## **NRR-PMDAPEm Resource**

From: Stephen Weege [steveweege@yahoo.com]

**Sent:** Friday, July 05, 2013 5:08 PM

To: Meghan Koperski

Cc: Dave Niebch; Mike Bresette; MTP@MyFWC.com; SCO@dep.state.fl.us; Vince Munne; Audra

- NOAA Federal; John Jones; Dave Clark; Ed Hollowell; Jodie Gless; Ken Frehafer; Shelley

Norton; EndangeredSpecies Resource

**Subject:** June 2013 FPL Marine Turtle Removal Monthly Report

Attachments: June 2013 Marine Turtle Captures.rtf; Monthly Report Notes 2013.xls; FPL St. Lucie Capture

Summary 2013.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** 

**June 2013** 

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for June 2013. This month, we captured forty-two (42) *Caretta caretta* and eleven (11) *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. There were no mortalities or sea turtles sent for rehabilitation in June.

Throughout the month, the 5-inch barrier net experienced severe loads of jellyfish that entered into the intake canal system; whereas algae entrainment was light. On June 1<sup>st</sup>, Underwater Engineering Services, Inc. (UESI) performed the quarterly net inspections on the barrier nets within the intake canal system (specifically, the temporary 5-inch; 8-inch A-1-A; and the Underwater Intrusion Detection System, or 10-inch U.I.D.S. nets). No holes were uncovered during the quarterly net inspection. On June 14<sup>th</sup>, UESI also inspected and cleaned the temporary 5-inch barrier net in response to a severe jellyfish event. Overall, the temporary barrier net has performed as designed and no turtles have been observed beyond the 5-inch net. To date, Florida Power & Light continues to work towards the installation of 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 2013. 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 was added this year that tracks all causal injuries and mortalities incurred by sea turtles at the St. Lucie Plant since 2001.

| $\mathbf{r}$ | 1      | C 1  | C    |    | 4      | 4     | • .1   |     | auestions. |
|--------------|--------|------|------|----|--------|-------|--------|-----|------------|
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Sincerely,

Steve

Steve Weege Sr. Environmental Specialist Inwater Research Group, Inc. 4160 NE Hyline Dr. Jensen Beach, FL 34957 <a href="mailto:sweege@inwater.org">sweege@inwater.org</a> (772) 349-7252 Hearing Identifier: NRR\_PMDA

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**Subject:** June 2013 FPL Marine Turtle Removal Monthly Report

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 From:
 Stephen Weege

Created By: steveweege@yahoo.com

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June 2013 Marine Turtle Captures.rtf 158777

Monthly Report Notes 2013.xls 166976

FPL St. Lucie Capture Summary 2013.xls 184384

Power Plant Causal Turtles.xlsx 14246

**Options** 

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## MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL JUNE 2013

| Date      | Species         | Note | Tag #'s       | SMCL<br>(cm) | SSCL<br>(cm) | CSCL<br>(cm) | CMCW<br>(cm) | SMCW<br>(cm) | SMPL<br>(cm) | Weight<br>(kg) | Method       |
|-----------|-----------------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 6/1/2013  | Caretta caretta | a 1  | EEA484/EEA485 | 85.3         | 86.4         | 93.1         | 84.3         | 69.1         | 64.1         | 87.3           | North net    |
| 6/1/2013  | Caretta caretta | a 2  | EEA486/EEA487 | 100.4        | 102.6        | 109.0        | 92.0         | 71.0         | 75.8         | 143.2          | South net    |
| 6/1/2013  | Caretta caretta | 9    | EEA488/EEA489 | 74.0         | 74.0         | 81.0         | 78.6         | 64.7         | 60.4         | 69.7           | Hand capture |
| 6/2/2013  | Caretta caretta | a 3  | EEA490/EEA491 | 88.5         | 93.6         | 99.1         | 86.0         | 65.7         | 66.9         | 96.2           | South net    |
| 6/2/2013  | Caretta caretta | 9    | EEA492/EEA493 | 81.6         | 82.8         | 90.5         | 84.5         | 66.7         | 62.4         | 78.1           | Hand capture |
| 6/2/2013  | Caretta caretta | a    | EEA494/EEA495 | 58.0         | 59.1         | 64.1         | 63.7         | 53.1         | 46.9         | 30.4           | Hand capture |
| 6/3/2013  | Caretta caretta | a 4  | EEA496/EEA497 | 90.1         | 91.3         | 99.9         | 85.4         | 69.9         | 67.1         | 105.4          | South net    |
| 6/5/2013  | Chelonia myda   | s 5  | BBR464/BBR465 | 39.5         | 39.9         | 42.6         | 37.0         | 31.8         | 32.3         | 8.4            | Hand capture |
| 6/5/2013  | Chelonia myda   | s 6  | EEA498/EEA499 | 94.4         | 94.5         | 98.9         | 87.7         | 68.4         | 77.3         | 104.7          | Hand capture |
| 6/5/2013  | Chelonia myda   | s 7  | EEA500/EEL501 | 94.4         | 94.7         | 100.7        | 91.5         | 76.7         | 75.7         | 111.3          | Hand capture |
| 6/5/2013  | Chelonia myda   | s 8  | EEL502/EEL503 | 97.8         | 98.0         | 104.1        | 96.4         | 74.5         | 77.4         | 130.1          | Hand capture |
| 6/5/2013  | Chelonia myda   | s 9  | UUB950        | 44.0         | 44.4         | 47.6         | 41.3         | 35.0         | 36.9         | 12.5           | Hand capture |
| 6/7/2013  | Caretta caretta | a 10 | EEL504/EEL505 | 99.3         | 99.3         | 107.9        | 90.9         | 71.4         | 76.2         | 133.8          | South net    |
| 6/9/2013  | Caretta caretta | 9    | EEL506/EEL507 | 79.7         | 80.5         | 64.4         | 87.9         | 82.0         | 61.8         | 78.0           | South net    |
| 6/10/2013 | Caretta caretta | a 11 | EEL508/EEL509 | 89.5         | 91.5         | 95.7         | 84.4         | 69.6         | 68.6         | 103.4          | South net    |

| Date      | Species         | Note | Tag #'s       | SMCL<br>(cm) | SSCL<br>(cm) | CSCL<br>(cm) | CMCW<br>(cm) | SMCW<br>(cm) | SMPL<br>(cm) | Weight (kg) | Method       |
|-----------|-----------------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| 6/10/2013 | Caretta caretta | 12   | EEL510/EEL511 | 88.8         | 90.0         | 94.5         | 82.9         | 67.4         | 69.4         | 90.5        | South net    |
| 6/12/2013 | Caretta caretta | 13   | EEL512/EEL513 | 99.9         | 100.0        | 104.4        | 96.9         | 76.6         | 78.8         | 131.2       | Hand capture |
| 6/12/2013 | Caretta caretta |      | EEL514/EEL515 | 77.3         | 79.2         | 86.2         | 82.3         | 64.5         | 63.4         | 72.4        | Hand capture |
| 6/12/2013 | Caretta caretta |      | EEL516/EEL518 | 61.9         | 62.2         | 66.5         | 65.1         | 52.8         | 48.2         | 33.4        | Hand capture |
| 6/13/2013 | Caretta caretta |      | EEL519/EEL520 | 65.7         | 66.7         | 72.5         | 68.4         | 54.0         | 50.1         | 39.5        | South net    |
| 6/14/2013 | Chelonia myda:  | 5 14 | EEL521/EEL522 | 50.6         | 50.9         | 54.3         | 46.7         | 40.9         | 42.3         | 17.8        | South net    |
| 6/14/2013 | Caretta caretta |      | EEL523/EEL524 | 59.7         | 60.6         | 66.8         | 63.4         | 53.6         | 46.7         | 33.3        | North net    |
| 6/15/2013 | Chelonia myda:  | s 15 | BBR464/BBR465 | 39.2         | 39.4         | 43.0         | 37.0         | 31.9         | 32.1         | 7.9         | Hand capture |
| 6/15/2013 | Chelonia myda:  | s 16 | EEL517/EEL525 | 106.1        | 106.3        | 112.6        | 101.4        | 79.3         | 85.5         | 171.1       | Hand capture |
| 6/15/2013 | Caretta caretta | 17   | EEL551/EEL552 | 87.7         | 88.0         | 93.0         | 84.9         | 67.5         | 67.5         | 85.0        | Hand capture |
| 6/16/2013 | Caretta caretta | 18   | EEL553/EEL554 | 93.1         | 95.4         | 102.6        | 89.7         | 72.9         | 75.7         | 131.7       | South net    |
| 6/16/2013 | Caretta caretta | 19   | EEL555/EEL556 | 90.1         | 91.2         | 97.1         | 92.0         | 74.5         | 73.8         | 119.9       | Hand capture |
| 6/16/2013 | Caretta caretta | 20   | EEL557/EEL558 | 104.0        | 105.6        | 112.7        | 97.7         | 78.8         | 82.3         | 170.1       | North net    |
| 6/16/2013 | Caretta caretta |      | EEL559/EEL560 | 68.4         | 68.7         | 74.3         | 69.6         | 55.4         | 50.9         | 39.7        | Hand capture |
| 6/20/2013 | Caretta caretta |      | EEL561/EEL562 | 71.6         | 72.9         | 77.6         | 74.1         | 57.7         | 55.4         | 56.1        | South net    |
| 6/21/2013 | Caretta caretta | 21   | EEL563/EEL564 | 95.7         | 96.5         | 102.4        | 92.6         | 71.9         | 75.4         | 135.9       | North net    |
| 6/21/2013 | Chelonia myda:  | 5    | EEL565/EEL566 | 47.4         | 48.8         | 50.6         | 43.3         | 37.4         | 39.1         | 12.9        | South net    |
| 6/24/2013 | Caretta caretta |      | EEL567/EEL568 | 82.1         | 82.6         | 87.7         | 84.3         | 61.4         | 64.2         | 81.0        | South net    |
| 6/24/2013 | Caretta caretta | 22   | EEL569/EEL570 | 89.7         | 90.8         | 101.0        | 89.0         | 67.6         | 68.0         | 103.7       | South net    |
| 6/26/2013 | Caretta caretta |      | EEL571/EEL572 | 56.2         | 57.1         | 63.0         | 61.9         | 50.8         | 45.8         | 27.0        | Hand capture |

| Date      | Species         | Note  | Tag #'s       | SMCL<br>(cm) | SSCL<br>(cm) | CSCL<br>(cm) | CMCW<br>(cm) | SMCW<br>(cm) | SMPL<br>(cm) | Weight<br>(kg) | Method       |
|-----------|-----------------|-------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 6/26/2013 | Caretta caretta | a     | EEL573/EEL574 | 59.4         | 60.4         | 65.6         | 62.8         | 51.2         | 47.3         | 33.3           | Hand capture |
| 6/26/2013 | Caretta carett  | a     | EEL575/EEL576 | 56.2         | 57.4         | 63.5         | 62.3         | 50.9         | 48.1         | 29.5           | Hand capture |
| 6/27/2013 | Caretta carett  | a 23  | A8438/A8439   | 61.2         | 62.6         | 69.1         | 66.3         | 55.6         | 49.1         | 38.8           | Hand capture |
| 6/27/2013 | Caretta carett  | а     | EEL577/EEL578 |              |              |              |              |              | 46.6         | 32.9           | Hand capture |
| 6/28/2013 | Caretta carett  | a 24  | EEL579/EEL580 | 86.1         | 87.7         | 96.2         | 86.5         | 66.2         | 62.7         | 80.8           | Hand capture |
| 6/28/2013 | Caretta carett  | a     | EEL581/EEL582 | 78.5         | 79.7         | 85.8         | 78.3         | 62.6         | 62.8         | 75.9           | Hand capture |
| 6/28/2013 | Caretta carett  | a 25  | EEL583/EEL584 | 86.8         | 87.4         | 92.2         | 84.4         | 66.2         | 67.3         | 85.4           | Hand capture |
| 6/28/2013 | Chelonia myda   | ıs 26 | EEL586/EEL587 | 41.7         | 42.1         | 45.2         | 39.4         | 33.2         | 35.2         | 9.4            | Hand capture |
| 6/28/2013 | Caretta carett  | a 27  | EEL588/EEL589 | 98.6         | 98.7         | 107.7        | 94.8         | 73.8         | 75.9         | 147.6          | Hand capture |
| 6/28/2013 | Caretta carett  | a 28  | EEL590/EEL591 | 90.8         | 92.2         | 99.1         | 96.4         | 74.1         | 71.0         | 127.1          | Hand capture |
| 6/28/2013 | Caretta carett  | a 29  | EEL592/EEL593 | 94.5         | 96.5         | 101.4        | 89.2         | 73.9         | 75.3         | 130.1          | North net    |
| 6/28/2013 | Caretta carett  | a 30  | EEL594/EEL595 | 84.7         | 85.2         | 93.5         | 85.1         | 67.8         | 66.4         | 93.8           | Hand capture |
| 6/29/2013 | Caretta carett  | a 31  | EEL596/EEL597 | 98.5         | 100.3        | 110.0        | 94.7         | 74.2         | 75.8         | 135.7          | Hand capture |
| 6/29/2013 | Caretta carett  | a 32  | EEL598/EEL599 | 88.3         | 89.3         | 98.0         | 85.7         | 66.0         | 68.5         | 98.5           | Hand capture |
| 6/29/2013 | Caretta carett  | a     | EEL600/EEL601 | 67.2         | 68.7         | 72.8         | 71.3         | 58.5         | 54.7         | 48.6           | Hand capture |
| 6/29/2013 | Caretta carett  | a     | EEL602/EEL603 | 65.3         | 66.5         | 71.5         | 70.0         | 57.6         | 51.8         | 42.4           | Hand capture |
| 6/29/2013 | Chelonia myda   | ıs 33 | EEL604/EEL605 | 91.1         | 92.4         | 99.5         | 91.0         | 72.7         | 75.3         | 123.8          | Hand capture |
| 6/29/2013 | Caretta carett  | а     | EEL606/EEL607 | 60.3         | 61.4         | 67.5         | 63.5         | 54.1         | 46.7         | 31.4           | Hand capture |

- 1. Adult female. Tail length = 208 mm. Deep moderate fresh scrape on top of head.
- 2. Adult female. Tail length = 235 mm. Turtle missing 50% of right front flipper (healed). Possible shark attack victim based on old healed rake marks on carapace and extensive scar tissue in remaining portion of flipper.
- 3. Adult female. Tail length = 255 mm.
- 4. Adult female. Tail length = 229 mm.
- 5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/24/12, 1/30/13, 5/8/13 and 6/5/13. Skull exposed from moderate fresh scrape behind right eye.
- 6. Adult male. Tail length = 367 mm. Turtle has soft plastron.
- Adult male. Tail length = 420 mm. Multiple deep fresh scrapes in anterior carapace and skull exposed from deep, moderate fresh scrape to top of head.
- 8. Adult female. Tail length = 307 mm. Mating wounds from males' claws in both shoulders at margins of carapace.
- RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/9/10, 4/3/13 and 6/5/13
- 10. Adult female. Tail length = 190 mm.
- 11. Adult female. Tail length = 290 mm. Partially healed wounds on the right front flipper. Shark rakings in the plastron.
- 12. Adult female. Tail length = 205 mm.
- 13. Adult female. Tail length = 277 mm. Possible mating scars on ventral surface of neck.
- 14. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/6/08, 5/18/11, 10/11/11 and 6/14/13.
- 15. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/24/12, 1/30/13, 5/8/13, 6/5/13 and 6/15/13.
- 16. Adult female. Tail length = 305 mm. Mating wounds evident.
- 17. Adult female. Tail length = 215 mm.
- 18. Adult female. Tail length = 228 mm.
- 19. Adult female. Tail length = 234 mm.
- 20. Adult female. Tail length = 281 mm. Deep cuts (healing) in both front flippers and ventral side of neck cause unknown. Deep fresh scrape above right eye (skull exposed). Broken phalanges in left front flipper and bleeding cuts in both front flippers.
- 21. Adult female. Tail length = 309 mm.
- 22. Adult female. Tail length = 171 mm. Turtle missing 25% of right front flipper (healed).
- 23. STRANGE TAG (Inconel tags A8438 and A8439). Hooking wound in right shoulder.
- 24. Adult female. Tail length = 255 mm. Possible hooking wound behind lower tomium.
- 25. Adult female. Tail length = 170 mm.
- 26. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/19/08 and 6/28/13.
- 27. Adult female. Tail length = 222 mm.
- 28. Adult female. Tail length = 222 mm.
- 29. Adult female. Tail length = 305 mm.
- 30. Adult female. Tail length = 172 mm.
- 31. Adult female. Tail length = 283 mm.
- 32. Adult female. Tail length = 175 mm.
- 33. Adult female. Tail length = 245 mm. Turtle has minor healed flipper damage and multiple wounds between rear flippers (inguinal and tail). Shark rakings in 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 |              | Green (Chel |                 | Hawk<br>(Eretmo | sbills<br>ochelys | Leathe<br>(Dermo |              | Kemp's | s ridley<br>ochelys |         |                 |
|----------------------------|-------------|--------------|-------------|-----------------|-----------------|-------------------|------------------|--------------|--------|---------------------|---------|-----------------|
|                            | (Caretta    | caretta)     | myd         | as)             | imbri           | •                 | coriacea)        |              | kem    | •                   | Overall | Totals          |
|                            | Jun-13      | Year to Date | Jun-13      | Year to<br>Date | Jun-13          | Year to Date      | Jun-13           | Year to Date | Jun-13 | Year to Date        | Jun-13  | Year to<br>Date |
| Captures                   | 42          | 172          | 11          | 103             | 0               | 2                 | 0                | 1            | 0      | 0                   | 53      | 278             |
| Causal<br>Mortalities      | 0           | 0            | 0           | 0               | 0               | 0                 | 0                | 0            | 0      | 0                   | 0       | 0               |
| Non-causal<br>Mortalities  | 0           | 1            | 0           | 1               | 0               | 0                 | 0                | 0            | 0      | 0                   | 0       | 2               |
| Causal<br>Injuries         | 0           | 0            | 0           | 0               | 0               | 0                 | 0                | 0            | 0      | 0                   | 0       | 0               |
| Sent to rehab              | 0           | 3            | 0           | 3               | 0               | 0                 | 0                | 0            | 0      | 0                   | 0       | 6               |
| Fresh<br>Scrapes           | Jun-13      | Year to Date | Jun-13      | Year to<br>Date | Jun-13          | Year to Date      | Jun-13           | Year to Date | Jun-13 | Year to Date        | Jun-13  | Year to<br>Date |
| None                       | 13          | 31           | 0           | 13              | 0               | 1                 | 0                | 0            | 0      | 0                   | 13      | 45              |
| Minor                      | 26          | 129          | 9           | 78              | 0               | 0                 | 0                | 1            | 0      | 0                   | 35      | 208             |
| Moderate                   | 3           | 12           | 2           | 12              | 0               | 1                 | 0                | 0            | 0      | 0                   | 5       | 25              |
| Severe                     | 0           | 0            | 0           | 0               | 0               | 0                 | 0                | 0            | 0      | 0                   | 0       | 0               |
| Percent<br>with<br>mod/sev | 7 10/       | 7.00/        | 10 20/      | 11.70/          | NI/A            | 50.00/            | NI/A             | 0.09/        | NI/A   | NI/A                | 0.40/   | 9.0%            |
| scrapes                    | 7.1%        | 7.0%         | 18.2%       | 11.7%           | N/A             | 50.0%             | N/A              | 0.0%         | N/A    | N/A                 | 9.4%    | 9.0             |

| St Lucie Power Pl       | ant Causal Turtles | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | **2013 | Injury / Mortality<br>Totals by Species |
|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|---|
|                         | Total Captures     | 270  | 341  | 538  | 623  | 484  | 419  | 227  | 420  | 260  | 295  | 302  | 232  | 172    | 4,583                                   |
| Loggerhead              | Injuries           | 0    | 0    | 0    | 0    | 1    | *3   | 0    | 1    | 1    | 0    | 0    | 1    | 0      | 7                                       |
|                         | Mortalities        | 1    | 0    | 0    | 1    | 0    | *21  | 0    | 0    | 0    | 1    | 0    | 0    | 0      | 24                                      |
|                         | Total Captures     | 321  | 292  | 394  | 286  | 428  | 267  | 101  | 299  | 161  | 444  | 217  | 127  | 103    | 3,440                                   |
| Green                   | Injuries           | 0    | 0    | 1    | 0    | 3    | 7    | 0    | 2    | 2    | 1    | 0    | 0    | 0      | 16                                      |
|                         | Mortalities        | 4    | 2    | 1    | 1    | 1    | 1    | 1    | 2    | 0    | 3    | 1    | 2    | 0      | 19                                      |
|                         | Total Captures     | 2    | 0    | 4    | 2    | 0    | 1    | 1    | 0    | 1    | 2    | 0    | 2    | 1      | 16                                      |
| Leatherback             | Injuries           | 0    | 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      | 0                                       |
|                         | Total Captures     | 1    | 0    | 2    | 1    | 3    | 3    | 0    | 2    | 0    | 7    | 0    | 0    | 0      | 19                                      |
| Kemp's Ridley           | Injuries           | 0    | 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      | 0                                       |
|                         | Total Captures     | 6    | 3    | 6    | 2    | 2    | 2    | 1    | - 4  | 2    | 3    | 2    | 1    | 2      | 36                                      |
| Hawksbill               | Injuries           | 0    | 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      | 0                                       |
| Injury / Mortal         | ity Yearly Totals  | 5    | 2    | 2    | 2    | 5    | 32   | 1    | 5    | 3    | 5    | 1    | 3    | 0      | 66                                      |
| Total Captures per Year |                    | 600  | 636  | 944  | 914  | 917  | 692  | 330  | 725  | 424  | 751  | 521  | 362  | 278    | 8,094                                   |

\*The loggerhead causal injuries and mortalities in 2006 were all hatchlings.
\*\*2013 is a partial year