00	2.07	2.07
15-Jun-95	4.50	0.46	0	2	0.00	0.97	0.97
20-Jun-95	3.98	0.46	3	1	1.64	0.55	2.18
26-Jun-95	1.65	0.46	0	1	0.00	1.32	1.32
30-Jun-95	2.48	0.46	2	0	1.75	0.00	1.75
6-Jul-95	1.63	0.46	2	1	2.66	1.33	3.99
7-Jul-95	2.22	0.46	0	1	0.00	0.98	0.98
10-Jul-95	3.42	0.46	0	0	0.00	0.00	0.00
18-Jul-95	0.62	0.46	0	1	0.00	3.53	3.53
25-Jul-95	1.38	0.46	3	1	4.71	1.57	6.29
31-Jul-95	6.12	0.46	0	3	0.00	1.07	1.07
4-Aug-95	3.05	0.46	0	2	0.00	1.43	1.43
10-Aug-95	3.12	0.46	0	0	0.00	0.00	0.00
11-Aug-95	3.12	0.46	1	1	0.70	0.70	1.40
15-Aug-95	3.18	0.46	0	2	0.00	1.37	1.37
11-Sep-95	6.00	0.46	0	2	0.00	0.72	0.72

Total Net hours	Total Km-hrs	Caretta Captures	Chelonia Captures	Caretta CPUE	Chelonia CPUE	Total CPUE
84.30	38.78	15	43	0.54	1.16	1.70

Table 6. CPUE data for loggerheads and green turtles net-captured in the Indian River Lagoon, Indian River County, Florida, during fall, 1995.

Date	Hours	Length of Net In Kilometers	Loggerhead Captures	Green Turtle Captures	Loggerhead LogCPUE	Green Turtle GrnCPUE	Total TotCPUE
21-Sep-95	8.3	0.46	4	0	1.05	0.00	1.05
22-Sep-95	6.35	0.46	4	1	1.37	0.34	1.71
21-Nov-95	6.45	0.46	1	7	0.34	2.36	2.70
5-Dec-95	6.25	0.46	1	6	0.35	2.09	2.43
15-Dec-95	5.65	0.46	0	8	0.00	3.08	3.08

Total Net hours	Total Km-hrs	Caretta Captures	Chelonia Captures	Caretta CPUE	Chelonia CPUE	Total CPUE
33.00	15.18	10	22	0.62	1.57	2.19

Table 7. Catch per unit effort in km-hrs for net-captured juvenile green and subadult loggerheads in the Indian River Lagoon, Indian River County, Florida, during winter 1996.

Date	Hours	Length of Net In kilometers	Loggerhead Captures	Green Turtle Captures	Loggerhead LogCPUE	Green Turtle GrnCPUE	Total TotCPUE
15-Jan-96	6.50	0.46	0	13	0.00	4.35	4.35
30-Jan-96	1.50	0.46	0	22	0.00	31.88	31.88
30-Jan-96	1.45	0.46	0	10	0.00	14.99	14.99
22-Feb-96	1.50	0.46	1	24	1.45	34.78	36.23
22-Feb-96	3.33	0.24	1	2	1.25	2.50	3.75
22-Feb-96	2.17	0.26	0	9	0.00	15.98	15.98
13-Mar-96	7.03	0.46	3	15	0.93	4.64	5.56
14-Mar-96	6.93	0.46	2	27	0.63	8.47	9.09
15-Mar-96	4.92	0.46	0	27	0.00	11.94	11.94

Total Net hours	Total Km-hrs	Caretta Captures	Chelonia Captures	Caretta CPUE	Chelonia CPUE	Total CPUE
35.33	15.09	7	149	0.47	14.39	14.86

Table 8. Catch per unit effort in km-hrs for net-captured juvenile green and subadult loggerheads in the Indian River Lagoon, Indian River County, Florida, during spring 1996, through May.

Date	Hours	Length of Net In kilometers	Loggerhead Captures	Green Turtle Captures	Loggerhead LogCPUE	Green Turtle GrnCPUE	Total TotCPUE
29-Apr-96	5.80	0.46	0	9	0.00	3.37	3.37
13-May-96	3.92	0.46	1	22	0.56	12.21	12.77
15-May-96	2.33	0.46	2	6	1.86	5.59	7.45
17-May-96	2.65	0.46	1	6	0.82	4.92	5.74
20-May-96	2.18	0.46	1	8	1.00	7.97	8.96
24-May-96	3.22	0.46	1	4	0.68	2.70	3.38
28-May-96	2.30	0.46	1	8	0.95	7.56	8.51
31-May-96	1.77	0.46	1	4	1.23	4.92	6.15

Total Net hours	Total Km-hrs	Caretta Captures	Chelonia Captures	Caretta CPUE	Chelonia CPUE	Total CPUE
24.17	11.12	8	67	0.89	6.16	7.04

Table 9. CPUE data for loggerheads and green turtles net-captured over Sabellariid worm reefs in Indian River County, Florida, during summer, 1995.

Date	Hours	Length of Net In Kilometers	Loggerhead Captures	Green turtle Captures	Loggerhead LogCPUE	Green Turtle GrnCPUE	Total TotCPUE
9-Jun-95	1.45	0.22	0	1	0.00	3.13	3.13
9-Jun-95	0.78	0.22	0	0	0.00	0.00	0.00
12-Jun-95	0.82	0.22	0	0	0.00	0.00	0.00
12-Jun-95	1.93	0.22	0	3	0.00	7.05	7.05
13-Jun-95	2.10	0.22	0	7	0.00	15.15	15.15
13-Jun-95	0.53	0.22	0	0	0.00	0.00	0.00
26-Jun-95	1.53	0.22	0	4	0.00	11.86	11.86
27-Jun-95	2.00	0.22	1	3	2.27	6.82	9.09
27-Jun-95	0.70	0.22	0	5	0.00	32.47	32.47
29-Jun-95	0.82	0.22	0	0	0.00	0.00	0.00
29-Jun-95	0.92	0.22	0	9	0.00	44.63	44.63
10-Jul-95	1.65	0.22	0	2	0.00	5.51	5.51
11-Jul-95	1.35	0.22	0	3	0.00	10.10	10.10
21-Jul-95	1.00	0.22	0	0	0.00	0.00	0.00
21-Jul-95	1.02	0.22	0	0	0.00	0.00	0.00
24-Jul-95	1.22	0.22	0	0	0.00	0.00	0.00

Total Net hours	Total Km-hrs	Caretta Captures	Chelonia Captures	Caretta CPUE	Chelonia CPUE	Total CPUE
19.82	4.36	1	37	0.14	8.55	8.69

Table 10. Summary of netting effort over Sabellariid worm reefs in Indian River County, Florida, in 1995.

DATE	TAG NUMBERS		LOCATION	EFFORT (in Km-Hours)	SPECIES
9-Jun-95	BP3296	N5250	3	0.32	*Chelonia mydas*
9-Jun-95	no captures		2	0.17	
12-Jun-95	no captures		1	0.18	
12-Jun-95	BP3297	N5477	3	0.43	*Chelonia mydas*
	BP3298	N5401	3		*Chelonia mydas*
	BP3299	N5402	3		*Chelonia mydas*
13-Jun-95	BP5504	X6038	2	0.46	*Chelonia mydas*
	BP5507	N5478	2		*Chelonia mydas*
	BP5505	N5479	2		*Chelonia mydas*
	BP5503	N5480	2		*Chelonia mydas*
	BP5502	N5481	2		*Chelonia mydas*
	BP5501	N5482	2		*Chelonia mydas*
13-Jun-95	BP5506	N5483	3	0.12	*Chelonia mydas*
26-Jun-95	BP5527	N5484	2	0.34	*Chelonia mydas*
	BP5528	N5487	2		*Chelonia mydas*
	BP5529	N5485	2		*Chelonia mydas*
	BP5530	N5486	2		*Chelonia mydas*
27-Jun-95	BP5532	N5490	2	0.44	*Chelonia mydas*
	BP5533	N5491	2		*Chelonia mydas*
	BP5534	N5489	2		*Chelonia mydas*
	n/a	N5492	2		*adult female Caretta caretta*
27-Jun-95	BP5535	N5494	3	0.15	*Chelonia mydas*
	BP5537	N5495	3		*Chelonia mydas*
	BP5538	N5496	3		*Chelonia mydas*
	BP5539	N5497	3		*Chelonia mydas*
	BP5540	N5498	3		*Chelonia mydas*
29-Jun-95	no captures		2	0.18	
29-Jun-95	BP5541	N5499	3	0.20	*Chelonia mydas*
	BP5542	N5500	3		*Chelonia mydas*
	BP5543	N6276	3		*Chelonia mydas*
	BP5544	N6279	3		*Chelonia mydas*
	BP5545	N6278	3		*Chelonia mydas*
	BP5546	N6280	3		*Chelonia mydas*
	BP5547	N6277	3		*Chelonia mydas*
	BP5548	N6281	3		*Chelonia mydas*
	BP5549	N6282	3		*Chelonia mydas*

Table 10 continued

DATE	TAG NUMBERS		LOCATION	EFFORT (In Km-Hours)	CAPTURES
10-Jul-95	BP5555	N6284	2	0.36	*Chelonia mydas*
	BP5556	N6285	2		*Chelonia mydas*
11-Jul-95	BP5557	N6288	2	0.30	*Chelonia mydas*
	BP5558	N6286	2		*Chelonia mydas*
	BP5559	N6287	2		*Chelonia mydas*
21-Jul-95	no captures		2	0.22	
21-Jul-95	no captures		3	0.22	
24-Jul-95	no captures		3	0.27	

*papillomas present 0%

Effort in km-hrs: 4.36

Number of captures: 37 *Chelonia mydas*
1 *Caretta caretta*

Location 1: off McLarty Museum, 3.2 km south of Sebastian Inlet.

Location 2: off Ambersand Beach, approximately 4.8 km south of Sebastion Inlet.

Locaton 3: 5.3 km south of Sebastian Inlet.

Table 11. Blood samples for various analyses as indicated below, collected from net-captured marine turtles in the Indian River Lagoon, Indian River County, Florida, 1992 through 1996.

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BBA759 X1542	5/13/92	Chelonia mydas	y	-	1	-
BBA761 X2285	5/13/92	Chelonia mydas	y	-	1	-
BBA765 X2288	5/15/92	Chelonia mydas	no	-	1	-
BBA766 X2289	5/15/92	Chelonia mydas	no	-	1	-
BBA761	11/13/92	Chelonia mydas	y	-	1	-
BP2542 X4340	11/13/92	Chelonia mydas	y	-	1	-
BP2545 X4343	11/13/92	Chelonia mydas	y	-	1	-
BP529 X4352	11/13/92	Chelonia mydas	y	-	1	-
BP2551 X4350	11/24/92	Chelonia mydas	y	-	1	-
BP2593 N2037	6/22/93	Chelonia mydas	no	-	1	-
BP2606 N2043	6/25/93	Chelonia mydas	no	-	1	-
BP2607 N2044	6/25/93	Chelonia mydas	y	-	1	-
BP2651 N2341	7/14/93	Chelonia mydas	no	-	1	-
BP2600 N2342	7/15/93	Chelonia mydas	no	-	1	-
BP2669 N2385	7/30/93	Chelonia mydas	no	-	1	-
BP2670 N2386	7/30/93	Chelonia mydas	no	-	1	-
BP2672 N2388	8/3/93	Chelonia mydas	no	-	1	-
BP2677 X317	8/10/93	Caretta caretta	no	-	1	1
BP2685 X4469	8/10/93	Caretta caretta	no	-	1	1
BP3117 N3048	12/21/93	Chelonia mydas	no	-	1	1
BP3167 N3192	6/2/94	Chelonia mydas	no	-	2	1
BP3180 N4504	7/5/94	Chelonia mydas	y	-	-	1
BP3183 N4505	7/5/94	Chelonia mydas	y	-	1	-
BP3196 N5202	7/22/94	Chelonia mydas	no	-	1	-
BP3206 N5206	7/25/94	Chelonia mydas	no	-	1	1
N5219	8/16/94	Chelonia mydas	y	-	1	-
BP3208 N5239	11/25/94	Chelonia mydas	no	-	1	-
BP3210 N5220	11/25/94	Chelonia mydas	no	-	1	1
BP3212 N5222	11/25/94	Chelonia mydas	no	-	1	1
BP3213 N5223	11/25/94	Chelonia mydas	no	-	1	1
BP3214 N5224	11/25/94	Chelonia mydas	no	-	1	1
BP3215 N5225	11/25/94	Chelonia mydas	no	-	1	1
N5221	11/25/94	Chelonia mydas	y	-	1	1
BBE005 QQJ020	6/6/95	Caretta caretta	no	1	2	1
BBE181 QQJ214	11/21/95	Chelonia mydas	y	1	1	1
BP3163 X4335	8/11/95	Caretta caretta	y	1	1	1
BP3164 X6001	5/8/95	Caretta caretta	no	1	1	1
BP3259 X6002	5/8/95	Caretta caretta	no	1	-	-
BP3260 X6003	5/8/95	Chelonia mydas	no	-	1	1
BP3261 X6004	5/8/95	Chelonia mydas	no	-	1	1
BP3262 X6007	5/9/95	Chelonia mydas	y	-	1	1
BP3263 X6008	5/11/95	Chelonia mydas	no	-	1	1
BP3264 X6009	5/11/95	Caretta caretta	no	1	1	1
BP3265 X6010	5/15/95	Chelonia mydas	y	-	1	1
BP3267 X6006	5/16/95	Chelonia mydas	y	-	1	1
BP3268 X6012	5/16/95	Chelonia mydas	no	-	1	1
BP3269 X6013	5/16/95	Chelonia mydas	no	-	1	1

Table 11. continued

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP3270 X6014	5/16/95	Chelonia mydas	no	-	1	1
BP3279 X6018	5/22/95	Chelonia mydas	y	-	1	1
BP3280 X6019	5/22/95	Chelonia mydas	no	-	1	1
BP3282 X6020	5/22/95	Chelonia mydas	no	-	1	1
BP3283 X6021	5/26/95	Chelonia mydas	y	-	1	1
BP3284 X6022	5/30/95	Chelonia mydas	no	-	1	1
BP3288 N5271	6/6/95	Chelonia mydas	no	-	1	1
BP3290 X6035	6/8/95	Chelonia mydas	y	-	1	1
BP3291 X6024	6/6/95	Chelonia mydas	y	-	1	1
BP3292 X6025	6/6/95	Adult male C. mydas	no	1	2	-
BP3293 X6034	6/6/95	Chelonia mydas	y	-	1	1
BP3294 X6036	6/8/95	Chelonia mydas	no	1	1	1
BP3295 X6037	12/15/95	Chelonia mydas	no	1	1	1
BP3295 X6037	6/8/95	Chelonia mydas	no	-	1	1
BP5508 X6040	12/5/95	Chelonia mydas	y	1	2	-
BP5508 X6040	6/15/95	Chelonia mydas	y	1	1	1
BP5513 X6041	6/15/95	Chelonia mydas	y	1	1	1
BP5522 X6049	6/20/95	Caretta caretta	no	1	1	1
BP5523 X6050	6/20/95	Caretta caretta	no	1	1	1
BP5524 X6058	6/20/95	Caretta caretta	no	1	1	1
BP5525 X6059	6/20/95	Chelonia mydas	no	-	1	1
BP5531 N5488	6/26/95	Chelonia mydas	no	1	1	1
BP5550 N6283	9/2195	Caretta caretta	no	1	1	-
BP5550 N6283	6/30/95	Caretta caretta	no	1	1	1
BP5552 X6032	9/22/95	Caretta caretta	no	1	1	1
BP5553 X6033	7/6/95	Chelonia mydas	no	1	1	1
BP5554 X6060	7/7/95	Chelonia mydas	no	1	1	1
BP5567 X6083	7/25/95	Caretta caretta	no	1	1	1
BP5568 X6084	7/25/95	Caretta caretta	no	1	1	1
BP5569 X6085	7/25/95	Caretta caretta	no	1	1	1
BP5570 X6086	7/25/95	Chelonia mydas	no	1	1	1
BP5571 X6090	8/4/95	Chelonia mydas	no	1	1	1
BP5572 X6091	8/4/95	Chelonia mydas	no	1	1	1
BP5573 X6089	7/31/95	Chelonia mydas	no	1	1	1
BP5574 X6088	7/31/95	Chelonia mydas	y	1	1	1
BP5575 X6087	7/31/95	Chelonia mydas	no	1	1	1
BP5576 X6068	8/11/95	Chelonia mydas	no	1	1	1
BP5583 X6093	8/15/95	Chelonia mydas	y	1	1	1
BP5585 X6094	8/15/95	Chelonia mydas	no	1	1	1
BP5586 X6095	9/11/95	Chelonia mydas	y	1	1	1
BP5587 X6096	9/11/95	Chelonia mydas	y	1	1	1
BP5588 X6097	9/21/95	Caretta caretta	no	1	1	1
BP5589 X6098	9/21/95	Caretta caretta	no	1	1	1
BP5590 n/a	9/21/95	Caretta caretta	y	1	1	1
BP5591 X6099	9/22/95	Chelonia mydas	y	1	1	1
BP5592 X6100	9/22/95	Caretta caretta	no	1	1	1
BP5594 X6128	9/22/95	Caretta caretta	no	1	1	1
BP5599 X6107	11/21/95	Chelonia mydas	y	1	1	1
BP5600 X6108	11/21/95	Chelonia mydas	y	1	1	1

Table 11. continued

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP5601 X6110	11/21/95	Caretta caretta	no	1	1	1
BP5602 X6111	11/21/95	Chelonia mydas	y	1	1	1
BP5603 X6039	11/21/95	Chelonia mydas	y	1	2	1
BP5604 X6113	11/21/95	Chelonia mydas	y	1	2	1
BP5605 X6114	11/21/95	Chelonia mydas	y	1	1	1
BP5606 X6115	12/5/95	Chelonia mydas	no	1	1	1
BP5607 X6116	12/5/95	Chelonia mydas	y	1	1	1
BP5608 X6117	12/5/95	Chelonia mydas	y	1	1	1
BP5609 X6118	12/5/95	Chelonia mydas	y	1	1	1
BP5610 X6119	12/5/95	Caretta caretta	no	1	1	1
BP5611 X6120	12/5/95	Chelonia mydas	y	1	1	1
BP5617 X6121	12/15/95	Chelonia mydas	no	1	1	1
BP5618 X6122	12/15/95	Chelonia mydas	no	1	1	1
BP5619 X6123	12/15/95	Chelonia mydas	y	1	1	1
BP5620 X6124	12/15/95	Chelonia mydas	y	1	1	1
BP5621 X6139	12/15/95	Chelonia mydas	y	1	1	1
BP5622 X6125	12/15/95	Chelonia mydas	no	1	1	1
BP5623 X6140	12/15/95	Chelonia mydas	no	1	1	1
X6126 X6127	9/22/95	Adult female C. caretta	no	1	2	-
BP5624 X6141	1/15/96	Chelonia mydas	y	1	1	1
BP5625 X6142	1/15/96	Chelonia mydas	y	1	1	1
BP5626 X6145	1/15/96	Chelonia mydas	y	1	1	1
BP5627 X6148	1/15/96	Chelonia mydas	y	1	1	1
BP5628 X6149	1/15/96	Chelonia mydas	no	1	1	1
BP5629 X6156	1/15/96	Chelonia mydas	no	1	1	1
BP5630 X6155	1/15/96	Chelonia mydas	no	1	1	1
BP5631 X6158	1/15/96	Chelonia mydas	no	1	1	1
BP5633 X6157	1/15/96	Chelonia mydas	y	1	1	1
BP5634 X6144	1/15/96	Chelonia mydas	no	1	1	1
BP5635 X6147	1/15/96	Chelonia mydas	y	1	1	1
BP5636 X6146	1/15/96	Chelonia mydas	no	1	1	1
BP5637 X6143	1/15/96	Chelonia mydas	y	1	2	1
BP5632 X6177	1/30/96	Chelonia mydas	no	1	1	1
BP5638 X6178	1/30/96	Chelonia mydas	no	1	1	1
BP5639 X6179	1/30/96	Chelonia mydas	no	1	1	1
BP5640 X6180	1/30/96	Chelonia mydas	no	1	1	1
BP5641 X6181	1/30/96	Chelonia mydas	y	1	1	1
BP5642 X6168	1/30/96	Chelonia mydas	y	1	1	1
BP5643 X6172	1/30/96	Chelonia mydas	y	1	1	1
BP5644 X6174	1/30/96	Chelonia mydas	y	1	1	1
BP5645 X6175	1/30/96	Chelonia mydas	y	1	1	1
BP5646 X6159	1/30/96	Chelonia mydas	no	1	1	1
BP5647 X6160	1/30/96	Chelonia mydas	y	1	1	1
BP5648 X6162	1/30/96	Chelonia mydas	y	1	1	1
BP5649 X6166	1/30/96	Chelonia mydas	no	1	1	1
BP5650 X6163	1/30/96	Chelonia mydas	y	1	1	1
BP5651 X6170	1/30/96	Chelonia mydas	y	1	2	1
BP5652 X6173	1/30/96	Chelonia mydas	y	1	1	1
BP5653 X6176	1/30/96	Chelonia mydas	y	1	1	1

Table 11. continued

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP5654 X6167	1/30/96	Chelonia mydas	y	1	2	1
BP5655 X6171	1/30/96	Chelonia mydas	no	1	1	1
BP5656 X6169	1/30/96	Chelonia mydas	y	1	1	1
BP5657 X6165	1/30/96	Chelonia mydas	y	1	3	1
BP5658 X6164	1/30/96	Chelonia mydas	y	1	2	1
BP5659 X6183	1/30/96	Chelonia mydas	y	1	1	1
BP5660 X6182	1/30/96	Chelonia mydas	y	-	1	1
BP5661 X6184	1/30/96	Chelonia mydas	no	1	1	1
BP5663 X6185	1/30/96	Chelonia mydas	no	1	1	1
BP5664 X6188	1/30/96	Chelonia mydas	no	1	1	1
BP5665 X6190	1/30/96	Chelonia mydas	y	1	2	1
BP5666 X6189	1/30/96	Chelonia mydas	y	1	1	1
BP5667 X6187	1/30/96	Chelonia mydas	y	1	1	1
BP5668 X6191	1/30/96	Chelonia mydas	no	1	2	1
BP5676 N6373	2/22/96	Caretta caretta	no	1	1	1
BP5692 X6199	2/22/96	Caretta caretta	no	1	1	1
BP4501 X4701	3/13/96	Chelonia mydas	y	-	1	1
BP4502 X4702	3/13/96	Chelonia mydas	no	-	1	1
BP4503 X4704	3/13/96	Chelonia mydas	no	-	1	1
BP4504 X4706	3/13/96	Chelonia mydas	y	1	1	1
BP4505 X4705	3/13/96	Chelonia mydas	y	-	1	1
BP4506 X4729	3/13/96	Chelonia mydas	no	-	1	1
BP4507 X4707	3/13/96	Caretta caretta	no	1	1	1
BP4511 X4711	3/13/96	Caretta caretta	no	1	2	1
BP4512 X4726	3/13/96	Chelonia mydas	no	1	1	1
BP4513 X4712	3/14/96	Chelonia mydas	y	-	1	1
BP4514 X4713	3/14/96	Chelonia mydas	y	-	3	1
BP4515 X4714	3/14/96	Caretta caretta	no	1	1	1
BP4516 X4715	3/14/96	Chelonia mydas	no	-	1	1
BP4517 X4716	3/14/96	Chelonia mydas	y	-	1	1
BP4518 X4717	3/14/96	Chelonia mydas	y	-	1	1
BP4520 X4719	3/14/96	Chelonia mydas	no	-	1	1
BP4523 X4722	3/14/96	Chelonia mydas	no	-	1	1
BP4525 X4724	3/14/96	Chelonia mydas	no	-	1	1
BP4526 X4710	3/13/96	Chelonia mydas	y	-	2	1
BP4527 X4727	3/13/96	Chelonia mydas	y	-	1	1
BP4530 X4730	3/13/96	Chelonia mydas	no	-	1	1
BP4531 X4731	3/13/96	Caretta caretta	no	1	1	1
BP4533 X4732	3/14/96	Chelonia mydas	no	-	1	1
BP4534 X4733	3/14/96	Chelonia mydas	no	-	1	1
BP4535 X4734	3/14/96	Caretta caretta	no	1	1	1
BP4538 X4736	3/14/96	Chelonia mydas	no	-	1	1
BP4541 X4741	4/29/96	Chelonia mydas	y	-	2	1
BP4565 X4788	4/29/96	Chelonia mydas	no	-	2	1
BP4582 X4782	4/29/96	Chelonia mydas	y	-	1	1
BP4583 X4783	4/29/96	Chelonia mydas	y	-	1	1
BP4584 X4784	4/29/96	Chelonia mydas	y	-	2	1
BP4585 X4785	4/29/96	Chelonia mydas	no	-	1	1
BP4586 X4786	4/29/96	Chelonia mydas	no	-	2	1

Table 11. continued

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP4587 X4787	4/29/96	Chelonia mydas	y	-	2	1
BP5599 X6107	4/29/96	Chelonia mydas	y	-	3	2
BP4566 X4766	5/13/96	Chelonia mydas	y	-	2	1
BP4567 X4767	5/13/96	Chelonia mydas	y	-	2	1
BP4568 X4797	5/13/96	Chelonia mydas	y	-	2	1
BP4569 X4769	5/13/96	Chelonia mydas	no	-	2	1
BP4570 X4770	5/13/96	Chelonia mydas	y	-	2	1
BP4571 X4771	5/13/96	Chelonia mydas	y	1	3	1
BP4572 X4772	5/13/96	Chelonia mydas	no	1	2	1
BP4573 X4773	5/13/96	Chelonia mydas	y	-	3	1
BP4574 X4774	5/13/96	Chelonia mydas	no	-	2	1
BP4575 X4775	5/13/96	Chelonia mydas	no	-	4	1
BP4589 X4793	5/13/96	Chelonia mydas	y	-	2	1
BP4590 X4790	5/13/96	Chelonia mydas	y	-	2	1
BP4591 X4791	5/13/96	Chelonia mydas	y	-	2	1
BP4592 X4792	5/13/96	Chelonia mydas	y	-	3	1
BP4593 X4789	5/13/96	Chelonia mydas	no	-	2	1
BP4594 X4794	5/13/96	Chelonia mydas	y	-	2	1
BP4595 X4795	5/13/96	Chelonia mydas	no	-	2	1
BP4596 X4796	5/13/96	Caretta caretta	no	1	5	1
BP4598 X4798	5/13/96	Chelonia mydas	y	-	2	1
BP4599 X4799	5/13/96	Chelonia mydas	y	-	3	1
BP4600 X4800	5/13/96	Chelonia mydas	no	-	2	1
BP3295 X6037	5/17/96	Chelonia mydas	no	-	2	1
BP4588 X4809	5/17/96	Chelonia mydas	y	-	2	1
BP6610 X4810	5/17/96	Caretta caretta	no	1	1	1
BP6611 X4811	5/17/96	Chelonia mydas	y	-	2	1
BP6612 X4812	5/17/96	Chelonia mydas	y	-	2	1
BP6613 X4813	5/17/96	Chelonia mydas	no	1	2	1
BP6614 X4814	5/17/96	Chelonia mydas	y	-	1	1
BP3213 X4817	5/20/96	Chelonia mydas	y	-	2	1
BP5618 X6122	5/20/96	Chelonia mydas	no	-	1	1
BP6615 X4815	5/20/96	Chelonia mydas	y	-	2	1
BP6616 X4816	5/20/96	Chelonia mydas	no	-	2	1
BP6618 X4818	5/20/96	Chelonia mydas	no	-	2	1
BP5632 X6177	5/24/96	Chelonia mydas	no	-	2	1
BP6617 X6001	5/24/96	Caretta caretta	no	1	2	1
BP6621 X4821	5/24/96	Chelonia mydas	y	-	2	1
BP6622 X4822	5/24/96	Chelonia mydas	no	-	2	1
BP3300 X4765	5/28/96	Chelonia mydas	y	-	2	1
BP4583 X4783	5/28/96	Chelonia mydas	y	-	2	1
BP6644 X4844	5/28/96	Chelonia mydas	no	-	2	1
BP6645 X4845	5/28/96	Chelonia mydas	y	-	2	1
BP6646 X4846	5/28/96	Chelonia mydas	y	-	2	1
BP6647 X4847	5/28/96	Chelonia mydas	no	-	2	1
BP6648 X4848	5/28/96	Chelonia mydas	y	-	2	1
BP6649 n/a	5/28/96	Caretta caretta	no	1	1	1
BP6650 X4850	5/28/96	Chelonia mydas	no	-	2	1
BP6609 X4849	5/31/96	Chelonia mydas	y	-	2	1

Table 11. continued

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP6624 X4824	5/31/96	Chelonia mydas	y	-	2	1
BP6625 X4825	5/31/96	Chelonia mydas	y	-	2	1
BP6642 X4842	5/31/96	Chelonia mydas	y	-	2	1
Number of samples collected				121	325	222

Table 12. Blood samples for various analyses as indicated below, collected from juvenile green turtles net-captured over Sabellariid worm reefs in Indian River County, Florida, 1993 through 1995.

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP2594 N2038	23-Jun-93	Chelonia mydas	no	-	1	-
BP2595 N2039	23-Jun-93	Chelonia mydas	no	-	1	-
BP2596 N2040	23-Jun-93	Chelonia mydas	no	-	1	-
BP2610 N2050	1-Jul-93	Chelonia mydas	no	-	1	-
BP2611 N2049	1-Jul-93	Chelonia mydas	no	-	1	-
BP2612 N2048	1-Jul-93	Chelonia mydas	no	-	1	-
BP2613 N2047	1-Jul-93	Chelonia mydas	no	-	1	-
BP2614 N2252	1-Jul-93	Chelonia mydas	no	-	1	-
BP2615 N2251	1-Jul-93	Chelonia mydas	no	-	1	-
BP2617 N2257	2-Jul-93	Chelonia mydas	no	-	1	-
BP2618 N2255	2-Jul-93	Chelonia mydas	no	-	1	-
BP2619 N2260	2-Jul-93	Chelonia mydas	no	-	1	-
BP2620 N2260	2-Jul-93	Chelonia mydas	no	-	1	-
BP2621 N2256	2-Jul-93	Chelonia mydas	no	-	1	-
BP2622 N2258	2-Jul-93	Chelonia mydas	no	-	1	-
BP2623 N2259	2-Jul-93	Chelonia mydas	no	-	1	-
BP2624 N2254	2-Jul-93	Chelonia mydas	no	-	2	-
BP2625 N2261	2-Jul-93	Chelonia mydas	no	-	1	-
BP2653 N2344	20-Jul-93	Chelonia mydas	no	-	1	-
BP2654 N2345	20-Jul-93	Chelonia mydas	no	-	1	-
BP2655 N2346	20-Jul-93	Chelonia mydas	no	-	1	-
BP2656 N2347	23-Jul-93	Chelonia mydas	no	-	1	-
BP2657 N2376	23-Jul-93	Chelonia mydas	no	-	1	-
BP2658 N2378	23-Jul-93	Chelonia mydas	no	-	1	-
BP2659 N2377	23-Jul-93	Chelonia mydas	no	-	1	-
BP2660 N2350	23-Jul-93	Chelonia mydas	no	-	1	-
BP2661 N2349	23-Jul-93	Chelonia mydas	no	-	1	-
BP2662 N2379	23-Jul-93	Chelonia mydas	no	-	1	-
BP2663 N2348	23-Jul-93	Chelonia mydas	no	-	1	-
BP2664 N2380	27-Jul-93	Chelonia mydas	no	-	1	-
BP2665 N2381	27-Jul-93	Chelonia mydas	no	-	1	-
BP2658 N2378	13-Aug-93	Chelonia mydas	no	-	1	-
BP2684 N3178	13-Aug-93	Chelonia mydas	no	-	1	-
BP2685 N3164	13-Aug-93	Chelonia mydas	no	-	1	-
BP2686 N3168	13-Aug-93	Chelonia mydas	no	-	1	-
BP2687 N3165	13-Aug-93	Chelonia mydas	no	-	1	-
BP2688 N3167	13-Aug-93	Chelonia mydas	no	-	1	-
BP2689 N2399	13-Aug-93	Chelonia mydas	no	-	1	-
BP2690 N3161	13-Aug-93	Chelonia mydas	no	-	1	-
BP2691 N2400	13-Aug-93	Chelonia mydas	no	-	1	-
BP2692 N3162	13-Aug-93	Chelonia mydas	no	-	1	-
BP2693 N3176	13-Aug-93	Chelonia mydas	no	-	1	-
BP2694 N3166	13-Aug-93	Chelonia mydas	no	-	1	-
BP2695 N3177	13-Aug-93	Chelonia mydas	no	-	1	-
BP2696 N3163	13-Aug-93	Chelonia mydas	no	-	1	-
BP2697 N3174	20-Aug-93	Chelonia mydas	no	-	1	-
BP2698 N3172	20-Aug-93	Chelonia mydas	no	-	1	-

Table 12. continued

Tag Numbers	Date	Species	Paps	DNA Analysis	Immunological Studies	Testosterone Titer Analysis
BP2699 N3170	20-Aug-93	Chelonia mydas	no	-	1	-
BP2700 N3171	20-Aug-93	Chelonia mydas	no	-	1	-
BP3101 N3173	20-Aug-93	Chelonia mydas	no	-	1	-
BP3102 N3169	20-Aug-93	Chelonia mydas	no	-	1	-
BP3201 N4523	19-Jul-94	Chelonia mydas	no	-	1	-
BP3202 N4521	19-Jul-94	Chelonia mydas	no	-	1	-
BP3203 N4525	19-Jul-94	Chelonia mydas	no	-	1	-
BP3204 N4524	19-Jul-94	Chelonia mydas	no	-	1	-
BP3205 N4522	19-Jul-94	Chelonia mydas	no	-	1	-
BP3207 N5208	2-Aug-94	Chelonia mydas	no	-	1	-
N5216 N5217	9-Aug-94	Chelonia mydas	no	-	1	-
BP3296 N5250	9-Jun-95	Chelonia mydas	no	1	1	1
BP3297 N5477	12-Jun-95	Chelonia mydas	no	1	1	1
BP3298 N5401	12-Jun-95	Chelonia mydas	no	1	1	1
BP3299 N5402	12-Jun-95	Chelonia mydas	no	1	1	1
BP5502 N5481	13-Jun-95	Chelonia mydas	no	1	1	1
BP5503 N5480	13-Jun-95	Chelonia mydas	no	1	1	1
BP5504 X6038	13-Jun-95	Chelonia mydas	no	1	1	1
BP5505 N5479	13-Jun-95	Chelonia mydas	no	1	1	1
BP5506 N5483	13-Jun-95	Chelonia mydas	no	1	1	1
BP5507 N5478	13-Jun-95	Chelonia mydas	no	1	1	1
BP5527 N5484	26-Jun-95	Chelonia mydas	no	1	1	1
BP5528 N5487	26-Jun-95	Chelonia mydas	no	1	1	1
BP5529 N5485	26-Jun-95	Chelonia mydas	no	1	1	1
BP5530 N5486	26-Jun-95	Chelonia mydas	no	1	1	1
BP5532 N5490	27-Jun-95	Chelonia mydas	no	1	1	1
BP5533 N5491	27-Jun-95	Chelonia mydas	no	1	1	1
BP5534 N5489	27-Jun-95	Chelonia mydas	no	1	1	1
BP5537 N5495	27-Jun-95	Chelonia mydas	no	1	1	1
BP5538 N5496	27-Jun-95	Chelonia mydas	no	1	1	1
BP5539 N5497	27-Jun-95	Chelonia mydas	no	1	1	1
BP5540 N5498	27-Jun-95	Chelonia mydas	no	1	1	1
BP5541 N5499	29-Jun-95	Chelonia mydas	no	1	1	1
BP5542 N5500	29-Jun-95	Chelonia mydas	no	1	1	1
BP5543 N6276	29-Jun-95	Chelonia mydas	no	1	2	1
BP5544 N6279	29-Jun-95	Chelonia mydas	no	1	1	1
BP5545 N6278	29-Jun-95	Chelonia mydas	no	1	1	1
BP5546 N6280	29-Jun-95	Chelonia mydas	no	1	1	1
BP5547 N6277	29-Jun-95	Chelonia mydas	no	1	1	1
BP5548 N6281	29-Jun-95	Chelonia mydas	no	1	1	1
BP5549 N6282	29-Jun-95	Chelonia mydas	no	1	1	1
BP5555 N6284	10-Jul-95	Chelonia mydas	no	1	1	1
BP5556 N6285	10-Jul-95	Chelonia mydas	no	1	1	1
BP5557 N6288	11-Jul-95	Chelonia mydas	no	1	1	1
BP5558 N6286	11-Jul-95	Chelonia mydas	no	1	1	1
BP5559 N6287	11-Jul-95	Chelonia mydas	no	1	1	1
Number of samples collected				35	95	35

Table 13. Morphometrics and weights of other species captured in the central region of the Indian River Lagoon System

Kemp's Ridley Turtles

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
X180 X181	5/24/88	38.0	38.7	35.1	32.9	35.1	27.5	7.9	13.3	6.0
X238 X239	6/17/88	35.6	35.2	33.6	30.9	33.9	26.5	7.4	12.9	5.0

Hawksbill

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP2592 N2036	6/18/93	72.6	63.0	67.6	50.3	68.1	51.9	9.0	24.3	46.0

Table 14. Morphometrics of inital capture juvenile green turtles from the central region of the Indian River Lagoon System. Summary statistics are at the end of the table.

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
K1941	07/01/82	32.4	27.4	29.2	22.5	29.3	26.8	3.9	----	4.0
K1943	07/01/82	43.6	37.1	38.5	30.4	39.1	34.8	5.1	----	9.6
K1972	05/26/83	61.5	54.0	57.8	46.0	58.5	48.2	8.5	----	29.5
K1973	05/26/83	44.6	39.4	42.3	32.2	42.7	35.6	6.9	----	10.4
K1981	06/02/83	47.0	39.5	42.5	34.5	42.9	38.5	5.7	----	13.6
K1988	06/09/83	66.4	58.6	62.0	50.0	62.2	53.8	9.9	----	36.4
K1990	06/09/83	----	----	53.8	41.0	54.1	43.7	8.4	----	22.7
K3704	07/07/83	45.0	41.6	42.2	33.8	42.2	38.4	4.8	----	10.9
K3724	07/07/83	47.4	43.1	42.7	33.9	44.7	38.9	5.9	----	10.9
K3712	07/13/83	39.6	34.8	36.3	29.9	36.3	32.2	4.7	----	6.8
K3715	07/14/83	68.8	62.2	64.1	51.7	64.1	56.5	7.8	----	38.6
K3703	07/14/83	59.9	54.0	53.8	44.4	55.8	47.5	7.0	----	24.2
K3711	07/14/83	45.2	40.0	41.1	33.8	41.0	37.2	5.8	----	10.4
K1995	07/29/83	47.8	39.5	45.2	33.7	45.4	37.2	7.5	----	13.6
K1996	07/29/83	47.4	39.7	45.1	34.4	45.5	38.0	7.0	----	11.3
K2000	08/05/83	56.2	47.5	52.5	42.0	53.0	43.0	7.8	----	18.1
K3722	09/08/83	39.9	35.0	38.2	29.8	38.4	32.3	6.0	----	7.4
K3723	09/08/83	42.8	35.7	40.1	30.2	40.5	34.5	5.8	----	8.9
K3710	09/08/83	40.5	35.3	38.0	30.0	38.2	32.7	6.0	----	7.4
K3720	09/08/83	38.2	35.2	35.2	29.5	36.0	31.4	5.0	----	6.9
Not Tagged	05/22/84	49.2	42.4	47.0	36.5	47.1	39.3	7.1	----	12.9
K3731	05/24/84	44.1	39.9	40.7	33.4	41.7	37.3	5.8	----	9.4
K3735	05/29/84	40.1	34.8	36.9	29.5	37.0	32.9	5.3	----	7.3
K3740	05/31/84	46.3	51.1	36.5	43.0	48.1	39.8	7.0	----	14.5
Not Tagged	06/02/84	35.4	30.3	33.4	27.2	33.5	27.8	5.9	----	4.4
K3744	06/07/84	39.6	34.7	36.0	29.5	36.6	31.0	4.8	----	6.1
K3745	06/07/84	44.5	39.8	40.9	32.2	41.3	37.0	5.0	----	10.2
K3746	06/08/84	50.5	44.3	46.7	38.2	46.9	41.4	7.1	----	14.6
K3747	06/08/84	30.8	25.2	28.0	21.8	28.3	24.8	4.6	----	2.9

Table 14 continued

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
K3750	06/12/84	49.2	43.0	44.1	34.7	44.4	41.5	5.9	----	14.1
K3752	06/13/84	46.0	40.1	42.0	34.7	43.0	36.8	6.3	----	11.1
K3753	06/13/84	41.9	34.9	38.2	30.2	38.4	33.7	5.4	----	8.5
K3754	06/13/84	62.6	57.8	56.8	46.5	58.2	50.4	8.0	----	31.8
K3755	06/14/84	45.3	39.4	42.0	32.2	42.1	36.2	5.6	----	9.5
K3758	06/21/84	41.7	35.5	37.4	29.5	37.4	33.5	5.4	----	8.1
K3759	06/21/84	56.9	48.8	53.0	52.9	53.8	46.9	7.5	----	22.7
K3761	06/21/84	40.0	34.7	36.3	28.7	36.5	31.2	4.9	----	6.8
K3763	06/21/84	46.8	41.3	42.9	34.4	43.1	38.0	5.5	----	11.9
K3764	06/21/84	47.2	39.9	43.6	32.4	44.0	38.5	5.7	----	13.4
K3765	06/22/84	49.4	46.0	45.0	35.8	45.0	39.5	5.7	----	12.5
K3768	06/27/84	51.4	43.4	46.7	36.6	46.7	41.6	6.2	----	15.9
K3770	06/28/84	40.1	33.3	37.6	28.8	37.7	32.7	6.2	----	7.3
K3779	07/19/84	54.3	45.9	50.6	40.9	51.3	43.2	7.4	----	20.5
K3780	08/23/84	44.0	38.2	36.4	29.2	37.5	34.0	7.9	----	----
K3781	09/07/84	40.5	34.0	37.5	28.5	37.8	32.0	5.2	----	7.3
K3783	09/07/84	70.0	65.0	64.0	51.2	64.0	55.0	8.8	----	43.2
K5624	06/06/85	67.2	60.5	63.2	51.3	63.7	51.6	9.8	----	36.4
K5630 K5631	06/12/85	46.3	40.0	43.4	34.7	43.8	36.7	6.9	----	11.3
K5632 K5633	06/18/85	46.5	39.3	42.4	32.8	42.2	36.7	5.9	----	10.2
K5648 K5649	06/20/85	48.5	42.2	45.5	36.2	46.6	40.3	7.5	----	13.4
K5643 K5644	06/20/85	46.3	39.7	42.8	34.0	42.9	37.0	6.9	----	10.6
K5646 K5647	06/20/85	58.0	49.2	52.8	39.2	53.4	45.7	8.5	----	25.0
K5650 K5651	06/21/85	35.8	29.7	34.0	26.5	35.1	29.2	5.7	----	5.0
K5654 K5655	06/27/85	52.4	45.3	48.9	36.5	48.9	42.8	8.0	----	18.2
K5652 K5653	06/27/85	33.5	28.5	32.0	25.0	32.1	27.0	5.8	----	4.3
K5661 K5662	07/03/85	54.4	48.3	50.2	40.3	50.3	42.5	7.4	----	20.5
K5667 K5674	07/19/85	56.2	49.6	51.6	41.7	51.9	42.5	8.0	----	20.5
K5666 K5670	07/19/85	60.7	49.9	55.5	42.2	55.7	48.7	8.2	----	25.0
K5679 K5680	08/06/85	52.8	45.9	49.0	38.8	49.1	41.6	8.0	----	15.0
K5675 K5676	08/06/85	41.7	36.4	39.8	32.2	39.5	33.4	6.4	----	8.1

Table 14 continued

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
Not Tagged	09/10/85	39.2	35.4	37.0	30.5	37.3	30.4	5.0	----	6.9
NNW601 NNV801	11/22/85	56.5	49.6	52.8	42.2	53.5	45.4	7.4	----	25.0
NNW602 NNV802	11/22/85	40.1	34.1	38.0	29.7	38.2	33.1	5.9	----	6.5
NNW603 K5695	11/22/85	44.6	38.9	41.6	32.8	41.7	35.5	5.8	----	5.8
NNW604	11/22/85	61.7	51.0	57.7	42.2	58.0	49.8	8.3	----	27.3
NNW607 NNV804	11/26/85	43.4	37.6	40.8	33.0	41.1	34.6	6.6	----	9.0
NNW608 NNV806	11/29/85	45.6	41.7	42.8	35.4	43.0	36.5	6.1	15.9	9.9
NNW609 NNV807	11/29/85	38.8	33.7	36.2	29.0	36.3	31.6	5.5	13.5	6.1
NNW611 NNV809	11/29/85	45.8	39.0	42.0	33.2	42.1	38.3	6.6	16.8	11.0
NNW612 NNV811	12/06/85	44.8	39.5	41.2	35.0	41.4	35.6	6.4	15.5	9.4
NNW614 NNV813	01/18/86	47.6	41.7	44.8	34.9	45.5	38.5	6.2	17.0	11.9
NNW616 NNV815	01/18/86	35.7	30.9	33.9	26.6	34.0	28.7	5.3	12.8	5.1
NNW617 NNV816	01/18/86	42.2	35.5	39.7	31.3	40.1	33.9	6.7	15.3	7.9
NNW618 NNV812	01/18/86	44.0	40.1	41.6	35.7	41.8	36.1	6.9	15.9	9.6
NNW619 NNV817	01/22/86	39.0	32.7	36.7	28.5	36.8	31.7	6.0	----	6.1
NNW621 NNV819	02/04/86	43.3	36.6	40.0	31.9	40.0	33.2	6.5	15.8	9.0
NNW624 NNV822	02/04/86	44.7	40.1	42.2	34.6	42.4	34.5	6.6	16.1	9.6
NNW626 NNV824	02/18/86	56.7	49.9	52.2	41.7	52.8	45.4	8.1	20.1	20.0
NNW628 NNV826	02/18/86	45.9	40.9	43.4	34.8	44.2	36.8	6.9	17.1	11.6
NNW629 NNV827	03/11/86	45.5	40.0	43.1	35.2	43.3	37.0	6.8	16.1	12.0
NNW634 NNV833	03/11/86	36.8	32.5	35.0	28.0	35.5	29.5	5.2	14.0	6.0
NNW639 NNV837	03/11/86	37.4	31.5	36.0	28.1	36.2	30.0	6.1	13.8	6.2
NNW632 NNV830	03/11/86	43.5	36.2	41.0	32.5	41.1	34.3	6.2	14.5	9.2
NNW631 NNV829	03/11/86	48.2	41.2	45.5	36.0	45.6	37.2	7.0	17.8	14.0
NNW637 NNV835	03/11/86	42.8	37.5	40.5	33.0	41.0	34.8	5.5	13.8	8.5
NNW638 NNV836	03/11/86	42.0	32.5	39.5	31.5	40.0	33.0	6.5	14.2	8.0
NNW643 NNV842	04/22/86	36.0	30.8	33.8	26.5	34.7	28.5	5.3	13.0	5.3
NNW644 NNV843	04/22/86	39.9	33.4	38.0	29.2	38.3	30.8	4.9	13.9	6.5
NNW646 NNV845	04/22/86	44.5	35.7	41.8	32.4	42.0	34.8	6.7	15.2	9.5
NNW648 NNV847	04/22/86	42.1	36.3	39.7	31.9	39.8	33.3	6.5	15.3	8.4
NNW649 NNV848	04/22/86	40.1	34.0	37.3	30.1	37.3	31.4	6.0	14.8	6.9

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNW650	NNV850	04/22/86	41.5	36.5	39.9	33.0	40.3	33.4	6.3	13.4	7.5
NNW652	NNV852	04/24/86	53.5	46.1	50.8	40.0	51.2	43.5	6.9	18.1	16.4
NNW653	NNV853	04/24/86	57.6	52.4	54.2	43.4	54.9	46.1	7.8	21.0	24.0
NNW655	NNV855	04/24/86	57.6	47.9	54.9	41.8	55.4	47.1	8.0	19.8	21.5
NNW660	NNV860	04/29/86	37.2	31.5	35.2	27.9	35.3	29.1	6.0	13.4	5.5
NNW661	NNV861	04/29/86	44.5	37.8	42.5	33.3	42.5	35.6	6.7	15.8	9.0
NNW665	NNV865	05/07/86	49.6	41.7	46.3	36.2	46.6	38.7	7.3	17.9	13.2
NNZ415	NNZ416	05/21/86	47.2	40.0	44.9	34.5	45.0	37.2	6.8	15.6	---
NNZ424	NNZ425	05/22/86	37.8	33.0	36.1	28.8	36.2	31.2	6.0	13.5	6.6
NNZ422	NNZ423	05/22/86	47.1	40.7	44.3	33.8	44.8	38.8	6.9	16.7	11.6
NNZ418	NNZ419	05/22/86	54.4	44.4	51.1	39.9	51.1	42.3	7.6	19.3	17.1
NNW678	NNV878	05/29/86	39.6	35.4	37.3	30.8	37.5	30.8	5.9	14.9	7.4
NNW674	NNV874	05/29/86	49.4	45.1	46.8	36.3	46.8	40.4	7.4	18.7	15.6
NNW688	NNV888	05/30/86	39.4	34.1	37.3	29.9	37.5	30.5	5.7	14.2	6.9
NNW686	NNV886	05/30/86	75.3	65.1	70.8	54.3	71.8	58.2	10.1	27.7	51.0
NNW684	NNV884	05/30/86	45.0	39.4	43.1	34.5	43.3	37.6	6.7	15.5	10.7
NNW690	NNV890	06/02/86	55.0	47.2	52.2	39.9	52.9	44.1	8.3	21.0	19.0
NNW689	NNV889	06/02/86	70.5	60.8	66.1	51.7	67.0	55.1	9.7	25.4	43.0
NNW695	NNV895	06/09/86	47.0	40.1	44.4	34.5	44.9	38.0	6.3	16.5	11.5
NNZ435	K5696	06/11/86	44.5	39.7	41.9	33.2	42.0	36.3	6.3	16.0	10.2
NNW700	NNV900	06/11/86	55.4	49.0	51.7	40.7	51.8	44.8	8.2	19.2	20.5
NNW499	NNV899	06/11/86	52.0	47.2	49.2	40.5	49.5	42.7	7.3	18.1	17.0
NNZ437	K6202	06/20/86	37.5	31.0	35.2	26.9	35.9	29.4	5.8	12.9	5.4
NNZ439	K6204	06/24/86	40.8	37.9	37.8	31.9	38.1	32.3	6.2	16.0	7.8
NNZ454	K6205	06/24/86	47.5	42.1	43.6	35.5	44.3	37.5	6.7	17.9	11.5
NNZ440	K5700	06/25/86	35.0	31.1	32.7	27.8	32.8	27.8	5.6	12.3	4.7
NNZ441	K6207	06/25/86	60.1	54.3	55.9	46.2	56.1	48.4	8.7	20.9	24.0
NNZ456	K6208	06/25/86	53.6	47.3	50.3	40.2	50.6	43.5	7.8	19.5	18.5
NNZ443	K6210	06/25/86	53.5	47.5	49.9	39.8	50.0	42.8	7.7	18.7	17.0
NNZ444	K6211	06/27/86	35.8	29.1	33.5	25.6	33.9	28.7	5.8	13.8	5.7
NNZ445	K6212	06/27/86	36.5	31.7	34.2	27.2	34.5	29.6	5.5	12.0	5.3

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNZ448	K6213	07/03/86	40.6	33.0	38.3	29.0	38.5	32.5	6.4	14.2	7.4
NNZ449	K6214	07/08/86	46.7	39.9	43.8	33.9	44.3	38.3	6.7	16.8	11.4
NNZ450	K6215	07/08/86	32.1	28.0	29.7	24.8	29.9	25.8	4.9	11.9	4.1
NNZ457	K6216	07/11/86	38.0	32.1	35.8	28.0	36.2	30.8	6.0	14.8	6.8
NNZ458	K6217	07/22/86	59.9	50.0	56.6	41.9	56.7	46.5	8.2	20.3	24.0
NNZ459	K6218	07/23/86	37.4	32.2	35.8	29.3	36.0	30.7	5.6	13.2	6.0
NNZ460	K6219	07/23/86	39.5	35.9	37.4	31.2	37.7	33.5	6.2	16.0	8.8
NNZ463	K6222	07/23/86	42.3	34.6	40.3	30.8	40.1	32.1	6.2	15.0	8.0
NNZ464	K6223	07/23/86	52.7	44.7	49.0	38.5	49.3	40.4	7.5	18.8	15.3
NNZ465	K6224	07/24/86	39.7	34.9	38.1	31.1	38.4	31.9	5.9	14.6	7.5
NNZ467	K6226	07/24/86	40.1	33.7	38.2	29.7	38.4	32.5	6.3	15.2	7.4
NNZ469	K6228	07/24/86	53.4	46.5	51.1	40.5	51.3	43.4	7.9	20.6	20.0
NNZ470	K6230	07/24/86	52.0	45.3	49.7	38.5	49.8	42.6	7.5	18.5	17.0
NNZ471	K6231	07/24/86	44.5	38.4	42.0	33.5	42.5	35.6	6.5	16.5	10.0
NNZ472	K6232	07/24/86	46.0	38.9	43.7	33.7	43.9	37.8	6.5	16.2	10.3
NNZ473	K6233	07/24/86	48.8	45.0	46.8	39.0	47.4	41.0	7.2	18.2	14.9
NNZ474	K6234	07/24/86	48.4	41.5	45.8	33.5	46.2	39.5	7.0	17.2	12.9
K6236	K6237	07/24/86	56.9	47.9	53.8	40.9	54.3	45.2	7.9	21.4	22.5
NNZ477	K6243	07/29/86	48.4	41.0	46.1	35.6	46.2	37.8	7.0	15.2	11.2
NNZ492	K6229	07/29/86	42.4	36.4	39.6	31.4	39.5	33.7	5.2	14.2	8.1
NNZ480	K6249	07/29/86	76.2	67.3	71.8	55.2	72.5	59.4	10.0	28.4	57.0
NNZ481	K6244	07/30/86	39.6	33.2	36.8	27.9	36.2	31.7	5.8	15.9	7.3
NNZ484	K6245	07/30/86	56.3	47.4	52.3	39.4	52.5	44.8	7.9	19.9	18.5
NNZ485	K6250	07/30/86	48.5	42.0	45.8	37.3	46.0	37.6	7.1	18.7	14.5
NNZ490	K6251	07/31/86	38.8	33.5	36.7	29.3	36.7	30.8	6.0	13.5	6.5
NNZ491	K6252	07/31/86	38.4	32.4	36.4	28.1	36.5	29.6	5.8	13.4	5.6
NNZ301	K6253	08/01/86	60.0	51.0	56.3	44.0	56.7	48.3	8.2	21.0	23.5
NNZ302	K6254	08/01/86	37.3	32.5	35.9	28.9	36.0	28.9	6.0	12.0	5.4
NNZ303	K6255	08/01/86	35.5	31.8	34.1	27.9	34.3	29.1	5.6	13.5	6.1
NNZ304	K6256	08/01/86	36.4	32.6	35.3	29.1	35.4	29.0	5.9	13.0	6.0
NNZ305	K6257	08/08/86	53.4	48.1	51.1	40.6	51.5	42.9	7.4	19.1	19.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNZ314	K6259	08/12/86	35.6	32.0	34.0	28.1	34.2	29.0	6.0	13.8	5.6
NNZ315	K6260	08/12/86	46.5	41.1	44.4	35.2	44.9	37.7	7.4	17.1	12.4
NNZ386	K6263	08/13/86	40.4	34.3	38.2	30.2	38.4	32.0	5.8	13.5	7.5
NNZ316	K6269	08/15/86	35.9	31.0	34.5	28.1	34.8	28.1	5.5	12.0	5.4
NNZ317	K6270	08/15/86	57.2	49.5	54.8	39.5	55.0	44.2	8.2	20.8	22.0
NNZ319	K6272	08/15/86	42.0	35.2	39.8	31.9	39.9	33.0	6.4	15.5	8.6
NNZ322	K6273	08/19/86	35.0	29.7	32.8	26.9	32.8	27.9	5.9	13.4	5.2
NNZ321	K6274	08/19/86	----	----	38.1	29.6	38.1	32.8	6.3	14.9	7.3
NNZ323	K6275	08/19/86	36.8	30.8	34.7	27.8	34.8	29.4	5.8	13.8	5.9
NNZ326	K6276	08/22/86	43.6	36.5	41.2	30.9	41.3	35.1	6.3	15.6	8.9
NNZ327	K6277	08/22/86	41.7	34.1	39.6	29.2	39.7	32.2	6.0	15.2	8.1
NNZ329	K6279	08/22/86	40.4	35.9	38.9	31.9	38.9	32.3	6.2	14.8	8.5
NNZ330	K6280	08/22/86	42.7	36.2	40.8	32.4	40.8	34.5	6.3	15.6	8.6
NNZ331	K6281	08/22/86	32.9	27.7	31.3	24.0	31.4	25.6	5.1	12.3	4.3
NNZ334	K6284	09/05/86	30.5	26.2	29.7	23.2	29.9	24.4	5.0	11.3	3.5
NNZ335	K6285	09/05/86	41.5	35.9	38.9	30.4	38.7	32.9	6.3	14.9	8.6
NNZ337		09/05/86	51.4	44.4	48.9	38.5	49.3	42.7	7.3	18.4	17.5
NNZ340	K6289	09/05/86	30.4	26.6	29.2	23.3	29.4	24.4	4.8	11.3	3.5
NNZ341	K6290	09/11/86	40.6	33.2	39.4	31.0	39.6	32.3	6.9	14.4	7.6
NNZ342	K6291	09/11/86	38.3	32.8	36.6	28.8	36.7	32.0	5.9	13.9	6.4
NNZ344	K6293	09/11/86	47.1	41.5	45.1	35.9	45.4	36.8	7.0	17.3	12.8
NNZ345	K6295	09/11/86	62.5	53.5	58.9	45.2	59.5	49.7	8.4	23.6	28.0
NNZ346	K6296	09/11/86	59.5	51.6	55.8	44.4	56.2	47.5	7.4	19.0	23.0
NNZ347	K6297	09/17/86	57.2	50.4	53.6	42.9	53.7	42.9	7.8	20.7	21.0
NNZ350	K6300	09/17/86	53.7	48.2	51.4	41.2	51.5	43.9	7.7	18.9	18.0
NNZ351	NNZ352	09/24/86	35.1	29.2	32.6	25.7	32.8	27.0	5.0	12.2	4.9
NNZ355	NNZ356	09/24/86	49.6	42.4	46.9	35.9	47.3	40.0	6.6	18.0	15.0
NNZ361	NNZ362	10/08/86	36.9	33.1	35.2	29.6	35.4	29.4	5.9	13.8	5.8
NNZ363	NNZ364	10/08/86	46.9	39.9	44.1	35.2	44.4	37.5	6.5	17.0	11.8
NNZ365	NNZ366	10/17/86	59.1	53.3	55.3	47.2	56.0	47.8	8.3	22.0	26.5
NNZ369	NNZ370	10/24/86	38.5	33.3	36.3	29.0	36.5	31.2	6.0	14.3	6.5

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNZ371	NNZ372	10/24/86	35.5	30.2	33.8	26.6	33.9	28.7	5.5	13.0	5.1
NNZ373	NNZ374	10/24/86	58.4	50.8	55.0	43.4	55.3	45.5	8.3	21.6	25.0
NNZ375		10/24/86	41.8	34.8	39.0	29.0	39.0	33.5	6.2	16.8	8.7
NNZ391	NNZ488	10/24/86	42.1	35.2	39.7	31.0	39.9	33.3	6.7	15.8	8.8
NNZ392	NNZ393	10/24/86	40.5	35.0	38.1	29.9	38.2	32.1	6.3	14.8	7.6
NNZ395		10/29/86	61.1	51.0	56.7	43.0	56.9	46.8	8.5	22.8	26.5
NNZ396		10/29/86	48.0	41.2	45.0	36.3	45.2	37.8	7.2	16.8	13.0
NNZ399	NNZ400	11/05/86	58.4	48.5	53.9	41.5	54.1	45.0	7.8	20.9	23.0
PPJ003	PPJ004	11/11/86	55.9	49.7	52.2	41.0	52.5	44.8	7.5	19.8	19.0
PPJ005	PPJ006	11/11/86	51.3	45.6	49.6	38.0	49.9	43.0	7.1	17.9	17.0
PPJ007	PPJ008	11/11/86	59.6	49.7	56.2	42.7	56.6	47.0	8.1	20.8	25.0
PPJ017	PPJ018	11/26/86	36.6	32.0	34.5	28.5	34.5	28.5	5.7	12.8	5.2
PPJ025	PPJ026	11/26/86	48.6	41.8	46.1	36.1	46.2	39.0	7.3	19.3	14.2
PPJ021	PPJ022	11/26/86	34.6	30.8	32.6	26.9	32.8	26.7	5.1	12.2	4.5
PPJ019	PPJ020	11/26/86	50.5	43.6	47.5	38.9	47.7	39.6	7.0	17.0	13.5
PPJ027	PPJ028	12/10/86	38.1	31.4	35.8	26.9	35.9	28.7	5.7	13.6	5.7
PPJ029	PPJ030	12/10/86	39.6	34.0	37.5	29.7	37.5	31.1	5.9	14.4	7.0
PPJ035	PPJ036	12/10/86	64.8	57.6	60.8	49.0	61.0	52.2	9.0	24.6	35.0
PPJ040	PPJ041	12/10/86	42.0	35.6	40.2	31.8	40.4	32.5	6.2	12.4	6.9
PPJ042	PPJ043	12/10/86	65.7	59.0	61.3	49.0	61.9	53.8	9.0	23.1	35.5
PPJ044	PPJ045	12/17/86	38.1	33.8	36.2	29.2	36.3	30.1	6.2	13.2	6.4
PPJ046	PPJ047	12/17/86	35.5	30.9	34.0	27.0	34.2	28.8	5.4	12.4	5.3
PPJ048	PPJ049	12/17/86	44.6	38.5	42.8	34.1	43.2	35.0	6.5	14.9	9.6
PPJ050	PPJ051	12/17/86	37.2	30.7	35.9	27.8	36.0	29.0	5.4	12.0	5.3
PPJ052	PPJ053	12/17/86	39.7	35.4	38.1	31.2	38.4	31.2	6.2	14.1	7.6
PPJ054	PPJ055	12/17/86	32.7	27.9	31.3	24.4	31.5	26.1	4.9	11.3	3.9
PPJ062	PPJ063	01/08/87	31.9	27.2	30.2	24.4	30.5	25.4	5.0	11.4	3.8
PPJ060	PPJ061	01/08/87	34.6	29.1	32.8	25.2	32.9	27.8	5.3	13.2	4.6
PPJ058	PPJ059	01/08/87	40.6	34.7	38.2	29.9	38.2	32.4	6.0	15.5	7.6
PPJ070	PPJ067	01/15/87	46.8	39.5	44.3	34.9	44.3	36.5	7.3	16.6	11.8
PPJ077	PPJ078	01/19/87	32.3	28.3	31.0	25.9	31.4	26.1	5.0	11.7	4.2

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
PPJ075	PPJ076	01/19/87	50.5	44.4	47.5	37.2	47.5	40.6	7.5	19.2	16.0
PPJ073	PPJ074	01/19/87	54.5	45.0	51.4	38.8	52.2	44.8	7.4	19.4	18.5
PPJ091	PPJ092	02/12/87	39.6	34.6	36.8	29.8	37.5	31.5	5.5	13.5	6.5
PPJ098	PPJ099	02/12/87	33.0	29.0	31.2	25.4	31.4	27.0	5.0	12.5	3.9
PPJ096	PPJ097	02/12/87	47.2	40.8	43.5	34.3	43.5	36.0	6.3	16.5	12.0
PPJ107	PPJ108	03/03/87	37.0	32.5	35.4	28.4	35.5	30.0	5.5	13.2	6.0
PPJ101	PPJ102	03/03/87	34.5	32.2	32.2	26.2	32.4	26.5	5.0	13.0	-----
PPJ113	PPJ114	03/16/87	37.2	33.0	35.3	28.3	35.3	30.7	5.2	14.1	6.1
PPJ115	PPJ116	03/16/87	31.2	27.2	29.8	23.5	30.0	24.6	4.9	11.2	3.5
PPJ117	PPJ118	03/16/87	30.1	25.0	28.5	22.2	29.3	25.0	4.7	10.1	3.0
PPJ119	PPJ120	03/16/87	45.5	40.4	42.3	33.1	42.3	37.1	6.0	17.4	11.5
PPJ121	PPJ122	03/16/87	43.0	38.5	40.4	33.2	40.4	33.0	6.0	15.9	11.0
PPJ125	PPJ126	03/17/87	38.6	33.3	36.4	29.5	36.6	30.3	5.8	12.6	7.0
PPJ127	PPJ128	03/17/87	36.8	32.9	32.4	28.2	32.4	29.2	5.5	14.3	7.5
PPJ129	PPJ130	03/17/87	34.9	30.7	32.5	26.8	32.7	27.8	5.0	12.9	6.0
PPJ139	PPJ140	03/20/87	29.3	25.2	27.7	22.2	28.0	24.2	5.0	11.4	2.9
Not Tagged		03/20/87	35.3	31.2	33.4	27.3	33.4	28.4	5.6	13.2	5.4
PPJ141	PPJ142	04/09/87	33.0	26.6	32.0	31.0	32.3	26.0	5.3	13.0	4.7
PPJ145	PPJ146	04/21/87	42.5	35.1	40.8	31.3	41.0	34.8	5.9	14.5	8.7
PPJ149	PPJ150	04/21/87	55.6	46.3	52.1	41.5	52.2	45.0	7.6	20.8	22.0
PPJ151	PPJ152	04/21/87	36.2	30.8	33.5	26.2	34.1	30.0	4.3	13.6	5.1
PPJ165	PPJ166	04/30/87	44.0	35.5	41.4	32.2	41.6	35.5	6.0	15.8	9.7
PPJ170	PPJ171	05/20/87	39.1	33.2	36.9	29.8	37.7	32.2	6.1	15.2	6.9
PPJ174	PPJ175	05/21/87	37.0	32.0	36.0	28.1	36.1	30.0	6.0	14.9	6.3
PPJ178	PPJ179	05/21/87	37.5	32.4	35.4	27.8	35.4	31.9	5.4	14.2	6.4
PPJ192	PPJ193	06/02/87	32.8	28.5	29.9	24.9	30.2	26.5	4.9	12.7	3.9
PPJ198	PPJ199	06/04/87	30.2	24.5	28.8	21.5	28.9	25.0	4.8	11.4	3.0
PPJ200	PPJ201	06/05/87	36.4	31.0	34.5	27.6	34.5	28.7	5.8	12.4	5.4
PPJ215	PPJ216	06/12/87	35.5	32.6	34.2	27.3	34.6	29.0	5.6	13.1	5.2
PPJ217	PPJ218	06/12/87	40.2	35.9	38.3	29.9	38.4	33.0	5.2	14.9	7.2
PPJ219	PPJ220	06/12/87	41.1	35.5	38.6	31.7	38.6	31.0	6.2	13.1	7.2

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
PPJ221	PPJ222	06/12/87	35.8	30.4	33.8	27.3	34.2	29.2	5.5	12.0	5.0
PPJ225	PPJ226	06/17/87	57.7	49.5	54.4	41.9	54.8	46.8	8.4	22.1	26.0
PPJ227	PPJ228	06/17/87	46.0	39.0	42.8	32.3	42.8	36.2	6.9	17.8	11.0
PPJ233	PPJ234	06/18/87	44.4	38.2	41.3	33.3	41.4	34.8	6.3	16.1	9.2
PPJ235	PPJ236	06/18/87	44.4	38.2	41.6	32.5	41.9	35.7	6.6	16.6	9.8
PPJ241	PPJ242	06/18/87	49.5	42.4	46.4	36.9	46.4	41.2	6.9	18.4	16.0
PPJ243	PPJ244	06/18/87	45.1	40.5	42.2	43.7	42.3	36.1	7.0	15.7	12.0
PPJ246		06/18/87	37.0	30.8	34.8	26.8	35.0	30.4	5.4	13.5	6.0
PPJ247		06/18/87	37.8	34.0	36.5	29.0	36.5	30.5	5.8	14.1	7.0
PPJ248		06/18/87	34.2	30.0	32.8	26.5	32.9	27.1	5.1	12.0	4.4
PPJ252	PPJ253	06/18/87	31.1	32.8	34.9	28.4	34.9	29.6	5.4	11.8	5.1
PPJ245		06/18/87	35.9	30.2	33.8	26.4	33.9	28.7	5.9	12.7	5.2
PPJ256	PPJ257	06/19/87	35.9	29.5	33.1	25.7	33.3	28.3	5.4	11.6	4.7
PPJ258	PPJ259	06/23/87	45.8	40.0	43.1	34.0	43.2	38.0	6.5	16.0	10.3
PPJ260	PPJ261	06/23/87	53.6	45.7	50.6	39.2	50.9	43.2	7.8	18.6	17.9
PPJ268		06/30/87	47.0	41.9	44.2	36.3	44.8	36.7	6.9	15.9	10.7
PPJ270		07/01/87	39.5	34.8	37.2	31.0	37.2	31.5	5.9	13.3	6.3
PPJ275		07/07/87	41.1	37.0	38.3	30.7	38.7	32.7	6.3	15.4	8.2
PPJ274		07/07/87	49.6	41.9	46.9	36.6	47.4	39.2	7.0	17.0	15.0
PPJ276		07/07/87	34.2	29.5	31.9	25.3	32.0	27.8	5.2	11.2	4.2
PPJ284	PPJ285	07/09/87	32.3	28.0	31.2	25.3	31.2	26.5	5.2	11.4	4.2
PPJ290	PPJ291	07/17/87	41.0	35.2	39.0	31.2	39.1	33.3	6.0	14.7	8.1
PPJ295	PPJ296	07/17/87	39.6	34.0	37.4	29.4	37.9	31.5	6.0	14.3	7.2
PPJ297	PPJ298	07/17/87	41.0	35.2	39.0	31.0	39.2	34.0	6.5	14.5	8.7
PPJ299	PPJ300	07/17/87	32.8	28.7	31.5	24.0	32.0	27.0	5.0	12.0	4.1
PPN701	PPN702	07/24/87	44.4	38.3	41.7	32.2	41.7	36.5	6.1	17.6	11.0
PPN703	PPN704	07/31/87	36.3	28.2	34.4	25.5	34.6	28.2	5.8	12.3	4.9
PPN705	PPN706	07/31/87	57.1	51.0	53.9	44.3	54.1	45.8	8.0	21.0	22.0
PPN714	PPN715	08/04/87	51.8	54.9	48.1	37.4	48.1	41.2	7.4	18.8	16.5
PPN716	PPN717	08/07/87	34.2	30.3	32.0	26.2	32.2	26.4	5.3	11.4	4.4
PPN718	PPN719	08/07/87	42.1	36.1	39.7	31.8	39.9	33.0	—	13.8	7.7

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
PPN723	PPN724	08/07/87	70.5	62.0	66.5	51.9	66.5	55.0	9.5	26.3	44.0
PPN726	PPN727	08/07/87	55.0	47.0	52.1	39.0	52.2	44.1	8.0	20.0	21.0
PPN728	PPN729	09/03/87	33.8	28.0	32.2	25.0	32.2	26.8	5.8	11.9	4.9
PPN732	PPN733	09/03/87	49.2	43.3	47.1	37.8	47.2	40.2	6.7	16.2	—
PPN736	PPN737	11/19/87	60.5	48.7	56.8	42.6	56.8	50.3	8.2	21.9	26.0
PPN738	PPN743	11/19/87	39.8	34.4	37.8	30.0	37.9	33.3	5.9	14.0	7.2
PPN744	PPN745	11/27/87	30.8	25.2	29.0	22.6	29.1	24.5	4.1	11.2	3.1
PPN746	PPN747	11/27/87	44.4	40.0	42.1	34.3	42.1	34.9	7.0	16.0	11.5
PPN748	PPN749	12/02/87	64.6	51.7	60.7	44.7	61.0	53.0	9.2	25.2	35.0
PPN753	PPN754	01/18/88	29.2	24.0	27.8	21.4	28.0	22.7	4.8	10.0	2.7
PPN755	PPN756	01/18/88	52.7	45.6	49.2	39.7	49.2	43.0	7.4	18.6	17.5
PPN758	PPN760	01/18/88	35.3	30.2	33.2	27.0	33.3	28.2	5.2	12.0	6.0
PPN761	PPN762	01/18/88	33.5	28.2	31.4	24.1	31.4	26.4	5.0	11.9	5.5
PPN759	PPN763	01/18/88	36.2	31.2	34.3	27.1	34.3	28.7	5.3	13.0	5.4
PPN764	PPN765	01/18/88	49.1	41.0	46.2	34.3	46.2	39.2	6.9	16.9	15.0
PPN766	PPN767	01/18/88	34.1	29.0	32.8	25.5	33.0	27.9	5.3	11.4	4.4
PPN768	PPN769	01/18/88	43.5	35.3	40.4	30.4	40.4	33.4	6.2	16.9	9.1
PPN770	PPN771	01/18/88	36.4	32.9	34.0	28.1	34.0	28.8	5.8	13.3	5.4
PPN772	PPN773	02/04/88	38.0	35.1	36.0	29.8	36.2	30.5	6.1	13.1	6.1
PPN774	PPN775	02/04/88	69.1	62.0	64.2	50.5	64.9	55.5	—	25.2	40.0
PPN776	PPN777	02/04/88	56.0	48.5	51.8	41.6	52.0	44.2	8.0	19.4	22.0
PPN778	PPN779	02/04/88	55.5	50.1	51.4	42.7	51.7	43.1	8.0	19.9	21.0
PPN780	PPN781	02/04/88	73.2	63.0	64.5	53.2	65.0	56.0	9.5	26.2	49.0
PPN782	PPN783	02/04/88	54.3	45.7	51.0	40.0	51.1	43.5	7.2	20.2	21.0
PPN785	PPN786	02/18/88	39.9	34.9	36.3	30.3	36.5	31.3	5.5	13.7	6.7
PPN787	PPN788	02/18/88	51.5	43.3	48.8	38.0	49.0	41.0	6.6	17.0	16.0
PPN789	PPN790	02/18/88	36.2	30.6	32.8	26.1	33.0	27.4	5.5	12.3	4.6
PPN791	PPN792	02/18/88	37.0	33.0	35.1	28.6	35.2	30.4	5.4	12.3	5.7
PPN793	PPN794	02/18/88	56.0	50.0	52.0	41.2	52.0	48.1	7.7	21.7	22.0
PPN795	PPN796	02/18/88	43.5	37.0	41.4	31.3	41.5	35.4	6.1	14.9	8.9
PPN803	PPN804	02/18/88	42.1	35.5	38.4	31.0	38.5	33.3	6.2	14.2	7.4

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
PPN807	PPN808	02/18/88	67.7	60.0	61.6	48.6	61.9	54.0	9.8	26.3	----
PPN811	PPN812	03/01/88	30.1	28.2	28.5	24.2	28.8	25.0	4.7	10.8	3.3
PPN815	PPN816	03/01/88	46.1	38.3	42.8	33.3	42.9	35.4	6.7	16.7	12.0
X101	X102	03/17/88	49.0	41.8	45.9	36.5	46.1	38.7	7.5	16.4	13.0
PPJ455	X107	03/17/88	36.2	33.0	34.2	27.4	34.2	28.0	5.8	13.5	6.0
X105	X106	03/17/88	27.8	25.1	26.5	21.8	26.7	22.0	4.2	9.5	2.3
X103	X104	03/17/88	34.0	30.7	32.2	26.9	32.2	27.6	5.0	12.5	4.8
X108	X109	03/28/88	60.4	51.0	56.8	44.9	56.8	48.4	7.1	22.4	28.0
X114	X115	03/28/88	32.5	28.0	31.0	25.1	31.2	25.8	5.2	25.3	3.2
X116	X117	03/28/88	45.9	38.8	43.0	32.9	43.0	37.0	6.3	16.0	12.0
X120	X121	03/28/88	38.9	33.4	36.2	29.2	36.4	31.4	5.8	14.0	7.2
X122	X123	03/30/88	64.7	53.0	60.4	45.2	60.8	51.2	8.1	25.1	35.0
X126	X127	03/30/88	52.6	44.6	49.3	38.2	49.7	43.8	7.6	19.4	19.0
X124	X125	03/30/88	48.1	39.7	45.4	34.4	45.6	38.5	6.8	18.7	15.0
X130	X131	03/31/88	42.9	37.4	40.8	31.8	41.2	35.8	6.6	17.1	8.5
X130	X131	03/31/88	37.2	32.1	35.8	28.8	35.8	30.7	5.6	13.5	6.1
X132	X133	03/31/88	50.7	46.0	47.9	38.8	48.1	40.2	7.4	18.8	16.5
X134	X135	03/31/88	36.5	32.0	34.2	28.3	34.3	28.6	5.9	13.6	5.3
X136	X138	03/31/88	51.7	45.7	48.7	39.5	49.1	41.3	6.9	17.8	17.0
X141	X142	04/22/88	56.0	45.5	52.2	38.6	52.3	44.3	7.3	20.2	20.0
X143	X144	04/22/88	46.3	43.8	44.1	37.3	44.1	38.8	7.1	17.0	12.0
X151	X152	04/26/88	42.0	34.9	40.2	31.3	40.2	34.0	6.2	15.0	34.0
X155	X156	04/28/88	34.2	29.3	32.2	25.6	32.2	27.0	5.0	11.3	4.5
X158	X159	05/06/88	64.8	58.0	60.6	48.2	61.0	50.8	8.8	24.5	36.0
X137	X157	05/06/88	51.3	44.1	47.8	37.8	47.8	40.0	7.3	19.4	17.0
X168	X169	05/19/88	35.7	29.4	33.5	26.6	33.6	28.2	5.3	12.0	4.8
X183	X184	05/27/88	50.8	43.9	47.3	37.9	47.3	40.1	7.4	19.1	16.5
X185	X186	05/27/88	40.6	37.5	37.8	32.6	38.2	30.9	6.4	14.5	9.5
X191	X192	05/27/88	51.7	50.8	47.7	34.3	47.8	38.8	7.2	17.8	----
X195	X196	06/01/88	38.2	33.4	35.9	29.4	36.3	30.5	5.6	12.9	5.6
X197	X198	06/02/88	29.4	26.6	28.2	23.9	28.6	24.5	4.8	10.8	3.4

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
X199	X200	06/02/88	34.1	29.3	32.3	25.5	32.3	26.7	5.2	12.3	4.3
X201	X202	06/03/88	33.1	29.2	31.4	24.5	31.3	26.2	5.5	11.9	4.2
X208	X209	06/10/88	52.0	44.0	49.1	37.3	50.1	41.8	6.8	18.7	18.5
X212	X213	06/14/88	37.0	31.0	34.5	26.5	34.8	28.0	4.9	12.0	5.0
X232	X233	06/16/88	49.7	42.5	46.0	35.1	46.4	39.7	7.2	19.2	----
X228	X229	06/16/88	75.6	63.9	71.9	52.5	72.4	59.1	9.9	28.9	54.0
X224	X225	06/16/88	66.2	55.7	62.3	46.7	62.7	51.5	8.9	23.4	35.0
X222	X223	06/16/88	35.9	30.6	33.9	34.2	34.2	30.1	5.3	12.9	5.5
X240	X241	06/17/88	48.0	40.5	45.5	35.7	45.9	40.2	6.4	17.9	14.0
X235	X236	06/17/88	35.0	29.2	34.1	29.2	32.2	26.7	5.5	12.6	4.5
X245	X246	06/23/88	36.6	31.5	34.5	27.9	34.7	28.6	5.9	12.4	5.0
X247	X248	06/23/88	59.5	51.7	55.4	41.7	55.4	45.6	7.8	22.3	25.5
X249	X250	06/24/88	33.2	28.0	31.7	24.9	32.3	27.4	5.3	11.8	4.5
X251	X252	06/24/88	28.5	28.0	27.2	21.9	27.2	22.8	4.8	10.2	2.7
X253	X254	06/24/88	34.0	29.8	32.5	26.2	32.5	26.7	5.5	12.0	4.6
X259	X260	06/28/88	58.0	53.2	54.5	43.8	54.9	----	8.1	----	22.0
X263	X264	06/29/88	59.0	49.2	55.0	42.8	55.3	47.3	7.9	20.1	24.5
X261	X262	06/29/88	50.2	42.8	47.1	36.8	47.2	39.1	7.0	17.0	14.5
X203	X204	06/29/88	47.0	40.3	44.1	35.2	44.1	37.0	6.8	17.8	13.5
X268	X269	06/29/88	36.8	32.2	34.8	28.7	34.8	29.7	5.6	13.7	6.0
X265	X266	06/29/88	28.8	24.8	27.3	21.7	27.4	23.6	4.6	10.5	2.7
X278	X279	06/30/88	70.2	57.1	64.9	50.6	66.2	55.0	9.0	23.2	39.0
X280	X281	06/30/88	66.9	60.0	62.8	49.3	63.4	53.2	9.3	23.3	----
X292	X293	07/12/88	42.8	37.4	39.8	32.1	40.4	35.0	6.5	15.3	10.0
X294	X295	07/15/88	40.0	34.4	38.3	29.0	38.3	33.0	5.8	13.4	----
X297	X298	07/19/88	30.9	26.2	29.5	23.4	29.7	25.0	5.1	11.7	3.6
X301	X302	07/22/88	30.9	28.0	29.7	24.8	30.0	25.8	5.2	11.4	3.8
X303	X304	07/22/88	25.8	21.8	24.3	18.5	24.4	19.9	3.9	8.3	1.7
X307	X308	07/26/88	41.6	35.1	39.1	30.0	39.4	32.7	5.3	14.1	7.2
X315	X316	07/28/88	38.1	31.6	35.7	27.5	35.8	30.8	5.6	13.0	5.8
X311	X312	07/28/88	52.7	44.5	48.8	38.0	48.9	39.2	7.8	17.6	15.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
X309	X310	07/28/88	46.5	36.6	44.3	31.6	44.5	35.8	6.9	16.8	12.5
X317	X318	08/03/88	30.3	25.3	28.6	22.3	28.6	23.3	4.8	10.4	3.1
X128	X129	08/05/88	44.2	39.4	42.0	32.5	42.4	36.1	6.5	16.5	11.6
X321	X322	08/12/88	45.0	39.2	42.0	34.0	42.0	36.2	7.0	16.5	11.5
X319	X320	08/12/88	35.5	32.8	33.5	28.0	33.5	28.0	5.5	13.0	5.2
X330	X331	08/31/88	34.5	29.5	32.4	25.9	32.9	28.3	5.3	12.7	4.7
X332	X333	08/31/88	38.5	31.8	36.0	27.8	36.1	30.0	5.9	13.2	5.7
X341	X342	09/28/88	51.9	46.0	48.9	38.8	49.3	43.8	7.9	19.6	17.5
X345	X346	11/16/88	51.0	41.8	47.7	36.9	47.8	40.9	7.0	16.9	15.5
X354	X355	11/25/88	42.6	36.5	40.4	31.2	40.4	34.0	6.7	14.6	8.2
X358	X359	11/30/88	35.6	30.2	33.8	26.7	34.0	28.5	5.2	11.5	4.7
X361	X362	11/30/88	34.4	28.6	32.3	25.6	32.4	27.0	5.4	12.2	4.5
X363	X364	11/30/88	56.7	48.4	53.3	41.9	53.5	44.3	7.6	19.3	20.0
X366	X367	11/30/88	60.0	53.2	56.1	46.0	56.3	52.0	8.0	22.2	25.0
X368	X369	11/30/88	42.2	36.2	40.0	31.7	40.2	34.5	5.9	14.8	9.5
X370	X371	11/30/88	65.0	56.2	58.8	44.8	59.0	51.7	9.3	21.5	28.0
X372	X373	11/30/88	34.0	30.0	31.9	26.2	32.0	27.0	5.4	12.2	4.6
X374	X375	11/30/88	40.3	34.5	37.7	30.1	37.8	31.7	6.3	13.8	6.6
X365	X376	12/09/88	38.2	33.2	35.9	28.8	36.3	30.6	5.9	12.9	5.7
X377	X378	12/09/88	33.4	30.0	30.9	25.1	31.2	25.3	5.1	11.3	3.9
X379	X380	12/09/88	29.7	25.0	28.6	23.0	28.6	24.0	4.5	10.1	3.1
X381	X382	12/09/88	37.1	32.7	34.4	29.2	34.4	31.0	6.4	14.1	6.4
X389		12/09/88	40.1	36.5	38.2	30.9	38.2	32.8	6.3	13.8	6.9
X387	X388	12/09/88	32.1	27.3	30.2	24.1	30.3	26.1	4.8	11.2	3.6
X385	X386	12/09/88	67.2	55.2	61.9	46.5	62.3	50.5	8.9	23.6	33.0
BP501	X398	01/16/89	33.4	29.7	31.2	26.2	31.3	26.6	5.0	12.1	4.2
BP502	X399	01/16/89	47.6	39.9	44.9	34.2	45.0	37.0	6.7	15.9	12.5
BP503	X400	01/16/89	35.9	30.5	33.5	27.2	33.6	27.9	5.6	11.8	4.7
BP505	X703	01/16/89	43.2	37.0	40.2	31.6	40.3	34.0	6.6	15.3	10.0
BP506	X704	01/16/89	74.0	64.3	68.8	53.5	69.2	58.0	9.9	26.8	48.5
BP504	X701	01/16/89	44.5	38.1	42.4	32.9	43.0	34.7	6.8	15.6	10.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP521	X702	01/16/89	32.6	27.1	31.1	24.3	31.2	26.5	5.2	11.4	4.4
BP508	X705	01/16/89	33.1	26.5	31.0	23.9	31.1	25.9	5.0	11.2	3.9
BP511	X708	01/31/89	44.2	39.6	42.3	35.1	42.7	36.6	6.8	15.8	11.0
BP516	X710	01/31/89	35.1	29.8	33.3	25.5	33.4	29.1	5.6	12.2	4.9
BP515	X709	01/31/89	51.0	44.3	48.2	38.9	48.6	42.0	7.4	18.9	17.0
X715	X716	03/21/89	31.3	27.6	29.6	23.7	29.7	25.4	5.3	11.9	3.9
X717	X718	03/21/89	44.2	37.8	41.5	33.9	41.5	34.6	6.2	14.6	8.2
BP517	X711	03/21/89	69.8	59.8	64.4	50.0	64.5	56.1	9.7	26.1	42.0
BP519	PPV430	03/21/89	37.4	31.3	35.1	26.9	35.1	29.5	5.8	13.6	6.1
X720	X721	05/17/89	36.8	30.0	34.6	26.0	35.3	29.5	5.3	13.1	5.7
BP526	X726	05/25/89	34.0	30.4	32.8	26.2	32.8	27.8	5.4	12.5	5.2
BP522	X723	05/25/89	35.0	28.8	33.5	25.0	33.5	28.0	5.0	12.1	4.5
BP524	X724	05/25/89	36.5	30.9	34.5	27.2	34.5	29.4	6.0	12.5	5.4
BP525	X725	05/25/89	34.2	28.5	32.2	25.5	32.2	27.2	5.5	12.4	4.9
BP529	X729	05/31/89	31.3	26.4	28.8	22.4	28.8	24.5	5.0	11.1	3.2
BP523	X728	05/31/89	36.9	33.5	33.8	28.2	33.9	29.9	5.2	14.0	5.8
X733	X735	06/14/89	37.0	30.5	35.3	26.5	35.3	29.1	5.5	12.9	5.7
BP531	X732	06/14/89	44.7	38.2	41.2	32.6	41.6	35.4	6.4	16.0	11.0
BP535	X737	06/16/89	42.3	34.1	38.1	29.2	38.6	30.5	6.0	14.5	7.3
BP533	X736	06/16/89	34.8	30.0	33.0	25.9	33.2	28.7	5.8	13.1	5.3
BP546	X753	07/14/89	29.5	26.5	28.8	23.6	28.8	24.7	5.0	10.0	3.1
BP553	X759	07/20/89	45.2	37.7	43.4	33.5	44.0	35.6	6.8	15.1	10.8
BP549	X755	07/20/89	42.7	33.5	40.0	29.5	40.1	34.6	6.2	15.5	10.0
BP551	X757	07/20/89	45.1	37.9	43.1	32.8	43.3	35.5	6.4	16.1	13.0
BP550	X756	07/20/89	35.8	29.7	34.7	27.0	35.0	28.4	5.7	12.4	5.1
BP552	X758	07/20/89	38.6	34.5	36.2	30.2	36.3	30.2	5.9	13.7	6.5
BP554	X760	07/24/89	54.5	45.9	51.3	40.9	51.9	44.2	7.2	19.0	17.0
BP555	X761	07/24/89	32.3	28.5	30.6	25.1	30.6	26.1	4.6	11.7	3.9
BP556	X762	07/24/89	35.6	32.4	32.8	26.8	33.3	28.7	5.5	13.2	6.0
BP557	X763	07/27/89	36.8	32.0	35.2	27.6	35.6	29.5	4.9	13.8	6.1
BP558	X764	07/27/89	31.7	28.0	29.4	24.9	30.0	25.6	5.0	11.7	4.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP559	X766	07/27/89	42.0	35.9	39.3	31.0	39.9	34.4	6.0	14.5	7.8
BP561	X768	07/28/89	32.4	27.8	30.8	24.5	31.0	25.3	5.2	11.4	4.2
BP566	X772	08/16/89	36.8	31.5	34.8	27.0	35.0	29.9	5.0	13.2	6.0
BP567	X773	08/16/89	37.2	30.4	34.5	26.9	34.6	28.7	5.0	12.0	5.5
BP568	X774	08/16/89	36.2	29.1	34.2	24.9	34.3	29.3	5.2	12.8	5.3
BP569	X775	08/16/89	34.3	28.3	32.6	25.8	32.6	27.3	5.6	11.8	4.2
BP571	X776	08/18/89	39.0	34.0	36.2	30.5	37.2	30.8	5.1	13.9	6.6
BP572	X778	08/18/89	43.0	37.8	40.7	32.4	41.7	35.8	6.1	15.9	9.8
BP573	X777	08/18/89	32.7	30.0	30.8	26.1	30.8	27.0	4.8	11.4	4.7
BP574	X779	08/22/89	41.0	37.1	38.6	31.0	39.0	33.8	5.9	15.2	8.2
X780		08/22/89	42.1	36.0	40.2	30.8	40.7	35.5	6.3	15.7	9.0
BP587	X792	09/07/89	35.9	30.2	33.8	27.3	34.2	28.5	5.2	12.1	5.0
BP586	X791	09/07/89	37.2	32.5	35.2	28.1	35.8	30.1	5.6	11.8	5.8
BP584	X790	09/07/89	36.4	30.9	34.2	26.3	34.3	29.0	5.1	13.5	5.6
BP582	X789	09/07/89	34.0	29.0	32.1	25.6	32.5	27.8	5.1	11.6	4.7
BP581	X788	09/07/89	46.6	40.3	43.9	34.5	44.8	38.5	6.6	16.6	11.8
BP580	X786	09/07/89	71.4	62.7	66.8	54.4	67.8	57.0	9.6	25.2	44.0
BP579	X785	09/07/89	34.1	29.6	31.5	26.8	32.3	27.1	5.5	12.2	4.9
BP578	X784	09/07/89	35.2	31.5	33.1	27.4	33.3	28.7	5.1	12.4	5.4
BP577	X783	09/07/89	57.3	50.7	53.2	40.5	54.7	45.0	8.3	21.8	25.0
BP595	X799	11/01/89	66.1	59.5	63.5	50.1	63.8	53.0	9.0	22.9	38.0
BP596	X800	11/01/89	36.7	31.6	35.1	28.5	35.4	29.4	5.4	12.3	5.4
BP597	X1501	11/01/89	43.8	36.6	40.8	31.4	42.0	34.7	6.1	14.9	8.9
BP1404	X1510	11/15/89	40.8	34.6	38.3	31.0	38.4	32.9	4.9	13.1	7.1
BP1403	X1509	11/15/89	37.8	32.3	35.5	28.4	35.8	29.5	6.5	12.8	6.1
BP1401	X1507	11/15/89	36.0	30.5	34.2	28.1	34.2	28.8	6.2	13.6	5.2
BP1405	X1511	11/24/89	68.6	57.2	63.6	48.4	64.2	52.5	8.1	23.0	36.0
BP1407	X1513	11/24/89	49.8	44.8	48.9	38.2	48.9	41.9	7.0	18.0	16.0
BP1409	X1516	11/24/89	36.0	31.8	33.2	26.1	33.2	29.2	5.0	13.2	5.3
BP1418	X1518	03/13/90	38.3	30.9	36.2	28.0	36.2	30.1	5.8	11.6	4.9
BP1419	X1519	03/13/90	40.1	34.9	36.3	29.4	36.5	30.6	5.5	13.3	6.3

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP1420	X1520	03/13/90	42.3	34.4	38.7	29.0	39.0	33.0	6.0	14.1	7.4
BP1421	X1521	03/13/90	39.7	34.3	37.1	28.7	37.1	30.4	5.0	13.2	6.7
BP1423	X1523	03/16/90	31.4	26.8	29.2	23.3	29.2	25.8	4.5	10.9	3.5
BP1422	X1522	03/16/90	33.0	29.2	30.5	26.2	30.8	27.1	4.8	10.5	4.2
BP1428	X1527	05/14/90	37.6	33.0	35.4	28.9	35.4	30.9	5.0	12.7	6.1
BP1429	X1528	05/14/90	38.4	34.0	36.0	29.0	36.3	30.8	5.5	13.3	6.5
BP1430	X1529	05/14/90	35.5	27.9	33.1	24.5	33.1	27.6	5.2	13.5	4.8
BP1432	X1531	05/15/90	34.8	29.9	33.4	25.7	34.0	29.0	5.1	12.0	5.3
BP1433	X1533	05/17/90	35.6	31.0	33.0	28.0	33.1	28.5	5.2	13.5	5.6
BP1434	X1534	05/18/90	43.2	35.4	41.2	31.7	41.6	33.4	5.9	14.0	8.3
BP1436	X1536	05/18/90	38.7	33.2	36.2	28.2	36.7	30.0	5.9	14.1	6.7
BP1437	X1537	05/18/90	41.7	36.0	39.1	30.2	39.3	34.8	5.6	14.0	8.2
BP1438	X1538	05/18/90	37.3	32.0	34.0	26.4	34.0	29.0	5.2	13.3	5.9
BP1439	X1539	05/24/90	35.7	32.5	33.8	28.0	34.1	29.4	5.8	12.0	5.5
BP1440		05/25/90	37.2	33.5	34.1	28.0	34.2	29.0	5.7	13.4	5.8
BP1443	X1541	05/29/90	42.0	36.6	40.4	33.0	40.6	34.5	6.2	14.2	8.4
BP1444	X1542	06/04/90	44.8	38.5	42.1	33.7	42.3	34.8	6.0	15.3	10.2
BP1445	X1544	06/08/90	36.1	31.2	34.5	28.0	34.7	30.0	5.4	13.2	5.8
BP1451	X1543	06/08/90	39.6	34.5	37.0	28.8	37.1	32.0	5.7	14.1	7.2
BP1448	X1547	06/18/90	33.8	29.6	31.3	27.1	31.6	26.0	5.7	12.3	4.5
BP1450	X1549	06/28/90	41.6	35.0	39.0	30.0	39.2	33.2	6.1	15.0	7.8
BP1449	X1548	06/28/90	33.4	27.9	31.8	24.7	32.5	27.0	5.1	12.3	4.8
BP1457	X1555	07/11/90	36.3	32.6	34.8	28.5	34.9	29.1	6.0	13.5	6.3
BP1458	X1556	07/18/90	35.2	29.9	33.5	26.3	33.8	28.6	5.6	12.6	5.3
BP1460	X1559	07/18/90	32.2	26.7	31.0	23.6	31.1	26.9	5.1	11.4	4.0
BP1461	X1560	07/20/90	38.3	31.6	35.6	27.1	35.6	29.5	6.3	14.8	6.9
BP1462	X1561	07/30/90	38.6	31.9	36.5	29.2	37.0	31.0	12.6	6.1	6.3
BP1477	X1576	09/04/90	46.1	36.2	43.2	31.3	43.5	37.1	7.0	17.1	11.0
BP1476	X1574	09/04/90	37.6	33.2	35.7	28.7	35.9	30.4	5.9	13.4	6.2
BP1480	X1579	11/23/90	44.4	38.0	42.9	33.7	43.2	37.8	7.2	17.9	12.4
BP1479	X1578	11/23/90	42.8	35.7	41.0	31.4	41.2	33.4	6.5	15.1	8.7

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP1484	X1582	03/12/91	44.0	38.1	41.7	33.7	42.0	35.5	6.6	14.5	9.1
BP1486	X1584	03/12/91	36.4	32.2	34.4	28.3	34.8	29.5	5.6	13.2	5.5
BP1487	X1585	03/13/91	41.3	34.9	38.9	29.4	39.2	33.9	6.5	15.0	8.1
BP1489	X1587	05/24/91	31.0	26.9	29.7	23.6	29.8	25.2	5.2	12.6	3.9
BP1490	X1588	05/28/91	33.2	38.3	35.9	27.9	36.1	30.6	5.7	14.3	6.3
BP1492	X1590	05/30/91	33.5	29.6	31.5	25.2	31.6	26.9	5.3	13.4	4.6
BBA812	QQC618	06/07/91	39.3	36.8	37.7	32.9	37.9	32.2	6.4	14.9	7.3
BBA690	X2203	06/07/91	33.8	28.6	32.3	25.7	32.5	26.8	5.2	12.6	4.7
BBA697	X2211	06/20/91	35.4	29.1	33.2	25.9	33.3	27.7	5.7	12.5	5.0
BBA696	X2210	06/20/91	37.8	31.0	35.6	27.3	35.8	29.9	5.9	12.7	6.0
BBA698	X2212	06/27/91	40.6	35.8	37.4	30.2	37.6	33.1	6.3	16.3	8.2
BBA703	X1527	06/28/91	42.5	36.5	40.7	32.9	40.9	35.0	6.3	14.5	8.8
BBA700	X2218	06/28/91	29.9	25.5	28.7	22.3	28.7	23.9	4.9	10.5	3.1
BBA701	X2219	06/28/91	48.5	41.4	45.6	36.5	45.8	38.5	6.7	15.4	11.2
BBA702	X2215	06/28/91	59.4	50.5	56.1	44.1	56.8	49.1	8.0	20.8	31.0
BBA704	X2216	06/28/91	33.1	28.3	30.9	25.2	31.0	26.5	5.0	11.6	4.3
BBA709	X2223	07/09/91	29.5	25.3	27.9	22.4	27.9	23.7	4.8	10.2	2.9
BBA720	X2232	08/07/91	46.0	39.4	43.6	34.3	43.9	36.7	6.7	16.3	10.9
BBA719	X2233	08/07/91	52.0	43.6	49.5	49.6	49.6	42.5	6.4	18.4	20.0
BBA737	X2240	10/17/91	42.0	36.8	39.9	31.6	40.1	34.6	6.5	15.2	8.9
BBA743	X2241	10/17/91	39.4	32.7	37.4	29.2	37.7	32.5	6.1	14.6	7.2
BBA736	X2239	10/17/91	49.5	43.0	46.2	38.5	46.5	39.3	7.1	16.0	13.1
BBA734	X2238	10/17/91	51.3	42.3	48.4	36.8	48.6	41.4	7.7	17.9	15.0
BBA735	X2237	10/17/91	38.1	31.4	36.0	28.9	36.2	31.0	6.1	13.4	6.8
BBA744	X2243	11/29/91	36.4	32.6	34.0	28.3	34.0	29.5	5.3	13.2	5.4
BBA739	X2242	11/29/91	35.5	30.5	33.8	26.3	33.9	28.6	5.8	12.1	4.6
BBA745	X2244	11/29/91	40.4	35.4	38.1	31.1	38.2	31.6	6.5	14.6	7.6
BBA749	X2245	11/29/91	39.7	33.8	37.4	29.6	37.5	31.3	6.2	14.4	6.6
X2277		11/29/91	47.9	42.0	45.5	36.2	45.8	38.8	7.1	17.3	12.4
BBA748	X2246	11/29/91	46.9	39.1	43.7	33.7	43.9	37.6	7.0	15.9	10.5
BBA751	X2249	11/29/91	53.5	45.6	49.5	37.0	50.1	43.6	7.7	18.8	22.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BBA750	X2250	11/29/91	39.9	34.7	37.2	30.7	37.7	31.5	6.1	13.6	7.3
BBA752	X2276	11/29/91	56.9	51.0	52.5	41.9	52.8	43.8	8.3	21.0	26.0
BBA770	X2279	03/10/92	39.3	34.5	37.2	30.2	37.5	31.2	5.9	13.6	6.3
BBA756	X2282	05/12/92	57.4	48.1	53.4	41.2	53.9	45.8	7.9	20.6	26.0
BBA761	X2285	05/13/92	37.6	29.6	35.2	26.6	35.2	29.0	5.8	11.9	5.1
BBA765	X2288	05/15/92	52.1	44.0	48.9	37.9	49.0	40.7	7.2	18.3	20.0
BBA766	X2289	05/15/92	29.5	22.9	27.7	26.0	27.9	22.9	4.9	10.7	3.0
BBA768	X2292	05/21/92	55.5	46.6	51.3	40.0	51.8	44.8	8.0	18.0	22.0
BBA760	X2290	05/21/92	34.7	30.4	32.4	25.9	32.7	29.1	5.4	12.9	5.5
BBA767	X2293	05/21/92	38.6	34.0	36.5	28.7	36.5	30.2	5.9	13.7	6.4
BBA772	X2296	05/26/92	50.1	41.3	47.8	36.4	48.0	40.0	7.1	17.8	18.0
BBA771	X2295	05/26/92	48.0	44.4	45.6	34.9	45.9	37.8	7.6	21.7	24.5
X2297		05/29/92	46.1	40.0	43.3	34.7	43.0	37.2	6.6	15.0	10.3
BBA776	X2299	06/02/92	37.6	31.0	35.1	27.5	35.1	30.4	5.6	13.5	6.3
BP2506	BP2507	07/09/92	43.4	36.0	41.4	32.1	41.8	36.6	6.7	16.4	9.8
BP2518	X4190	07/16/92	58.0	49.9	53.3	40.4	53.7	45.3	8.3	21.7	27.0
BP2527	X4199	07/28/92	39.2	33.9	37.3	28.8	37.3	30.7	6.0	13.9	----
BP2535	X4332	08/06/92	50.7	43.7	47.1	36.8	47.2	39.3	7.6	19.0	14.1
BP2537	X4334	08/11/92	35.0	29.6	33.4	26.6	33.6	27.9	5.4	12.4	4.9
BP2540	X4338	08/21/92	50.1	42.0	47.7	35.3	48.0	39.5	6.8	17.8	13.0
BP2546	X4344	11/13/92	48.9	40.9	46.5	34.8	46.8	39.2	7.3	18.2	19.0
BP2543	X4341	11/13/92	56.9	49.3	53.7	43.0	54.1	45.9	8.1	19.9	25.0
BP2544	X4342	11/13/92	49.6	43.4	46.6	37.4	46.7	40.3	7.2	18.6	20.0
BP2545	X4343	11/13/92	34.3	28.7	32.3	25.2	32.4	27.5	5.7	11.4	4.2
BP2542	X4340	11/13/92	40.7	36.6	39.3	32.0	39.6	32.7	6.2	14.4	7.4
BP2551	X4350	11/24/92	60.5	50.2	55.4	42.9	55.5	44.6	7.5	20.3	20.4
BP2549	X4346	11/24/92	40.6	36.2	38.7	31.3	38.9	32.3	6.6	14.4	7.7
BP2552	X4347	11/24/92	48.8	43.4	46.1	36.7	46.1	38.9	7.2	16.3	12.9
BP2556	X4357	12/04/92	40.6	35.8	38.3	30.7	38.6	33.5	6.5	13.8	7.5
BP2555	X4355	12/04/92	46.9	40.8	44.1	34.7	44.2	38.6	6.8	17.0	12.4
BP2554	X4356	12/04/92	47.7	41.4	44.2	34.9	44.7	39.2	7.0	17.4	17.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP2553	X4353	12/04/92	61.7	52.4	57.3	43.3	57.8	50.3	8.1	23.0	32.0
BP2562	X4362	12/04/92	52.3	45.4	49.6	39.9	50.1	43.4	7.8	19.0	23.0
BP2561	X4354	12/04/92	34.1	29.5	32.4	26.2	32.6	27.2	5.3	11.9	4.3
BP2560	X4361	12/04/92	32.7	28.0	30.4	24.5	30.6	26.5	5.0	11.1	3.6
BP2559	X4360	12/04/92	40.9	33.6	38.7	30.3	38.8	32.9	6.2	14.0	7.3
BP2558	X4359	12/04/92	41.5	39.0	38.1	33.3	38.3	33.7	6.3	13.7	7.1
BP2557	X4358	12/04/92	43.6	37.1	41.3	33.5	41.4	35.8	6.7	15.2	9.5
BP2566	X4454	01/18/93	77.6	68.5	72.3	56.2	72.8	60.5	11.0	27.3	57.0
BP2565	X4453	01/18/93	55.1	49.0	52.2	40.7	52.3	43.2	7.6	19.9	24.0
PB2567	X4455	01/18/93	31.6	26.9	30.0	24.3	30.3	26.2	5.1	12.1	4.3
BP2564	X4452	01/18/93	37.4	31.3	35.4	27.5	35.6	29.3	5.8	12.9	5.6
BP2576	X4460	03/09/93	45.5	38.5	41.5	33.0	41.5	35.2	6.3	15.5	9.1
BP2568	X4457	03/09/93	36.0	29.0	34.0	25.3	34.0	28.8	5.4	13.5	5.2
BP2569	X4458	03/09/93	37.7	32.3	35.3	28.8	35.6	29.4	5.8	13.1	6.0
BP2573	X4461	03/09/93	39.9	33.9	38.3	30.1	38.5	31.7	6.4	14.6	7.3
BP2571	X4462	03/09/93	31.9	28.0	30.4	24.6	30.6	25.4	5.1	11.7	3.7
BP2572	X4463	03/09/93	38.5	33.1	36.1	29.2	36.5	31.7	6.0	12.9	6.0
BP2575	X4459	03/09/93	37.5	31.5	34.9	28.1	35.1	28.9	5.9	13.6	5.6
BP2574	X4464	03/09/93	33.9	29.9	32.2	26.3	32.3	27.2	5.5	12.3	4.6
BP2577	X2577	03/10/93	40.9	34.9	37.9	29.6	38.0	32.6	6.2	14.6	7.1
BP2579	X4475	05/14/93	48.2	41.9	45.7	36.7	45.8	37.6	7.2	17.5	11.5
BP2580	X4474	05/18/93	59.2	50.4	56.5	42.8	56.7	47.2	7.7	20.4	27.0
BP2582	X4473	05/18/93	44.1	37.3	41.6	32.3	41.8	36.1	6.6	16.1	9.5
BP2583	X4467	05/19/93	46.3	38.6	43.6	32.6	44.0	36.7	6.3	16.9	10.1
BP2584	X4468	05/19/93	55.7	49.8	52.6	42.1	52.7	44.7	7.4	19.7	25.0
BP2587	X4471	05/20/93	53.3	45.8	49.4	39.1	49.5	42.6	7.6	20.1	17.0
BP2589	N2026	05/27/93	42.7	37.4	39.1	31.1	39.3	32.4	6.1	15.7	7.8
BP2590	N2027	06/01/93	56.2	48.3	52.7	39.3	53.1	44.9	7.8	20.3	24.0
BP2601	N2028	06/03/93	53.8	47.7	51.2	40.1	51.4	44.1	7.7	19.1	24.0
BP2602	N2029	06/04/93	47.0	39.5	43.8	34.5	43.4	35.7	7.1	16.1	10.9
BP2603	N2032	06/04/93	51.4	46.6	48.9	40.1	49.1	40.8	8.0	19.6	16.3

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP2591	N2031	06/04/93	53.5	47.9	51.0	40.1	51.3	43.9	7.5	19.5	18.2
BP2604	N2033	06/16/93	62.9	52.3	58.5	44.0	58.6	48.6	8.9	22.7	33.0
BP2599	N2035	06/18/93	76.0	66.1	72.4	56.9	73.1	61.5	10.6	27.7	60.0
BP2593	N2037	06/22/93	48.7	43.6	46.5	37.2	46.6	39.7	7.2	16.2	20.0
BP2606	N2043	06/25/93	42.3	37.4	40.5	32.0	40.6	33.3	6.6	15.4	8.7
BP2607	N2044	06/25/93	48.3	45.4	46.3	38.5	46.8	39.5	7.1	17.2	13.5
BP2649	N2339	07/12/93	61.6	52.5	57.9	43.3	58.4	47.5	8.3	22.0	34.0
BP2651	N2341	07/14/93	34.2	28.9	32.6	26.1	32.8	27.6	5.6	13.1	----
BP2600	N2342	07/15/93	43.0	37.0	40.5	31.7	40.5	34.8	6.4	16.5	9.2
BP2669	N2385	07/30/93	36.4	30.5	34.2	27.9	34.4	27.8	5.5	11.8	4.8
BP2670	N2386	07/30/93	38.0	31.8	37.3	29.0	37.6	30.3	5.8	11.9	5.6
BP2672	N2388	08/03/93	39.9	34.6	38.3	30.7	38.7	32.5	5.6	13.5	7.0
BP2676	N2393	08/03/93	48.2	40.0	46.2	35.7	46.5	40.0	7.1	16.6	11.6
BP2675	N2390	08/05/93	46.4	40.0	43.8	35.2	44.2	37.4	6.8	15.6	11.2
BP2674	N2391	08/05/93	32.7	28.2	31.3	24.6	31.5	27.7	5.4	12.3	4.5
BP2680	N2396	08/11/93	45.1	41.7	43.3	335.5	43.6	36.0	6.9	14.7	9.5
BP2683	N2398	08/12/93	65.7	61.5	61.3	49.8	61.5	51.0	9.0	23.8	40.0
BP3126	N3064	12/21/93	39.5	35.0	37.0	30.5	37.1	30.5	6.0	13.8	6.4
BP3124	N3110	12/21/93	43.5	37.0	41.2	31.5	41.3	34.3	6.8	15.7	9.2
BP3120	N3062	12/21/93	55.7	47.5	52.1	41.9	52.7	43.8	8.0	19.8	26.5
BP3118	N3049	12/21/93	45.2	38.6	42.4	34.0	42.6	37.0	6.9	16.0	10.5
BP3125	N3063	12/21/93	46.2	38.8	42.4	33.4	42.4	37.2	7.0	16.5	10.8
BP3119	N3050	12/21/93	42.1	34.9	40.0	30.5	40.2	33.9	6.4	15.2	8.5
BP3117	N3048	12/21/93	60.2	49.9	55.9	42.6	56.8	47.6	7.7	20.2	29.0
BP3114	N3047	12/21/93	35.5	30.1	33.8	27.0	33.8	28.3	5.2	12.5	5.0
BP3113	N3046	12/21/93	39.4	34.0	37.1	30.1	37.2	29.4	6.0	13.6	6.4
BP3122	N3108	12/21/93	42.2	34.4	39.3	30.7	39.3	32.8	6.2	14.7	8.2
BP3121	N3107	12/21/93	49.7	42.1	47.0	37.8	47.1	41.0	8.0	17.7	21.0
BP3123	N3109	12/21/93	49.9	43.7	47.2	36.9	47.5	39.6	7.3	17.8	22.5
BP3136	N3111	02/18/94	41.2	35.0	39.8	30.5	40.0	32.7	6.0	14.0	7.5
BP3137	N3112	02/18/94	64.0	57.6	61.2	49.6	61.9	55.8	9.1	24.5	----

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP3135	N3099	02/18/94	34.3	29.0	32.3	34.9	32.4	28.2	5.3	12.3	5.6
BP3134	N3098	02/18/94	36.0	29.4	33.7	26.0	33.3	27.9	6.0	12.3	4.8
BP3148	N3124	05/24/94	42.9	36.5	39.7	31.2	39.7	33.1	6.1	15.4	9.4
BP3151	N3143	05/24/94	50.6	43.1	48.0	36.9	48.2	41.3	7.1	17.6	14.9
BP3157	N3149	05/26/94	40.4	35.7	38.5	30.9	38.8	31.4	6.0	14.1	6.9
BP3158	N3185	05/26/94	34.6	30.0	32.9	27.3	33.2	27.7	5.9	12.4	5.0
BP3162	N3189	05/31/94	55.7	48.8	51.4	40.8	51.5	46.8	7.9	19.1	25.0
BP3168	N3193	06/02/94	48.2	41.2	45.0	36.0	45.0	38.3	6.9	17.9	12.8
BP3167	N3192	06/02/94	31.2	26.4	29.1	24.2	29.2	24.7	4.9	10.6	3.1
BP3169	N3194	06/02/94	42.5	38.0	40.5	32.8	40.5	34.6	6.5	15.0	8.5
BP3171	N4507	06/10/94	40.1	26.5	29.0	23.9	29.4	24.5	4.8	11.0	3.3
BP3175	N3198	06/10/94	64.5	54.4	61.4	46.6	61.7	53.7	8.7	23.0	35.7
BP3176	N4501	06/10/94	47.5	40.9	44.8	34.8	45.0	38.7	6.8	18.5	20.0
BP3179	N4503	07/05/94	39.1	36.8	36.9	30.4	37.2	30.2	6.0	14.5	6.8
BP3180	N4504	07/05/94	39.2	33.8	36.9	30.3	37.1	31.0	6.0	14.5	6.9
BP3183	N4505	07/05/94	43.6	39.1	42.7	35.6	43.1	35.2	6.3	15.6	10.3
BP3196	N5202	07/22/94	37.0	31.2	35.4	28.4	35.5	29.2	5.9	12.9	6.7
BP3206	N5206	07/25/94	41.0	36.1	39.0	31.3	39.3	33.0	6.2	13.8	7.2
N5218		08/09/94	35.2	31.9	34.0	27.7	34.3	28.7	5.7	11.1	4.4
N5219		08/16/94	40.7	34.8	39.0	29.7	39.3	33.1	6.7	13.5	7.3
BP3210	N5220	11/25/94	53.3	45.6	49.5	38.9	50.0	42.2	7.1	18.8	20.2
BP3213	N5223	11/25/94	31.6	25.2	30.1	23.0	35.0	35.0	5.1	11.3	3.5
BP{3214	N5224	11/25/94	30.3	26.4	29.2	23.3	29.4	23.6	5.0	10.9	3.2
BP3215	N5225	11/25/94	53.9	48.4	33.4	27.0	33.5	43.4	5.5	13.1	20.4
BP3212	N5222	11/25/94	34.9	29.5	32.8	26.6	32.9	28.0	5.7	13.0	4.7
BP3208	N5239	11/25/94	62.6	54.2	59.4	44.6	51.1	51.1	8.0	21.8	30.2
N5221		11/25/94	35.1	30.0	33.5	27.0	33.6	29.0	5.6	12.8	5.4
BP3260	X6003	05/08/95	50.3	43.7	48.4	37.3	48.0	39.4	7.4	16.9	20.0
BP3261	X6004	05/08/95	40.3	38.8	37.7	32.8	37.9	32.4	6.3	14.9	7.7
BP3262	X6007	05/09/95	49.7	40.8	47.4	36.3	47.8	39.8	7.1	17.7	19.0
BP3263	X6008	05/11/95	36.0	31.4	33.6	27.3	33.6	29.0	5.9	13.7	5.5

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP3265	X6010	05/15/95	64.9	54.8	60.1	47.4	60.1	52.7	7.8	20.9	34.0
BP3266	X6011	05/15/95	29.2	25.1	27.5	22.0	27.8	24.0	5.2	11.6	2.9
N5493	X6015	05/16/95	31.2	27.1	29.7	23.9	30.1	25.6	5.2	10.4	31.0
BP3267	X6006	05/16/95	51.9	44.0	49.9	37.8	50.0	41.1	7.7	16.7	20.0
BP3269	X6013	05/16/95	59.1	51.7	53.6	44.7	54.2	46.8	8.2	19.3	27.0
BP3268	X6012	05/16/95	60.5	51.6	56.1	43.5	56.5	47.3	8.5	21.2	30.0
BBE233	QQJ274	05/16/95	30.6	27.3	29.1	23.6	29.1	23.6	4.9	10.8	2.9
BP3270	X6014	05/16/95	40.9	34.4	39.1	30.4	39.1	33.0	6.2	14.3	7.5
BP3279	X6018	05/22/95	39.2	32.7	35.5	28.9	35.8	30.6	6.0	13.0	5.8
BP3280	X6019	05/22/95	35.5	30.7	33.7	27.6	33.9	27.7	5.7	12.6	4.8
BP3282	X6020	05/22/95	44.6	38.9	42.8	33.7	36.1	36.1	7.1	15.0	9.0
BP3283	X6021	05/26/95	38.4	35.4	36.3	30.6	36.4	31.4	5.7	13.7	6.7
BP3284	X6022	05/30/95	30.6	27.1	28.9	23.2	29.2	23.9	4.9	9.4	2.9
BP3288	N5271	06/06/95	42.5	27.9	40.3	31.4	40.6	33.1	6.7	15.6	9.3
BP3300	X6023	06/06/95	35.1	31.5	33.9	27.3	34.0	28.8	5.3	13.6	5.1
BP3293	X6034	06/06/95	36.0	34.2	34.2	29.3	34.3	28.2	6.2	13.1	5.5
BP3291	X6024	06/06/95	38.2	32.7	36.3	29.8	36.8	31.6	5.7	13.6	6.7
BP3294	X6036	06/08/95	62.0	52.4	57.8	43.2	58.3	49.8	8.6	21.2	31.0
BP3295	X6037	06/08/95	34.7	29.1	33.4	25.6	33.4	27.6	5.4	12.2	5.0
BP3290	X6035	06/08/95	43.6	36.6	41.1	31.1	41.1	33.1	6.5	15.7	8.8
BP5508	X6040	06/15/95	34.5	31.2	33.0	27.5	33.2	27.9	5.5	13.0	4.8
BP5513	X6041	06/15/95	38.5	34.0	36.9	30.4	37.1	31.4	5.8	13.7	6.7
BP5566	X6082	06/18/95	34.7	28.2	33.5	25.6	33.7	27.6	5.6	11.6	4.6
BP5525	X6059	06/20/95	39.5	33.6	37.7	30.9	37.9	32.0	6.2	13.0	6.7
BP5531	N5488	06/26/95	57.1	47.9	53.7	41.3	54.0	45.9	8.4	19.3	29.0
BP5553	X6033	07/06/95	45.3	41.1	43.1	35.2	43.3	36.5	7.2	17.0	12.0
BP5554	X6060	07/07/95	32.9	30.6	31.8	27.5	31.8	26.7	5.7	12.3	4.7
BP5566	X6082	07/18/95	34.7	28.2	33.5	25.6	33.7	27.6	5.6	11.6	4.6
BP5570	X6086	07/25/95	42.3	35.9	39.9	31.1	39.9	33.8	6.5	15.5	8.9
BP5575	X6087	07/31/95	33.3	29.8	32.3	26.0	32.6	27.2	5.5	11.7	4.7
BP5574	X6088	07/31/95	52.4	45.8	49.9	39.6	49.9	41.0	7.5	19.4	22.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP5573	X6089	07/31/95	45.2	37.7	42.6	32.1	42.7	35.4	6.7	16.2	9.5
BP5572	X6091	08/04/95	34.0	30.0	33.1	26.9	33.3	27.8	5.5	12.9	5.0
BP5571	X6090	08/04/95	31.7	28.6	30.9	26.3	31.2	26.7	5.6	11.9	4.2
BP5576	X6068	08/11/95	40.0	33.2	38.4	29.3	38.6	33.0	6.0	13.9	6.9
BP5583	X6093	08/15/95	43.8	37.6	41.6	32.4	41.6	36.3	6.9	15.7	10.5
BP5585	X6094	08/15/95	59.6	51.7	54.3	43.9	54.8	46.8	8.5	21.5	30.0
BP5587	X6096	09/11/95	53.3	46.4	49.5	39.7	49.7	48.0	6.5	19.2	23.0
BP5586	X6095	09/11/95	34.7	30.2	32.7	26.9	32.8	28.4	5.5	12.2	4.8
BP5591	X6099	09/22/95	58.9	50.0	53.0	42.2	53.2	46.5	8.1	----	28.0
BBE181	QQJ214	11/21/95	34.2	30.4	32.6	26.7	32.6	27.7	5.6	12.5	5.1
BP5600	X6108	11/21/95	39.4	34.9	37.3	31.1	37.4	31.2	6.0	13.9	6.5
BP5599	X6107	11/21/95	39.5	34.4	37.4	29.2	37.4	30.7	6.1	14.2	6.7
BP5602	X6111	11/21/95	43.8	37.1	41.0	33.3	41.4	34.0	6.2	13.9	8.2
BP5603	X6039	11/21/95	37.1	30.4	35.3	26.2	35.4	29.5	5.9	13.2	5.7
BP5604	X6113	11/21/95	34.3	33.4	35.3	29.3	35.5	30.5	5.9	13.3	6.6
BP5605	X6114	11/21/95	44.3	37.4	41.7	33.6	42.0	36.2	6.5	14.7	9.3
BP5607	X6116	12/05/95	44.5	37.3	41.5	32.9	41.7	35.6	6.8	16.5	9.9
BP5606	X6115	12/05/95	38.8	32.2	36.7	27.8	36.9	30.8	6.9	13.8	6.3
BP5609	X6118	12/05/95	42.7	37.7	40.5	32.8	40.7	34.2	6.1	15.4	8.9
BP5611	X6120	12/05/95	36.0	31.3	33.9	27.5	34.0	28.2	5.6	13.0	5.4
BP5608	X6117	12/05/95	37.4	31.9	35.2	28.4	35.6	28.3	5.6	13.3	5.9
BP5617	X6121	12/15/95	56.9	48.9	52.7	41.5	52.9	45.9	8.2	21.7	27.0
BP5618	X6122	12/15/95	43.7	35.8	42.0	31.1	42.1	33.3	6.4	14.7	8.7
BP5619	X6123	12/15/95	43.6	35.5	41.0	31.1	41.0	33.6	6.5	16.2	9.1
BP5620	X6124	12/15/95	35.1	29.8	33.4	27.4	33.3	27.3	5.6	11.9	5.0
BP5621	X6139	12/15/95	44.1	37.5	42.2	34.0	42.5	35.2	6.4	15.7	9.9
BP5622	X6125	12/15/95	35.0	29.4	33.3	25.6	33.3	26.8	5.0	11.9	4.5
BP5623	X6140	12/15/95	34.1	29.0	32.8	26.0	33.1	27.1	5.6	12.0	4.6
BP5624	X6141	01/15/96	42.5	39.5	40.4	35.4	40.6	34.0	6.2	13.7	8.1
BP5630	X6155	01/15/96	28.0	23.6	25.8	20.2	25.9	21.5	4.4	9.4	2.1
BP5636	X6146	01/15/96	35.5	28.4	33.6	26.0	33.8	28.1	5.1	12.4	5.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP5628	X6149	01/15/96	60.9	55.4	56.5	43.2	56.6	47.0	8.4	21.9	31.0
BP5629	X6156	01/15/96	53.1	43.6	50.0	37.4	50.0	41.8	7.4	18.4	18.0
BP5626	X6145	01/15/96	33.4	28.8	32.0	25.2	32.3	26.5	5.0	11.3	4.0
BP5634	X6144	01/15/96	33.1	29.4	31.4	26.1	31.7	27.4	5.4	12.1	4.6
BP5635	X6147	01/15/96	30.4	25.6	29.4	22.0	29.5	24.5	4.9	11.1	3.0
BP5631	X6158	01/15/96	62.5	52.8	58.2	45.1	59.3	48.7	8.6	20.5	32.0
BP5637	X6143	01/15/96	36.5	31.4	34.7	26.9	34.9	28.8	5.6	13.5	4.9
BP5633	X6157	01/15/96	62.9	53.8	57.4	41.5	58.0	51.3	8.5	22.5	31.0
BP5627	X6148	01/15/96	45.2	39.8	42.9	34.4	43.1	36.8	6.6	17.6	16.0
BP5625	X6142	01/15/96	35.8	29.2	34.5	26.1	34.9	29.3	5.4	12.7	5.2
BP5641	X6181	01/30/96	45.6	40.6	42.7	35.7	42.9	36.7	6.9	17.2	16.0
BP5632	X6177	01/30/96	51.6	43.7	48.4	37.7	48.7	41.0	7.0	16.9	----
BP5639	X6179	01/30/96	58.3	48.4	53.5	41.3	53.7	45.4	7.4	19.2	26.0
BP5640	X6180	01/30/96	37.8	31.6	34.3	27.7	35.7	30.1	6.0	13.3	5.8
BP5638	X6178	01/30/96	39.6	31.4	35.2	29.4	35.3	29.6	6.4	12.2	5.5
BP5642	X6168	01/30/96	47.8	43.2	44.9	37.0	45.3	39.9	7.0	17.2	17.0
BP5643	X6172	01/30/96	34.4	29.6	32.3	25.1	32.5	29.1	5.5	12.3	4.9
BP5644	X6174	01/30/96	32.6	28.9	31.5	25.7	31.6	27.3	5.9	10.2	3.8
BP5645	X6175	01/30/96	31.7	26.4	29.3	23.2	29.5	45.3	4.9	10.0	3.2
BP5646	X6159	01/30/96	44.5	38.7	41.9	33.8	42.1	37.4	6.6	16.3	----
BP5647	X6160	01/30/96	35.7	30.5	33.6	27.8	33.7	28.3	5.3	11.6	4.7
BP5648	X6162	01/30/96	39.5	32.5	37.3	28.2	37.8	13.2	6.0	13.3	6.2
BP5649	X6166	01/30/96	62.9	53.5	58.0	45.9	58.4	51.4	8.6	21.3	33.0
BP5650	X6163	01/30/96	35.8	30.8	33.6	27.3	33.3	27.8	5.5	12.1	4.3
BP5651	X6170	01/30/96	39.7	32.3	37.2	29.5	37.3	30.4	5.8	11.1	5.5
BP5652	X6173	01/30/96	37.4	33.0	35.2	28.3	35.2	32.0	5.7	13.4	5.5
BP5653	X6176	01/30/96	31.7	27.4	30.1	24.8	30.1	25.4	5.0	11.0	3.9
BP5654	X6167	01/30/96	41.1	34.6	38.7	30.6	31.5	31.5	5.9	13.2	6.5
BP5655	X6171	01/30/96	52.1	45.4	48.1	38.4	48.4	40.4	7.2	16.5	21.0
BP5656	X6169	01/30/96	35.0	30.1	33.1	26.5	33.1	27.8	5.4	12.5	4.7
BP5657	X6165	01/30/96	38.2	31.9	36.0	28.3	36.4	31.0	5.7	13.0	5.9

Table 14 continued

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP5658 X6164	01/30/96	40.3	35.5	37.6	34.0	37.9	31.1	6.1	14.5	7.0
BP5659 X6183	01/30/96	38.3	32.4	36.1	27.8	36.3	28.5	5.6	13.3	5.7
BP5660 X6182	01/30/96	44.0	37.6	40.0	31.5	41.0	34.2	6.3	14.4	8.8
BP5661 X6184	01/30/96	39.1	34.2	37.1	29.4	37.1	31.8	6.2	14.1	7.0
BP5662 X6186	01/30/96	35.7	32.2	34.0	28.9	34.1	29.3	5.4	11.4	5.0
BP5663 X6185	01/30/96	44.2	39.2	41.8	33.1	41.8	34.4	6.7	15.9	17.0
BP5664 X6188	01/30/96	39.0	33.1	37.0	29.1	37.3	30.2	6.1	13.9	6.6
BP5665 X6190	01/30/96	51.8	47.5	46.2	39.0	46.4	40.6	7.5	20.2	21.0
BP5666 X6189	01/30/96	53.5	40.0	50.0	47.6	50.3	42.9	7.0	20.3	25.0
BP5667 X6187	01/30/96	36.7	31.2	34.4	27.3	34.5	30.3	5.7	12.4	5.1
BP5668 X6171	01/30/96	39.5	35.3	37.8	31.4	38.3	32.5	5.9	13.3	7.1
BP5669 X6193	02/22/96	38.9	32.1	36.7	28.3	36.8	30.7	5.8	14.3	6.8
BP5670 X6194	02/22/96	42.5	37.9	40.7	32.8	40.4	34.5	6.3	16.5	9.2
BP5671 X6196	02/22/96	46.0	40.6	43.8	35.5	43.8	36.9	6.9	16.0	10.0
BP5672 N6353	02/22/96	36.7	30.5	35.4	27.5	35.5	29.4	5.7	13.0	5.4
BP5673 N6354	02/22/96	38.2	33.0	36.1	29.0	36.4	31.1	5.8	13.4	6.3
BP5675 X6192	02/22/96	39.8	34.7	38.1	30.5	38.7	32.0	6.2	13.0	6.3
BP5677 N6355	02/22/96	36.2	32.0	34.2	27.4	34.2	29.0	5.8	13.5	5.8
BP5678 N6356	02/22/96	41.7	34.9	39.4	31.5	39.7	32.3	6.4	15.2	8.0
BP5679 N6357	02/22/96	51.7	48.4	48.7	40.3	49.5	42.0	7.5	19.7	23.0
BP5680 N6359	02/22/96	69.5	59.7	64.2	49.6	64.2	56.4	8.3	25.8	46.0
BP5681 N6358	02/22/96	41.9	35.1	39.5	31.6	39.7	33.0	6.1	14.6	7.7
BP5682 N6368	02/22/96	55.7	46.0	51.8	37.7	52.0	43.8	7.9	20.1	26.0
BP5683 N6360	02/22/96	36.0	28.6	33.3	26.0	33.4	27.5	5.5	12.4	4.3
BP5684 N6362	02/22/96	55.7	49.0	51.8	40.7	52.3	43.9	7.3	19.9	25.0
BP5685 N6363	02/22/96	38.9	33.0	36.8	29.5	37.0	31.0	5.9	12.5	6.0
BP5686 N6366	02/22/96	42.0	37.2	39.9	31.6	39.9	32.1	6.6	15.8	9.0
BP5687 N6367	02/22/96	36.4	32.2	34.2	28.3	34.3	28.3	5.4	12.9	5.1
BP5688 N6369	02/22/96	33.0	29.4	31.2	24.5	31.3	26.0	5.4	12.1	4.2
BP5689 N6370	02/22/96	37.7	32.4	34.5	27.8	34.4	32.0	5.1	12.8	5.8
BP5690 N6371	02/22/96	35.4	30.5	33.3	26.6	33.6	28.2	5.6	13.7	5.4

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP5691	N6372	02/22/96	40.2	34.3	37.9	30.5	37.9	32.5	6.2	14.6	7.3
BP5693	N6375	02/22/96	38.0	34.0	36.4	29.7	36.8	31.4	6.0	12.7	6.2
BP5694	X6197	02/22/96	41.8	35.2	39.2	29.6	38.9	32.0	6.7	14.9	8.6
BP5695	X6198	02/22/96	44.0	34.2	37.5	29.4	37.7	33.2	4.8	12.7	6.7
BP5696	N6401	02/22/96	39.9	32.8	36.5	27.5	36.7	30.4	4.9	12.3	6.4
BP5697	X6200	02/22/96	32.9	28.5	30.9	24.6	31.9	10.6	5.5	12.7	4.3
BP5698	N6402	02/22/96	32.1	28.4	30.8	25.7	31.1	25.3	5.2	11.4	3.8
BP5699	N6403	02/22/96	34.2	29.7	31.0	25.4	31.2	27.2	4.8	9.4	4.0
BP5700	N6404	02/22/96	38.7	35.9	36.4	31.1	36.2	32.1	6.5	15.6	7.7
N6406	N6410	02/22/96	42.0	35.1	39.5	31.1	39.7	32.6	5.4	13.4	7.7
N6407	N6412	02/22/96	38.3	33.9	36.5	29.3	36.4	30.5	6.1	13.8	6.5
N6408	N6411	02/22/96	48.4	40.3	45.6	34.6	45.7	38.8	7.0	17.8	18.0
N6405	N6409	02/22/96	41.5	36.0	37.8	30.3	38.2	33.0	5.5	14.7	7.8
BP4501	X4701	03/13/96	38.8	34.5	36.5	29.4	36.7	30.4	5.9	13.8	6.6
BP4502	X4702	03/13/96	35.5	30.1	33.2	26.3	33.3	27.2	5.7	11.4	4.3
BP4508	X4703	03/13/96	47.3	41.5	44.9	35.4	45.3	36.2	6.9	15.7	15.5
BP4512	X4726	03/13/96	35.8	27.0	29.5	24.3	29.8	26.0	5.3	10.9	3.7
BP4527	X4727	03/13/96	33.2	29.8	31.6	25.2	31.6	27.0	5.4	11.7	4.4
BP4528	X4728	03/13/96	38.8	31.5	37.8	28.3	37.9	32.0	5.9	13.4	6.3
BP4506	X4729	03/13/96	27.3	24.0	25.9	21.4	26.0	22.1	4.7	9.5	2.3
BP4505	X4705	03/13/96	39.0	29.0	32.3	24.4	32.5	26.5	5.3	11.5	4.3
BP4504	X4706	03/13/96	48.4	40.3	45.9	34.4	49.9	39.6	6.6	17.0	17.0
BP4530	X4730	03/13/96	68.3	59.3	64.3	51.4	64.5	54.0	9.2	25.3	44.0
BP4510	X4708	03/13/96	45.7	40.5	42.4	30.8	42.5	35.9	5.9	16.1	16.0
BP4509	X4709	03/13/96	40.0	34.0	37.4	29.9	37.8	31.5	6.3	15.2	7.0
BP4526	X4710	03/13/96	35.4	30.4	33.5	25.9	33.6	28.3	5.8	12.2	4.6
BP4503	X4704	03/13/96	44.4	39.5	----	34.0	----	34.5	7.0	15.5	16.0
BP4533	X4732	03/14/96	68.0	60.5	62.8	49.3	63.1	53.9	10.0	24.1	40.0
BP4534	X4733	03/14/96	76.8	66.5	71.3	54.3	71.9	58.8	9.6	26.1	----
BP4513	X4712	03/14/96	38.6	34.9	36.5	30.2	36.7	32.4	6.0	14.5	6.5
BP4514	X4713	03/14/96	35.6	30.6	34.4	26.6	34.7	28.8	5.8	11.9	5.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP4517	X4716	03/14/96	36.4	33.6	35.8	29.5	35.8	29.7	6.3	13.8	5.9
BP4541	X4741	03/14/96	36.0	31.8	34.8	28.0	35.0	29.6	5.7	12.2	5.3
BP4516	X4715	03/14/96	32.9	29.1	32.0	25.2	32.3	26.4	4.9	10.9	4.2
BP4518	X4717	03/14/96	32.1	26.6	30.6	23.9	30.7	26.5	5.3	10.7	3.4
BP4519	X4718	03/14/96	43.3	36.0	41.5	32.8	41.5	35.3	6.6	15.4	14.0
BP4520	X4719	03/14/96	40.4	35.0	38.2	31.0	38.8	32.3	6.2	14.1	12.0
BP4521	X4720	03/14/96	34.2	28.7	32.6	25.3	32.7	26.8	5.7	11.4	4.2
BP4532	X4721	03/14/96	59.1	51.2	53.9	42.7	54.2	44.6	8.2	15.0	27.0
BP4523	X4722	03/14/96	42.2	34.4	40.2	29.3	40.5	34.6	6.3	15.3	8.5
BP4524	X4723	03/14/96	33.0	29.0	31.1	24.7	31.3	25.5	5.5	11.9	3.8
BP4525	X4724	03/14/96	44.0	36.8	41.2	32.3	41.4	35.9	6.6	16.5	14.5
BP4522	X4725	03/14/96	27.1	24.7	25.9	21.7	26.1	22.4	11.4	9.6	2.3
BP4529	X4735	03/14/96	37.8	32.3	36.2	28.5	36.2	32.1	6.2	14.3	6.7
BP4538	X4736	03/14/96	37.3	32.4	35.0	27.9	35.0	29.5	6.1	14.9	6.2
BP4536	X4737	03/14/96	37.6	31.4	36.4	28.8	36.4	30.7	5.9	12.7	5.5
BP4537	X4738	03/14/96	36.5	30.7	35.0	27.4	35.1	29.0	5.6	12.5	5.5
BP4540	X4739	03/14/96	37.9	32.5	36.3	29.6	36.7	30.6	5.6	12.5	5.8
BP4539	X4740	03/14/96	33.7	29.1	31.6	26.1	31.7	27.8	5.3	11.9	4.4
BP4542	X4742	03/14/96	51.9	44.0	48.3	38.5	48.7	42.1	6.4	16.3	19.0
BP4543	X4743	03/14/96	40.4	35.0	37.6	30.0	37.9	32.3	5.1	13.4	7.4
BP4544	X4744	03/14/96	45.3	40.0	42.1	33.7	42.3	35.4	6.0	15.9	10.6
BP4576	X4776	03/15/96	38.4	32.4	36.7	28.1	36.7	30.8	6.1	12.9	6.0
BP4545	X4745	03/15/96	65.2	57.7	60.9	48.4	60.9	52.5	9.0	22.7	35.0
BP4546	X4746	03/15/96	32.5	26.6	31.2	24.1	31.4	26.4	5.5	11.6	3.8
BP4547	X4747	03/15/96	34.4	28.8	32.9	25.0	33.2	27.5	5.9	12.0	4.3
BP4548	X4748	03/15/96	50.3	41.5	48.0	36.5	48.4	40.5	7.3	18.4	20.0
BP4549	X4749	03/15/96	37.7	30.8	35.7	27.3	36.0	29.9	5.7	12.8	5.6
BP4577	X4777	03/15/96	41.9	36.8	38.9	32.0	39.6	33.4	6.1	14.0	6.9
BP4578	X4778	03/15/96	39.1	31.8	36.9	27.5	37.1	31.1	5.8	13.5	5.9
BP4551	X4751	03/15/96	41.9	37.3	40.1	33.1	40.1	32.5	6.4	15.5	8.2
BP4579	X4779	03/15/96	52.0	42.2	48.9	36.9	49.2	40.9	7.4	17.2	19.0

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP4561	X4761	03/15/96	42.2	34.9	40.5	30.8	40.5	34.9	6.4	15.4	8.8
BP4580	X4780	03/15/96	37.7	32.5	36.2	28.3	36.2	31.0	6.0	14.2	6.1
BP4553	X4753	03/15/96	32.6	27.5	30.4	23.7	30.8	26.7	5.2	11.6	3.8
BP4554	X4754	03/15/96	40.8	35.9	38.6	30.9	38.7	32.9	6.3	15.5	7.7
BP4555	X4755	03/15/96	28.5	22.1	26.4	20.1	26.6	22.4	4.5	10.0	2.6
BP4550	X4750	03/15/96	31.8	29.5	31.3	25.8	31.5	26.6	5.5	11.7	3.9
BP4560	X4760	03/15/96	41.7	43.0	48.4	37.9	48.6	41.9	6.7	17.2	22.0
BP4556	X4756	03/15/96	48.0	40.8	46.4	34.4	46.5	39.7	6.9	17.8	19.5
BP4552	X4752	03/15/96	58.5	49.2	53.7	41.9	53.4	45.1	7.0	20.0	24.0
BP4557	X4757	03/15/96	39.9	34.0	36.4	27.9	36.4	30.8	6.1	15.9	7.0
BP4558	X4758	03/15/96	38.9	33.8	36.8	29.1	36.9	31.1	5.9	11.1	6.6
BP4581	X4781	03/15/96	37.1	33.8	35.7	29.4	35.9	29.9	6.0	13.7	6.2
BP4559	X4759	03/15/96	32.5	28.8	30.8	24.3	30.9	26.8	5.2	12.7	4.3
BP4562	X4762	03/15/96	64.3	54.6	60.3	44.9	61.1	50.7	8.7	20.3	33.0
BP4563	X4763	03/15/96	42.1	36.5	39.8	31.1	40.0	34.0	6.3	15.2	8.4
BP4564	X4764	03/15/96	31.8	29.0	30.3	24.7	30.5	27.0	5.5	12.2	4.3
BP4582	X4782	04/29/96	40.3	33.9	38.6	30.2	38.8	32.8	6.1	15.8	8.5
BP4583	X4783	04/29/96	35.3	28.6	34.1	26.7	34.3	27.3	5.5	12.3	5.3
BP4584	X4784	04/29/96	43.2	36.6	41.7	32.3	41.7	34.8	6.4	15.5	9.0
BP4565	X4788	04/29/96	41.1	33.7	38.7	30.0	39.0	32.5	6.2	14.3	7.8
BP4585	X4785	04/29/96	36.0	31.1	44.4	27.6	44.8	29.6	5.6	12.6	5.2
BP4586	X4786	04/29/96	35.8	30.8	33.6	27.3	33.7	27.8	5.6	13.1	5.4
BP4587	X4787	04/29/96	37.3	33.4	36.0	29.8	36.2	30.5	5.9	13.9	6.6
BP4566	X4766	05/13/96	38.0	32.2	35.4	27.3	35.8	30.6	5.9	14.4	6.3
BP4567	X4767	05/13/96	34.6	29.1	32.8	25.2	32.9	28.2	5.4	13.1	4.6
BP4568	X4797	05/13/96	53.6	47.1	50.2	41.2	50.8	43.5	7.3	18.0	21.0
BP4569	X4769	05/13/96	43.0	35.2	40.7	30.7	40.7	34.2	6.0	16.0	9.0
BP4570	X4770	05/13/96	32.6	27.6	31.0	23.8	31.2	27.0	4.9	11.7	3.6
BP4571	X4771	05/13/96	31.7	27.7	29.8	24.5	29.8	26.5	5.4	11.7	3.6
BP4572	X4772	05/13/96	34.3	28.8	32.5	24.9	32.6	27.8	5.4	11.9	4.5
BP4573	X4773	05/13/96	33.8	27.7	32.1	24.9	32.2	26.8	5.3	10.8	4.2

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP4574	X4774	05/13/96	35.0	29.2	33.1	25.6	33.2	26.7	5.5	12.6	4.8
BP4575	X4775	05/13/96	49.9	44.0	47.1	37.0	47.3	41.0	7.1	17.9	21.0
BP4589	X4793	05/13/96	36.5	31.4	34.2	26.9	34.2	27.8	5.7	12.2	4.9
BP4590	X4790	05/13/96	37.0	32.4	35.1	27.5	35.2	29.2	6.1	13.4	6.1
BP4571	X4791	05/13/96	26.8	22.6	25.3	19.7	25.5	21.3	4.8	9.0	2.1
BP4592	X4792	05/13/96	39.6	36.0	37.3	31.4	37.3	31.4	4.2	6.0	6.8
BP4593	X4789	05/13/96	46.5	39.9	43.8	34.5	44.0	37.2	6.6	16.5	13.0
BP4594	X4794	05/13/96	37.5	31.3	35.2	26.9	35.3	29.7	5.6	13.1	5.3
BP4595	X4795	05/13/96	50.8	42.0	47.3	25.8	47.3	39.0	7.1	17.7	16.5
BP4597	X4768	05/13/96	53.5	46.6	50.4	39.4	50.4	42.5	7.5	20.2	22.0
BP4598	X4798	05/13/96	30.6	25.5	28.5	22.7	28.7	25.1	5.1	10.0	3.1
BP4599	X4799	05/13/96	33.8	30.5	32.2	26.2	32.3	28.3	5.2	11.3	4.4
BP4600	X4800	05/13/96	47.2	41.6	45.3	35.6	45.3	37.3	7.2	16.3	15.5
BP6602	X4802	05/15/96	35.6	31.6	32.3	28.3	32.6	29.3	4.0	12.6	5.1
BP6604	X4804	05/15/96	45.8	37.7	43.1	32.1	43.3	36.8	7.0	16.4	16.0
BP6605	X4803	05/15/96	33.0	29.8	31.9	26.6	32.2	27.6	5.5	10.8	4.3
BP6607	X4807	05/15/96	41.5	33.7	39.5	29.3	39.5	32.0	6.3	13.8	6.8
BP6608	X4808	05/15/96	59.3	48.8	55.2	41.4	55.4	46.2	8.5	19.9	24.5
BP4588	X4809	05/17/96	49.3	46.0	46.0	36.6	46.4	37.7	7.2	18.5	13.2
BP6611	X4811	05/17/96	50.3	42.6	48.4	38.1	48.6	41.5	6.8	16.2	20.5
BP6612	X4812	05/17/96	32.8	26.2	30.8	23.4	30.9	25.8	5.3	11.5	3.8
BP6613	X4813	05/17/96	31.1	26.1	29.4	22.7	29.6	25.6	5.4	11.1	3.8
BP6614	X4814	05/17/96	34.4	28.6	32.6	25.4	32.7	28.8	5.5	12.0	4.6
BP6615	X4815	05/20/96	48.3	43.0	45.1	35.6	44.8	38.3	7.2	17.0	18.0
BP6616	X4816	05/20/96	43.1	37.4	41.1	31.8	41.3	32.9	6.2	14.5	8.3
BP6618	X4818	05/20/96	67.0	59.3	61.3	46.9	61.6	50.6	9.2	24.2	39.0
BP6619	X4819	05/20/96	43.7	36.2	41.2	32.3	41.4	25.0	6.4	16.3	16.0
BP6620	X4820	05/20/96	35.3	30.0	33.0	26.0	33.5	27.0	5.6	11.3	3.9
BP6621	X4821	05/24/96	39.0	32.8	37.2	29.0	37.2	31.8	6.0	13.2	6.7
BP6622	X4822	05/24/96	43.7	37.1	40.0	30.2	40.2	34.3	6.4	14.5	8.7
BP6623	X4823	05/24/96	67.4	62.0	62.0	51.3	62.5	51.9	8.9	22.2	35.2

Table 14 continued

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP6644	X4844	05/28/96	37.2	32.8	35.4	28.0	35.5	29.8	5.9	13.5	6.2
BP6645	X4845	05/28/96	37.4	30.7	35.3	26.4	35.4	29.3	5.6	13.2	5.6
BP6646	X4846	05/28/96	38.5	34.0	36.8	29.8	36.8	30.2	5.8	13.6	6.5
BP6647	X4847	05/28/96	43.3	36.6	41.2	31.8	41.2	34.0	6.6	14.3	13.5
BP6648	X4848	05/28/96	33.9	30.0	32.2	26.0	32.4	27.4	5.4	12.5	4.8
BP6650	X4850	05/28/96	38.9	34.7	36.5	30.2	36.7	30.0	6.0	13.1	6.1
BP6609	X4849	05/31/96	36.2	30.6	34.4	26.8	34.5	29.2	5.9	13.0	5.2
BP6624	X4824	05/31/96	33.6	28.5	31.7	25.1	32.1	27.6	5.3	12.5	4.6
BP6625	X4825	05/31/96	39.6	35.2	37.5	31.5	37.7	32.3	5.7	14.4	7.3
BP6642	X4842	05/31/96	39.5	36.2	36.7	30.3	37.1	30.8	6.1	13.9	6.6
		Number	905	905	906	907	906	906	905	838	892
		Median	40.8	35.1	38.3	30.6	38.6	32.7	6.1	14.3	7.5
		Mean	43.3	37.3	40.7	32.6	40.9	34.6	6.4	15.2	11.3
		Std. Dev.	9.6	8.5	8.8	12.2	8.9	7.7	1.2	3.6	9.2
		Minimum	25.8	21.8	24.3	18.5	24.4	10.6	3.9	6.0	1.7
		Maximum	77.6	68.5	72.4	335.5	73.1	61.5	12.6	28.9	60.0

Table 15. Morphometrics of the adult male green turtle from the central region of the Indian River Lagoon System.

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP3292 X6025	06/06/95	101.0	91.9	97.2	77.4	98.3	82.8	13.6	33.4	----

Table 16. Carapace length data obtained from green turtles in developmental habitats along the U.S. Atlantic Coast and Gulf Coast. Measurements are in centimeters .

Location	How Obtained	Measurement	Mean	Range	n	Source
Central Region of the Indian River Lagoon System, Fl	Tangle Net	Standard Carapace Length	40.8	24.3-97.2	908	----
Northern Region of the Indian River Lagoon System, Fl	Tangle Net and Cold Stunned (1977 & 1981)	Standard Carapace Length	48.2	25.0-74.0	99	Ehrhart (1983)
Northern Region of the Indian River Lagoon System, Fl	Cold Stunned (1985)	Standard Carapace Length	44.0	24.6-75.0	143	Witherington and Ehrhart (1988)
Northern Region of the Indian River Lagoon System, Fl	Cold Stunned (1989)	Standard Carapace Length	52.3	26.6-77.0	246	Schroeder et al. (1990)
Cape Canaveral, Fl	Shrimp Trawl	Total Carapace Length	33.8	23.6-68.1	19	Henwood and Ogren (1987)
Trident Turning Basin, Port Canaveral, Fl	Tangle Net, Dip Net	Standard Carapace Length	31.3	22.9-48.1	136	Ehrhart and Redfoot (1996)
Sabellariid Worm Reefs, Indian River Co. Fl.	Tangle Net	Standard Carapace Length	41.1	25.1-67.0	190	-----
Sabellariid Worm Reefs, Indian River Co. Fl.	Abandoned Gill Net	Standard Carapace Length	----	27.0-58.2	10	Ehrhart et al. (1990)
Nearshore Waters Hutchinson Isl. Fl	Power Plant Intake Canal	Minimum Carapace Length	35.6	17.5-107.5*	259	Ernest, et al. (1989)
Limestone Reefs, Broward Co. Fl	Hand Capture Using SCUBA	Curved Carapace Length	----	26.4-67.0	105	Wershoven and Wershoven (1989)

Location	How Obtained	Measurement	Mean	Range	n	Source
Florida Keys	Strandings	Curved Carapace Length	----	12-94	159	Wells and Bellmund (1990)
Cedar Key-Crystal River Area, Fl	Tangle Net	Standard Carapace Length	60.0^	34.6-76.3^	208	Carr and Caldwell (1956)
Long Island Sound, NY	Cold Stunned	Standard Carapace Length	32.7	28.6-40.8	5	Morreale et al. (1992)
Chesapeake Bay and Coastal Waters of Va.	Strandings and Pound Nets	Not Stated	----	28.0-42.0	9	Barnard et al. (1989)
Pamlico and Core Sounds, NC	Incidental Capture by Commercial Fishermen	Curved Carapace Length	33.0	24.0-70.0	21	Epperly et al. (1995)
Brazos Santiago Pass, Padre Isl., TX	Tangle Net, Net Encirclement, Cast Net	Standard Carapace Length	31.3	22.2-47.9	24	Coyne (1994)
South Bay/Mexiquita Flats, Padre Isl., TX	Tangle Net	Standard Carapace Length	44.6	29.6-81.5	27	Coyne (1994)

*estimated from graph
^converted from inches

Table 17. Morphometrics of inital capture subadult loggerheads from the central region of the Indian River Lagoon System. Summary statistics are at the end of the table.

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
K1937	05/19/82	76.3	72.7	62.3	57.2	62.3	23.0	13.1	-----	56.8
K1938	05/28/82	84.2	80.0	77.9	62.4	79.4	59.2	16.3	-----	65.9
K1939	05/28/82	80.4	71.3	73.5	57.2	75.0	55.6	14.8	-----	-----
K1940	06/22/82	80.1	74.7	74.0	58.9	74.4	59.2	17.3	-----	72.7
K1942	07/01/82	73.0	68.5	65.4	52.8	66.4	51.6	11.9	-----	38.6
K1944	07/01/82	64.2	59.1	56.9	45.6	57.8	44.6	11.2	-----	31.4
K1947	07/02/82	66.5	60.6	61.4	50.1	62.6	47.7	10.8	-----	34.1
K1945	07/02/82	63.8	60.4	57.8	46.0	58.6	46.2	10.4	-----	-----
K1946	07/02/82	67.0	64.5	60.7	51.4	61.6	46.4	11.3	-----	36.4
K1949	07/15/82	90.5	79.0	84.6	61.7	85.4	59.9	19.0	-----	84.1
K1950	07/15/82	68.5	68.8	63.0	52.7	63.8	49.4	12.8	-----	38.6
K1963	07/18/82	67.6	63.9	60.8	50.1	61.4	48.3	11.2	-----	38.6
K1956	07/22/82	69.5	67.1	63.2	53.3	65.2	53.9	12.2	-----	50.0
K1955	07/22/82	69.9	66.1	63.7	51.8	65.1	51.3	12.3	-----	50.0
K1954	07/22/82	87.3	80.4	81.9	61.1	83.4	63.5	17.5	-----	-----
K1953	07/22/82	77.4	66.0	69.5	53.3	71.0	55.2	13.5	-----	54.5
K1952	07/22/82	73.4	71.5	66.4	55.6	67.8	52.9	11.9	-----	47.7
K1962	07/27/82	66.3	63.1	60.6	48.8	61.4	47.6	12.3	-----	36.4
K1961	07/27/82	65.4	62.1	60.7	50.3	61.8	48.9	12.5	-----	34.1
K1960	07/27/82	57.3	54.5	50.8	54.5	51.6	43.1	9.9	-----	27.3
K1959	07/27/82	80.5	70.8	74.7	57.0	76.4	54.2	14.6	-----	-----
K1958	07/27/82	63.2	62.0	59.0	48.5	59.8	43.6	10.6	-----	31.8
K1957	07/27/82	63.3	61.9	58.8	50.1	60.4	46.8	11.8	-----	36.4
AAB662 AAB663	07/28/82	68.7	65.8	61.9	51.2	62.7	50.0	12.7	-----	40.9
K1964	07/28/82	64.4	57.9	57.3	45.3	58.4	45.7	10.6	-----	34.1
K1965	08/06/82	74.5	67.7	67.5	54.7	68.5	51.1	14.1	-----	-----
K1966	11/11/82	67.2	62.5	62.0	52.3	63.0	48.4	12.1	-----	31.8
K1976	05/26/83	58.4	53.5	54.1	43.9	55.0	41.7	11.5	-----	25.0
K1974	05/26/83	73.2	68.0	69.2	55.5	70.8	55.2	14.3	-----	52.3

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
K1971	05/26/83	64.5	62.0	60.8	51.4	61.0	47.7	12.1	----	34.1
K1970	05/26/83	70.5	66.0	65.7	52.8	67.1	49.4	13.5	----	47.7
K1969	05/26/83	67.3	63.6	64.2	50.3	65.1	48.7	13.7	----	40.1
K1968	05/26/83	70.4	65.4	66.5	53.4	67.2	53.8	12.7	----	45.5
K1967	05/26/83	80.9	73.9	75.1	59.4	77.3	56.2	15.2	----	56.8
K1977	05/27/83	70.6	65.0	64.9	52.7	65.4	50.9	14.1	----	43.2
K1983	06/02/83	67.1	60.1	61.3	47.6	63.0	47.4	11.2	----	36.4
K1982	06/02/83	86.4	78.6	78.3	62.2	80.0	60.2	16.0	----	77.3
K1980	06/02/83	64.1	69.4	58.5	53.8	60.0	51.8	13.2	----	----
K1979	06/02/83	78.6	74.3	71.5	58.4	71.8	57.8	13.7	----	56.8
K1978	06/02/83	62.0	56.7	56.8	45.5	57.8	44.8	10.5	----	25.9
K1986	06/03/83	64.4	57.2	62.0	49.0	63.0	43.3	12.4	----	30.5
K1989	06/09/83	64.1	59.8	59.2	49.2	59.9	44.3	12.1	----	29.5
K1987	06/09/83	77.8	72.6	73.3	57.1	74.8	58.3	15.8	----	56.8
K1992	06/17/83	72.0	68.0	66.7	55.1	67.6	52.9	14.3	----	47.7
K1991	06/17/83	81.7	75.0	76.4	59.6	78.2	56.8	16.2	----	61.4
K3701	06/17/83	75.3	69.8	69.7	55.8	69.9	52.7	16.2	----	52.3
K1993	06/21/83	86.4	78.8	----	62.2	82.0	57.6	17.2	----	70.5
K3714	07/13/83	66.8	61.0	61.1	49.4	64.2	50.5	12.0	----	35.5
K3702	07/13/83	73.0	65.9	66.0	52.4	67.3	50.2	12.5	----	43.1
K3705	07/14/83	60.0	56.4	53.6	44.3	54.9	42.0	10.5	----	20.4
K3708	07/15/83	49.3	48.1	44.0	35.9	44.3	35.0	7.8	----	13.6
K3707	07/15/83	83.0	75.6	74.8	60.4	77.4	53.3	14.2	----	63.6
K3716	07/20/83	55.0	54.0	48.8	41.3	48.8	39.0	9.9	----	18.6
K1997	07/29/83	72.6	66.3	67.9	54.9	69.6	52.5	14.9	----	47.8
K1998	08/03/83	71.0	66.2	66.8	52.1	68.2	50.9	13.8	----	35.8
K1999	08/04/83	61.5	60.9	57.0	48.5	57.3	43.9	12.7	----	29.5
K3709	08/11/83	65.0	61.5	61.3	49.8	62.1	47.0	13.3	----	31.9
K3721	08/19/83	71.2	66.0	67.1	54.0	67.5	51.5	14.8	----	44.5
K3719	08/19/83	82.4	74.2	76.8	61.4	79.0	58.0	14.9	----	56.8
K3718	08/19/83	70.4	62.8	65.0	51.2	66.1	47.9	13.9	----	42.7

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
K3717	08/19/83	68.2	64.5	63.8	50.6	64.5	48.4	13.4	----	40.9
K3732	05/24/84	65.5	59.7	59.2	48.3	60.0	50.8	11.0	----	33.6
K3729	05/24/84	72.0	64.1	64.7	49.5	65.3	49.5	12.4	----	45.5
K3734	05/25/84	74.4	70.3	68.4	53.6	69.3	53.5	13.2	----	47.7
K3733	05/25/84	75.7	69.2	68.7	54.7	69.1	53.0	14.4	----	50.0
K3736	05/29/84	88.5	84.0	82.1	65.5	82.9	61.0	16.2	----	79.5
K3739	05/30/84	58.1	65.5	47.7	59.7	59.3	49.7	11.9	----	31.8
K3738	05/30/84	73.0	66.0	67.2	52.3	67.5	52.0	12.4	----	44.5
K3737	05/30/84	54.5	54.0	49.5	42.4	49.5	40.0	9.3	----	20.5
K3741	06/01/84	54.9	61.8	46.3	58.9	55.9	43.5	12.0	----	27.3
K3742	06/05/84	70.2	64.4	63.9	53.3	64.3	52.0	12.4	----	43.2
K3748	06/08/84	74.4	72.1	66.2	57.7	67.8	52.7	13.8	----	47.7
K3751	06/12/84	71.7	67.5	65.8	53.4	66.0	53.4	13.3	----	47.7
K3749	06/12/84	70.3	65.7	62.1	52.9	63.2	50.8	12.7	----	43.2
K3757	06/15/84	73.6	70.4	67.0	55.2	68.2	53.9	13.4	----	51.4
K3756	06/15/84	71.2	68.0	63.9	50.2	64.9	50.6	11.2	----	43.2
K3762	06/21/84	73.4	----	66.9	55.2	68.7	52.0	13.7	----	43.2
K3760	06/21/84	73.5	67.0	65.6	52.0	66.1	51.5	13.0	----	45.5
K3766	06/22/84	57.7	55.0	51.9	42.7	53.0	40.3	11.8	----	22.7
K3767	06/27/84	72.2	63.0	64.3	50.3	65.6	49.5	12.7	----	47.7
K3769	06/28/84	61.3	58.3	55.0	48.8	57.3	45.7	11.2	----	27.3
K3772	06/29/84	70.8	63.6	65.1	52.7	66.5	50.7	13.7	----	40.9
K3771	06/29/84	57.0	55.4	52.7	44.4	54.3	42.8	10.8	----	25.0
K3777	07/06/84	71.8	64.7	65.1	50.9	65.9	49.8	12.0	----	43.2
K3776	07/06/84	63.0	60.5	56.5	48.1	57.8	44.4	12.3	----	29.5
K3775	07/06/84	48.1	46.2	43.4	38.4	44.5	35.7	8.8	----	11.4
K3778	07/13/84	60.8	58.4	56.0	46.5	56.7	45.3	11.1	----	30.5
K3784	09/07/84	73.3	67.0	66.9	53.7	68.0	50.0	13.9	----	45.5
K3782	09/07/84	58.0	56.5	53.0	44.5	54.0	41.0	10.5	----	25.9
K5621	06/04/85	53.4	49.9	49.0	40.4	49.5	38.5	10.3	----	18.2
K5622	06/04/85	78.1	74.5	71.8	61.3	72.7	56.7	15.1	----	61.4

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
K5623	06/06/85	71.8	68.0	67.0	53.9	68.0	50.0	14.2	----	47.7
K5625	06/06/85	81.5	81.0	75.7	63.8	78.7	59.1	14.9	----	72.7
K5626	06/06/85	72.0	67.0	65.8	52.2	67.0	50.0	14.3	----	48.6
K5628	06/07/85	62.1	58.9	56.6	48.5	57.0	45.9	12.2	----	36.4
K5629	06/07/85	69.9	62.7	62.7	54.5	63.5	50.0	13.2	----	43.2
K5627	06/07/85	81.3	73.0	74.8	59.6	76.0	54.6	17.2	----	63.6
K5639 K5640	06/19/85	62.0	58.7	57.4	49.4	58.5	45.3	12.0	----	27.3
K5636 K5637	06/19/85	80.3	77.3	75.7	60.9	78.1	59.6	14.9	----	65.9
K5634 K5635	06/19/85	70.0	63.2	66.0	52.2	67.2	50.8	15.0	----	40.1
K5641 K5642	06/20/85	73.2	71.0	67.1	54.9	67.4	54.2	13.7	----	47.7
K5657 K5658	06/27/85	82.1	75.6	75.9	61.3	78.6	60.4	15.4	----	70.5
K5656	06/27/85	70.6	67.0	63.3	52.3	65.7	49.3	13.4	----	40.9
K5659 K5660	07/03/85	64.0	59.5	58.4	47.9	61.0	46.9	12.5	----	34.1
K5669 K5671	07/11/85	81.0	75.8	75.1	58.8	76.3	56.3	13.3	----	56.8
K5665 K5668	07/11/85	61.8	55.7	56.4	44.8	58.0	43.6	11.9	----	27.3
K5672 K5673	07/12/85	81.7	79.0	74.5	64.2	77.1	59.1	15.7	----	65.9
K5677 K5678	08/06/85	78.5	74.5	72.5	59.3	73.8	55.7	15.9	----	59.1
K5691 K5692	09/10/85	58.5	57.5	56.0	46.0	57.3	42.0	11.5	----	27.3
NNW606 NNV805	11/26/85	73.0	67.7	67.3	54.7	68.5	51.7	14.0	----	47.7
NNW605 NNV803	11/26/85	62.0	59.5	57.3	49.0	58.3	44.7	13.7	----	29.5
NNW610 NNV808	11/29/85	75.6	68.4	70.1	54.4	71.3	54.8	14.7	26.6	51.1
NNW622 NNV820	02/04/86	68.2	61.5	62.8	49.3	63.9	48.8	13.5	25.3	36.4
NNW623 NNV821	02/04/86	57.1	53.0	52.9	43.4	53.3	41.0	12.2	20.7	25.0
NNW620 NNV818	02/04/86	64.0	59.1	57.7	47.2	58.7	44.9	13.2	23.1	31.8
NNW627 NNV825	02/18/86	75.5	69.6	69.1	55.5	71.4	54.8	15.2	27.0	54.0
NNW636 NNV834	03/11/86	79.0	72.5	74.0	58.5	75.0	54.5	15.0	30.0	61.0
NNW635 NNV832	03/11/86	73.0	66.0	65.8	52.5	67.0	50.4	14.5	28.0	49.0
NNW630 NNV828	03/11/86	77.0	72.0	71.2	56.5	72.5	54.4	14.5	26.0	55.0
NNW647 NNV846	04/22/86	72.2	68.3	66.9	54.0	69.1	51.1	14.8	25.9	49.0
NNW645 NNV844	04/22/86	85.6	78.2	79.1	62.8	86.0	60.1	17.0	31.9	73.0
NNW642 NNV841	04/22/86	63.8	56.5	58.9	47.0	59.3	44.0	12.4	23.2	30.0

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNW641 NNV840	04/22/86	74.2	69.5	67.7	56.6	69.2	53.6	15.3	27.5	49.0
NNW640 NNV839	04/22/86	65.5	59.9	59.8	48.7	61.0	47.2	12.8	25.1	37.0
NNW654 NNV854	04/24/86	69.3	66.2	63.3	51.6	65.0	49.1	12.9	23.2	39.0
NNW651 NNV851	04/24/86	75.5	68.2	70.8	55.6	72.1	53.6	15.6	28.1	53.0
NNW663 NNV863	04/29/86	81.1	76.2	75.9	61.3	78.2	59.9	16.1	28.6	65.0
NNW656 NNV856	04/29/86	68.5	64.3	62.8	51.9	63.1	48.5	14.0	27.4	39.5
NNW657 NNV857	04/29/86	74.0	68.4	67.0	54.1	67.9	53.1	14.8	28.3	47.0
NNW659 NNV859	04/29/86	83.6	76.3	77.9	61.7	79.7	58.5	18.5	27.9	69.5
NNW658 NNV858	04/29/86	79.1	71.9	73.0	59.4	73.7	56.0	15.1	31.1	60.0
NNW671 NNV871	05/07/86	84.5	77.7	76.4	63.7	76.8	60.4	15.5	32.4	69.0
NNW669 NNV869	05/07/86	77.2	68.0	69.0	53.8	69.2	52.4	14.8	28.0	49.0
NNW668 NNV868	05/07/86	72.1	65.2	67.2	53.9	68.0	51.1	14.2	27.9	49.0
NNW666 NNV866	05/07/86	67.0	60.5	62.0	50.3	63.0	48.9	13.8	24.6	38.0
NNW664 NNV864	05/07/86	67.5	63.7	62.9	52.3	63.7	49.6	13.9	26.2	42.0
NNW672 NNV872	05/07/86	82.1	72.2	74.8	57.9	75.5	55.8	15.8	30.9	61.0
NNZ411 NNZ412	05/21/86	60.5	59.8	56.7	48.9	57.6	44.5	12.4	24.3	34.0
NNZ413 NNZ414	05/21/86	80.0	72.0	72.9	53.9	73.5	58.3	15.0	30.8	62.0
NNZ409 NNZ410	05/21/86	61.5	57.8	56.8	48.0	57.8	45.4	12.2	24.3	34.0
NNZ407 NNZ408	05/21/86	77.4	72.9	71.7	56.4	72.9	56.5	15.0	29.4	57.5
NNZ405 NNZ406	05/21/86	56.4	53.7	51.4	42.8	52.0	39.6	11.1	21.5	24.0
NNZ403 NNZ404	05/21/86	70.4	66.4	65.3	54.9	66.5	50.1	13.0	26.0	44.0
NNZ401 NNZ402	05/21/86	64.2	60.5	59.2	47.0	60.4	46.2	12.9	24.3	33.0
NNZ426 NNZ427	05/22/86	73.9	70.9	69.0	57.4	71.0	56.0	14.4	27.2	51.0
NNZ420 NNZ421	05/22/86	66.9	63.2	61.0	51.2	62.5	46.8	12.3	23.9	33.0
NNZ432 NNZ433	05/23/86	80.6	73.1	74.8	57.9	75.9	55.2	15.5	29.5	64.0
NNZ430 NNZ431	05/23/86	60.4	56.4	56.8	47.6	57.0	44.1	11.1	19.0	24.0
NNW677 NNV877	05/29/86	53.7	50.1	48.9	41.8	49.0	39.0	10.0	22.7	22.5
NNW676 NNV876	05/29/86	61.1	61.5	56.7	50.2	58.2	46.7	12.2	23.6	32.0
NNW675 NNV875	05/29/86	72.5	68.1	68.2	56.8	69.1	52.4	12.8	25.1	44.0
NNV873 NNW673	05/29/86	65.6	61.3	60.8	51.9	61.1	46.6	12.8	25.9	39.5
NNW683 NNV883	05/30/86	71.5	67.9	66.1	53.7	67.0	51.2	12.5	26.9	47.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNW682	NNV882	05/30/86	65.1	54.8	52.4	46.1	53.3	38.9	11.2	20.7	24.0
NNW680	NNV881	05/30/86	70.4	62.5	65.7	51.7	66.7	49.0	13.4	25.9	42.5
NNW681	NNV880	05/30/86	74.5	66.5	69.4	54.9	70.8	54.2	15.2	26.0	50.0
NNW693	NNV893	06/02/86	68.5	62.8	63.3	31.7	64.1	45.8	12.9	24.1	39.0
NNW692	NNV892	06/02/86	57.2	55.0	52.9	45.1	54.1	43.2	11.8	21.4	25.0
NNW691	NNV891	06/02/86	66.1	63.9	61.0	47.5	61.3	45.2	12.9	24.6	35.0
NNW694	NNV894	06/03/86	58.7	56.4	54.5	47.6	55.1	43.5	11.0	22.6	29.0
NNW697	NNV897	06/09/86	77.3	68.1	69.9	54.2	71.5	54.2	14.3	24.8	46.0
NNZ434		06/10/86	66.3	61.7	62.2	51.0	63.5	49.0	13.3	24.6	37.0
NNZ451	K5697	06/17/86	68.3	64.2	63.0	54.1	63.7	50.0	12.2	24.8	41.0
NNZ453	K5699	06/18/86	76.1	71.0	70.8	58.8	72.3	53.8	13.8	28.3	49.0
NNZ452	K5698	06/18/86	70.6	64.8	64.9	55.1	66.3	51.5	14.3	25.7	43.0
NNZ455	K6206	06/24/86	65.3	60.4	59.0	50.9	59.4	44.0	12.1	23.3	33.0
NNZ438	K6203	06/24/86	68.2	66.3	64.1	53.8	65.7	51.1	26.0	26.1	41.0
NNZ462	K6221	07/23/86	58.5	44.3	54.9	54.9	55.5	41.8	11.2	21.9	27.0
NNZ461	K6220	07/23/86	68.1	63.0	63.9	51.2	64.8	49.1	12.8	25.2	37.5
NNZ475	K6235	07/24/86	75.7	68.7	71.2	56.5	73.1	55.7	14.1	28.5	55.0
NNZ468	K6227	07/24/86	65.0	60.0	59.8	49.8	61.3	47.8	12.4	24.8	33.5
NNZ466	K6225	07/24/86	62.2	58.2	58.3	47.8	59.1	44.0	12.8	23.8	31.0
NNZ493	K6247	07/25/86	68.8	67.0	67.0	53.5	68.5	50.8	13.2	25.5	46.0
NNZ494	K6241	07/25/86	59.8	58.6	56.2	48.5	57.4	44.5	12.0	24.2	31.0
NNZ417	K6238	07/25/86	64.0	62.0	58.6	51.9	59.9	47.6	12.8	26.3	38.5
NNZ478	K6242	07/29/86	69.1	60.7	65.6	48.2	66.2	48.0	14.0	25.7	39.0
NNZ479	K6246	07/29/86	64.2	59.1	60.3	49.0	61.4	45.0	12.3	23.2	31.5
NNZ482	K6248	07/30/86	56.0	54.6	52.0	44.5	53.0	39.5	11.0	21.5	24.5
NNZ388	K6265	08/13/86	77.3	69.7	72.0	58.0	73.5	52.8	15.0	31.1	64.0
NNZ385	K6262	08/13/86	60.3	57.8	57.4	48.8	58.7	44.1	11.0	24.1	31.5
NNZ384	K6261	08/13/86	78.8	73.1	73.5	58.1	75.2	57.0	15.2	29.4	60.0
NNZ332	K6282	08/22/86	65.0	62.2	60.2	49.4	61.5	46.8	11.8	23.5	33.0
NNZ333	K6283	08/22/86	76.2	75.5	71.2	59.8	72.2	56.4	14.0	27.5	-----
NNZ336	K6286	09/05/86	64.6	61.0	60.3	49.4	60.8	47.9	11.7	25.8	38.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
NNZ338	K6287	09/05/86	64.1	66.0	62.9	55.3	64.1	49.0	12.8	23.6	40.5
NNZ348	K6298	09/17/86	62.1	57.3	57.9	47.2	58.8	43.0	13.1	24.4	31.5
NNZ353	NNZ354	09/24/86	67.0	63.8	62.5	51.6	64.1	50.3	13.7	25.2	38.5
NNZ357	NNZ358	10/02/86	66.2	61.2	62.2	48.8	63.5	47.0	13.2	23.4	33.0
NNZ359	NNZ360	10/08/86	66.1	62.0	61.1	49.6	61.5	46.6	13.2	25.7	39.5
NNZ367	NNZ368	10/24/86	52.6	49.0	48.2	38.8	49.0	39.2	10.2	18.2	16.0
NNZ397	NNZ398	10/29/86	62.7	60.0	58.2	51.0	59.2	45.5	12.9	22.7	33.0
NNZ394		10/29/86	54.5	53.4	50.5	42.3	51.1	38.2	11.2	19.1	19.0
PPJ001	PPJ002	11/11/86	84.4	75.1	78.4	61.7	78.9	59.2	14.9	31.3	71.0
PPJ011	PPJ012	11/19/86	80.3	72.0	75.3	58.1	76.8	55.6	15.6	27.4	61.5
PPJ009	PPJ010	11/19/86	60.9	59.4	57.0	48.8	57.8	44.6	12.7	23.0	31.5
NNZ320	NNZ489	11/19/86	71.7	67.6	67.3	55.9	68.2	52.5	14.5	27.0	49.5
PPJ023	PPJ024	11/26/86	76.4	73.4	70.7	59.2	72.7	52.3	15.4	29.4	58.0
PPJ015	PPJ016	11/26/86	66.8	62.6	62.3	50.7	63.6	48.0	13.2	22.3	35.5
PPJ037	PPJ038	12/10/86	84.7	76.8	77.5	57.4	78.4	61.3	16.9	31.0	66.0
PPJ033	PPJ034	12/10/86	72.8	67.7	68.3	53.0	69.5	52.5	15.5	26.8	45.5
Not Tagged		01/08/87	80.7	73.0	76.5	60.2	78.0	57.4	16.9	29.4	69.0
PPJ064	PPJ065	01/08/87	60.4	59.6	60.9	49.6	61.9	47.2	12.4	23.6	35.5
PPJ056	PPJ057	01/08/87	59.4	54.5	56.8	44.3	57.2	41.6	12.1	21.0	27.0
PPJ071	PPJ072	01/15/87	51.8	48.8	48.0	42.0	48.4	37.5	10.5	22.0	24.0
PPJ103	PPJ104	03/03/87	75.7	68.0	71.8	52.2	73.2	52.0	15.0	26.8	51.0
PPJ105	PPJ106	03/03/87	71.0	67.0	67.0	54.8	68.2	52.5	14.2	35.2	46.0
PPJ111	PPJ112	03/16/87	63.5	60.6	60.0	49.5	61.0	45.9	12.1	23.5	34.0
PPJ123	PPJ124	03/16/87	59.0	54.8	53.5	45.2	54.4	44.2	10.8	21.2	28.0
PPJ131	PPJ132	03/17/87	86.1	76.8	78.8	61.1	80.0	61.5	16.4	31.6	78.0
PPJ133	PPJ134	03/17/87	55.0	52.2	49.6	44.3	50.7	39.0	10.9	22.6	26.0
PPJ135	PPJ136	03/17/87	58.0	55.2	53.2	46.2	53.9	41.6	11.5	22.8	30.0
PPJ137	PPJ138	03/20/87	89.9	80.0	82.5	63.8	83.2	65.2	17.2	31.0	84.0
PPJ143	PPJ144	04/09/87	58.4	56.0	54.8	45.0	56.2	42.5	11.5	24.2	31.0
PPJ153	PPJ154	04/21/87	63.1	60.5	59.1	50.3	59.5	48.8	12.0	24.4	36.0
PPJ147	PPJ148	04/21/87	60.1	58.0	56.2	45.0	56.6	43.2	12.2	22.8	30.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
PPJ161	PPJ169	04/30/87	67.6	64.0	63.6	54.9	64.6	52.2	14.0	25.2	40.0
AAJ163	AAJ164										
PPJ167	PPJ168	04/30/87	80.2	77.2	75.5	60.0	78.5	59.0	14.5	27.7	55.0
PPJ157	PPJ158	04/30/87	81.2	78.5	77.2	63.2	78.8	58.0	14.4	28.2	----
PPJ172	PPJ173	05/20/87	56.1	52.6	51.6	44.0	52.2	40.4	10.3	21.9	26.0
PPJ182	PPJ183	05/21/87	85.4	82.9	80.2	64.9	82.5	63.9	15.5	31.3	83.0
PPJ180	PPJ181	05/21/87	67.5	68.3	62.3	50.3	63.1	49.6	12.9	25.8	36.0
PPJ176	PPJ177	05/21/87	58.0	57.2	54.2	45.8	55.0	41.8	11.2	22.9	28.0
PPJ187	PPJ189	05/22/87	63.1	62.0	59.4	50.4	60.3	48.5	12.1	24.4	36.0
PPJ184	PPJ185	05/22/87	65.5	62.2	59.8	49.4	59.8	44.9	13.8	26.2	39.0
PPJ194	PPJ195	06/02/87	60.0	57.0	56.3	46.8	57.2	45.0	12.1	22.6	31.0
PPJ196	PPJ197	06/04/87	68.0	63.5	64.0	51.2	64.7	49.2	12.9	26.2	37.0
PPJ207	PPJ208	06/10/87	66.0	59.5	60.5	48.0	60.9	47.0	11.2	23.6	33.5
PPJ202	PPJ203	06/10/87	57.9	57.2	53.3	47.6	54.5	41.7	11.1	20.9	26.0
PPJ213	PPJ214	06/11/87	64.1	60.7	59.4	49.3	59.9	46.3	12.3	23.5	33.0
PPJ211	PPJ212	06/11/87	81.7	76.7	76.5	64.0	77.2	56.5	16.2	24.9	60.0
PPJ223	PPJ224	06/12/87	61.9	56.5	57.1	46.4	57.6	44.2	11.6	22.9	30.0
PPJ249		06/18/87	60.2	62.8	53.9	50.0	55.2	43.2	11.4	22.0	29.0
PPJ239	PPJ240	06/18/87	61.8	61.5	57.0	49.0	58.2	45.2	11.9	22.5	31.0
PPJ237	PPJ238	06/18/87	61.0	57.8	55.9	47.2	56.0	43.8	12.2	23.7	32.0
PPJ231	PPJ232	06/18/87	69.5	66.3	64.6	54.8	65.6	49.5	13.2	24.5	42.0
PPJ229	PPJ230	06/18/87	83.1	79.4	77.8	59.8	78.9	59.3	16.5	30.8	74.0
PPJ254	PPJ255	06/19/87	60.8	56.9	57.3	47.4	58.6	45.1	11.9	21.8	----
PPJ264	PPJ265	06/25/87	----	----	49.6	42.0	49.7	39.3	10.5	20.1	20.0
PPJ269		06/30/87	68.7	64.8	63.8	53.3	65.2	51.6	13.3	25.8	42.5
PPJ266		06/30/87	70.0	68.2	66.1	54.0	68.2	51.0	13.3	25.9	43.0
PPJ272		07/01/87	76.9	66.0	71.3	55.2	72.4	55.7	14.8	26.7	52.0
PPJ271		07/01/87	62.3	58.8	58.0	46.6	59.1	44.7	12.2	23.4	34.0
PPJ282	PPJ283	07/09/87	68.0	62.4	62.4	50.8	63.2	48.1	10.5	23.5	37.0
PPJ279	PPJ280	07/09/87	64.0	62.0	61.2	49.5	62.2	48.8	12.4	23.5	37.0
PPJ277	PPJ278	07/09/87	64.2	63.0	60.0	50.5	61.5	46.5	12.2	23.2	34.0
Not Tagged		07/16/87	64.4	63.1	60.9	52.0	61.7	46.3	12.8	23.9	----

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
PPJ288	PPJ289	07/16/87	51.0	48.7	47.2	39.1	48.2	36.4	9.8	18.5	18.0
PPJ286	PPJ287	07/16/87	67.3	65.2	63.8	54.3	64.2	50.0	13.1	25.9	44.0
PPN710	PPN711	07/31/87	68.6	64.8	63.0	54.7	64.5	51.1	12.7	22.8	40.5
PPN707	PPN708	07/31/87	68.7	65.6	63.0	51.3	63.9	49.9	12.6	21.0	42.0
PPN720	PPN721	08/07/87	58.2	55.8	54.4	45.3	55.4	41.6	11.2	21.5	25.5
PPN734	PPN735	09/03/87	76.0	72.2	71.8	55.5	72.0	53.0	15.5	27.2	—
PPN730	PPN731	09/03/87	46.0	56.0	41.5	42.2	43.1	39.5	10.4	24.2	26.0
PPN751	PPN752	01/12/88	57.0	51.7	51.8	44.3	52.2	42.5	10.1	18.0	21.5
PPN805	PPN806	02/18/88	63.2	59.4	57.6	49.8	58.8	46.2	12.5	25.8	34.0
PPN801	PPN802	02/18/88	69.7	64.1	63.9	52.4	64.8	49.5	13.1	24.9	40.5
PPN799	PPN800	02/18/88	83.2	76.5	77.5	60.8	78.4	60.0	16.2	29.0	67.0
PPN797	PPN798	02/18/88	68.3	64.9	62.6	49.8	64.1	50.2	13.9	26.5	40.0
PPN813	PPN814	03/01/88	75.8	70.1	71.0	56.8	71.1	53.9	14.1	23.2	48.0
PPN809	PPN810	03/01/88	77.0	72.2	70.6	57.2	71.7	55.0	14.4	28.7	55.0
X112	X113	03/28/88	70.1	64.2	63.8	52.5	64.9	51.0	14.3	26.3	44.0
X139	X140	03/31/88	68.4	64.8	63.9	51.9	65.4	50.3	13.5	26.4	40.0
Not Tagged		04/22/88	65.8	61.1	61.1	49.2	62.0	46.3	12.5	19.0	31.0
X147	X148	04/22/88	57.2	53.4	53.1	47.3	54.1	42.1	11.1	21.2	25.0
X145	X146	04/22/88	86.2	78.6	80.0	63.3	81.0	61.8	16.5	29.0	75.0
X162	X163	05/17/88	67.0	64.7	63.5	52.7	64.5	48.5	13.2	24.5	41.0
X166	X167	05/18/88	70.5	64.9	66.5	54.2	67.3	51.9	13.2	24.4	45.0
X164	X165	05/18/88	64.3	62.7	60.5	49.5	61.6	47.0	11.3	21.4	32.0
X172	X173	05/19/88	63.3	63.5	60.0	52.6	61.5	48.5	12.1	24.9	38.0
X170	X171	05/19/88	77.4	75.3	73.7	58.4	74.2	57.0	15.0	26.9	57.0
X176	X177	05/19/88	69.4	67.8	64.3	53.8	65.8	50.1	13.9	23.2	39.0
X189	X190	05/27/88	73.5	69.8	69.8	58.4	71.2	54.8	13.1	27.2	53.0
X149	X150	06/01/88	66.0	63.2	61.2	49.2	62.5	46.4	12.8	21.2	31.0
X206	X207	06/08/88	69.0	67.0	63.2	53.5	65.8	52.6	13.0	24.8	45.0
X210	X211	06/10/88	61.5	60.4	57.3	49.5	58.0	43.9	11.9	22.3	37.0
X216	X217	06/15/88	70.2	65.0	65.5	51.5	66.3	50.1	12.5	26.3	43.0
X220	X221	06/15/88	61.8	60.7	58.0	47.4	59.1	46.6	11.0	24.0	34.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
X230	X231	06/15/88	65.5	62.4	60.3	49.6	61.1	46.7	12.4	26.5	38.0
X226	X227	06/16/88	80.8	73.8	70.6	58.1	74.3	54.8	15.1	30.2	61.0
X255	X256	06/28/88	57.8	55.5	53.3	46.5	54.0	43.7	12.5	20.2	29.5
NNW685	X242	06/17/88	65.5	59.6	60.2	49.4	60.8	46.8	12.8	24.8	36.0
X243	X244	06/17/88	63.8	62.0	58.9	50.6	60.5	44.7	13.6	25.6	----
X274	X275	06/29/88	53.2	50.8	49.2	40.9	49.9	39.3	10.6	20.3	21.0
X276	X277	06/29/88	72.0	64.5	66.7	52.8	67.3	51.6	15.6	24.6	47.0
X272	X273	06/29/88	----	66.0	----	53.6	----	48.0	14.0	24.2	43.5
X270	X271	06/29/88	63.2	56.6	57.9	49.2	58.9	46.6	12.2	24.6	34.5
X282	X283	07/01/88	67.3	63.5	62.4	52.3	63.8	49.0	12.3	24.9	39.5
X286	X287	07/08/88	51.0	50.7	47.0	41.7	47.1	37.5	10.1	20.1	19.0
X284	X285	07/08/88	87.6	83.0	82.0	64.0	----	66.0	15.8	30.0	----
X299	X300	07/22/88	67.4	60.1	62.0	48.3	62.3	48.4	14.4	25.4	39.0
X313	X314	07/28/88	74.5	71.4	70.3	56.2	71.3	51.5	14.0	31.5	57.0
X334	X335	08/31/88	71.2	67.6	67.6	53.5	68.5	52.2	13.3	25.7	41.0
X328	X329	08/31/88	69.7	60.7	66.3	48.8	67.0	49.7	14.7	24.3	42.0
X326	X327	08/31/88	79.5	71.2	75.3	57.8	76.7	58.5	17.3	26.8	60.0
X339	X340	09/08/88	82.0	77.6	75.5	65.0	77.2	49.0	16.0	29.7	65.0
X325	X338	09/08/88	64.2	62.0	61.0	49.5	62.2	45.6	12.5	23.2	38.0
X323	X324	09/08/88	67.0	63.2	62.5	47.8	63.2	45.8	13.2	25.2	36.0
X343	X344	09/28/88	71.8	65.6	64.3	54.4	65.3	50.4	14.3	28.6	47.0
X349	X350	11/16/88	81.3	76.8	75.6	61.9	76.2	59.8	16.8	29.2	70.0
X347	X348	11/16/88	67.0	62.5	60.7	49.4	61.3	45.5	13.8	24.3	36.0
X351	X352	11/16/88	63.8	62.0	59.9	51.4	61.3	48.7	13.0	21.7	36.5
X356	X357	11/30/88	74.8	67.5	67.5	54.6	68.7	51.8	14.0	29.0	52.0
X392	X393	12/09/88	57.4	55.8	52.8	43.9	54.4	43.0	11.3	21.2	25.0
X390	X391	12/09/88	87.0	76.7	80.9	63.4	81.8	62.0	19.2	29.9	77.0
X383	X384	12/09/88	66.3	61.2	61.9	49.0	62.5	47.6	14.0	24.1	37.0
BP509	X706	01/16/89	79.2	72.2	73.7	57.9	75.2	57.2	15.0	29.9	56.0
BP510	X707	01/31/89	76.3	71.3	68.2	58.2	69.2	50.5	14.9	28.6	52.0
X713	X714	03/21/89	61.2	58.9	57.9	50.4	59.4	47.1	11.4	24.1	35.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP518	X712	03/21/89	82.2	73.5	77.8	61.3	79.0	56.9	16.8	30.2	75.0
BP560	X767	07/27/89	69.6	67.0	65.9	55.1	66.9	51.4	13.3	26.5	45.0
BP575	X781	08/22/89	67.7	63.4	63.4	46.9	63.5	45.7	13.6	24.5	38.0
BP576	X782	08/22/89	60.7	52.3	55.8	44.1	56.8	42.6	10.8	22.6	28.0
BP1408	X1514	11/24/89	59.9	57.0	54.0	46.5	55.8	44.9	11.9	22.6	32.0
BP1406	X1512	11/24/89	61.9	59.4	56.8	48.3	57.8	45.6	12.0	24.5	34.0
BP1417	X1517	03/12/90	83.7	78.5	77.1	59.0	77.8	58.9	15.2	33.5	----
BP1424	X1524	03/16/90	64.6	60.3	58.2	49.1	59.1	45.4	11.2	17.0	28.0
BP1427	X1526	05/14/90	60.3	59.2	55.6	45.8	55.6	42.4	11.9	23.5	30.0
BP1426	PPY028	05/14/90	55.5	53.1	49.9	44.2	50.0	39.3	9.0	21.1	23.0
BP1431	X1530	05/15/90	69.0	64.5	65.0	51.5	65.9	51.3	12.2	22.5	42.0
BP1441	X1532	05/15/90	61.9	59.8	58.0	50.8	59.5	48.0	12.3	23.2	34.0
BP1435	X1535	05/18/90	64.5	60.6	58.5	48.6	61.3	47.4	11.2	23.7	36.0
BP1442	X1540	05/29/90	65.2	60.5	60.3	50.9	62.9	46.6	14.1	22.0	----
BP1446	X1545	06/12/90	66.1	62.2	61.0	50.9	61.5	46.2	12.8	25.1	38.0
BP1447	X1546	06/15/90	65.7	59.8	60.7	50.3	61.6	47.0	12.0	25.1	36.0
BP1459	X1557	07/18/90	58.3	55.4	55.8	47.1	56.3	43.0	10.6	22.3	27.0
BP1474	X1573	09/04/90	84.8	74.6	78.3	63.3	80.5	60.7	18.3	30.8	75.0
BP1475	X1575	09/04/90	68.9	70.5	63.3	56.6	64.8	55.1	14.4	26.9	52.0
BP1478	X1577	09/04/90	58.1	55.7	52.4	44.3	53.2	43.1	12.2	24.1	34.0
BP1485	X1583	03/12/91	81.1	75.3	74.4	61.2	76.9	58.6	15.6	28.0	65.0
BP1488	X1586	05/21/91	83.9	74.3	79.4	61.6	81.4	60.2	18.9	26.6	71.0
BP1491	X1589	05/28/91	63.8	64.0	59.1	49.9	61.0	47.2	13.7	26.1	38.5
BBA687	X1600	06/04/91	47.2	45.6	44.4	37.7	44.7	33.0	10.6	16.4	18.0
BBA695	X2209	06/20/91	68.6	61.3	62.9	48.9	63.8	48.3	14.4	28.1	47.0
BBC360	PPW648	06/26/91	57.2	53.8	52.5	45.0	53.0	42.0	11.5	21.8	29.5
BBA699	X2214	06/27/91	67.1	63.4	63.2	51.7	63.5	49.3	13.6	25.3	41.0
BBA740	X2224	07/16/91	62.9	59.2	58.1	49.0	59.5	45.7	11.7	24.2	35.0
QQH730	QQH731	07/16/91	63.0	61.6	58.3	48.6	59.2	45.2	12.4	24.1	38.0
BBA747	X2248	11/29/91	64.2	59.9	58.7	47.4	61.2	46.7	11.6	21.3	33.0
BBA746	X2247	11/29/91	76.0	75.0	70.9	59.1	72.6	56.0	16.1	28.9	64.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BBA753	X2278	03/10/92	61.0	58.8	55.6	48.1	56.9	45.2	11.3	24.6	33.5
BBA755	X2281	05/12/92	66.5	65.3	62.5	52.1	64.1	47.3	13.0	22.6	41.0
BBA754	X2280	05/12/92	61.9	57.6	57.0	48.6	58.5	42.6	11.5	21.6	32.0
BBA758	X2284	05/13/92	67.7	64.2	62.9	53.2	64.4	50.5	13.2	27.5	49.0
BBA757	X2283	05/13/92	73.7	69.0	70.6	56.1	72.4	51.2	14.2	28.2	55.0
BBA762	X2286	05/14/92	59.6	57.4	53.1	46.1	53.9	42.5	11.2	23.9	30.5
BBA763	X2287	05/15/92	69.3	63.9	64.8	51.6	65.8	52.1	12.6	26.1	----
BBA769	X2294	05/22/92	61.0	58.8	56.5	48.0	57.3	45.3	11.5	23.7	34.0
BBA775	X2300	06/02/92	76.3	65.6	70.0	58.4	71.5	51.8	15.3	27.3	50.0
BBA774	X2298	06/02/92	57.3	53.2	53.3	44.6	54.4	41.3	10.6	21.4	29.0
BBC427	QQN422	06/02/92	63.0	57.9	58.7	47.4	59.6	44.7	13.0	23.2	37.0
BP2505	X4181	07/07/92	64.3	59.9	59.8	48.3	60.9	47.9	11.6	24.8	39.0
BBA856	QQC635	07/07/92	55.9	49.7	50.9	40.5	52.7	42.1	10.0	21.8	26.0
BP2517	X4189	07/16/92	65.5	60.0	61.6	50.4	64.2	51.6	12.5	25.2	40.0
BP2519	X4191	07/17/92	75.1	64.1	69.8	53.6	70.9	53.3	14.2	28.0	----
BP2521	X4193	07/17/92	85.8	84.6	81.1	62.0	83.0	83.0	16.5	28.5	60.5
BP2520	X4192	07/17/92	55.4	50.4	51.6	43.7	52.9	40.9	10.7	20.6	26.0
BP2526	X4198	07/28/92	68.2	64.9	63.3	51.1	63.8	48.0	14.0	26.0	44.0
BP2525	X4197	07/28/92	63.5	59.4	59.6	48.4	59.9	47.2	11.9	21.6	34.0
BP2524	X4196	07/28/92	71.6	64.9	66.7	53.8	67.9	52.4	12.9	26.9	49.0
BP2523	X4195	07/28/92	60.3	57.8	56.4	47.8	57.6	44.1	11.7	22.8	33.0
BP2522	X4194	07/28/92	58.6	57.0	54.5	47.2	55.5	42.9	10.6	20.0	28.0
BP2538	X4335	08/11/92	58.0	59.6	54.4	46.2	----	41.4	11.2	22.2	30.0
BP2541	X4339	08/21/92	66.2	63.3	60.3	51.7	61.0	47.5	12.8	24.7	41.0
BP2539	X4336	08/21/92	63.0	56.2	58.3	48.1	59.1	41.5	10.9	20.9	34.0
BP2551	X4349	11/24/92	58.7	54.4	52.7	44.7	53.3	42.6	10.5	21.8	28.5
BBC633	QQB534										
QQB535		12/04/92	58.1	48.4	53.4	39.9	54.3	43.1	10.6	18.4	28.0
BP2563	X4451	01/18/93	56.0	53.3	51.9	43.0	52.6	39.3	11.6	21.2	26.0
BP2585	X4469	05/19/93	58.4	57.2	53.8	45.8	54.8	43.4	11.4	23.7	30.0
BP2586	X4470	05/19/93	61.5	58.0	58.0	46.8	58.2	44.6	12.1	23.4	33.0
BP2588	X4472	05/27/93	54.4	52.4	51.2	42.5	52.1	40.4	10.1	22.4	27.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP2608	N2045	06/25/93	65.5	64.1	62.8	52.1	63.9	48.0	13.4	24.8	43.0
BP2650	N2340	07/14/93	-----	-----	62.7	52.1	64.7	50.9	12.6	23.6	45.0
BP2652	N2343	07/15/93	61.2	56.3	55.0	45.5	56.0	43.0	12.2	21.7	33.0
BP2668	N2384	07/30/93	62.2	61.1	58.7	51.5	60.2	45.8	12.1	22.2	38.0
BP2666	N2382	07/30/93	65.9	62.0	62.0	51.5	62.5	50.2	12.5	22.3	43.0
BP2673	N2392	08/05/93	63.2	61.4	58.0	49.8	60.1	43.9	11.8	20.6	39.0
BP2679	N2395	08/11/93	70.4	68.0	65.6	55.0	66.3	52.2	13.4	26.0	54.0
BP2678	N2394	08/11/93	53.2	48.9	47.7	40.6	47.8	38.5	10.5	20.6	24.0
BP2682	N2397	08/12/93	55.6	55.0	51.9	43.9	52.8	40.6	10.8	21.0	30.0
BP3131	N3075	02/18/94	65.1	58.7	59.3	49.1	60.0	47.0	12.4	24.0	40.5
BP3152	N3144	05/24/94	55.7	59.2	53.5	45.0	53.9	40.2	11.0	22.3	33.0
BP3149	N3125	05/24/94	84.9	76.2	79.3	61.8	80.8	60.3	16.5	31.5	87.0
BP3156	N3148	05/26/94	65.3	62.5	60.9	51.2	62.1	49.2	12.5	22.4	42.0
BP3155	N3147	05/26/94	63.3	59.9	58.5	49.2	60.0	46.7	11.0	21.3	37.0
BP3154	N3146	05/26/94	61.7	58.0	58.6	48.7	59.8	46.5	12.3	20.6	35.0
BP3153	N3145	05/26/94	61.7	62.1	58.7	51.9	59.4	47.1	12.3	25.7	34.0
BP3161	N3188	05/31/94	65.4	61.6	60.6	48.5	60.9	45.5	12.6	24.9	44.0
BP3165	N3191	06/02/94	67.4	62.4	62.4	51.2	63.8	47.7	12.9	24.1	43.0
BP3164	N3190	06/02/94	62.0	57.4	59.5	50.8	61.2	45.5	11.2	23.1	35.5
BP3170	N3195	06/03/94	65.4	61.1	60.5	49.5	61.2	46.7	12.9	22.3	39.0
BP3181	N3196	06/03/94	53.3	49.3	48.1	40.9	48.8	37.7	10.6	20.8	26.5
BP3174	N3197	06/10/94	73.8	68.5	68.4	54.2	69.9	54.0	14.5	25.9	-----
BP3177	N4502	06/13/94	64.8	61.7	60.8	52.8	62.2	45.1	13.1	25.4	44.0
BP3178	N3199	06/13/94	63.0	57.8	57.8	48.2	59.0	45.8	10.8	23.9	34.5
BP3182	N4513	07/05/94	59.0	55.6	55.8	46.6	57.1	41.0	11.9	24.0	36.0
BP3184	N4508	07/08/94	65.8	61.9	60.9	51.6	64.0	47.3	12.0	24.8	40.0
BP3195	N5201	07/22/94	69.1	65.3	62.7	53.1	63.8	50.9	11.7	22.7	43.0
BP3197	N5204	07/25/94	61.4	59.2	57.2	46.8	57.9	45.6	12.4	23.7	36.0
BP3199	N5203	07/25/94	71.5	64.5	65.6	52.8	67.4	50.9	13.5	26.3	-----
BP3198	N5205	07/25/94	76.6	71.3	70.3	54.7	70.6	52.2	13.2	27.7	58.0
BP3209	N5215	08/09/94	58.9	53.0	54.4	44.4	55.5	42.1	11.5	20.3	28.8

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP3259	X6002	05/08/95	63.9	62.8	61.2	52.0	62.0	46.3	12.9	23.9	43.0
BP3264	X6009	05/11/95	58.3	59.4	55.0	50.3	55.8	44.5	12.3	23.0	36.0
BBE005	QQJ020	06/06/95	71.9	66.8	63.0	54.2	64.2	49.5	12.9	24.4	50.0
BP5524	X6058	06/20/95	84.0	78.5	76.3	60.8	77.9	57.5	14.4	28.6	69.0
BP5523	X6050	06/20/95	65.4	58.9	58.7	48.1	59.2	45.5	11.0	22.2	38.0
BP5522	X6049	06/20/95	60.5	60.5	56.5	48.3	57.4	43.5	11.0	22.8	35.0
BP5551	X6027	06/30/95	64.1	57.3	57.3	47.0	60.2	44.7	11.8	23.7	43.0
BP5550	N6283	06/30/95	64.5	61.6	59.8	47.3	60.3	45.2	11.5	23.3	40.0
BP5552	X6032	07/06/95	70.5	66.6	65.5	54.2	67.0	51.1	12.3	26.2	53.0
BP5567	X6083	07/25/95	64.6	62.7	61.2	50.4	62.9	47.3	11.3	23.5	41.0
BP5568	X6084	07/25/95	60.2	56.8	55.6	44.9	57.0	42.9	12.4	22.9	35.0
BP5569	X6085	07/25/95	66.7	61.5	62.9	50.4	63.9	48.5	12.6	24.6	41.0
BP5588	X6097	09/21/95	96.4	67.6	72.6	56.6	73.9	53.2	15.0	25.5	55.5
BP5590		09/21/95	71.2	65.5	66.3	53.0	67.0	51.0	14.3	27.4	51.0
BP5589	X6098	09/21/95	61.4	56.3	55.2	44.7	55.8	42.2	12.4	23.9	34.0
BP5592	X6100	09/22/95	70.1	65.7	63.7	51.6	64.1	48.9	13.0	25.4	49.5
BP5594	X6128	09/22/95	63.3	62.8	59.9	62.2	61.4	36.4	12.8	24.2	40.0
BP5601	X6110	11/21/95	63.1	57.9	56.7	47.0	58.1	46.0	12.0	23.0	33.0
BP5610	X6119	12/05/95	62.9	58.8	58.5	49.1	59.4	44.0	12.2	22.4	37.0
BP5692	X6199	02/22/96	61.2	57.7	56.2	46.6	57.5	-----	10.3	22.0	35.0
BP5676	N6373	02/22/96	61.9	61.7	57.7	50.4	58.8	46.4	12.5	23.6	36.0
BP4511	X4711	03/13/96	63.8	61.3	58.3	50.3	59.2	46.0	10.3	23.2	36.0
BP4531	X4731	03/13/96	68.4	52.5	63.0	51.3	65.8	50.8	12.0	24.1	43.0
BP4507	X4707	03/13/96	52.2	48.9	49.1	39.7	49.4	38.1	10.4	18.0	18.0
BP4535	X4734	03/14/96	61.8	58.9	57.8	47.0	59.2	45.2	11.0	23.8	37.0
BP4515	X4714	03/14/96	61.1	55.4	55.4	43.6	56.7	45.3	11.0	-----	-----
BP4596	X4796	05/13/96	65.9	63.0	59.9	49.1	61.4	47.7	11.4	24.6	36.0
BP6601	X4801	05/15/96	57.8	57.5	53.1	46.9	54.3	44.3	9.4	19.5	28.5
BP6610	X4810	05/17/96	73.0	69.0	67.0	55.6	68.2	52.0	13.7	25.6	46.0
BP6643	X4843	05/31/96	65.8	62.5	60.1	51.2	61.1	47.2	11.9	23.4	40.0

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
	Number	427	427	428	430	427	429	430	319	410
	Median	66.8	62.8	62.0	51.2	63.0	48.4	12.8	24.4	39.0
	Mean	67.9	63.7	62.6	51.5	63.8	48.8	13.0	24.7	41.4
	Std. Dev.	8.5	7.3	7.9	5.6	8.1	6.1	1.9	3.1	13.4
	Minimum	46.0	44.3	41.5	31.7	43.1	23.0	7.8	16.4	11.4
	Maximum	96.4	84.6	82.5	65.5	86.0	83.0	26.0	35.2	87.0

Table 18. Morphometrics of adult loggerheads from the central region of the Indian River Lagoon System.

Sex	Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
Female	K1949	07/15/82	90.5	79.0	84.6	61.7	85.4	59.9	19.0	----	84.1
Female	K1984	06/02/83	98.6	90.3	91.6	69.4	93.7	70.9	18.6	----	----
Female	K1985	06/02/83	95.6	91.1	88.8	71.4	91.0	69.0	17.2	----	----
Female	K3706	07/14/83	92.2	87.7	86.2	66.3	88.0	65.3	16.7	----	----
Female	D3442	07/15/83	95.8	85.9	86.0	68.0	88.0	69.2	14.9	----	88.6
Female	K1994	07/28/83	99.5	91.8	93.5	72.7	95.5	70.5	20.8	----	----
Female	K3743	06/05/84	93.2	85.8	86.5	67.2	87.9	65.7	17.2	----	----
Female	K3773	07/05/84	97.3	90.5	92.2	68.6	94.4	72.7	19.0	----	----
Female	K3774	07/05/84	100.6	92.0	92.9	67.3	93.4	70.5	18.4	----	----
Male	NNW662 NNV862	04/29/86	102.5	91.0	94.6	67.7	96.2	67.0	20.0	----	----
Female	NNW696 NNV896	06/09/86	109.3	98.2	101.7	76.8	102.5	----	19.4	----	----
Female	NNZ389 K6266	08/13/86	89.8	86.2	85.0	67.8	86.2	91.6	17.5	33.0	----
Female	PPJ068 PPJ069	01/08/87	89.1	84.0	86.3	68.2	88.6	66.4	16.5	33.1	84.0
Female	PPJ186 PPJ188	05/22/87	96.8	90.4	91.0	66.4	92.2	67.5	17.1	36.3	----
Female	PPJ190 PPJ191	05/28/87	99.0	94.5	95.5	71.2	97.5	74.0	25.3	37.8	----
Female	PPJ267	06/30/87	----	----	93.0	68.9	----	----	20.2	----	----
Female	X110 X111	03/28/88	100.0	71.2	93.0	91.0	----	68.0	20.9	----	----
Female	PPN828 PPN829	04/22/88	109.4	96.3	103.0	79.0	----	----	19.1	----	----
Female	X174 X175	05/19/88	102.9	95.3	94.9	73.3	96.7	----	18.5	----	----
Female	X214 X215	06/14/88	98.8	89.4	95.0	73.5	----	71.9	17.6	----	----
Female	X288 X289	07/08/88	92.2	92.5	86.5	70.2	89.7	66.5	17.4	36.1	----
Female	X305 X306	07/26/88	----	----	----	----	----	----	----	----	----
Female	X731	06/01/89	----	----	----	----	----	----	----	----	----
Female	BBA688 X2201	06/07/91	93.6	80.0	90.8	66.7	92.0	64.0	17.4	27.0	82.0

Sex	Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
Female	BP2536 X4333	08/11/92	99.2	94.6	93.3	71.6	95.1	72.6	20.4	33.4	-----
Female	BP2581 X4466	05/07/93	96.3	89.7	93.2	71.6	96.2	-----	21.1	36.9	90.0
Female	N3141 N3142	05/24/94	106.6	100.2	98.8	74.9	-----	-----	-----	-----	-----
Female	N3186 N3187	05/27/94	-----	-----	97.7	70.5	-----	-----	18.1	-----	-----
Female	X6126 X6127	09/22/95	90.8	75.0	84.7	62.2	86.2	63.7	17.8	33.0	-----
Male	BP6603 X4805	05/15/96	100.5	84.7	95.5	67.8	97.5	-----	18.7	24.3	-----
Male	BP6649	05/28/96	96.1	89.1	88.7	72.5	90.4	67.2	20.3	-----	-----

Table 19. Carapace length data obtained from loggerheads in developmental habitats along the US. Atlantic Coast and the Florida Keys. Measurements are in centimeters.

Location	How Obtained	Measurement	Mean	Range	n	Source
Central Region of the Indian River Lagoon System, Fl	Tangle Net	Standard Carapace Length	64.7	43.4-103.0	403	----
Northern Region of the Indian River Lagoon System, Fl	Tangle Net and Cold Stunned (1977 & 1981)	Standard Carapace Length	65.8	44.0-93.0	205	Ehrhart (1983)
Northern Region of the Indian River Lagoon System, Fl	Cold Stunned (1985)	Standard Carapace Length	70.8	61.0-82.4	7	Witherington and Ehrhart (1988)
Northern Region of the Indian River Lagoon System, Fl	Cold Stunned (1989)	Standard Carapace Length	66.6	50.9-86.5	10	Schroeder et al. (1990)
Cape Canaveral, Fl	Shrimp Trawl	Standard Carapace Length	----	47.5-97.5*	139	Ogren and McVea (1987)
Cape Canaveral, Fl	Shrimp Trawl	Total Carapace Length	73.2	46.0-110.0*	3,679	Henwood (1987)
Nearshore Waters Hutchinson Isl. Fl	Power Plant Intake Canal	Minimum Carapace Length	65.8	42.5-122.5*	1,322	Ernest, et al. (1989)
Florida Keys	Strandings	Curved Carapace Length	----	14.0-121.0	111	Wells and Bellmund (1990)
Long Island Sound, NY	Cold Stunned	Standard Carapace Length	49.5	36.6-59.6	27	Morreale et al. (1992)

Location	How Obtained	Measurement	Mean	Range	n	Source
Delaware Bay, NJ	Power Plant Intake Pipe	Not Stated	----	26.0-80.0*	18	Eggers (1989)
Chesapeake Bay and Coastal Waters of VA	Strandings and Pound Nets	Curved Carapace Length	74.0	21.6-122.0	312	Lutcavage and Musick (1985)
North Carolina	Strandings	Standard Carapace Length	----	15.0-125.0*	371	Crouse (1988)
Pamlico and Core Sounds, NC	Incidental Capture by Commercial Fishermen	Curved Carapace Length	66.0	42.0-105.0	70	Epperly et al. (1995)
Georgia Coastal Waters	Shrimp Trawls	Not Stated	62.8*	50.0-97.5*	19	Hillestad et al. (1978)
Georgia Coastal Waters	Strandings	Not Stated	70.4*	47.5-102.5*	149	Hillestad et al. (1978)

*estimated from graph

Table 20. Morphometrics of inital capture juvenile green turtles from the Sabellariid worm reefs, Indian River Co., Florida. Summary statistics are at the end of the table.

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP536	X738	06/27/89	40.1	33.9	37.6	29.8	37.6	31.5	6.0	14.3	7.7
X742	X743	06/27/89	33.5	30.1	32.0	26.8	32.2	26.8	5.1	13.2	5.4
BP537	X744	06/28/89	28.9	24.4	26.7	21.2	27.1	23.0	4.8	10.0	3.1
BP538	X745	06/28/89	34.8	29.4	32.6	25.2	33.0	28.2	5.1	12.6	4.8
BP539	X739	06/28/89	30.6	26.6	28.9	22.3	29.0	24.4	4.5	11.0	3.4
BP540	X746	07/05/89	34.8	31.2	32.4	26.5	32.6	27.0	5.2	14.1	5.4
BP541	X740	07/05/89	35.6	31.2	33.7	27.4	34.0	28.0	5.5	12.3	5.5
BP542	PPG677	07/06/89	35.6	30.5	33.9	28.3	34.1	29.0	5.4	12.2	5.2
BP544	X750	07/10/89	48.3	42.5	45.3	35.1	44.5	39.2	6.3	16.8	15.0
BP543	X747	07/10/89	31.5	27.4	29.2	23.2	29.2	25.6	4.2	11.9	3.7
BP545	X752	07/11/89	46.5	41.1	44.0	33.5	44.0	37.6	6.3	17.3	14.0
BP548	X754	07/19/89	29.8	24.9	28.9	22.5	29.0	24.3	4.4	10.8	3.1
BP562	X741	07/31/89	41.5	35.1	39.3	30.8	39.8	32.0	6.0	14.8	8.5
BP563	X769	08/09/89	32.5	28.1	30.6	24.2	30.6	26.5	4.1	11.7	4.0
BP564	X770	08/11/89	37.0	31.7	35.8	27.2	36.3	29.4	5.2	13.5	6.4
BP565	X771	08/15/89	40.4	34.7	37.6	29.5	37.9	30.9	5.8	14.6	7.5
BP589	X793	09/13/89	30.5	25.4	29.3	22.2	29.5	25.1	4.5	10.8	3.5
BP593	X797	10/18/89	66.0	57.3	62.2	46.8	62.2	52.1	9.3	27.0	36.0
BP1452	X1550	07/05/90	67.6	59.6	61.7	47.9	62.0	52.3	8.8	27.0	38.0
BP1456	X1554	07/06/90	41.5	34.5	39.6	31.1	39.6	32.4	6.5	15.0	8.7
BP1455	X1553	07/06/90	37.6	32.6	35.9	28.6	35.9	30.1	6.1	13.4	6.6
BP1454	X1552	07/06/90	36.4	30.9	34.7	27.1	34.8	29.5	5.5	13.6	5.7
BP1453	X1551	07/06/90	65.4	55.7	61.7	47.2	61.9	51.9	9.2	25.8	38.0
BP1466	X1565	08/09/90	30.2	25.9	29.1	23.7	29.2	24.0	5.0	11.0	3.5
BP1465	X1564	08/09/90	42.4	38.1	40.5	32.5	40.7	32.1	6.3	15.2	9.0
BP1467	X1566	08/09/90	41.6	35.7	39.3	30.2	39.5	34.2	6.6	16.0	8.7
BP1464	X1563	08/09/90	50.3	43.2	47.9	37.9	47.9	38.0	7.1	18.5	16.0
BP1470	X1568	08/10/90	50.7	44.8	48.4	38.6	48.5	39.3	7.2	19.8	16.6
BP1468	X1567	08/10/90	70.1	61.2	65.1	48.9	65.3	55.2	9.6	26.8	44.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP1493	X1591	05/31/91	35.7	30.0	34.0	25.3	34.4	29.2	5.6	14.0	5.7
BP1494	X1592	05/31/91	45.7	41.0	44.0	35.6	44.3	37.2	6.4	16.3	11.8
BP1495	X1593	05/31/91	46.0	41.0	44.0	35.7	44.1	36.4	6.7	17.9	12.7
BP1496	X1594	05/31/91	46.6	40.6	44.3	35.7	44.5	38.3	6.9	18.9	13.7
BP1497	X1595	05/31/91	35.6	30.2	33.2	26.5	33.2	27.5	5.5	13.8	5.6
BP1498	X1597	05/31/91	39.1	34.3	37.6	30.1	37.7	30.9	6.1	14.6	7.4
BP1500	X1598	05/31/91	34.9	28.5	33.4	25.6	33.5	27.0	5.3	11.5	4.2
BP1499	X1599	05/31/91	37.3	31.7	35.6	28.8	35.9	29.5	6.0	12.6	5.8
BBA691	X2204	06/14/91	52.0	46.4	48.7	39.1	48.9	40.5	7.5	18.5	22.0
BBA694	X2208	06/20/91	37.2	31.2	35.8	27.6	35.9	29.7	5.8	13.6	6.1
BBA693	X2207	06/20/91	38.5	33.2	36.8	29.1	36.9	30.5	5.9	14.1	6.7
BBA692	X2206	06/20/91	31.5	26.3	29.9	22.6	30.1	25.8	5.1	11.6	3.6
BBA707	X2221	07/03/91	51.3	45.7	47.7	38.9	48.7	40.0	7.5	19.7	16.2
BBA705	X2217	07/03/91	34.6	30.8	33.0	26.5	33.0	27.8	5.7	13.5	5.5
BBA706	X2220	07/03/91	35.3	31.4	33.2	26.9	33.3	29.8	5.6	13.9	5.7
BP1466	X2222	07/05/91	31.4	27.0	29.4	23.9	29.5	23.9	5.1	11.7	3.7
BBA708	X2226	07/05/91	38.4	34.0	36.2	29.7	36.5	30.2	6.0	13.8	6.7
BBA715	X2228	07/10/91	33.1	28.0	31.5	24.4	31.6	26.8	5.5	11.7	4.0
BBA717	X2230	07/25/91	63.3	59.0	58.1	46.4	58.4	47.5	8.7	23.1	36.0
BBA718	X2231	07/26/91	45.6	39.5	43.0	33.7	43.3	35.7	6.9	16.4	11.1
BBA710	X2234	08/08/91	50.4	43.7	48.0	37.7	48.0	40.8	7.1	18.9	15.0
BBA741	X2235	08/09/91	49.4	43.6	46.3	36.3	46.5	37.6	7.6	19.3	14.2
BBA742	X2236	08/09/91	36.4	31.6	34.4	26.5	34.5	29.6	5.5	13.6	6.0
BP2502	X4177	07/03/92	31.4	28.0	29.8	24.9	30.4	26.9	5.2	11.5	4.0
BBA777	X2301	06/04/92	46.3	44.6	43.0	35.6	43.2	36.4	6.9	18.3	13.0
BBA778	X2302	06/04/92	44.5	38.8	41.4	33.1	41.6	36.1	6.3	16.5	10.1
BBA779	X2303	06/05/92	51.3	44.2	48.3	37.9	48.4	39.0	7.2	19.4	0.0
BBA780	X2304	06/11/92	37.0	30.7	34.3	27.2	34.3	30.1	5.7	14.1	6.6
BBA783	X2308	06/12/92	40.3	35.7	38.7	30.3	38.9	33.2	6.5	15.9	9.0
BBA784	X2307	06/12/92	41.1	36.2	39.3	30.0	39.4	32.6	6.4	16.3	8.8
BBA782	X2306	06/12/92	51.3	45.0	48.4	37.7	48.6	40.3	7.9	18.3	20.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BBA781	X2305	06/12/92	54.0	46.9	50.3	39.9	50.4	40.6	7.4	20.5	24.5
BBA792	X2313	06/16/92	33.5	30.4	32.0	26.6	32.1	26.7	5.3	12.7	4.5
BBA791	X2311	06/16/92	42.3	38.4	40.0	31.3	40.2	33.9	6.3	17.2	16.0
BBA793	X2312	06/16/92	54.3	46.8	51.1	38.7	51.4	43.9	7.8	22.0	30.0
BBA790	X2309	06/16/92	32.5	27.4	30.3	23.1	30.4	20.8	4.8	11.8	4.1
BBA785	X2314	06/16/92	35.9	35.2	34.7	29.5	34.8	29.3	5.9	14.5	7.0
BBA786	X2315	06/16/92	42.3	36.8	39.7	31.4	39.7	32.7	6.4	15.4	8.5
BBA787	X2317	06/23/92	41.9	35.7	41.0	26.8	41.0	30.7	6.5	14.4	8.0
BBA788	X2316	06/23/92	50.6	47.7	47.7	33.5	47.7	39.2	7.8	18.9	21.0
BBA789	X2319	06/30/92	57.3	53.9	54.6	45.2	54.9	45.9	8.5	20.6	28.5
BBA794	X2318	06/30/92	31.4	28.6	30.1	24.9	30.2	25.3	5.2	12.0	3.8
BBA798	X2320	07/02/92	32.4	26.3	29.8	23.0	29.8	25.3	4.9	12.3	3.9
BBA799	X2323	07/02/92	41.3	36.2	38.9	30.1	39.2	33.4	6.0	15.8	8.4
BBA796	X2321	07/02/92	45.5	39.2	42.8	33.1	42.8	35.3	6.8	16.8	17.1
BBA797	X2322	07/02/92	57.3	50.0	53.6	41.7	53.6	44.8	8.7	21.6	28.0
BBA795	X2324	07/02/92	56.1	48.8	52.5	42.0	52.5	43.5	7.8	20.5	25.0
BP2503	X4180	07/03/92	41.3	33.1	38.8	29.2	38.9	31.7	6.4	15.9	8.1
BP2501	X4179	07/03/92	46.5	39.5	43.5	34.3	43.5	36.3	6.8	16.5	16.0
BP2504	X4178	07/03/92	34.2	29.2	31.9	24.8	32.0	27.5	5.3	12.0	4.3
BBA800	X2325	07/03/92	40.5	34.1	37.7	29.4	37.7	30.1	5.8	14.3	6.8
BP2511	X4182	07/10/92	33.7	29.3	31.9	26.0	31.9	25.5	4.8	12.0	4.1
BP2510	X4187	07/10/92	32.5	29.0	31.2	25.1	31.3	26.0	5.0	12.5	4.1
BP2513	X4184	07/10/92	41.1	35.5	39.1	31.3	39.2	32.0	5.7	14.0	7.4
BP2512	X4185	07/10/92	37.2	30.5	34.6	26.7	35.0	29.5	5.6	13.2	5.8
BP2514	X4188	07/10/92	41.6	36.1	39.4	32.5	39.6	32.1	6.1	14.2	7.8
BP2509	X2310	07/10/92	51.7	45.0	49.1	37.5	49.3	39.8	7.7	18.9	21.5
BP2516	X4183	07/10/92	47.7	40.3	45.1	34.7	45.5	36.5	7.0	17.9	12.4
BP2515	X4186	07/10/92	60.1	53.0	57.6	45.3	57.6	47.5	8.7	21.6	30.0
BP2528	X4326	07/30/92	35.1	28.9	32.7	25.7	33.1	27.8	5.1	12.5	4.5
BP2529	X4200	07/30/92	60.1	50.4	55.9	41.9	56.0	47.1	8.2	22.0	30.0
BP2532	X4329	07/31/92	50.8	45.6	47.4	38.6	47.9	39.8	7.4	19.8	22.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP2531	X4328	07/31/92	35.6	32.4	33.8	28.4	33.8	27.4	5.6	13.5	5.5
BP2530	X4327	07/31/92	41.4	35.3	38.9	30.1	38.9	31.3	6.2	15.2	8.0
BP2533	X4331	07/31/92	45.4	40.5	42.3	33.5	42.3	36.9	7.0	17.8	11.8
BP2534	X4330	07/31/92	62.3	56.6	57.9	47.0	58.6	49.2	8.8	22.8	35.0
BP2613	N2047	07/01/93	34.9	30.2	32.5	26.2	32.9	27.1	5.8	12.2	4.8
BP2594	N2038	06/23/93	71.0	61.1	66.5	52.0	66.2	56.0	9.9	25.1	50.0
BP2595	N2039	06/23/93	43.7	38.3	41.6	33.2	41.6	34.5	6.5	14.7	9.0
BP2596	N2040	06/23/93	50.7	43.2	47.4	38.0	47.1	40.0	8.3	18.0	14.5
BP2612	N2048	07/01/93	37.4	31.0	35.5	27.1	35.6	29.2	5.6	12.8	5.6
BP2614	N2252	07/01/93	28.0	24.2	26.8	21.7	26.9	23.0	4.7	10.2	2.7
BP2615	N2251	07/01/93	58.6	51.9	55.9	44.1	56.2	48.5	8.4	20.4	29.5
BP2611	N2049	07/01/93	37.4	32.3	35.9	29.0	35.9	29.1	5.9	13.2	6.1
BP2610	N2050	07/01/93	43.6	39.3	40.9	33.2	41.2	32.9	5.9	14.3	8.9
BP2624	N2254	07/02/93	55.1	46.5	51.1	41.2	51.2	42.9	7.4	18.8	26.0
BP2618	N2255	07/02/93	60.3	51.9	55.8	43.8	54.8	46.6	8.4	21.7	31.0
BP2621	N2256	07/02/93	55.7	50.1	51.9	39.8	51.7	42.6	8.2	22.2	27.0
BP2617	N2257	07/02/93	50.2	43.0	46.8	36.8	46.8	39.6	6.5	18.3	15.0
BP2622	N2258	07/02/93	30.4	25.0	27.7	21.1	27.7	22.3	4.0	10.7	3.2
BP2619	N2260	07/02/93	50.2	41.2	47.1	34.1	47.2	39.1	6.5	17.5	15.7
BP2625	N2261	07/02/93	40.7	36.5	38.6	31.4	38.6	33.4	6.3	15.5	8.6
BP2623	N2259	07/02/93	34.1	30.2	32.1	26.1	31.9	26.0	5.5	11.9	4.6
BP2620	N2260	07/02/93	43.7	36.1	40.9	30.9	41.1	34.6	5.9	14.1	8.8
BP2653	N2344	07/20/93	49.3	43.0	46.7	36.5	47.1	39.6	7.6	17.9	19.5
BP2654	N2345	07/20/93	35.0	33.1	32.9	27.9	32.9	26.5	5.7	12.6	5.1
BP2655	N2346	07/20/93	35.5	30.2	34.1	27.1	34.2	28.4	5.5	12.8	5.2
BP2656	N2347	07/23/93	44.5	38.6	42.2	33.3	42.3	36.8	6.6	15.2	15.0
BP2658	N2378	07/23/93	57.9	50.4	53.5	41.9	53.5	46.4	8.4	21.8	31.0
BP2657	N2376	07/23/93	51.1	42.2	47.4	36.6	47.4	39.8	7.3	19.3	20.5
BP2659	N2377	07/23/93	48.9	44.4	45.9	38.3	46.1	38.0	7.4	18.5	21.0
BP2660	N2350	07/23/93	45.6	36.3	43.1	30.7	43.4	36.3	6.5	15.5	16.0
BP2662	N2379	07/23/93	48.2	42.0	45.2	34.4	45.2	37.4	7.0	18.4	20.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP2661	N2349	07/23/93	54.5	47.4	49.9	39.0	49.9	42.2	6.9	19.3	24.0
BP2663	N2348	07/23/93	68.3	57.6	63.4	45.3	63.6	52.5	8.8	23.3	43.0
BP2664	N2380	07/27/93	44.5	38.6	42.1	33.0	42.2	35.2	7.0	16.7	11.3
BP2665	N2381	07/27/93	67.9	60.0	63.9	48.4	64.3	52.3	8.9	25.4	41.0
BP2686	N3168	08/13/93	55.8	52.0	52.1	42.0	51.9	43.2	7.9	21.1	26.0
BP2695	N3177	08/13/93	58.0	50.0	54.3	42.5	54.4	45.7	8.1	20.2	27.5
BP2684	N3178	08/13/93	46.2	38.1	43.1	33.5	43.6	35.6	6.2	16.7	11.2
BP2694	N3166	08/13/93	46.0	39.7	43.6	33.0	43.5	34.0	7.0	16.7	10.3
BP2692	N3162	08/13/93	46.7	39.7	43.9	34.5	43.6	36.2	6.8	16.1	10.5
BP2688	N3167	08/13/93	47.4	40.7	44.8	34.5	44.9	37.2	6.5	16.8	12.3
BP2685	N3164	08/13/93	53.5	47.5	49.9	40.1	49.9	41.3	7.8	19.8	23.0
BP2689	N2399	08/13/93	71.8	62.4	67.0	51.4	67.2	55.4	9.0	24.1	47.0
BP2691	N2400	08/13/93	55.6	49.5	53.4	42.6	53.6	44.8	7.4	18.4	25.0
BP2696	N3163	08/13/93	57.6	50.7	53.4	43.4	53.4	44.8	8.5	21.3	29.0
BP2687	N3165	08/13/93	45.9	39.6	42.9	33.6	43.2	37.0	7.2	16.4	10.8
BP2690	N3161	08/13/93	49.6	43.7	45.9	35.1	46.1	37.9	7.3	19.5	13.6
BP2693	N3176	08/13/93	57.7	52.6	54.2	42.2	54.5	45.5	8.7	20.9	30.5
BP2700	N3171	08/20/93	40.7	35.6	38.0	31.4	38.1	31.6	6.1	14.1	7.1
BP2699	N3170	08/20/93	42.2	37.8	39.3	32.1	39.6	32.2	6.2	15.4	8.5
BP2698	N3172	08/20/93	35.2	27.2	32.9	29.2	33.0	4.0	4.4	5.6	27.2
BP2697	N3174	08/20/93	30.1	28.2	29.2	24.7	29.5	24.8	5.0	11.5	3.4
BP3101	N3173	08/20/93	42.5	35.4	40.0	30.6	40.4	32.8	6.5	14.0	7.8
BP3102	N3169	08/20/93	65.8	58.8	60.3	48.3	60.8	53.5	8.5	25.2	42.0
BP3202	N4521	07/20/94	43.4	36.0	41.6	32.5	41.8	33.9	6.9	13.7	8.0
BP3205	N4522	07/20/94	36.9	30.3	35.1	26.8	35.2	28.9	5.7	11.0	5.3
BP3204	N4524	07/20/94	33.0	28.4	31.6	25.9	31.7	26.6	5.4	11.5	4.2
BP3201	N4523	07/20/94	43.6	37.7	39.9	32.6	40.1	33.8	6.5	16.2	9.1
BP3203	N4525	07/20/94	44.3	38.4	41.9	32.5	41.7	33.2	7.0	16.2	9.7
BP3200	N5207	08/02/94	35.7	30.4	33.4	26.5	33.4	27.6	5.7	12.5	5.3
BP3207	N5208	08/02/94	43.6	36.1	41.1	31.0	41.0	34.5	6.4	3.9	8.3
N5216	N5217	08/09/94	54.8	46.9	51.6	40.2	51.9	42.5	6.9	19.7	26.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP3297	N5477	06/12/95	43.1	37.7	40.2	31.3	40.5	33.5	6.9	16.0	9.1
BP5506	N5483	06/13/95	50.4	43.6	47.4	37.7	47.4	40.2	7.6	18.3	20.0
BP3296	N5250	06/09/95	39.2	33.0	37.2	28.9	37.2	31.0	6.4	14.6	6.8
BP5530	N5486	06/26/95	32.1	28.2	30.7	24.7	30.8	26.2	5.2	10.4	3.4
BP5533	N5491	06/27/95	45.2	39.1	42.3	33.7	42.4	35.4	7.1	16.0	10.4
BP5537	N5495	06/27/95	46.3	39.1	42.3	31.6	42.4	36.2	6.9	15.3	10.1
BP5543	N6276	06/29/95	30.4	26.7	29.2	23.9	29.2	24.2	5.2	9.8	3.1
BP5546	N6280	06/29/95	33.1	27.2	31.5	23.7	31.5	25.6	5.2	11.6	4.1
BP5555	N6284	07/10/95	35.2	26.4	32.1	22.4	31.9	27.6	5.5	11.5	4.2
BP5556	N6285	07/10/95	32.3	28.9	29.5	24.6	29.5	26.4	5.4	7.1	3.8
BP5557	N6288	07/11/95	44.9	37.5	42.6	31.9	42.6	34.2	6.8	15.9	16.5
BP3298	N5401	06/12/95	52.8	48.8	49.9	38.4	50.0	42.9	7.5	19.2	0.0
BP3299	N5402	06/12/95	50.4	43.7	47.7	37.4	47.6	41.0	7.8	17.6	21.0
BP5504	X6038	06/13/95	38.5	32.1	36.7	28.6	36.8	30.0	5.9	12.9	6.1
BP5507	N5478	06/13/95	42.1	36.5	39.9	31.9	40.0	34.4	6.8	14.8	8.5
BP5505	N5479	06/13/95	44.0	41.1	42.3	34.9	42.4	33.7	6.7	16.0	16.0
BP5503	N5480	06/13/95	33.5	28.4	31.4	25.5	31.4	25.1	5.2	12.2	4.1
BP5502	N5481	06/13/95	30.9	27.5	29.4	25.3	29.6	25.6	5.1	11.2	3.5
BP5501	N5482	06/13/95	26.7	24.0	25.1	21.0	25.1	21.5	4.7	10.3	2.5
BP5527	N5484	06/26/95	51.9	46.2	48.3	36.6	48.6	39.8	6.8	16.2	24.0
BP5529	N5485	06/26/95	34.5	28.9	31.8	25.3	31.8	27.1	5.2	12.6	4.6
BP5528	N5487	06/26/95	34.1	28.8	31.9	25.9	32.1	27.2	5.4	11.6	4.1
BP5532	N5490	06/27/95	49.0	42.7	46.3	35.9	46.4	38.2	7.3	18.4	13.8
BP5534	N54889	06/27/95	33.9	30.2	32.1	26.4	32.4	26.7	5.4	11.4	4.3
BP5540	N5498	06/27/95	45.8	38.6	43.5	32.3	43.3	36.2	6.8	16.3	10.8
BP5539	N5497	06/27/95	49.1	43.9	46.5	35.4	46.2	38.2	7.4	17.3	13.1
BP5538	N5496	06/27/95	44.8	37.0	42.7	32.2	42.8	34.6	7.0	15.4	10.0
BP5535	N5494	06/27/95	31.9	28.2	30.2	24.4	30.1	24.9	5.4	11.9	3.9
BP5541	N5499	06/29/95	39.6	34.1	37.7	28.4	37.8	30.0	6.2	14.0	7.2
BP5542	N5500	06/29/95	50.9	45.0	49.0	38.9	49.1	41.2	7.8	18.9	17.0
BP5544	N6279	06/29/95	45.3	41.7	43.0	39.1	43.2	36.2	6.4	17.7	12.0

Tag Number		Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
BP5545	N6278	06/29/95	34.4	30.0	33.1	26.6	32.7	27.5	5.6	12.2	4.7
BP5547	N6277	06/29/95	34.1	29.3	32.6	25.1	32.6	25.9	5.3	11.5	4.1
BP5549	N6282	06/29/95	27.3	23.5	26.2	20.9	26.0	22.3	4.8	9.3	2.4
BP5548	N6281	06/29/95	28.4	25.4	27.1	22.6	27.2	22.2	4.9	10.7	3.0
BP5558	N6286	07/11/95	54.2	49.5	50.3	41.4	50.4	42.0	8.2	19.8	28.0
BP5559	N6287	07/11/95	46.2	38.1	44.1	34.9	44.3	36.6	7.2	15.4	18.5
		Number	190	190	190	190	190	190	190	190	190
		Median	42.5	36.5	40.1	31.4	40.5	33.5	6.4	15.4	8.8
		Mean	43.7	38.0	41.1	32.4	41.3	34.2	6.5	15.8	12.9
		Std. Dev.	10.0	9.1	9.2	7.0	9.2	8.1	1.2	4.1	10.5
		Minimum	26.7	23.5	25.1	20.9	25.1	4.0	4.0	3.9	0.0
		Maximum	71.8	62.4	67.0	52.0	67.2	56.0	9.9	27.0	50.0

Table 21. Morphometrics of loggerheads from the Sabellariid worm reefs, Indian River Co., Florida.

Tag Number	Capture Date	Curved Carapace Length	Curved Carapace Width	Standard Carapace Length	Standard Carapace Width	Total Carapace Length	Plastron Length	Head Width	Body Depth	Weight
X749 X751	07/10/89	67.0	63.8	61.3	50.7	63.5	46.0	12.1	25.2	37.0
BP1463 X1562	08/01/90	53.7	50.4	49.7	42.8	50.4	39.4	10.2	18.0	23.0
BP1472 X1570	08/16/90	62.8	61.1	57.5	48.4	57.5	45.6	12.1	26.3	37.0
BBA714 X2227	07/10/91	62.4	59.3	58.0	48.3	58.5	44.5	11.2	23.8	32.5
BP2616 N2253	07/02/93	67.9	64.3	62.7	49.0	62.9	49.0	12.7	28.1	48.0
N5492	06/27/95	97.2	92.5	92.9	71.7	92.9	71.7	35.9	----	17.9

Table 22. Descriptive statistics of the June and July CPUE data combined for the years 1983-86, 1988-90, 1993-95; for netting efforts in the Indian River Lagoon System, Sebastian Inlet, Indian River Co., Florida.

Loggerhead

Span of Years	Number	Mean	Median	Std. Deviation	Range
1983-85	48	0.66	0.51	0.70	0.00 - 2.65
1988-90	47	0.53	0.37	0.66	0.00 - 2.64
1993-95	36	0.80	0.52	1.06	0.00 - 4.77

Green Turtle

Span of Years	Number	Mean	Median	Std. Deviation	Range
1983-85	48	0.41	0.00	0.61	0.00 - 3.04
1988-90	47	1.14	1.04	0.95	0.00 - 4.58
1993-95	36	1.00	0.80	0.89	0.00 - 3.56

Table 23. Descriptive statistics of the seasonal CPUE data for netting efforts in the Indian River Lagoon System, Sebastian Inlet, Indian River Co., Florida from July, 1982 through June, 1996.

Loggerhead

Season	Number	Mean	Median	Std. Deviation	Range
Summer	197	0.70	0.48	0.95	0.00 - 5.21
Fall	38	0.78	0.47	0.88	0.00 - 3.11
Winter	41	0.80	0.95	0.86	0.00 - 3.62
Spring	177	0.78	0.58	0.98	0.00 - 7.33

Green Turtle

Season	Number	Mean	Median	Std. Deviation	Range
Summer	197	0.85	0.66	0.93	0.00 - 5.09
Fall	38	2.04	1.24	2.13	0.00 - 9.09
Winter	41	4.80	1.85	7.50	0.00 - 35.17
Spring	177	1.19	0.73	1.67	0.00 - 12.34

Table 24. Results of testosterone analysis from samples taken from juvenile green turtles captured over Sabellariid worm reefs in Indian River County, Florida, in 1995.

Tag Numbers	Date	Species	Carapace Length sl (cm)	Weight (kg)	Sex
BP3296 N5250	6/9/95	Chelonia mydas	37.2	6.8	F
BP3297 N5477	6/12/95	Chelonia mydas	40.2	9.1	F
BP3298 N5401	6/12/95	Chelonia mydas	49.9	-	F
BP3299 N5402	6/12/95	Chelonia mydas	47.7	21.0	M
BP5502 N5481	6/13/95	Chelonia mydas	29.4	3.5	F
BP5503 N5480	6/13/95	Chelonia mydas	31.4	4.1	F
BP5504 X6038	6/13/95	Chelonia mydas	36.7	6.1	F
BP5505 N5479	6/13/95	Chelonia mydas	42.3	16.0	F
BP5506 N5483	6/13/95	Chelonia mydas	47.4	20.0	M
BP5507 N5478	6/13/95	Chelonia mydas	39.9	8.5	M
BP5527 N5484	6/26/95	Chelonia mydas	48.3	24.0	M
BP5528 N5487	6/26/95	Chelonia mydas	31.9	4.1	M
BP5529 N5485	6/26/95	Chelonia mydas	31.8	4.6	F
BP5530 N5486	6/26/95	Chelonia mydas	30.7	3.4	F
BP5532 N5490	6/27/95	Chelonia mydas	46.3	13.8	F
BP5533 N5491	6/27/95	Chelonia mydas	42.3	10.4	U
BP5534 N5489	6/27/95	Chelonia mydas	32.1	4.3	M
BP5537 N5495	6/27/95	Chelonia mydas	42.3	10.1	M
BP5538 N5496	6/27/95	Chelonia mydas	42.7	10.0	U
BP5539 N5497	6/27/95	Chelonia mydas	46.5	13.1	M
BP5540 N5498	6/27/95	Chelonia mydas	43.5	10.7	F
BP5541 N5499	6/29/95	Chelonia mydas	37.7	7.2	M
BP5542 N5500	6/29/95	Chelonia mydas	49.0	17.0	F
BP5543 N6276	6/29/95	Chelonia mydas	29.2	3.1	M
BP5544 N6279	6/29/95	Chelonia mydas	43.0	12.0	M
BP5545 N6278	6/29/95	Chelonia mydas	33.1	4.7	M
BP5546 N6280	6/29/95	Chelonia mydas	31.5	4.1	F
BP5547 N6277	6/29/95	Chelonia mydas	32.6	4.1	M
BP5548 N6281	6/29/95	Chelonia mydas	27.1	3.0	U
BP5549 N6282	6/29/95	Chelonia mydas	26.2	2.4	F
BP5555 N6284	7/10/95	Chelonia mydas	32.1	4.2	F
BP5556 N6285	7/10/95	Chelonia mydas	29.5	3.8	F
BP5557 N6288	7/11/95	Chelonia mydas	42.6	16.5	F
BP5558 N6286	7/11/95	Chelonia mydas	50.3	28.0	M
BP5559 N6287	7/11/95	Chelonia mydas	44.1	18.5	F
		18/35 females	51.4%		
		14/35 males	40.0%		
		3/35 unknown	8.6%		

Table 25. Results of testosterone analysis from samples taken from juvenile green turtles and subadult loggerheads captured in the Indian River Lagoon, Indian River County, Florida, 1993 through 1995.

Tag Numbers	Date	Species	Carapace Length sl (cm)	Weight (kg)	Sex
1993					
BP2672 N2388	8/3/93	Chelonia mydas	38.3	7.0	M
BP3117 N3048	12/21/93	Chelonia mydas	55.9	29.0	F
1994					
BP3167 N3192	6/2/94	Chelonia mydas	29.1	3.1	U
BP3196 N5202	7/22/94	Chelonia mydas	35.4	6.7	U
BP3208 N5239	11/25/94	Chelonia mydas	59.4	30.2	U
BP3210 N5220	11/25/94	Chelonia mydas	49.5	20.2	F
BP3212 N5222	11/25/94	Chelonia mydas	32.8	4.7	M
BP3213 N5223	11/25/94	Chelonia mydas	30.1	3.5	F
BP3214 N5224	11/25/94	Chelonia mydas	29.2	3.2	F
BP3215 N5225	11/25/94	Chelonia mydas	(est) 50.0	20.4	F
N5221	11/25/94	Chelonia mydas	33.5	5.4	F
		5/9 females	55.5%		
		1/9 male	11.1%		
		3/9 unknown	33.3%		
1995					
BP3164 X6001	5/8/95	Caretta caretta	60.6	43.0	M
BP3260 X6003	5/8/95	Chelonia mydas	48.4	20.0	F
BP3261 X6004	5/8/95	Chelonia mydas	37.7	7.7	F
BP3262 X6007	5/9/95	Chelonia mydas	47.4	19.0	F
BP3263 X6008	5/11/95	Chelonia mydas	33.6	5.5	F
BP3264 X6009	5/11/95	Caretta caretta	55.0	36.0	M
BP3265 X6010	5/15/95	Chelonia mydas	60.1	34.0	F
BP3267 X6006	5/16/95	Chelonia mydas	49.9	20.0	M
BP3268 X6012	5/16/95	Chelonia mydas	56.1	30.0	F
BP3269 X6013	5/16/95	Chelonia mydas	53.6	27.0	F
BP3270 X6014	5/16/95	Chelonia mydas	39.1	7.5	F
BP3279 X6018	5/22/95	Chelonia mydas	35.5	5.8	U
BP3280 X6019	5/22/95	Chelonia mydas	33.7	4.8	M
BP3282 X6020	5/22/95	Chelonia mydas	42.8	9.0	F
BP3283 X6021	5/26/95	Chelonia mydas	36.3	6.7	F
BP3284 X6022	5/30/95	Chelonia mydas	28.9	2.9	F
BBE005 QQJ020	6/6/95	Caretta caretta	63.0	50.0	F
BP3288 N5271	6/6/95	Chelonia mydas	40.3	9.3	M
BP3291 X6024	6/6/95	Chelonia mydas	36.3	6.7	U
BP3293 X6034	6/6/95	Chelonia mydas	34.2	5.5	M
BP3290 X6035	6/8/95	Chelonia mydas	41.1	8.8	F
BP3294 X6036	6/8/95	Chelonia mydas	57.8	31.0	M

Table 25. continued

Tag Numbers	Date	Species	Carapace Length sl (cm)	Weight (kg)	Sex
BP3295 X6037	6/8/95	Chelonia mydas	33.4	5.0	F
BP5508 X6040	6/15/95	Chelonia mydas	33.0	4.8	F
BP5513 X6041	6/15/95	Chelonia mydas	36.9	6.7	M
BP5522 X6049	6/20/95	Caretta caretta	56.5	35.0	F
BP5523 X6050	6/20/95	Caretta caretta	58.7	38.0	F
BP5524 X6058	6/20/95	Caretta caretta	76.3	69.0	F
BP5525 X6059	6/20/95	Chelonia mydas	37.7	6.7	F
BP5531 N5488	6/26/95	Chelonia mydas	53.7	29.0	F
BP5550 N6283	6/30/95	Caretta caretta	59.8	40.0	U
BP5553 X6033	7/6/95	Chelonia mydas	43.1	12.0	M
BP5554 X6060	7/7/95	Chelonia mydas	31.8	4.7	F
BP5567 X6083	7/25/95	Caretta caretta	61.2	41.0	F
BP5568 X6084	7/25/95	Caretta caretta	55.6	35.0	F
BP5569 X6085	7/25/95	Caretta caretta	62.9	41.0	F
BP5570 X6086	7/25/95	Chelonia mydas	39.9	8.9	F
BP5573 X6089	7/31/95	Chelonia mydas	42.6	9.5	F
BP5574 X6088	7/31/95	Chelonia mydas	49.9	22.0	F
BP5575 X6087	7/31/95	Chelonia mydas	32.3	4.7	F
BP5571 X6090	8/4/95	Chelonia mydas	30.9	4.2	F
BP5572 X6091	8/4/95	Chelonia mydas	33.1	5.0	F
BP3163 X4335	8/11/95	Caretta caretta	49.4	39.0	F
BP5576 X6068	8/11/95	Chelonia mydas	38.4	6.9	F
BP5583 X6093	8/15/95	Chelonia mydas	41.6	10.5	F
BP5585 X6094	8/15/95	Chelonia mydas	54.3	30.0	F
BP5586 X6095	9/11/95	Chelonia mydas	32.7	4.8	M
BP5587 X6096	9/11/95	Chelonia mydas	49.5	23.0	F

Green turtles

27/37 females	72.9%
8/37 males	21.6%
2/37 unknown	5.4%

Loggerheads

8/11 females	72.7%
2/11 males	18.1%
1/11 unknown	9.0%

Table 26. Remote recoveries of juvenile green turtles tagged and released by U.C.F. in the Indian River Lagoon system, Brevard and Indian River Counties, Florida.

Tag Numbers	Original Tag Date	Location	Recovery Date	Recovery Location	Condition
A6487	20-Jan-77	Mosquito Lagoon	Mar-82	Set Net Point, Bluefields, Nicaragua	consumed
PPJ073 PPJ074	19-Jan-87	Indian River Lagoon	7-Sep-93	Man O' War Cay; Nicaragua.	consumed
PPJ149 PPJ150	21-Apr-87	Indian River Lagoon	17-Sep-93	Cayo Burro, Cuba	consumed
PPN748 PPN749	2-Dec-87	Indian River Lagoon	3-Dec-94	Eastern Reef, Nicaragua.	consumed
BBA616 PPN873	26-Dec-89	Mosquito Lagoon	18-Nov-91	Mullins River Village, Stann Creek District; Belize	consumed
BBA668 QQB249	26-Dec-89	Mosquito Lagoon	3-Dec-95	Set Net, Nicaragua.	slaughtered; to market
BBA617 PPN894	27-Dec-89	Mosquito Lagoon	< May-94	"Recovered in Cuba" only info known	consumed
BBA685 QQB255	27-Dec-89	Mosquito Lagoon	no date	"Recovered in Cuba" only info known	assumed dead
					assumed dead

Table 27. Remote recoveries of net-captured marine turtles tagged and released by U.C.F. from nearshore Sabellariid worm reefs, Indian River County, Florida.

Tag Numbers	Original Tag Date	Species	Recovery Date	Recovery Location	Condition
BP594 X798	10/18/89	E. imbricata	8/4/96	Area of Walker's Cay, Bahamas	unknown; letter sent

Table 28. Domestic recoveries of juvenile green turtles tagged and released by U.C.F. in the Indian River Lagoon system (IRL), Brevard and Indian River Counties, Florida.

Tag Numbers	Original Tag Date	Location	Recovery Date	Recovery Location	Condition
BBA550	26-Dec-89	Mosquito Lagoon	13-Sep-93	TAG ONLY; Martin Co.; inside St. Lucie inlet; south jetty	no info about turtle
BBA598 QQB220	26-Dec-89	Mosquito Lagoon	11-Mar-90	Volusia Co.; Playalinda Beach	dead
BP3121 N3107	21-Dec-93	Indian River Lagoon	19-Jan-95	St. Lucie Power Plant	good
BP4533 X4732	14-Mar-96	Indian River Lagoon	28-Apr-96	IRL, Indialantic; prop-killed	dead
BP4554 X4754	15-Mar-96	Indian River Lagoon	4-Jun-96	IRL, May's Marina, Sebastian; crab trap entanglement	dead
BP4558	15-Mar-96	Indian River Lagoon	12-May-96	TAG ONLY; found on small island at Sebastian Inlet	no info about turtle
BP4581 X4781	15-Mar-96	Indian River Lagoon	27-Aug-96	IRL, 1st spoil island south of Sebastian Bridge; prop-killed	dead
BP553 X759	20-Jul-89	Indian River Lagoon	15-Jan-90	2.5 mi N of Ft. Pierce inlet, constriction marks on neck	dead
BP5689 N6370	22-Feb-96	Indian River Lagoon	10-Apr-96	IRL, 4.3 mi north of Wabasso	dead
NNZ459 K6218	23-Jul-86	Indian River Lagoon	22-Mar-87	IRL spoil island; Ft. Pierce; possible gunshot	dead
PPJ027 PPJ028	10-Dec-86	Indian River Lagoon	2-May-88	IRL, 5 miles south of Vero Beach	dead
PPJ156 PPN820	25-Jun-86	Indian River Lagoon	24-Jun-94	IRL, Pt. St. John; prop injury; to Sea World; Hidden Harbor	Key West Aquarium; will not be released
X232 X233	16-Jun-88	Indian River Lagoon	7-Feb-89	IRL, south of Sebastian inlet on east shore	dead
X6022	30-May-95	Indian River Lagoon	8-Jun-95	TAG ONLY found in catfish stomach; Sebastian Bridge	no info about turtle
X6034	6-Jun-95	Indian River Lagoon	26-Aug-96	TAG ONLY; found on south Hutchinson Island	no info about turtle

Table 29. Domestic recoveries of juvenile green turtles tagged and released by U.C.F. over nearshore Sabellariid worm reefs, Indian River County, Florida.

Tag Numbers	Original Tag Date	Recovery Date	Recovery Location	Condition
BP5501 N5482	6/13/95	2/27/96	Indian River County, Ambersand Beach	dead
BP5534 N5489	6/27/95	3/28/96	Indian River County, Ambersand Beach; monofilament entanglement.	dead
BP5559 N6287	7/11/95	9/20/95	St Lucie Power Plant	healthy; active
BP3296 N5250	6/9/95	10/8/95	St Lucie Power Plant	good

Table 30. Juvenile green turtles tagged by others and recaptured by U.C.F. in the Indian River Lagoon and nearshore reefs, Indian River County, Florida.

Tag Numbers	Original Tag Date	Original Tag Location	U.C.F. Recovery Date	Recovery Location	Carapace SL length (cm)	Weight (kg)
BBA812 QQC618	10-Jan-91	Sea World rehab/incidental dredge catch	7-Jun-91	lagoon	37.7	7.3
BBE181 QQJ214	17-Nov-94	St. Lucie Power Plant	21-Nov-95	lagoon	32.6	5.1
BBE233 QQJ274	26-Dec-94	St. Lucie Power Plant	16-May-95	lagoon	29.1	2.9
BBE606 SSM018	9-May-95	St. Lucie Power Plant	29-Jul-96	lagoon	36.1	5.4
BP3127 N3069	15-Jan-94	Trident Basin, Pt. Canaveral	18-Feb-94	lagoon	48.1	20.0
PPG677 BP542	1-Jun-88	FDNR headstart/released Stuart, FL	6-Jul-89	reef	33.9	5.2
PPG677 BP542	1-Jun-88	FDNR headstart/released Stuart, FL	10-Aug-90	reef	37.8	7.6
PPJ455 X107	22-Jul-87	Marineland 1985 headstart/released MINWR, oceanside	17-Mar-88	lagoon	34.2	6.0
PPJ497 PPN620	26-Oct-88	FDNR Jensen Bch. headstart/Marineland/released IRL, Titusville	16-Jan-89	lagoon	37.5	4.8
PPJ497 PPN620 BP520	26-Oct-88	FDNR Jensen Bch. headstart/Marineland/released IRL, Titusville	21-Mar-89	lagoon	37.0	6.5
PPV430 BP519	20-Jun-88	FDNR Jensen Bch. headstart/released 7 miles off Jupiter	21-Mar-89	lagoon	35.1	6.1

Table 31. Domestic recoveries of subadult loggerheads tagged and released by U.C.F. in the Indian River Lagoon (IRL), Brevard and Indian River Counties, Florida.

Tag Numbers	Original Tag Date	Location	Recovery Date	Recovery Location	Condition
K3706	7/14/83	IndianRiver Lagoon	3/4/96	Hutchinson Island, oceanside.	dead
PPJ100 NNW687 PPN722 X16	5/30/86	IndianRiver Lagoon	4/3/91	IR Co.; washed up on Conn Beach, Vero Beach	dead (13 captures by U.C.F.)
BP1473 NNW698	6/10/86	IndianRiver Lagoon	3/2/91	Hutchinson Is; 10.3 km S Ft. Pierce inlet; prop-killed	dead
PPJ071 PPJ072	1/15/87	IndianRiver Lagoon	1/9/88	IRL, spoil island north of Sebastian Bridge	dead
PPJ133 PPJ134	3/17/87	IndianRiver Lagoon	4/18/87	IRL, 1st spoil island west of Sebastian Inlet; prop-killed	dead
PPJ143 PPJ144	4/9/87	IndianRiver Lagoon	10/14/94	Floating off FL 28 10 39N 80 12 84W	dead
PPJ184 PPJ185	5/22/87	IndianRiver Lagoon	8/15/88	Pepper Park, beachside; 2 miles N of Ft. Pierce Inlet	dead
PPN801 PPN802	2/18/88	IndianRiver Lagoon	4/2/88	IRL, N of inlet in Campbell's Cove; maybe mutilated	dead
PPN809 PPN810	3/1/88	IndianRiver Lagoon	3/9/88	IRL, Sebastian canal marker 71; prop-killed	dead
X139 X140	3/31/88	IndianRiver Lagoon	5/30/93	Sebastian inlet; prop-killed	dead
X145 X146	4/22/88	IndianRiver Lagoon	4/19/94	S. Brevard beach; longline hook, growth over both eyes	dead
X255 X256	6/28/88	IndianRiver Lagoon	1/4/90	IRL, 2 miles south of Sebastian Inlet	dead
X339 X340	9/8/88	IndianRiver Lagoon	9/5/92	Volusia Co.; Ponce Inlet; emaciated, floater	dead
BP583 PPJ031	9/7/89	IndianRiver Lagoon	9/7/89	IRL, 2 miles south of Sebastian Inlet	Marineland/release 10/21/92
PPN852	12/26/89	Mosquito Lagoon	11/4/91	U.C.F. recaptured 3 km south of Sebastian Inlet	alive; unknown fate
BP1475 X1575	9/4/90	IndianRiver Lagoon	4/3/92	IR Co; 4 km S of Sebastian Inlet; injested monofilament	good
BP3181 N3196	6/3/94	IndianRiver Lagoon	3/1/95	IRL, 1 1/2 mi. south of Sebastian Inlet; prob boat killed	dead
BP5676 N6373	2/22/96	IndianRiver Lagoon	4/2/96	IRL, 1 mile south of Spessard Holland golf course	dead

Table 32. Loggerheads tagged by others and recaptured by U.C.F. in the Indian River Lagoon, Indian River County, Florida.

Tag Numbers	Original Tag Date	Original Tag Location	U.C.F. Recovery Date	Recovery Location	Carapace SL length (cm)	Weight (kg)
AAB662 AAB663	5-Dec-81	NMFS Channel survey, Pt. Canaveral, FL	28-Jul-82	lagoon	61.9	40.9
AAJ163 AAJ164 PPJ167 PPJ168	15-Oct-85	St. Lucie Power Plant	30-Apr-87	lagoon	75.5	55.0
AAJ163 AAJ164 PPJ167 PPJ168	15-Oct-85	St. Lucie Power Plant	18-Jun-87	lagoon	75.9	61.0
AAJ603 PPN492 X267	19-May-88	St. Lucie Power Plant	29-Jun-88	lagoon	56.6	29.0
BBA764 BBC360 PPW648	9-Apr-91	St. Lucie Power Plant	15-May-92	lagoon	52.8	32.0
BBA764 BBC360 PPW648	9-Apr-91	St. Lucie Power Plant	16-Jul-92	lagoon	53.9	31.5
BBA856 QQC635	5-Jun-91	Marinelife Center Juno Bch/educational/released IRL	7-Jul-92	lagoon	50.9	26.0
BBA856 QQC635	5-Jun-91	Marinelife Center Juno Bch/educational/released IRL	17-Jul-92	lagoon	52.3	27.0
BBA856 QQC635	5-Jun-91	Marinelife Center Juno Bch/educational/released IRL	5-Aug-93	lagoon	58.9	38.0
BBC360 PPW648	9-Apr-91	St. Lucie Power Plant	26-Jun-91	lagoon	52.5	29.5
BBC427 QQN422	27-Jan-92	St. Lucie Power Plant	2-Jun-92	lagoon	58.7	37.0
BBC633 QQB534 QQB535	18-Mar-92	Virginia educational/released IRL s. of Sebastian Inlet	4-Dec-92	lagoon	53.4	28.0
BBE005 QQJ020	9-Feb-94	St. Lucie Power Plant	6-Jun-95	lagoon	63.0	50.0
PPY028 BP1426	20-Sep-89	Pound net release/Long Island Sound, NY	27-Jun-90	lagoon	51.4	23.0
PPY028 BP1426	20-Sep-89	Pound net release/Long Island Sound, NY	14-May-90	lagoon	49.9	23.0
QQH730 QQH731	26-Jan-91	Pt Canaveral, FL/NMFS trawl tests	16-Jul-91	lagoon	58.3	38.0

Table 33. List of NMFS-tagged turtles encountered while conducting routine research activities, 1982 through 1996. Tags applied by other researchers.

Tag Numbers	Recapture Date	Species	Recapture location*	Carapace Length OC (cm)	Carapace Width OC (cm)	Carapace Length SL (cm)	Carapace Width SL (cm)	Greatest Length SL (cm)	Plastron Length (cm)	Body Depth (cm)	Head Width (cm)	Wt. (kg)
AAB304	7/20/83	Caretta caretta	beach	95.0	89.5	88.2	70.2	89.7	-	-	18.7	-
AAB662 AAB663	7/28/82	Caretta caretta	lagoon	68.7	65.8	61.9	51.2	62.7	50.0	-	12.7	40.9
AAC403 AAC404	6/23/84	Caretta caretta	beach	101.1	93.3	93.7	74.1	96.0	-	-	23.8	-
AAJ163 AAJ164 PPJ167 PPJ168	4/30/87	Caretta caretta	lagoon	80.2	77.2	75.5	60.0	78.5	59.0	27.7	14.5	55.0
AAJ163 AAJ164 PPJ167 PPJ168	6/18/87	Caretta caretta	lagoon	80.7	77.4	75.9	61.8	77.8	58.5	25.8	13.9	61.0
AAJ603 PPN492 X267	6/29/88	Caretta caretta	lagoon	60.3	58.8	56.6	46.5	57.0	43.5	22.3	11.9	29.0
AAL015 N4315 N4316	5/11/94	Caretta caretta	beach	95.6	89.1	92.3	71.1	94.3	-	-	17.7	-
AAM192 AAM193 AAM194	6/7/82	Caretta caretta	beach	96.8	95.2	90.9	70.7	91.5	69.6	-	19.9	-
AAM237 AAM238 AAM239	6/8/82	Caretta caretta	beach	93.9	89.4	86.6	86.6	88.2	-	-	16.2	-
AAM324 AAM325 AAM326	6/24/82	Caretta caretta	beach	103.5	94.9	92.9	71.3	95.2	-	-	17.5	-
AAM504 D4251	5/19/88	Caretta caretta	beach	103.4	98.0	97.2	75.2	100.0	-	-	21.9	-
AAV019 D4054	7/9/85	Caretta caretta	beach	102.7	94.2	96.8	68.6	98.4	-	-	20.3	-
AAV185 D4112	8/1/85	Caretta caretta	beach	95.9	83.1	87.2	62.4	88.1	-	-	17.3	-
AAV187 D4062	7/30/85	Caretta caretta	beach	98.4	88.9	89.7	65.8	91.7	-	-	18.1	-
AAV189	7/20/91	Caretta caretta	beach	-	-	-	-	-	-	-	-	-
AAV284 N4680	7/14/94	Chelonia mydas	beach	107.7	95.5	-	-	-	-	-	-	-
AAV302 X3182	5/29/92	Caretta caretta	beach	109.4	97.9	103.8	78.8	106.0	-	-	23.8	-
AAV345 X4086	6/26/92	Chelonia mydas	beach	110.5	96.9	104.4	77.5	104.6	-	-	16.6	-
AAV345	7/7/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV345 X4086	7/8/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV345 X4086	7/20/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV345 X4086	8/2/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV345 X4806	8/16/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV345	7/21/94	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV345 N5318	8/7/94	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
AAV376 AAV377	7/23/90	Caretta caretta	beach	102.5	101.0	-	-	-	-	-	-	-
AAV376 AAV377	6/1/93	Caretta caretta	beach	103.5	98.9	97.0	79.5	101.2	-	-	23.4	-
AAV380 AAV381	6/23/87	Caretta caretta	beach	100.5	92.0	92.5	70.0	94.3	-	-	20.3	-
AAV380 AAV381	6/2/90	Caretta caretta	beach	101.6	94.3	93.1	69.0	94.6	-	-	21.0	-
BBA764 BBC360 PPW648	5/15/92	Caretta caretta	lagoon	58.0	54.4	52.8	44.8	53.8	42.7	23.2	12.1	32.0
BBA764 BBC360 PPW648	7/16/92	Caretta caretta	lagoon	57.7	53.8	53.9	45.4	54.6	42.8	23.6	12.2	31.5
BBA812 QQC618	6/7/91	Chelonia mydas	lagoon	39.3	36.8	37.7	32.9	37.9	32.2	14.9	6.4	7.3
BBA856 QQC635	7/7/92	Caretta caretta	lagoon	55.9	49.7	50.9	40.5	52.7	42.1	21.8	10.0	26.0
BBA856 QQC635	7/17/92	Caretta caretta	lagoon	57.0	49.6	52.3	41.5	52.7	41.6	20.1	10.4	27.0

Table 33. continued

Tag Numbers	Recapture Date	Species	Recapture location*	Carapace Length OC (cm)	Carapace Width OC (cm)	Carapace Length SL (cm)	Carapace Width SL (cm)	Greatest Length SL (cm)	Plastron Length (cm)	Body Depth (cm)	Head Width (cm)	Wt. (kg)
BBA856 QQC635	8/5/93	Caretta caretta	lagoon	63.0	55.4	58.9	45.8	59.9	47.5	23.6	12.0	38.0
BBC360 PPW648	6/26/91	Caretta caretta	lagoon	57.2	53.8	52.5	45.0	53.0	42.0	21.8	11.5	29.5
BBC385 N6040	5/26/95	Caretta caretta	beach	95.0	91.0	-	-	-	-	-	-	-
BBC392 PPW680	6/30/91	Caretta caretta	beach	94.6	83.6	88.2	68.3	90.4	-	-	21.0	-
BBC392 PPW680	7/13/91	Caretta caretta	beach	94.4	84.5	87.9	69.5	90.7	-	-	20.0	-
BBC427 QQN422	6/2/92	Caretta caretta	lagoon	63.0	57.9	58.7	47.4	59.6	44.7	23.2	13.0	37.0
BBC492 QQN504	7/22/94	Chelonia mydas	beach	101.4	94.0	95.2	74.1	96.3	-	-	13.2	-
BBC492 QQN504	7/22/94	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
BBC633 QQB534 QQB535	12/4/92	Caretta caretta	lagoon	58.1	48.4	53.4	39.9	54.3	43.1	18.4	10.6	28.0
BBC765 N3072	1/16/94	Chelonia mydas	trident	33.7	-	32.1	-	32.3	27.1	11.4	5.1	3.8
BBC765 N3072	6/18/95	Chelonia mydas	trident	44.5	-	42.4	-	42.5	35.3	15.3	6.5	9.2
BBC920 SSA212 N5273	2/11/95	Chelonia mydas	trident	34.8	29.4	33.5	26.4	33.6	27.7	12.4	5.5	4.4
BBC920 N5273	3/12/95	Chelonia mydas	trident	34.9	29.3	33.5	26.1	33.5	27.9	12.0	5.5	4.4
BBD652 SSA363	6/20/96	Caretta caretta	beach	88.3	81.2	-	-	-	-	-	-	-
BBD656 SSA367	6/27/93	Caretta caretta	beach	-	-	-	-	-	-	-	-	-
BBE005 QQJ020	6/6/95	Caretta caretta	lagoon	71.9	66.8	63.0	54.2	64.2	49.5	24.4	12.9	50.0
BBE181 QQJ214	11/21/95	Chelonia mydas	lagoon	34.2	30.4	32.6	26.7	32.6	27.7	12.5	5.6	5.1
BBE206 QQJ249	3/11/95	Chelonia mydas	trident	30.9	26.9	29.1	23.9	29.3	24.8	10.6	5.0	3.1
BBE206 QQJ249	4/15/95	Chelonia mydas	trident	29.9	26.7	28.7	23.7	28.9	24.2	11.0	4.9	3.1
BBE233 QQJ274	5/16/95	Chelonia mydas	lagoon	30.6	27.3	29.1	23.6	29.1	23.6	10.8	4.9	2.9
BBE572 SSN682	6/17/95	Caretta caretta	beach	-	-	-	-	-	-	-	-	-
BBE606 SSM018	7/29/96	Chelonia mydas	lagoon	38.8	31.7	36.1	27.4	36.1	29.3	12.2	5.9	5.4
MS3341	6/28/82	Caretta caretta	beach	105.7	95.1	96.8	67.2	98.4	-	-	18.1	-
NNZ487 NNZ486 SI3404	7/31/86	Chelonia mydas	beach	109.0	92.4	102.8	80.2	103.9	-	-	13.7	-
NNZ487 SI3404 H4487	7/22/88	Chelonia mydas	beach	108.3	96.5	100.4	78.2	101.1	-	-	12.1	-
NNZ487 SI3404 K8996	6/28/90	Chelonia mydas	beach	107.5	95.1	101.8	77.3	102.1	-	-	13.0	-
NNZ487 SI3404 X2868	6/16/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 X2868	6/17/92	Chelonia mydas	beach	107.2	94.4	101.9	79.9	102.7	-	-	13.7	-
NNZ487 SI3404 X2868	6/30/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 X2868	7/12/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 X2868	7/25/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 X2868	7/26/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 X2868	8/8/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 X2868	8/21/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ487 SI3404 N4651	7/9/94	Chelonia mydas	beach	108.8	-	-	-	-	-	-	-	-

Table 33. continued

Tag Numbers	Recapture Date	Species	Recapture location*	Carapace Length OC (cm)	Carapace Width OC (cm)	Carapace Length SL (cm)	Carapace Width SL (cm)	Greatest Length SL (cm)	Plastron Length (cm)	Body Depth (cm)	Head Width (cm)	Wt. (kg)
NNZ496 NNZ498 SI3361	6/17/86	Chelonia mydas	beach	114.2	101.6	106.4	78.7	107.1	-	-	14.2	-
NNZ496 SI3361 X4264	7/12/92	Chelonia mydas	beach	113.7	102.8	107.3	82.1	107.5	-	-	-	-
NNZ496 SI3361 X4264	7/25/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ496 SI3361 X4264	8/21/92	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ496 SI3361 X4264	7/20/94	Chelonia mydas	beach	115.6	104.9	-	-	-	-	-	-	-
NNZ496 SI3361 N9115 N9116	7/18/96	Chelonia mydas	beach	-	-	-	-	-	-	-	-	-
NNZ499 NNZ500 SI2570	7/15/86	Chelonia mydas	beach	110.5	102.1	102.2	81.0	104.0	-	-	-	-
PPD178 PPD179	7/30/89	Caretta caretta	beach	-	-	-	-	-	-	-	13.5	-
PPF816 K9908	5/30/91	Caretta caretta	beach	104.5	95.5	100.0	74.5	102.3	-	-	-	-
PPG677 BP542	7/6/89	Chelonia mydas	reef	35.6	30.5	33.9	28.3	34.1	29.0	12.2	21.7	-
PPG677 BP542	8/10/90	Chelonia mydas	reef	39.2	34.3	37.8	31.3	38.1	32.1	13.8	5.4	5.2
PPH816 N4661	7/5/94	Caretta caretta	beach	106.1	95.8	103.0	74.8	103.5	-	-	6.2	7.6
PPJ248 BP2570 X360	3/9/93	Chelonia mydas	lagoon	61.8	54.8	58.1	46.1	58.1	49.0	22.9	21.8	-
PPJ455 X107	3/17/88	Chelonia mydas	lagoon	36.2	33.0	34.2	27.4	34.2	28.0	13.5	8.6	36.0
PPJ497 PPN620	1/16/89	Chelonia mydas	lagoon	39.1	33.0	37.5	28.8	37.8	30.5	14.9	5.8	6.0
PPJ497 PPN620 BP520	3/21/89	Chelonia mydas	lagoon	39.4	32.2	37.0	28.5	37.2	30.5	14.0	6.0	4.8
PPV430 BP519	3/21/89	Chelonia mydas	lagoon	37.4	31.3	35.1	26.9	35.1	29.5	13.6	5.5	6.5
PPW603 N2097	7/10/93	Caretta caretta	beach	-	-	-	-	-	-	-	5.8	6.1
PPY028 BP1426	5/14/90	Caretta caretta	lagoon	55.5	53.1	49.9	44.2	50.0	39.3	21.1	9.0	23.0
PPY028 BP1426	6/27/90	Caretta caretta	lagoon	55.7	53.1	51.4	45.6	52.1	40.0	20.5	10.2	23.0
PPY586 PPY587	7/6/93	Caretta caretta	beach	102.5	94.6	94.5	65.4	95.3	-	-	19.0	-
QQE679 QQE680	7/4/92	Caretta caretta	beach	101.7	0.0	96.1	76.1	-	-	-	-	-
QQE834	6/16/94	Caretta caretta	beach	90.4	86.7	87.2	70.0	89.5	-	-	18.2	-
QQH730 QQH731	7/16/91	Caretta caretta	lagoon	63.0	61.6	58.3	48.6	59.2	45.2	24.1	12.4	38.0
QQH858 QQH859	6/23/91	Caretta caretta	beach	-	-	-	-	-	-	-	-	-
QQH871 QQH872	7/17/91	Caretta caretta	beach	89.0	81.5	83.4	63.2	84.9	-	-	17.8	-
QQH896	6/22/95	Caretta caretta	beach	-	-	-	-	-	-	-	-	-
QQM149 QQM150 N6348	8/21/95	Caretta caretta	beach	94.2	83.9	87.2	64.3	88.6	-	-	16.0	-
QQP124 N4657	7/1/94	Chelonia mydas	beach	106.8	92.6	98.8	70.4	100.0	-	-	11.7	-
QQR433	6/13/96	Caretta caretta	beach	91.9	80.8	85.9	64.4	-	-	-	18.1	-
QQR540 QQR544	7/19/93	Caretta caretta	beach	-	-	-	-	-	-	-	-	-
SSA529 BP3272	5/19/95	Chelonia mydas	trident	34.6	31.5	33.1	27.5	33.4	26.9	13.5	5.6	5.1
SSM062 SSM063	6/12/95	Caretta caretta	beach	-	-	-	-	-	-	-	-	-

Table 33. continued

Locations referred to above

*beach = vicinity of Melbourne Beach, Florida; encountered on nesting beach
*lagoon = Indian River Lagoon, Indian River County, Florida; ca. 3 km. south of Sebastian Inlet
*reef = nearshore worm rock reefs, Indian River County, Florida; ca. 3 km. south of Sebastian Inlet
*trident = Trident Sub Turning Basin, Port Canaveral, Florida

Table 34. Preliminary results of mt DNA analysis of ten juvenile green turtles captured in Indian River County, Florida, in 1995.

Tag Numbers	BEECS No.	Capture site	Haplotype Designation	Shared between
BP3261 X6004	Cm 598	Lagoon	CM VIII	Brazil, Ascension Island, Guinea Bissau
BP3283 X6021	Cm 599	Lagoon	CM III	Florida, Costa Rica, Mexico, Aves Island
BP3260 X6003	Cm 600	Lagoon	CM III	Florida, Costa Rica, Mexico, Aves Island
BP3295 X6037	Cm 601	Lagoon	CM III	Florida, Costa Rica, Mexico, Aves Island
BP3290 X6035	Cm 602	Lagoon	CM III	Florida, Costa Rica, Mexico, Aves Island
BP3296 N5250	Cm 603	Reef	CM I	Mexico and Florida
BP3299 N5402	Cm 604	Reef	CM III	Florida, Costa Rica, Mexico, Aves Island
BP5503 N5480	Cm 605	Reef	CM I	Mexico and Florida
BP3297 N5477	Cm 606	Reef	CM III	Florida, Costa Rica, Mexico, Aves Island
BP3298 N5401	Cm 607	Reef	CM III	Florida, Costa Rica, Mexico, Aves Island

Table 35. Blood samples taken from marine turtles net-captured in the Indian River Lagoon, Indian River County, Florida, for NMFS Charleston Lab for inclusion in their baseline blood chemistry database.

Tag Numbers	Date	Species	Paps	NMFS slides	NMFS plasma	NMFS blood/hep
BP5550 N6283	9/21/95	Caretta caretta	no	2	1	1
BP5588 N6097	9/21/95	Caretta caretta	no	2	1	1
BP5589 X6098	9/21/95	Caretta caretta	no	2	1	1
BP5590 n/a	9/21/95	Caretta caretta	y	2	1	1
BP5552 X6032	9/22/95	Caretta caretta	no	2	1	1
BP5591 X6099	9/22/95	Chelonia mydas	y	2	1	1
BP5592 X6100	9/22/95	Caretta caretta	no	2	1	1
BP5594 X6128	9/22/95	Caretta caretta	no	2	1	1
X6126 X6127	9/22/95	Adult female C. caretta	no	2	1	1
BBE181 QQJ214	11/21/95	Chelonia mydas	y	2	1	1
BP5599 X6107	11/21/95	Chelonia mydas	y	2	1	1
BP5600 X6108	11/21/95	Chelonia mydas	y	2	1	1
BP5601 X6110	11/21/95	Caretta caretta	no	2	1	1
BP5602 X6111	11/21/95	Chelonia mydas	y	2	1	1
BP5508 X6040	12/5/95	Chelonia mydas	y	2	1	1
BP5606 X6115	12/5/95	Chelonia mydas	no	2	1	1
BP5607 X6116	12/5/95	Chelonia mydas	y	2	1	1
BP5608 X6117	12/5/95	Chelonia mydas	y	2	1	1
BP5609 X6118	12/5/95	Chelonia mydas	y	2	1	1
BP5610 X6119	12/5/95	Caretta caretta	no	2	1	1
BP5611 X6120	12/5/95	Chelonia mydas	y	2	1	1
BP3295 X6037	12/15/95	Chelonia mydas	no	2	1	1
BP5617 X6121	12/15/95	Chelonia mydas	no	2	1	1
BP5618 X6122	12/15/95	Chelonia mydas	no	2	1	1
BP5619 X6123	12/15/95	Chelonia mydas	y	2	1	1
BP5620 X6124	12/15/95	Chelonia mydas	y	2	1	1
BP5621 X6139	12/15/95	Chelonia mydas	y	2	1	1
BP5622 X6125	12/15/95	Chelonia mydas	no	2	1	1
BP5623 X6140	12/15/95	Chelonia mydas	no	2	1	1
BP5624 X6141	1/15/96	Chelonia mydas	y	2	1	1
BP5625 X6142	1/15/96	Chelonia mydas	y	2	1	1
BP5626 X6145	1/15/96	Chelonia mydas	y	2	1	1
BP5627 X6148	1/15/96	Chelonia mydas	y	2	1	1
BP5628 X6149	1/15/96	Chelonia mydas	no	2	1	1
BP5629 X6156	1/15/96	Chelonia mydas	no	2	1	1
BP5630 X6155	1/15/96	Chelonia mydas	no	2	1	1
BP5631 X6158	1/15/96	Chelonia mydas	no	2	1	1
BP5633 X6157	1/15/96	Chelonia mydas	y	2	1	1
BP5634 X6144	1/15/96	Chelonia mydas	no	2	1	1
BP5635 X6147	1/15/96	Chelonia mydas	y	2	1	1
BP5636 X6146	1/15/96	Chelonia mydas	no	2	1	1
BP5637 X6143	1/15/96	Chelonia mydas	y	2	1	1
BP5632 X6177	1/30/96	Chelonia mydas	no	2	1	1
BP5638 X6178	1/30/96	Chelonia mydas	no	2	1	1
BP5639 X6179	1/30/96	Chelonia mydas	no	2	1	1
BP5640 X6180	1/30/96	Chelonia mydas	no	2	1	1
BP5641 X6181	1/30/96	Chelonia mydas	y	2	1	1

Table 35. continued

Tag Numbers	Date	Species	Paps	NMFS slides	NMFS plasma	NMFS blood/hep
BP5642 X6168	1/30/96	Chelonia mydas	y	2	1	1
BP5643 X6172	1/30/96	Chelonia mydas	y	2	1	1
BP5644 X6174	1/30/96	Chelonia mydas	y	2	1	1
BP5645 X6175	1/30/96	Chelonia mydas	y	2	1	1
BP5646 X6159	1/30/96	Chelonia mydas	no	2	1	1
BP5647 X6160	1/30/96	Chelonia mydas	y	2	1	1
BP5648 X6162	1/30/96	Chelonia mydas	y	2	1	1
BP5649 X6166	1/30/96	Chelonia mydas	no	2	1	1
BP5650 X6163	1/30/96	Chelonia mydas	y	2	1	1
BP5651 X6170	1/30/96	Chelonia mydas	y	2	1	1
BP5652 X6173	1/30/96	Chelonia mydas	y	2	1	1
BP5653 X6176	1/30/96	Chelonia mydas	y	2	1	1
BP5654 X6167	1/30/96	Chelonia mydas	y	2	1	1
BP5655 X6171	1/30/96	Chelonia mydas	no	2	1	1
BP5656 X6169	1/30/96	Chelonia mydas	y	2	1	1
BP5661 X6184	1/30/96	Chelonia mydas	no	2	1	1
BP4501 X4701	3/13/96	Chelonia mydas	y	2	1	1
BP4502 X4702	3/13/96	Chelonia mydas	no	2	1	1
BP4503 X4704	3/13/96	Chelonia mydas	no	2	1	1
BP4504 X4706	3/13/96	Chelonia mydas	y	2	1	1
BP4505 X4705	3/13/96	Chelonia mydas	y	2	1	1
BP4506 X4729	3/13/96	Chelonia mydas	no	2	1	1
BP4507 X4707	3/13/96	Caretta caretta	no	2	1	1
BP4512 X4726	3/13/96	Chelonia mydas	no	2	1	1
BP4513 X4712	3/14/96	Chelonia mydas	y	2	1	1
BP4514 X4713	3/14/96	Chelonia mydas	y	2	1	1
BP4515 X4714	3/14/96	Caretta caretta	no	2	1	1
BP4516 X4715	3/14/96	Chelonia mydas	no	2	1	1
BP4517 X4716	3/14/96	Chelonia mydas	y	2	1	1
BP4518 X4717	3/14/96	Chelonia mydas	y	2	1	1
BP4520 X4719	3/14/96	Chelonia mydas	no	2	1	1
BP4523 X4722	3/14/96	Chelonia mydas	no	2	1	1
BP4525 X4724	3/14/96	Chelonia mydas	no	2	1	1
BP4526 X4710	3/13/96	Chelonia mydas	y	2	1	1
BP4527 X4727	3/13/96	Chelonia mydas	y	2	1	1
BP4530 X4730	3/13/96	Chelonia mydas	no	2	1	1
BP4531 X4731	3/13/96	Caretta caretta	no	2	1	1
BP4533 X4732	3/14/96	Chelonia mydas	no	2	1	1
BP4534 X4733	3/14/96	Chelonia mydas	no	2	1	1
BP4535 X4734	3/14/96	Caretta caretta	no	2	1	1
BP4538 X4736	3/14/96	Chelonia mydas	no	2	1	1
Number of samples collected				176	88	88

Table 36. Blood samples taken from marine turtles net captured in the Trident Sub Basin, Pt. Canaveral, Florida, for NMFS Charleston Lab for inclusion in their baseline blood chemistry database.

Tag Numbers	Date	Species	Paps	NMFS slides	NMFS plasma	NMFS blood/hep
BP3189 N4511	7/16/95	Chelonia mydas	no	2	1	1
BP3191 X6081	7/17/95	Chelonia mydas	no	2	1	1
BP3218 N3119	7/16/95	Chelonia mydas	no	2	1	1
BP3219 N5476	7/16/95	Chelonia mydas	no	2	1	1
BP3233 N2335	7/16/95	Chelonia mydas	no	2	1	1
BP3241 N6244	7/16/95	Chelonia mydas	no	2	1	1
BP3245 N5246	7/16/95	Chelonia mydas	no	2	1	1
BP3256 N5248	7/16/95	Chelonia mydas	no	2	1	1
BP3257 N5249	7/16/95	Chelonia mydas	no	2	1	1
BP3271 X6016	7/16/95	Chelonia mydas	no	2	1	1
BP3275 X6030	7/16/95	Chelonia mydas	no	2	1	1
BP5511 X6045	7/17/95	Chelonia mydas	no	2	1	1
BP5515 X6047	7/16/95	Chelonia mydas	no	2	1	1
BP5521 X6057	7/16/95	Chelonia mydas	no	2	1	1
BP5560 X6076	7/16/95	Chelonia mydas	no	2	1	1
BP5562 X6077	7/16/95	Chelonia mydas	no	2	1	1
BP5563 X6078	7/16/95	Chelonia mydas	no	2	1	1
BP5564 X6079	7/16/95	Chelonia mydas	no	2	1	1
BP3222 N5299	9/24/95	Chelonia mydas	no	2	1	1
BP3226 N5272	9/24/95	Chelonia mydas	no	2	1	1
BP3241 N5244	9/24/95	Chelonia mydas	no	2	1	1
BP5526 X6051	9/24/95	Chelonia mydas	no	2	1	1
BP5595 N6129	9/24/95	Chelonia mydas	no	2	1	1
BP5596 X6103	9/24/95	Chelonia mydas	no	2	1	1
BP5597 X6104	9/24/95	Chelonia mydas	no	2	1	1
X6152 n/a	9/24/95	Adult male C. caretta	no	2	1	1
BP5612 X6130	12/9/95	Chelonia mydas	no	2	1	1
BP5613 X6131	12/9/95	Chelonia mydas	no	2	1	1
BP5615 X6153	12/9/95	Chelonia mydas	no	2	1	1
BP5521 X6057	12/9/95	Chelonia mydas	no	2	1	1
BP3189 N4511	12/9/95	Chelonia mydas	no	2	1	1
BP3229 X6136	12/9/95	Chelonia mydas	no	2	1	1
BP5516 X6137	12/9/95	Chelonia mydas	no	2	1	1
BP5512 X6138	12/10/95	Chelonia mydas	no	2	1	1
BP5616 X6138	12/10/95	Chelonia mydas	no	2	1	1
Number of samples collected				35	35	35