

Smith, Spence

From: Sent: DuBose Griffin [GriffinD@dnr.sc.gov] Monday, August 23, 2010 10:21 AM

To:

Smith, Spence

Subject:

RE: SC sea turtle data on Seaturtle.org

Hi Spence,

Thank you for your email. I apologize about the pdfs. I sent them right after we hung up. I checked the sent email and confirmed that I used the correct address. I am not sure what happened but I am sorry that they did not get to you sooner. Let me know if you need additional information.

DuBose

From: Smith, Spence [mailto:shsmith@louisberger.com]

Sent: Monday, August 23, 2010 10:21 AM

To: DuBose Griffin

Subject: SC sea turtle data on Seaturtle.org

Hello DuBose,

First, I would like to thank you and Charlotte for speaking with me this past Friday clarifying aspects of your protocols for relocating sea turtle nests in SC. The information will be very useful for the National Park Service in responding to some specific public comments made on their Cape Hatteras National Seashore ORV Long Range Management Plan/Environmental Impact Statement (EIS) that referenced the SC protocols. The heads up about the erosional nature of Cape Island is of use as well. It will also likely be very useful in responding to public comments on the EIS we are helping the NPS develop for the Cape Lookout National Seashore ORV Management Plan as well. Like I said on Friday, I am using the information strictly to clarify your protocols on when you all relocate nests and to compare the % of nests relocated in SC to the % that the Seashore has relocated over the past 2 years.

Also, I wanted to thank you for offering to print the 2009 and 2010 data for SC from the seaturtle.org website to a pdf file and email it to me. However, if you haven't already done so, there is no longer a need for it, as I was finally able to print the web pages to pdf this morning without it crashing my computer.

Again, thank you for your help - it was very informative and greatly appreciated.

Best of luck with the rest of the turtle hatching/nesting season.

Regards, Spence

Spence H. Smith

Marine Scientist

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Smith, Spence

From:

DuBose Griffin [GriffinD@dnr.sc.gov] Monday, August 23, 2010 10:30 AM

Sent: To:

Smith, Spence

Subject:

FW: 2009 and 2010 Nest Data in PDF form

Attachments:

2009 Nest Data Summary.pdf; 2010 Nest Data Summary.pdf

Here is the original. Let me know if this comes through.

DuBose

From: DuBose Griffin

Sent: Friday, August 20, 2010 4:12 PM

To: 'shsmith@louisberger.com'

Subject: 2009 and 2010 Nest Data in PDF form

Mr. Smith,

Here is the information that you requested. The pdf files are "ok." If you want me to work on them a bit more, let me know. Thank you for your efforts in protecting sea turtles in North Carolina. They need all the help they can get.

Sincerely,

DuBose





DuBose B. Griffin

SC Sea Turtle Coordinator griffind@dnr.sc.gov | 843 953 9016 Direct

SC DNR, Marine Turtle Program

Charleston Office, 217 Fort Johnson Road | Charleston, SC 29412 843 953 9016 Main | 843 870 3667 Cell | 843 953 9353 Fax Mailing, Post Office Box 12559 | Charleston, SC 29422-12559 Directions | Web site



Sea Turtle Nest Monitoring System

STNMS Overview (PDF)

South Carolina DNR Sea Turtle Conservation Program

Select a Beach:

Program Description



The South Carolina Department of Natural Resources Marine Turtle Conservation Program is responsible for managing and protecting sea turtles in the state of South Carolina, USA. This program has several all encompassing components: management, monitoring, research, and education. More specifically this program provides technical expertise on anthropogenic activities that have the potential to impact sea turtles (i.e., nourishment, dredging), locates and protects sea turtle nests (~300 km of coastline), documents strandings, performs necropsies on fresh dead strandings, works with the SC Aquarium to provide rehabilitation for live strandings, monitors



nearshore waters for leatherbacks, and provides as much education, outreach and exchange of scientific information as time allows.

The SCDNR began monitoring sea turtle nesting activities and strandings in the late 1970s. Information gained from this program contributes to ongoing sea turtle nest management and protection projects on all of the state's beaches. There are approximately 300 kilometers of ocean-facing sandy beaches in South Carolina that provide suitable nesting habitat for sea turtles. To date, loggerheads, green turtles, leatherbacks and rarely Kemp's ridleys sea turtle nests have been recorded on South Carolina beaches. By far the most common nesting species is the loggerhead. In South Carolina, nesting surveys and nest protection measures are carried out by a variety of public agencies such as the SCDNR, USFWS, South Carolina Department of Parks and Recreation and Coastal Carolina University. Several private organizations and numerous volunteers are also actively involved with sea turtle protection work. Altogether, more than 1100 individuals participate in nest monitoring activities in South Carolina each year. Results from all South Carolina sea turtle nesting beach projects are submitted to the SCDNR and compiled for the State and made available to federal agencies. These data are crucial in monitoring populations, formulating protective regulations, making management decisions, and maximizing reproduction for recovery.

Year 2010

The data presented here should be considered preliminary in nature. All data, figures and maps on this website remain copyright of the project coordinators and may not be used or referenced without the explicit written consent of the data owners.

Summary ?

In Situ: 1463 Relocated: 1328 (42.8%) Hatchery: 325 (10.4%) Lost: 130 (4.1%) Incubating: 2141 Unknown: 9

Unknown: 9 False Crawls: 4440 Estimated Eggs to Date: 233204 Eggs Lost: 13767 (5.9%)

Hatched Eggs: 71084 Emerged Hatchlings: 65093

Mean Incubation Duration (all): 52.7 days Mean Clutch Count: 112.8 eggs (Relocated Only)

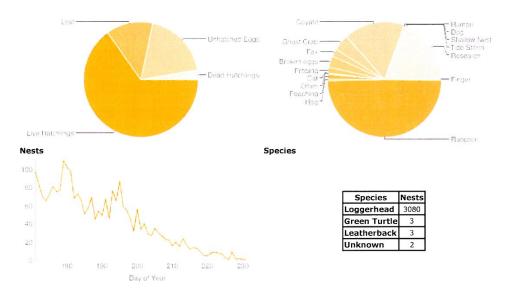
Mean Hatch Success: 60.1% Mean Emergence Success: 55.1% Program Nest Success: 25.3% Program Beach Success: 41.1% Eggs

Activity

Faise Graw's



Losses



Beach Report

| | ??? | | Apr | | May | | Jun | | Jul | | Aug | | Overall | | | | |
|-----------------------------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|---------|-----------------|------|------|------|
| Beach | Nests | False Crawls | Nocto | False Crawls | Nests | False Crawls | HS% | ES% | R% |
| Bay Point Island | 28 | 10 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 8 | 0 | 0 | 35 | 18 | 0 | 0 | 5.7 |
| Botany Bay Island | 1 | 0 | 0 | 0 | 13 | 3 | 52 | 90 | 30 | 27 | 1 | 0 | 97 | 120 | 60.6 | 56.8 | 12.3 |
| Botany Bay Plantation | 1 | 0 | 0 | 0 | 41 | 40 | 79 | 114 | 53 | 48 | 2 | 0 | 181 | 204 | 59.2 | 56.7 | 61.3 |
| Bull Island | 4 | 0 | 0 | 0 | 18 | 7 | 70 | 0 | 41 | 0 | 5 | 0 | 138 | 174 | 56.6 | 43.7 | 62.3 |
| Cape Island | 0 | 0 | 0 | 0 | 121 | 0 | 519 | 0 | 370 | 0 | 29 | 0 | 1039 | 2384 | 25.9 | 10.9 | 59.9 |
| Capers Island | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 2 | 3 | 0 | 1 | 1 | 11 | 3 | 14.2 | 14 | 0 |
| Daufuskie Island | 0 | 0 | 0 | 0 | 10 | 5 | 33 | 19 | 22 | 6 | 0 | 0 | 65 | 30 | 74.7 | 68.2 | 66.1 |
| Debidue Beach | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 9 | 5 | 3 | 1 | 0 | 11 | 12 | 92 | 0 | 72.7 |
| Dewees Island | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 | 7 | 2 | 2 | 1 | 15 | 10 | 79.2 | 72.9 | 53.3 |
| Edingsville Beach | 0 | 0 | 0 | 0 | 10 | 11 | 27 | 92 | 13 | 44 | 4 | 3 | 54 | 150 | 60.2 | 58.1 | 0 |
| Edisto Beach State Park | 4 | 0 | 0 | 0 | 11 | 9 | 48 | 48 | 35 | 33 | 4 | 4 | 102 | 94 | 70.4 | 66.3 | 31.3 |
| Edisto Town Beach | 1 | 0 | 0 | 0 | 11 | 10 | 39 | 23 | 24 | 17 | 1 | 2 | 76 | 52 | 71.5 | 60.2 | 67.1 |
| Folly Beach | 0 | 0 | 0 | 0 | 5 | 0 | 21 | 1 | 25 | 0 | 3 | 0 | 54 | 19 | 74.1 | 88.8 | 74 |
| Fripp Island | 0 | 0 | 0 | 0 | 2 | 4 | 14 | 24 | 9 | 6 | 0 | 3 | 25 | 37 | 72.5 | 76.8 | 84 |
| Garden City Beach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 1 | 72.5 | 76.8 | 100 |
| Harbor Island | 2 | 0 | 0 | 0 | 5 | 3 | 16 | 19 | 7 | 9 | 0 | 0 | 30 | 31 | 66.4 | 49 | 60 |
| Hilton Head Island | 0 | 0 | 0 | 0 | 30 | 19 | 130 | 102 | 66 | 34 | 8 | 2 | 234 | 157 | 82.3 | 71 | 66.2 |
| Hobcaw Beach | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 11 | 6 | 8 | 2 | 1 | 16 | 20 | 68.4 | 48.7 | 43.7 |
| Hunting Island State Park | 1 | 0 | 0 | 0 | 15 | 13 | 55 | 80 | 38 | 35 | 2 | 4 | 111 | 135 | 48.3 | 31.9 | 45 |
| Huntington Beach State Park | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 | 5 | 6 | 0 | 1 | 8 | 18 | 93.1 | 91.6 | 0 |
| Interlude | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 13 | 6 | 0 | 0 | 0 |

| Beach | | L | | | l | | | | | | I | | | | | | LI |
|-------------------------------|----|----|---|---|-----|-----|------|-----|------|-----|-----|----|------|------|------|------|------|
| Isle of Palms | 0 | 0 | 0 | 0 | 5 | 1 | 9 | 6 | 7 | 8 | 2 | 3 | 23 | 18 | 79.5 | 65.1 | 69.5 |
| Kiawah Island | 2 | 0 | 0 | 1 | 36 | 12 | 94 | 116 | 80 | 47 | 4 | 13 | 216 | 189 | 83.1 | 71.4 | 44.4 |
| Lighthouse Island | 0 | 0 | 0 | 0 | 24 | 0 | 75 | 0 | 62 | 0 | 15 | 0 | 176 | 297 | 14.1 | 0 | 76.7 |
| Litchfield by the Sea | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 4 | 0 | 89.7 | 0 | 50 |
| Little Capers Island | 4 | 0 | 0 | 0 | 7 | 1 | 20 | 6 | 7 | 2 | 1 | 0 | 39 | 9 | 48.3 | 44.5 | 17.9 |
| Morris Island | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 48.3 | 44.5 | 0 |
| Myrtle Beach | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 3 | 2 | 64 | 0 | 100 |
| Myrtle Beach State Park | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 64 | 0 | 100 |
| North Island | 9 | 1 | 0 | 0 | 0 | 0 | 11 | 1 | 5 | 4 | 1 | 0 | 26 | 6 | 0 | 0 | 15.3 |
| North Litchfield | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 4 | 1 | 0 | 0 | 75 |
| North Myrtle Beach | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 7 | 3 | 5 | 1 | 2 | 10 | 14 | 84.4 | 84 | 30 |
| Otter Island | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 84.4 | 84 | 0 |
| Pawleys Island | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 1 | 5 | 4 | 1 | 1 | 16 | 6 | 87.9 | 0 | 87.5 |
| Sand Island | 0 | 0 | 0 | 0 | 1 | 3 | 37 | 12 | 11 | 6 | 1 | 0 | 50 | 21 | 0 | 0 | 8 |
| Seabrook Island | 1 | 0 | 0 | 0 | 9 | 4 | 36 | 28 | 20 | 9 | 2 | 1 | 68 | 42 | 72.2 | 64.4 | 75 |
| South Island | 0 | 0 | 0 | 0 | 24 | 22 | 63 | 77 | 46 | 48 | 5 | 4 | 138 | 151 | 70.9 | 74.4 | 19.5 |
| South Litchfield | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 3 | 85.8 | 0 | 100 |
| Sullivan's Island | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 85.8 | 0 | 100 |
| Surfside Beach | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 94.6 | 0 | 100 |
| Waties Island | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 1 | 57 | 56 | 0 |
| Total | 59 | 11 | 0 | 1 | 408 | 168 | 1500 | 915 | 1018 | 421 | 103 | 48 | 3100 | 4440 | 60.1 | 55.1 | 42.8 |

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STNMS Overview (PDF)

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Select a Beach:

Program Description



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Year 2009

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Summary
Nests: 2194
In Situ: 1030
Relocated: 880 (40.1%)
Hatchery: 277 (12.6%)
Lost: 143 (6.5%)
Incubating: 1
Unknown: 80
False Crawls: 3372

Estimated Eggs to Date: 237459 Eggs Lost: 10468 (4.4%) Hatched Eggs: 163393 Emerged Hatchings: 154143

Emerged Hatchlings: 154143

Mean Incubation Duration (all): 53.9 days

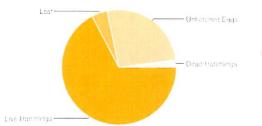
Mean Clutch Count: 116.3 eggs (Relocated Only)

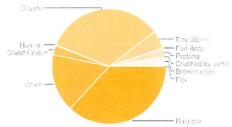
Mean Hatch Success: 64.7% Mean Emergence Success: 61% Program Nest Success: 84.1% Program Beach Success: 39.4%

Eggs

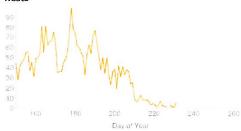


Losses





Nests



| Species | Nests |
|--------------|-------|
| Loggerhead | 2183 |
| Green Turtle | 1 |
| Leatherback | 3 |

Beach Report

Species

| | ??? | | м | May | | Jun | | Jul | | Aug | | ер | Overall | | | | | |
|-----------------------------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|---------|-----------------|------|------|------|--|
| Beach | Nests | False Crawls | Nests | False Crawls | | ES% | R% | |
| Botany Bay Island | 0 | 0 | 7 | 0 | 37 | 29 | 24 | 25 | 4 | 0 | 0 | 0 | 72 | 54 | 45.4 | 37 | 0 | |
| Botany Bay Plantation | 2 | 0 | 10 | 10 | 67 | 88 | 42 | 96 | 3 | 1 | 0 | 0 | 131 | 195 | 42.7 | 39 | 8.3 | |
| Bull Island | 4 | 0 | 11 | 15 | 53 | 84 | 39 | 68 | 2 | 3 | 0 | 0 | 109 | 170 | 53.5 | 44.4 | 65.1 | |
| Cape Island | 27 | 0 | 99 | 0 | 335 | 0 | 270 | 0 | 19 | 0 | 0 | 0 | 750 | 1739 | 72.1 | 67.6 | 66.5 | |
| Daufuskie Island | 0 | 0 | 3 | 0 | 17 | 10 | 9 | 5 | 2 | 0 | 0 | 0 | 31 | 15 | 61.4 | 45.9 | 32.2 | |
| Debidue Beach | 0 | 0 | 2 | 1 | 9 | 8 | 6 | 8 | 2 | 0 | 0 | 0 | 19 | 17 | 81.2 | 77.5 | 47.3 | |
| Dewees Island | 0 | 0 | 2 | 2 | 9 | 13 | 4 | 4 | 1 | 1 | 0 | 0 | 16 | 20 | 68.1 | 59.6 | 37.5 | |
| Edingsville Beach | 0 | 0 | 6 | 5 | 36 | 43 | 22 | 38 | 0 | 0 | 0 | 0 | 64 | 86 | 47.2 | 45.4 | 1.5 | |
| Edisto Beach State Park | 0 | 0 | 14 | 11 | 29 | 25 | 23 | 20 | 2 | 3 | 0 | 0 | 68 | 59 | 51.4 | 53.9 | 38.2 | |
| Edisto Town Beach | 1 | 0 | 6 | 9 | 42 | 25 | 26 | 30 | 2 | 1 | 0 | 0 | 77 | 65 | 56.9 | 57.7 | 50.6 | |
| Folly Beach | 0 | 0 | 2 | 1 | 18 | 12 | 13 | 1 | 2 | 0 | 0 | 0 | 35 | 19 | 67.3 | 64.9 | 60 | |
| Fripp Island | 0 | 0 | 2 | 2 | 12 | 22 | 13 | 15 | 0 | 0 | 0 | 0 | 27 | 39 | 72.6 | 43.9 | 66.6 | |
| Harbor Island | 0 | 0 | 2 | 4 | 12 | 16 | 11 | 7 | 0 | 0 | 0 | 0 | 25 | 27 | 66.6 | 73 | 76 | |
| Hilton Head Island | 4 | 0 | 15 | 0 | 83 | 0 | 70 | 0 | 8 | 0 | 0 | 0 | 180 | 100 | 72.5 | 57.4 | 66.1 | |
| Hobcaw Beach | 0 | 0 | 2 | 6 | 10 | 22 | 7 | 23 | 0 | 1 | 0 | 0 | 19 | 52 | 71.3 | 74.3 | 42.1 | |
| Hunting Island State Park | 0 | 0 | 10 | 11 | 40 | 40 | 29 | 37 | 1 | 0 | 0 | 0 | 80 | 88 | 57.4 | 51.7 | 52.5 | |
| Huntington Beach State Park | 0 | 0 | 0 | 0 | 4 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 7 | 4 | 86.8 | 74.3 | 0 | |
| Isle of Palms | 0 | 0 | 5 | 0 | 8 | 9 | 5 | 2 | 1 | 1 | 0 | 0 | 19 | 12 | 87.1 | 82.1 | 68.4 | |
| Kiawah Island | 1 | 0 | 14 | 5 | 67 | 63 | 43 | 28 | 3 | 3 | 0 | 0 | 128 | 99 | 79.9 | 69.9 | 47.6 | |
| Lighthouse Island | 6 | 0 | 15 | 0 | 67 | 0 | 49 | 0 | 4 | 0 | 0 | 0 | 141 | 289 | 70.5 | 69.4 | 70.2 | |
| Litchfield | 0 | 0 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | 3 | 88.6 | 25.3 | 60 | |

| by the Sea | | | | | | | | | | | | | | | | | |
|-------------------------------|----|---|-----|-----|------|-----|-----|-----|----|----|---|---|------|------|------|------|------|
| Myrtle Beach | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 91.6 | 0 | 75 |
| Myrtle Beach State Park | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 96.3 | 0 | 100 |
| North Litchfield | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 90.6 | 88.3 | 0 |
| North Myrtle Beach | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 83.5 | 72.8 | 50 |
| Pawleys Island | 0 | 0 | 1 | 0 | 5 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 9 | 1 | 71.1 | 52.9 | 77.7 |
| Sand Island | 0 | 0 | 2 | 9 | 13 | 17 | 9 | 8 | 0 | 0 | 0 | 0 | 24 | 34 | 0 | 0 | 0 |
| Seabrook Island | 0 | 0 | 3 | 2 | 18 | 14 | 15 | 16 | 1 | 0 | 0 | 0 | 37 | 32 | 68.4 | 54 | 62.1 |
| South Island | 0 | 0 | 14 | 12 | 45 | 72 | 36 | 29 | 1 | 0 | 1 | 0 | 97 | 113 | 47.5 | 45.1 | 31.9 |
| South Litchfield | 0 | 0 | 0 | 2 | 2 | 6 | 1 | 1 | 0 | 1 | 0 | 0 | 3 | 10 | 79.6 | 96.1 | 66.6 |
| Sullivan's Island | 0 | 0 | 0 | 0 | 2 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 4 | 6 | 76.8 | 40.4 | 50 |
| Surfside Beach | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 95.5 | 0 | 100 |
| Waties Island | 0 | 0 | 0 | 0 | 5 | 20 | 3 | 2 | 0 | 0 | 0 | 0 | 8 | 22 | 67 | 64 | 0 |
| Total | 47 | 0 | 249 | 108 | 1051 | 649 | 779 | 467 | 60 | 15 | 1 | 0 | 2194 | 3372 | 64.7 | 61 | 40.1 |

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CALCULATING THE PERCENT OF SEA TURTLE NESTS RELOCATED IN SOUTH CAROLINA

Based on the suggestion of DuBose Griffin of the SCDNR Marine Turtle Conservation Program, I recalculated the percent of nests relocated in SC without the data for Cape Island. The reason for this is that Cape Island contributes approximately one third of the turtle nests annually to SC. However, because the beach is highly erosional, approximately 60 percent of the nests are relocated, skewing the overall percentage of nests relocated for SC.

All of the raw data used to calculate the percent of nests relocated without including the Cape Island data was obtained on 8/23/2010 from http://www.seaturtle.org/nestdb/index.shtml?view=2.

2009

All South Carolina:

Nests: 2194

Nest relocated: 880 (40.1%)

Cape Island

Nests: 750

% relocated: 66.5%

Calculated nests relocated: (750 x 0.665): 499

Percent nests relocated in SC not including Cape Island

Nests: (2194-750): 1444

Relocated nests (880-499): 381

Percent of nest relocated: (381/1444): 26.4%

2010 (as of 8/23/2010)

All South Carolina:

Nests: 3100

Nest relocated: 1328 (42.8%)

Cape Island

Nests: 1039

% relocated: 59.9%

Calculated nests relocated: (1039 x 0.599): 622

Percent nests relocated in SC not including Cape Island

Nests: (3100-1039): 2061

Relocated nests (880-499): 706

Percent of nest relocated: (706/2061): 34.3%

Recalculation done by S. Smith, The Louis Berger Group Inc.