

NRR-PMDAPEm Resource

From: Steve Weege [steveeweeg@gmail.com]
Sent: Tuesday, February 04, 2014 12:12 PM
To: Meghan Koperski
Cc: Audra Livergood - NOAA Federal; Dave Clark; David Niebch; Ed Hollowell; Jodie Gless; John Jones; Ken Frehafer; Marine Turtle Permit; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Shelley Norton; Vince Munne
Subject: January 2014 FPL Marine Turtle Removal Monthly Report
Attachments: January 2014 Marine Turtle Captures.rtf; Monthly Report Notes 2014.xls; FPL St. Lucie Capture Summary 2014.xls; Power Plant Causal Turtles.xlsx

Mrs. Meghan Koperski
Tequesta Field Laboratory
19100 SE Federal Highway
Tequesta, FL 33469

**Subject: Marine Turtle Removal Monthly Summary
January 2014**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for January 2014. This month, we captured thirty-one (31) *Caretta caretta*, forty (40) *Chelonia mydas*, one (1) *Eretmochelys imbricata* and two (2) *Lepidochelys kempii* in the intake canal of the St. Lucie power plant on Hutchinson Island. There were two mortalities and six sea turtles were sent for rehabilitation during the month of January. As with all sea turtle strandings at the Saint Lucie Plant (alive or dead), the Florida Fish and Wildlife Conservation Commission (FWC) was consulted and stranding forms were filed with the state through the Sea Turtle Stranding and Salvage Network. None of the strandings in January were considered causal to power plant operations

There were two noncausal mortalities recorded at the Saint Lucie Power Plant during the month of January. The first was an adult hawksbill that was recovered from the bottom of intake canal during a snorkel survey. Only the skeletal remains were present. The species was determined from the appearance of the remaining scutes. The straight standard carapace length was estimated at 75.0cm SCL, making it an adult turtle (sex unknown). The animal was likely entrained postmortem. The second mortality was a moderately decomposed juvenile green turtle that was found on the temporary 5-inch barrier net. There were several deep gashes in the ventral surface of the neck, presumably from a predation event such as a shark attack. In both instances, FWC was consulted and neither mortality was considered causal to power plant operations.

There were three loggerhead sea turtles sent for rehabilitation in January. The first two individuals were approximately 60cm SCL and were recovered from the temporary 5-inch barrier net on the same day. Both were emaciated and lethargic. Such turtles are customarily referred to as "Barnacle Bills" due to their tendency to be heavily encrusted with epibiota. Inwater Research Group (IRG) biologists facilitated transfer of these two turtles to rehab by transporting the animals partway to Sea World. The third loggerhead stranding was a subadult that was missing a portion of its posterior carapace due to an apparent old boat strike injury. The wound was open and still bleeding. There were also healing elongate wounds in the axillary region of each of the front flippers. This turtle was transferred by the FWC stranding coordinator to the Gumbo Limbo Nature Center in Boca Raton for rehabilitation. All three loggerhead stranding were deemed noncausal to plant operations.

During the month, two juvenile green turtles with heavy fibropapillomas were taken to the Gumbo Limbo Nature Center in Boca Raton for rehabilitation. The first turtle was underweight and had a total tumor score of 37. This individual was transported to rehab by the FWC stranding coordinator. The second green turtle had a total tumor score of 47 and papillomas were coming out of the plastron and the mouth (sometimes indicative of pernicious internal tumors). After consultation with FWC, Inwater Research Group personnel transported this second animal to rehab. Neither of these incidents were considered causal to power plant operations.

One Kemp's ridley sea turtle (subadult) was sent to rehab from the power plant intake canal in January. The turtle had extensive carapace damage - there was a large healing crack in right side of the carapace and multiple cracks in the plastron. The body cavity was also exposed by a 4cm x 6cm hole in the plastron. These injuries were not caused by entrainment (noncausal to power plant operations). After consultation with FWC, IRG biologists transported the turtle to the Loggerhead Marinelife Center in Juno Beach for rehabilitation.

Throughout the month, the 5-inch barrier net experienced severe loads of algae that entered into the intake canal system, whereas jellyfish entrainment ranged from light to moderate. The heavy accumulation of algae weighed down the temporary 5-inch barrier net and, consequently, Underwater Engineering Services was called out to inspect and clean the net on three separate occasions. During this time, one small hole was repaired in the net. In addition, Inwater Research Group biologists helped to mitigate the potential impact of the algae events by performing around-the-clock monitoring during periods of heavy debris intrusion. Overall, the integrity of the barrier net system was maintained and no turtles have been observed beyond the 5-inch net. Bathymetric surveys of the intake canal were completed in January and Florida Power & Light, in cooperation with Orion Marine Construction, has already begun construction on a permanent 5-inch barrier net.

The tag numbers and morphometric data for all turtles captured during the month have been included with this report (see attachments/addendums). Also included is a spreadsheet for all captures, mortalities, injuries, and causal events delineated by species and by month for the year 2014. In addition, this spreadsheet also tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year. An additional Excel spreadsheet tracks all causal injuries and mortalities incurred by sea turtles at the St. Lucie Plant since 2002.

Please feel free to contact me with any questions.

Sincerely,

Steve

Steve Weege
Sr. Environmental Specialist
Inwater Research Group, Inc.
4160 NE Hyline Dr.
Jensen Beach, FL 34957
sweege@inwater.org
[\(772\) 349-7252](tel:(772)349-7252)

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Subject: January 2014 FPL Marine Turtle Removal Monthly Report
Sent Date: 2/4/2014 12:12:11 PM
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From: Steve Weege

Created By: steveweege@gmail.com

Recipients:

"Audra Livergood - NOAA Federal" <audra.livergood@noaa.gov>
Tracking Status: None
"Dave Clark" <dclark@inwater.org>
Tracking Status: None
"David Niebch" <David.Niebch@fpl.com>
Tracking Status: None
"Ed Hollowell" <Ed.Hollowell@fpl.com>
Tracking Status: None
"Jodie Gless" <Jodie_Gless@fpl.com>
Tracking Status: None
"John Jones" <John.Jones@fpl.com>
Tracking Status: None
"Ken Frehafer" <Ken_Frehafer@fpl.com>
Tracking Status: None
"Marine Turtle Permit" <MTP@myfwc.com>
Tracking Status: None
"Michael Bresette" <mbresette@inwater.org>
Tracking Status: None
"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>
Tracking Status: None
"SCO@dep.state.fl.us" <SCO@dep.state.fl.us>
Tracking Status: None
"Shelley Norton" <Shelley.Norton@noaa.gov>
Tracking Status: None
"Vince Munne" <Vince.Munne@fpl.com>
Tracking Status: None
"Meghan Koperski" <Meghan.Koperski@MyFWC.com>
Tracking Status: None

Post Office: mail.gmail.com

| Files | Size | Date & Time |
|---|--------|----------------------|
| MESSAGE | 6026 | 2/4/2014 12:12:36 PM |
| January 2014 Marine Turtle Captures.rtf | | 210823 |
| Monthly Report Notes 2014.xls | 121408 | |
| FPL St. Lucie Capture Summary 2014.xls | | 184384 |
| Power Plant Causal Turtles.xlsx | | 18496 |

Options

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MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL JANUARY 2014

| Date | Species | Note | Tag #'s | SMCL (cm) | SSCL (cm) | CSCL (cm) | CMCW (cm) | SMCW (cm) | SMPL (cm) | Weight (kg) | Method |
|-----------|------------------------|------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 1/3/2014 | <i>Caretta caretta</i> | | EEP435/EEP436 | 56.5 | 57.8 | 62.0 | 58.3 | 46.7 | 45.2 | 28.7 | South net |
| 1/3/2014 | <i>Chelonia mydas</i> | 1 | EEP437/EEP438 | 48.4 | 48.6 | 51.8 | 38.7 | 46.9 | 41.5 | 15.5 | South net |
| 1/4/2014 | <i>Chelonia mydas</i> | 2 | EEP439/EEP440 | 47.2 | 48.4 | 51.5 | 44.4 | 36.9 | 39.0 | 14.1 | North net |
| 1/4/2014 | <i>Caretta caretta</i> | 3 | RCW140104-01 | 54.7 | 55.4 | 60.1 | 59.8 | 48.2 | 44.2 | 21.6 | Barrier net |
| 1/4/2014 | <i>Caretta caretta</i> | 4 | RCW140104-02 | 64.1 | 65.3 | 71.0 | 67.7 | 53.5 | 48.5 | 31.7 | Barrier net |
| 1/5/2014 | <i>Chelonia mydas</i> | | 989001001231793 | 27.2 | 27.8 | 29.5 | 25.0 | 22.3 | 21.7 | 21.0 | Hand capture |
| 1/5/2014 | <i>Caretta caretta</i> | | EEP441/EEP442 | 62.8 | 64.0 | 69.0 | 66.8 | 54.2 | 50.5 | 39.3 | South net |
| 1/5/2014 | <i>Caretta caretta</i> | | EEP443/EEP444 | 64.9 | 66.4 | 71.1 | 66.9 | 54.8 | 50.2 | 39.3 | North net |
| 1/6/2014 | <i>Chelonia mydas</i> | 5 | BBP273/BBP274 | 49.8 | 50.2 | 53.1 | 47.4 | 40.2 | 41.2 | 16.4 | South net |
| 1/6/2014 | <i>Caretta caretta</i> | | EEP445/EEP446 | 62.2 | 54.4 | 67.7 | 67.2 | 55.5 | 50.4 | 40.8 | North net |
| 1/6/2014 | <i>Chelonia mydas</i> | | EEP447/EEP448 | 37.9 | 38.2 | 39.5 | 35.7 | 32.9 | 32.8 | 7.3 | South net |
| 1/8/2014 | <i>Caretta caretta</i> | | EEP449/EEP450 | 58.9 | 60.1 | 64.9 | 63.5 | 50.9 | 47.3 | 33.5 | North net |
| 1/9/2014 | <i>Caretta caretta</i> | | EEP451/EEP452 | 57.1 | 57.8 | 62.6 | 59.4 | 48.1 | 45.3 | 27.8 | North net |
| 1/10/2014 | <i>Caretta caretta</i> | | EEP455/EEP456 | 73.6 | 74.8 | 82.5 | 76.5 | 63.0 | 58.3 | 63.4 | North net |
| 1/10/2014 | <i>Caretta caretta</i> | | EEP457/EEP458 | 61.3 | 62.5 | 69.1 | 67.3 | 55.3 | 48.2 | 37.5 | North net |

| Date | Species | Note | Tag #'s | SMCL (cm) | SSCL (cm) | CSCL (cm) | CMCW (cm) | SMCW (cm) | SMPL (cm) | Weight (kg) | Method |
|-----------|------------------------|------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 1/14/2014 | <i>Chelonia mydas</i> | | EEP479/EEP480 | 58.3 | 58.7 | 62.7 | 52.2 | 45.2 | 48.9 | 28.2 | Hand capture |
| 1/14/2014 | <i>Chelonia mydas</i> | | EEP481/EEP482 | 55.5 | 56.0 | 59.2 | 50.9 | 44.1 | 45.3 | 22.2 | Hand capture |
| 1/14/2014 | <i>Caretta caretta</i> | | EEP483/EEP484 | 72.1 | 73.7 | 78.5 | 75.1 | 60.1 | 55.5 | 52.3 | Hand capture |
| 1/14/2014 | <i>Caretta caretta</i> | | EEP485/EEP486 | 72.1 | 73.1 | 79.3 | 76.0 | 62.7 | 57.4 | 65.9 | Hand capture |
| 1/14/2014 | <i>Caretta caretta</i> | | EEP487/EEP488 | 68.2 | 69.1 | 74.5 | 70.4 | 59.0 | 53.7 | 40.3 | Hand capture |
| 1/14/2014 | <i>Caretta caretta</i> | | EEP489/EEP490 | 60.0 | 60.9 | 65.4 | 62.8 | 50.9 | 48.9 | 33.9 | Hand capture |
| 1/14/2014 | <i>Caretta caretta</i> | | EEP492/EEP493 | 58.0 | 59.2 | 63.4 | 63.4 | 52.5 | 46.3 | 32.5 | Hand capture |
| 1/14/2014 | <i>Caretta caretta</i> | 9 | YYM412/EEP491 | 65.2 | 66.6 | 72.2 | 66.6 | 52.5 | 48.6 | 35.9 | Hand capture |
| 1/16/2014 | <i>Chelonia mydas</i> | | 989001001237905 | 24.5 | 24.8 | 25.8 | 22.3 | 20.5 | 21.3 | 1.9 | Dip net |
| 1/16/2014 | <i>Caretta caretta</i> | | EEP494/EEP495 | 62.1 | 63.2 | 68.4 | 64.8 | 54.3 | 51.9 | 37.8 | South net |
| 1/16/2014 | <i>Chelonia mydas</i> | | EEP496/EEP497 | 35.5 | 35.8 | 37.3 | 33.2 | 28.0 | 29.0 | 5.8 | South net |
| 1/16/2014 | <i>Caretta caretta</i> | | EEP498/EEP499 | 63.0 | 64.4 | 69.1 | 69.4 | 56.3 | 49.9 | 37.2 | South net |
| 1/16/2014 | <i>Chelonia mydas</i> | | EEP500 | 28.6 | 28.9 | 30.3 | 25.8 | 23.3 | 23.3 | 2.9 | Dip net |
| 1/16/2014 | <i>Caretta caretta</i> | | EEP501/EEP502 | 67.7 | 69.2 | 74.3 | 75.4 | 57.4 | 55.6 | 48.2 | South net |
| 1/17/2014 | <i>Caretta caretta</i> | 10 | EEP503/EEP504 | 82.9 | 85.1 | 94.0 | 81.9 | 67.8 | 64.0 | 95.0 | South net |
| 1/17/2014 | <i>Chelonia mydas</i> | 11 | EEP505/EEP506 | 49.0 | 49.1 | 52.4 | 45.5 | 38.1 | 40.6 | 15.6 | South net |
| 1/18/2014 | <i>Chelonia mydas</i> | 12 | BBR112/EEP507 | 47.3 | 47.6 | 49.6 | 45.6 | 37.6 | 38.8 | 13.0 | South net |
| 1/19/2014 | <i>Chelonia mydas</i> | | 989001001232687 | 28.8 | 29.0 | 30.5 | 26.6 | 23.1 | 24.6 | 3.0 | Dip net |
| 1/19/2014 | <i>Chelonia mydas</i> | | 989001001237899 | 29.0 | 29.5 | 30.8 | 25.6 | 23.5 | 24.2 | 3.0 | Dip net |
| 1/21/2014 | <i>Chelonia mydas</i> | 13 | BBP244 | 38.4 | 39.0 | 42.4 | 37.2 | 31.1 | 32.2 | 7.7 | Hand capture |

| Date | Species | Note | Tag #'s | SMCL (cm) | SSCL (cm) | CSCL (cm) | CMCW (cm) | SMCW (cm) | SMPL (cm) | Weight (kg) | Method |
|-----------|----------------------------|------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 1/21/2014 | <i>Caretta caretta</i> | 14 | BBR048/BBR049 | 57.8 | 58.7 | 64.8 | 60.5 | 46.2 | 44.2 | 28.1 | Hand capture |
| 1/21/2014 | <i>Chelonia mydas</i> | 15 | EEP333/EEP512 | 47.8 | 48.0 | 51.2 | 45.4 | 37.2 | 39.5 | 14.5 | Hand capture |
| 1/21/2014 | <i>Caretta caretta</i> | | EEP508/EEP509 | 65.1 | 66.6 | 70.0 | 70.1 | 56.2 | 52.3 | 42.3 | Hand capture |
| 1/21/2014 | <i>Caretta caretta</i> | | EEP510/EEP511 | 66.8 | 67.5 | 71.7 | 71.3 | 56.1 | 52.6 | 43.8 | Hand capture |
| 1/21/2014 | <i>Chelonia mydas</i> | | EEP513 | 32.6 | 32.7 | 35.0 | 31.1 | 27.4 | 28.3 | 4.6 | Hand capture |
| 1/21/2014 | <i>Chelonia mydas</i> | 16 | RCW140121-01 | 26.9 | 27.3 | 29.0 | 25.1 | 22.4 | 21.9 | 2.4 | Barrier net |
| 1/22/2014 | <i>Chelonia mydas</i> | 17 | EEA171/EEL989 | 39.3 | 39.5 | 41.2 | 36.0 | 30.6 | 32.9 | 7.6 | Hand capture |
| 1/22/2014 | <i>Chelonia mydas</i> | 18 | EEP514/EEP515 | 48.6 | 48.9 | 52.4 | 43.5 | 36.7 | 38.9 | 13.6 | Hand capture |
| 1/22/2014 | <i>Caretta caretta</i> | | EEP516/EEP517 | 55.3 | 56.8 | 61.1 | 59.7 | 48.9 | 46.7 | 27.0 | Hand capture |
| 1/22/2014 | <i>Chelonia mydas</i> | 19 | RCW140122-01 | 46.1 | 46.7 | 49.5 | 43.3 | 36.5 | 38.9 | 11.7 | Hand capture |
| 1/24/2014 | <i>Chelonia mydas</i> | 20 | STW140124-01 | 45.5 | 46.0 | 49.0 | 41.9 | 35.6 | 37.9 | 14.1 | Barrier net |
| 1/25/2014 | <i>Chelonia mydas</i> | 21 | EEP357/EEP358 | 34.3 | 34.6 | 35.9 | 32.6 | 27.7 | 28.1 | 4.8 | North net |
| 1/28/2014 | <i>Chelonia mydas</i> | | 989001001237870 | 26.7 | 27.0 | 28.2 | 24.2 | 21.5 | 22.2 | 2.4 | Dip net |
| 1/28/2014 | <i>Chelonia mydas</i> | 22 | EEA433 | 55.9 | 56.4 | 65.1 | 59.7 | 45.6 | 46.0 | 31.4 | South net |
| 1/28/2014 | <i>Caretta caretta</i> | | EEP518/EEP519 | 63.2 | 64.8 | 69.3 | 67.4 | 56.2 | 50.9 | 42.4 | North net |
| 1/29/2014 | <i>Chelonia mydas</i> | 23 | EEP304/EEP305 | 43.5 | 44.4 | 46.7 | 42.3 | 35.7 | 35.7 | 11.6 | South net |
| 1/29/2014 | <i>Chelonia mydas</i> | 24 | EEP453/EEP520 | 46.6 | 47.0 | 51.0 | 43.4 | 35.9 | 37.2 | 13.3 | South net |
| 1/30/2014 | <i>Lepidochelys kempii</i> | | EEP521/EEP522 | 46.1 | 46.9 | 49.2 | 54.0 | 47.9 | 53.7 | 16.1 | South net |
| 1/31/2014 | <i>Chelonia mydas</i> | 25 | EEP374/EEP375 | 49.2 | 49.4 | 52.9 | 46.8 | 38.9 | 40.0 | 15.9 | North net |

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/6/06, 4/3/09, 7/28/09, 12/3/09, 2/11/10, 9/3/10, 5/18/11, 1/9/12, 10/31/12, 4/11/13, 7/29/13 and 1/3/14.
2. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 4). Tumors appear to be regressing. Turtle missing 25% from terminal end of left rear flipper (healed).
3. REHAB (NON-CAUSAL). Stranding# RCW140104-01. Emaciated and lethargic juvenile loggerhead sea turtle recovered from the intake canal ("Barnacle Bill"). Removed from the temporary 5-inch barrier net in the morning. Small necrotic puncture wound in the right side of the carapace between the costal and marginal scutes. Inwater Research Group (IRG) biologists facilitated transfer to rehab facility by transporting the animal partway to Sea World.
4. REHAB (NON-CAUSAL). Stranding# RCW140104-02. Emaciated and lethargic subadult loggerhead sea turtle recovered from the intake canal ("Barnacle Bill"). Removed from the temporary 5-inch barrier net in the morning. IRG biologists facilitated transfer to rehab facility by transporting the animal partway to Sea World.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/4/07, 10/20/11, 7/21/12, 12/12/12, 1/6/13, 4/3/13 and 1/6/14. Turtle had an 8cm-long gash through the bone in the second left costal scute (healing).
6. REHAB (NON-CAUSAL). Stranding# STW140111-01. Subadult Kemp's ridley with large healing crack in right side of carapace (originates from between the 9th & 10th marginals and extends into the 3rd & 4th right costal scutes). Multiple cracks in plastron with the body cavity exposed by a 4cm x 6cm hole. Scar tissue and 1cm puncture wound in left anterior plastron. Injuries were not caused by entrainment (non-causal to power plant operations). After consultation with the Florida Fish and Wildlife Conservation Commission (FWC), IRG biologists transported the turtle to the Loggerhead Marinelife Center in Juno Beach for rehabilitation.
7. REHAB (NON-CAUSAL). Stranding# CRM140114-01. Subadult loggerhead missing portion of posterior carapace due to an apparent boat strike injury. The wound was open and still bleeding. There were also healing elongate wounds in the axillary area of each of the front flippers. Turtle picked up by the FWC stranding coordinator and transported to Gumbo Limbo Nature Center in Boca Raton for rehabilitation.
8. DEAD (NON-CAUSAL MORTALITY). Stranding# CRM140114-02. Adult hawksbill sea turtle recovered from bottom of intake canal during a snorkel survey. Only the skeletal remains were present. The species was determined from the appearance of the remaining scutes. The SSCL was estimated at 75.0cm (adult turtle, sex unknown). The animal was likely entrained postmortem.
9. STRANGE TAG (PIT & Inconel tag), originally tagged on 8/12/08 by South Carolina DNR Marine Resources off the coast of Amelia Island, FL. It was released the same day at 30° 32.459 N, 81° 24.407 W. Measurements were SSCL=64.9 cm, Weight=42 kg. Tag scar in left front flipper when captured. New Inconel tag #EEP491 applied to left front flipper on this capture event.
10. Adult female. Tail length = 210 mm.
11. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/29/08 and 1/17/14. New Inconel tags inserted on this capture event.
12. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/11/12, 5/6/12, 7/21/12, 12/14/12, 1/22/13, 3/31/13, 5/10/13 and 1/18/14. New Inconel tag #EEP507 inserted today in left front flipper.
13. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/12/11, 4/29/12, 7/7/12, 10/20/12, 2/23/13, 7/10/13 and 1/21/14. PAPILLOMAS (Balazs Tumor Score= 2 {moderate}, Total Tumor Score = 22). Turtle was very active and tumors did not significantly impede locomotion or interfere with the turtle's ability to forage and eat (released).
14. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/16/12, 5/5/12 and 1/21/14.
15. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/31/12, 4/27/13, 11/5/13 and 1/21/14. New Inconel tag #EEP512 inserted today in left front flipper.
16. DEAD (NON-CAUSAL MORTALITY). Stranding# RCW140121-01. Moderately decomposed juvenile

- green turtle found on the temporary 5-inch barrier net. Deep gashes in ventral surface of neck (possibly bitten). Not causal to power plant operations.
17. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 1/10/13, 9/5/13, 12/22/13 and 1/22/14.
 18. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/15/08, 3/23/10, 10/29/11, 12/27/11, 12/17/12 and 1/22/14. New Inconel tags inserted.
 19. REHAB (NON-CAUSAL). Stranding# RCW140122-01. PAPILLOMAS (Balazs Tumor Score = 3 {heavy}, Total Tumor Score = 37). Juvenile green turtle with heavy papillomas. The turtle was also underweight. After consultation with FWC, the turtle was picked up by the state stranding coordinator and taken to the Gumbo Limbo Nature Center in Boca Raton for rehabilitation. This incident was not considered causal to power plant operations.
 20. REHAB (NON-CAUSAL). Stranding# STW140124-01. PAPILLOMAS (Balazs Tumor Score = 3 {heavy}, Total Tumor Score = 47). Juvenile green turtle found on the barrier net in the morning. The turtle had a heavy tumor load with papillomas coming out of the plastron and mouth. After consultation with FWC, IRG personnel transported the animal to the Gumbo Limbo Nature Center in Boca Raton, FL for rehabilitation. This incident was not considered causal to power plant operations.
 21. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/22/13 and 1/25/14.
 22. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/13/02, 9/23/04, 11/2/04, 4/18/05, 7/2/05, 8/16/05, 9/25/05, 1/18/06, 3/13/06, 7/23/06, 8/14/06, 9/10/06, 10/22/06, 11/6/07, 2/12/08, 12/5/08, 10/27/09, 2/21/10, 9/30/10, 12/23/11, 1/20/13, 5/17/13, 10/3/13 and 1/28/14. Kyphotic & fat. Turtle had minor healed flipper damage. Moderate fresh scrape behind right eye.
 23. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/21/13 and 1/29/14. Turtle missing 15% from inside trailing edge of right rear flipper (healed).
 24. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/19/09, 3/8/10, 5/30/12, 3/31/13 and 1/29/14. Healing wound in right axilla (7cm long).
 25. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/30/08, 11/7/11, 5/20/12, 8/9/12, 12/2/13 and 1/31/14. Scar tissue from old wound in right axilla (1cm x 3cm). Old healed shark rakings on both sides of posterior carapace.

SMCL = Straight Minimum Carapace Length

SMCL = Straight Standard Carapace Length

CSCL = Curved Standard Carapace Length

CMCW = Curved Maximum Carapace Width

SMCW = Straight Maximum Carapace Width

SMPL = Straight Midline Plastron Length

| | Loggerheads (<i>Caretta caretta</i>) | | Green turtles (<i>Chelonia mydas</i>) | | Hawksbills (<i>Eretmochelys imbricata</i>) | | Leatherbacks (<i>Dermochelys coriacea</i>) | | Kemp's ridley (<i>Lepidochelys kempii</i>) | | Overall Totals | |
|-------------------------------------|---|---------------------|--|---------------------|---|---------------------|---|---------------------|---|---------------------|----------------|---------------------|
| | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date |
| Captures | 31 | 31 | 40 | 40 | 1 | 1 | 0 | 0 | 2 | 2 | 74 | 74 |
| Causal Mortalities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-causal Mortalities | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 2 |
| Causal Injuries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sent to rehab | 3 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | 6 |
| Fresh Scrapes | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date | Jan- | Year to Date |
| None | 9 | 9 | 12 | 12 | 1 | 1 | 0 | 0 | 1 | 1 | 23 | 23 |
| Minor | 20 | 20 | 26 | 26 | 0 | 0 | 0 | 0 | 1 | 1 | 47 | 47 |
| Moderate | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Severe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent with mod/sev scrapes | 6.5% | 6.5% | 5.0% | 5.0% | 0.0% | 0.0% | N/A | N/A | 0.0% | 0.0% | 5.4% | 5.4% |

| St Lucie Power Plant Canal Turtles | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | **2014 | Injury / Mortality Totals by Species |
|------------------------------------|----------------|------|------|------|------|------|------|------|------|------|------|------|--------|--------------------------------------|
| Loggerhead | Total Captures | 343 | 533 | 623 | 486 | 419 | 427 | 420 | 260 | 476 | 302 | 212 | 303 | 11 |
| | Injuries | 0 | 0 | 1 | 13 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 4,47% |
| | Mortalities | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| Green | Total Captures | 292 | 194 | 286 | 428 | 267 | 311 | 299 | 163 | 444 | 212 | 127 | 190 | 3,25% |
| | Injuries | 0 | 1 | 0 | 3 | 7 | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 16 |
| | Mortalities | 2 | 4 | 2 | 1 | 1 | 1 | 2 | 0 | 3 | 1 | 2 | 2 | 15 |
| Leatherback | Total Captures | 0 | 4 | 2 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 2 | 2 | 0 |
| | Injuries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mortalities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kemp's Ridley | Total Captures | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Injuries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mortalities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawksbill | Total Captures | 3 | 6 | 2 | 2 | 2 | 1 | 4 | 2 | 3 | 2 | 1 | 2 | 1 |
| | Injuries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Mortalities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Injury & Mortality Yearly Totals | | | | | | | | | | | | | | |
| Total Captures per Year | | | | | | | | | | | | | | |
| | 636 | 944 | 914 | 917 | 912 | 630 | 725 | 424 | 751 | 921 | 362 | 303 | 74 | 7,09% |

*The loggerhead causal injuries and mortalities in 2006 were all hatchlings.

** 2014 is a partial year.