

NRR-PMDAPEm Resource

From: Steve Weege [steveewege@gmail.com]
Sent: Wednesday, May 06, 2015 11:40 AM
To: Meghan Koperski
Cc: Ed Hollowell; Jodie Gless; John Jones; Ken Frehafer; Marine Turtle Permit; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; debbie.spring@noaa.gov; Max Toebe
Subject: April 2015 FPL Marine Turtle Removal Monthly Report
Attachments: April 2015 Marine Turtle Captures.rtf; Monthly Report Notes 2015.xls; FPL St. Lucie Capture Summary 2015.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
April 2015**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for April 2015. This month, we captured eight (8) *Caretta caretta* and six (6) *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. Two sea turtle were sent for rehabilitation and there were no mortalities recorded during the month of April. 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 a stranding form was filed with the state through the Sea Turtle Stranding and Salvage Network.

There were two sea turtles that were sent to rehabilitation facilities for non-causal injuries this month. On April 1st, a subadult loggerhead was captured with a fishing hook embedded in its right front flipper; the turtle was otherwise healthy. FWC transported the animal to the Loggerhead Marinelifelife Center (LMC) in Juno Beach for rehabilitation. On April 10th, a severely emaciated adult male loggerhead was removed from the intake canal. The turtle appeared to have been entrained just prior to its capture in the tangle nets. This individual was taken to the Loggerhead Marinelifelife Center by LMC staff for rehab. Both of these live strandings were not considered causal to power plant operations.

Throughout the month, the permanent 5-inch barrier net experienced light loads of algae and jellyfish that entered into the intake canal system. The 30-day power plant outage that began on March 22nd has concluded. However, on April 17th both units were offline during a spring tide (an astronomical phenomenon that augments tidal intensity). The higher than normal baseline water levels that already occur during outage conditions (due to reduced water flow) were further amplified by these strong tides. Consequently, a one foot section at both ends of the permanent 5-inch barrier net were submerged by up to three inches during the high tides for several days. In response, Inwater Research Group biologists increased monitoring of the intake canal and no turtles have been observed beyond the primary barrier net. Normal operating conditions have resumed and the water table has dropped to a level where tidal variations should no longer significantly impact barrier net height.

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 2015. 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
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Sent Date: 5/6/2015 11:40:25 AM
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From: Steve Weege

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Files	Size	Date & Time
MESSAGE	3517	5/6/2015 11:40:38 AM
April 2015 Marine Turtle Captures.rtf		76592
Monthly Report Notes 2015.xls	126016	
FPL St. Lucie Capture Summary 2015.xls		178240
Power Plant Causal Turtles.xlsx		18293

Options

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
APRIL 2015**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
4/1/2015	<i>Caretta caretta</i>	1	JRG150401-01	78.6	79.2	86.6	78.6	65.3	59.7	62.0	South net
4/4/2015	<i>Caretta caretta</i>		LLH630/LLH631	55.5	56.0	61.0	60.3	46.5	42.9	25.9	South net
4/7/2015	<i>Chelonia mydas</i>	2	LLA096/LLA097	50.9	51.0	53.7	45.9	36.7	41.5	14.8	South net
4/7/2015	<i>Caretta caretta</i>		LLH632/LLH633	63.4	64.7	68.8	64.9	53.7	47.2	39.0	South net
4/9/2015	<i>Chelonia mydas</i>		LLA634/LLH635	42.6	43.0	45.2	39.1	32.2	34.4	9.9	South net
4/9/2015	<i>Chelonia mydas</i>	3	LLH636/LLH637	56.7	57.3	60.3	53.9	44.5	46.1	22.6	South net
4/10/2015	<i>Caretta caretta</i>		LLH638/LLH639	52.9	53.7	57.9	57.5	46.5	43.5	25.7	North net
4/10/2015	<i>Caretta caretta</i>	4	RCW150410-01	90.0	91.2	98.0	85.5	67.8	57.0	55.0	North net
4/11/2015	<i>Caretta caretta</i>		LLH640/LLH641	62.5	63.7	68.5	67.5	54.6	49.7	40.9	North net
4/14/2015	<i>Chelonia mydas</i>	5	EEP405	54.7	54.9	58.2	50.7	43.5	47.3	23.3	Hand capture
4/14/2015	<i>Caretta caretta</i>		LLH642/LLH643	75.3	77.0	82.9	76.5	61.0	60.1	51.0	North net
4/16/2015	<i>Chelonia mydas</i>	6	4A0B032757	47.8	48.3	51.3	46.2	38.7	39.4	13.4	Hand capture
4/16/2015	<i>Chelonia mydas</i>	7	EEP686	51.9	52.0	55.9	51.5	41.7	42.2	18.8	Hand capture
4/28/2015	<i>Caretta caretta</i>		LLA644/LLA645	63.6	64.4	69.2	65.1	53.5	50.3	41.2	North net

Monthly reports due by the 10th.

Notes should include the following:

Adults

Recaptures

Strange Tags

Tag Returns

Papillomas

Mortalities

Rehab Turtles

Hybrids (choose >)

Intake Well Turtles

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/5/08, 5/10/11, 6/13/11, 7/5/11, 7/7/12, 2/5/13, 3/20/13, 5/7/14 and 1/3/15. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 25).
2. 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, 1/21/14, 3/7/14, 5/4/14 and 1/10/15. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 6). Tumors on base of front flippers appear smooth, possibly regressing.
3. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 22).
4. 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, 1/22/14 and 1/13/15. Turtle missing 20% of right front flipper (healed).
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/18/11, 4/26/12, 7/7/12, 1/30/13, 5/13/13, 11/14/13, 12/16/13, 7/15/14, 9/12/14 and 1/23/15. Small necrotic patches noted on flippers.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/29/08, 1/17/14, 5/17/14 and 1/27/15.

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NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/29/09, 7/24/09, 11/18/11, 4/11/13 and 2/9/15. Hourglass shaped carapace (possible old constriction injury).
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/16/99, 9/19/01, 9/1/02, 6/24/03, 11/24/04, 4/9/05, 9/7/05, 4/10/06, 5/2/06, 8/24/06, 4/18/07, 5/20/08, 7/20/08, 10/7/08, 1/11/10 and 2/10/15.
3. REHAB (NON-CAUSAL). STSSN# STW150212-01. Underweight and lethargic subadult loggerhead with extensive wounds on dorsal surface of neck and head. Injuries were not from entrainment into the intake canal; wounds in the process of healing. The turtle was transported by Inwater Research Group biologists, in coordination with Ecological Associates, to the Gumbo Limbo Nature Center in Juno Beach for rehabilitation.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/19/12 and 2/13/15.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/16/12 and 2/14/15.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/19/12 and 2/17/15.
7. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 18).
8. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/12/11 and 2/22/15.
9. 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, 1/29/14, 9/5/14 and 2/25/15.
10. 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, 1/18/14, 4/22/14, 9/16/14 and 2/26/15. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 33).
11. DEAD (CAUSAL MORTALITY). STSSN# RCW150228-01. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 66). Turtle found on the temporary 5-inch barrier net in the morning. It was stuck on the barrier net two inches below the waterline. The turtle was convulsing when it was brought onto the boat and promptly died. Preliminary determination by IRG biologists was causal due to drowning. Held on ice for necropsy by Dr. Nancy Mettee, DVM. The necropsy report stated that "based on the debilitated condition of this turtle death was imminent with forced submergence/ drowning as the final cause of death."

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NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/29/08, 1/17/14, 5/7/14, 1/27/15 and 3/1/15.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/16/10, 6/22/14, 8/29/14, 9/28/14 and 3/2/15.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/6/14 and 3/2/15.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/18/14 and 3/5/15.
5. PAPILOMAS (Balazs Tumor Score = 1{light}, Total Tumor Score = 1). Turtle missing 30% of left rear flipper (healed). TAG RETURN (3/21/15), ocean side of SR A1A in Sebastian Inlet State Park - fishing hook removed and turtle released on site.
6. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 28). Tumors appear to be regressing. Turtle missing 40% of right rear flipper (healed).
7. DEAD (NON-CAUSAL MORTALITY). Stranding# STW150306-01. Juvenile green turtle found dead on barrier net (held for necropsy). Boat prop wound to right side of head. Remains saved for necropsy by Dr. Nancy Mettee, DVM. Necropsy findings were consistent with the conclusion of a non-causal mortality.
8. 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, 6/15/13 and 3/8/15. Moderate scrapes in anterior and mid region of carapace.
9. 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, 1/6/14, 7/26/14, 11/23/14 and 3/10/15.
PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 9).
10. 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, 1/3/14, 7/7/14 and 3/11/15.
11. 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, 1/31/14, 10/24/14 and 3/11/15.
12. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/6/08, 5/18/11, 10/11/11, 6/14/13, 6/23/14 and 3/11/15.
13. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 22). Extra vertebral scute.
14. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/18/11, 4/26/12, 7/7/12, 1/30/13, 5/13/13, 11/14/13, 12/16/13, 7/15/14, 9/12/14, 1/23/15 and 3/12/15.
Moderate deep fresh scrape across first vertebral and adjacent right costal scute.
15. REHAB (NON-CAUSAL). Stranding# STW150312-01. Turtle missing 80% of right front flipper (healed) and 8 cm scar in right shoulder. Old boat strike injury to posterior carapace (43 cm long by 26 cm wide); posteriormost 25 cm still open and necrotic. Florida Fish and Wildlife Conservation Commission (FWC) transported the animal to Sea World for rehabilitation.
16. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/7/05, 9/4/05, 9/25/10, 9/28/11, 7/25/14 and 3/15/15.
17. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/10/05, 9/21/06, 12/18/06, 4/21/07, 12/6/07, 5/25/08, 10/9/08, 6/15/09, 6/13/11, 1/4/13, 3/1/13, 5/23/13 and 3/15/15. New Inconel tags inserted on this capture event.
18. DEAD (NON-CAUSAL MORTALITY). Stranding# CRM150317-01. Moderately decomposed, found floating at surface of permanent 5-inch barrier net. Missing left rear flipper (not healed). No other injuries or abnormalities.
19. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/2/12, 10/28/12 and 3/17/15. No tag scars observed.
20. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/21/14, 6/22/14 and 3/22/15.
21. Adult male. Tail length = 445 mm. Skull exposed from moderate fresh scrapes to top of head and deep

- moderate fresh scrapes in posterior plastron. Soft plastron. Sex determined from tail length since the straight standard carapace length (SCL) was less than 85.0 cm.
22. STRANGE TAG (1/10/10), Brevard County cold stun turtle found on Merritt Island on 1/10/10 and released at Catfish Creek in Titusville, FL on 1/17/10. SCL at release was 35.4 cm. Malformed (dome-shaped) carapace.
 23. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/23/09, 3/23/10, 9/22/10, 1/31/11, 10/13/11, 11/17/11, 12/20/12 and 3/27/15. New Inconel tags inserted on this capture event.
 24. REHAB (NON-CAUSAL). Stranding# STW150327-01. Shark attack victim. Turtle missing 70% of both front flippers (healing). Healing and necrotic wounds in neck, right axilla, and left rear flipper from shark attack. Recent shark bites/ punctures in carapace and plastron. Three healed, parallel cuts in left posterior carapace (possibly an old prop injury). Inwater Research Group biologist transported the turtle to the FWC Tequesta Field Lab. To be euthanized by veterinarian per FWC request.
 25. 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, 6/15/13, 3/8/15 and 3/28/15.

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1. REHAB (NON-CAUSAL). Stranding# JRG0150401-01. Subadult loggerhead with a fishing hook embedded in ventral side of right front flipper. Turtle otherwise healthy. Transported by FWC Stranding Coordinator Morgan Young to Loggerhead Marinelife Center (LMC) in Juno Beach for rehabilitation.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/16/09, 5/22/11, 12/9/12, 5/24/13, 8/30/14 and 4/7/15.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/17/10, 10/8/13, 11/24/13 and 4/9/15. New Inconel tags inserted on this capture event. Dead bone exposed from small notches in left posterior carapace (not from entrapment).
4. Adult male. Tail length = 405 mm. REHAB (NON-CAUSAL). Stranding# RCW150410-01. Severely emaciated adult male loggerhead removed from intake canal. Appeared to have been entrained just prior to capture in tangle nets. Taken to Loggerhead Marinelife Center by LMC staff for rehab. Weight estimated at 55kg.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/18/11, 4/26/12, 7/7/12, 1/30/13, 5/13/13, 11/14/13, 12/16/13, 7/15/14, 9/12/14, 1/23/15, 3/12/15 and 4/14/15.
6. 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, 1/18/14, 4/22/14, 9/16/14, 2/26/15 and 4/16/15. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 37).
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/5/08, 5/10/11, 6/13/11, 7/25/11, 7/7/12, 2/5/13, 3/20/13, 5/7/14, 1/3/15 and 4/16/15. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 20).

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	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-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date
Captures	28	28	14	14	0	0	0	0	1	1	43	43
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Non-causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	0	0	0	0	0	0	0	0	0	0	0
Fresh Scrapes	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date	Jan-15	Year to Date
None	3	3	3	3	0	0	0	0	0	0	6	6
Minor	25	25	9	9	0	0	0	0	1	1	35	35
Moderate	0	0	2	2	0	0	0	0	0	0	2	2
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	0.0%	14.3%	14.3%	N/A	N/A	N/A	N/A	0.0%	0.0%	4.7%	4.7%

	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	
	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date
Captures	28	56	26	40	0	0	0	0	2	3	56	99
Causal Mortalities	0	0	1	1	0	0	0	0	0	0	1	1
Non-causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	1	1	0	0	0	0	0	0	0	0	1	1
Fresh Scrapes	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date	Feb-15	Year to Date
None	6	9	6	9	0	0	0	0	0	0	12	18
Minor	22	47	20	29	0	0	0	0	2	3	44	79
Moderate	0	0	0	2	0	0	0	0	0	0	0	2
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	0.0%	0.0%	5.0%	N/A	N/A	N/A	N/A	0.0%	0.0%	0.0%	2.0%

	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	
	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date
Captures	42	98	30	70	0	0	1	1	3	6	76	175
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	2	2	0	0	0	0	0	0	2	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	2	3	0	0	0	0	0	0	0	0	2	3
Fresh Scrapes	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date	Mar-15	Year to Date
None	0	9	0	9	0	0	0	0	0	0	0	18
Minor	0	47	0	29	0	0	0	0	0	3	0	79
Moderate	0	0	0	2	0	0	0	0	0	0	0	2
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	0.0%	0.0%	2.9%	N/A	N/A	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%

	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	
	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date
Captures	8	106	6	76	0	0	0	1	0	6	14	189
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	2	5	0	0	0	0	0	0	0	0	2	5
Fresh Scrapes	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date	Apr-15	Year to Date
None	4	13	2	11	0	0	0	0	0	0	6	24
Minor	3	50	4	33	0	0	0	0	0	3	7	86
Moderate	1	1	0	2	0	0	0	0	0	0	1	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	12.5%	0.9%	0.0%	2.6%	N/A	N/A	N/A	0.0%	N/A	0.0%	7.1%	1.6%

	Loggerheads <i>(Caretta caretta)</i>		Green turtles <i>(Chelonia mydas)</i>		Hawksbills <i>(Eretmochelys imbricata)</i>		Leatherbacks <i>(Dermochelys coriacea)</i>		Kemp's <i>(Lepido kem)</i>
	May-15	Year to Date	May-15	Year to Date	May-15	Year to Date	May-15	Year to Date	May-15
Captures	0	106	0	76	0	0	0	1	0
Causal Mortalities	0	0	0	1	0	0	0	0	0
Non-causal Mortalities	0	0	0	2	0	0	0	0	0
Causal Injuries	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0
Fresh Scrapes	May-15	Year to Date	May-15	Year to Date	May-15	Year to Date	May-15	Year to Date	May-15
None	0	13	0	11	0	0	0	0	0
Minor	0	50	0	33	0	0	0	0	0
Moderate	0	1	0	2	0	0	0	0	0
Severe	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!

ridley chelys vii)	Overall Totals	
Year to Date	May-15	Year to Date
6	0	189
0	0	1
0	0	2
0	0	0
0	0	5
Year to Date	May-15	Year to Date
0	0	24
3	0	86
0	0	3
0	0	0
0.0%	#DIV/0!	1.6%

	Loggerheads <i>(Caretta caretta)</i>		Green turtles <i>(Chelonia mydas)</i>		Hawksbills <i>(Eretmochelys imbricata)</i>		Leatherbacks <i>(Dermochelys coriacea)</i>		Kemp's <i>(Lepido kem)</i>
	Jun-15	Year to Date	Jun-15	Year to Date	Jun-15	Year to Date	Jun-15	Year to Date	Jun-15
Captures	0	106	0	76	0	0	0	1	0
Causal Mortalities	0	0	0	1	0	0	0	0	0
Non-causal Mortalities	0	0	0	2	0	0	0	0	0
Causal Injuries	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0
Fresh Scrapes	Jun-15	Year to Date	Jun-15	Year to Date	Jun-15	Year to Date	Jun-15	Year to Date	Jun-15
None	0	13	0	11	0	0	0	0	0
Minor	0	50	0	33	0	0	0	0	0
Moderate	0	1	0	2	0	0	0	0	0
Severe	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!

ridley chelys vii)	Overall Totals	
Year to Date	Jun-15	Year to Date
6	0	189
0	0	1
0	0	2
0	0	0
0	0	5
Year to Date	Jun-15	Year to Date
0	0	24
3	0	86
0	0	3
0	0	0
0.0%	#DIV/0!	1.6%

	Loggerheads <i>(Caretta caretta)</i>		Green turtles <i>(Chelonia mydas)</i>		Hawksbills <i>(Eretmochelys imbricata)</i>		Leatherbacks <i>(Dermochelys coriacea)</i>		Kemp's <i>(Lepido kem)</i>
	Jul-15	Year to Date	Jul-15	Year to Date	Jul-15	Year to Date	Jul-15	Year to Date	Jul-15
Captures	0	106	0	76	0	0	0	1	0
Causal Mortalities	0	0	0	1	0	0	0	0	0
Non-causal Mortalities	0	0	0	2	0	0	0	0	0
Causal Injuries	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0
Fresh Scrapes	Jul-15	Year to Date	Jul-15	Year to Date	Jul-15	Year to Date	Jul-15	Year to Date	Jul-15
None	0	13	0	11	0	0	0	0	0
Minor	0	50	0	33	0	0	0	0	0
Moderate	0	1	0	2	0	0	0	0	0
Severe	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!

ridley chelys vii)	Overall Totals	
Year to Date	Jul-15	Year to Date
6	0	189
0	0	1
0	0	2
0	0	0
0	0	5
Year to Date	Jul-15	Year to Date
0	0	24
3	0	86
0	0	3
0	0	0
0.0%	#DIV/0!	1.6%

	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	
	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date
Captures	0	106	0	76	0	0	0	1	0	6	0	189
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0	0	0	5
Fresh Scrapes	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date	Aug-15	Year to Date
None	0	13	0	11	0	0	0	0	0	0	0	24
Minor	0	50	0	33	0	0	0	0	0	3	0	86
Moderate	0	1	0	2	0	0	0	0	0	0	0	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!	0.0%	#DIV/0!	1.6%

	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	
	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date
Captures	0	106	0	76	0	0	0	1	0	6	0	189
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0	0	0	5
Fresh Scrapes	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date	Sep-15	Year to Date
None	0	13	0	11	0	0	0	0	0	0	0	24
Minor	0	50	0	33	0	0	0	0	0	3	0	86
Moderate	0	1	0	2	0	0	0	0	0	0	0	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!	0.0%	#DIV/0!	1.6%

	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	
	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date
Captures	0	106	0	76	0	0	0	1	0	6	0	189
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0	0	0	5
Fresh Scrapes	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date	Oct-15	Year to Date
None	0	13	0	11	0	0	0	0	0	0	0	24
Minor	0	50	0	33	0	0	0	0	0	3	0	86
Moderate	0	1	0	2	0	0	0	0	0	0	0	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!	0.0%	#DIV/0!	1.6%

	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	
	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date
Captures	0	106	0	76	0	0	0	1	0	6	0	189
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0	0	0	5
Fresh Scrapes	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date	Nov-15	Year to Date
None	0	13	0	11	0	0	0	0	0	0	0	24
Minor	0	50	0	33	0	0	0	0	0	3	0	86
Moderate	0	1	0	2	0	0	0	0	0	0	0	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!	0.0%	#DIV/0!	1.6%

	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	
	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date
Captures	0	106	0	76	0	0	0	1	0	6	0	189
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	5	0	0	0	0	0	0	0	0	0	5
Fresh Scrapes	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date	Dec-15	Year to Date
None	0	13	0	11	0	0	0	0	0	0	0	24
Minor	0	50	0	33	0	0	0	0	0	3	0	86
Moderate	0	1	0	2	0	0	0	0	0	0	0	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	#DIV/0!	0.9%	#DIV/0!	2.6%	#DIV/0!	#DIV/0!	#DIV/0!	0.0%	#DIV/0!	0.0%	#DIV/0!	1.6%

St Lucie Power Plant Causal Turtles		2001	2002	2003	2004	2005
Loggerhead	Total Captures	270	341	538	623	484
	Injuries	0	0	0	0	1
	Mortalities	1	0	0	1	0
Green	Total Captures	321	292	394	286	428
	Injuries	0	0	1	0	3
	Mortalities	4	2	1	1	1
Leatherback	Total Captures	2	0	4	2	0
	Injuries	0	0	0	0	0
	Mortalities	0	0	0	0	0
Kemp's Ridley	Total Captures	1	0	2	1	3
	Injuries	0	0	0	0	0
	Mortalities	0	0	0	0	0
Hawksbill	Total Captures	6	3	6	2	2
	Injuries	0	0	0	0	0
	Mortalities	0	0	0	0	0
Injury & Mortality Yearly Totals		5	2	2	2	5
Total Captures per Year		600	636	944	914	917

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

**2014 is a partial year.

2006	2007	2008	2009	2010	2011	2012	2013	**2014
419	227	420	260	295	302	232	303	31
*3	0	1	1	0	0	1	1	0
*21	0	0	0	1	0	0	0	0
267	101	299	161	444	217	127	196	40
7	0	2	2	1	0	0	0	0
1	1	2	0	3	1	2	2	0
1	1	0	1	2	0	2	2	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
3	0	2	0	7	0	0	0	2
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
2	1	4	2	3	2	1	2	1
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
32	1	5	3	5	1	3	3	0
692	330	725	424	751	521	362	503	74

Injury / Mortality Totals by Species
4,745
5
3
3,573
16
21
17
0
0
21
0
0
37
0
0
69
8,393

St Lucie Power Plant Causal Turtles	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	**2015	Injury / Mortality Totals by Species	
Loggerhead	Total Captures	341	338	623	684	619	627	620	260	295	302	212	303	275	108	4,625
	Injuries	0	0	0	13	0	1	1	0	0	0	0	0	0	0	5
	Mortalities	0	0	0	0	221	0	0	0	1	0	0	0	0	0	2
Green	Total Captures	272	391	285	678	267	610	299	161	444	212	122	196	131	76	1,222
	Injuries	0	1	0	1	17	0	2	2	1	0	0	0	0	0	16
	Mortalities	2	1	1	0	1	1	2	0	1	1	2	2	0	1	18
Leatherback	Total Captures	0	4	2	0	1	1	0	1	2	0	2	2	0	0	16
	Injuries	0	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	0
Kemp's Ridley	Total Captures	0	2	1	0	0	0	0	0	0	0	0	0	0	0	25
	Injuries	0	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	0
Hawksbill	Total Captures	3	6	2	2	2	1	4	2	3	2	1	2	1	0	33
	Injuries	0	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	0
Injury & Mortality Yearly Totals	2	2	0	0	22	1	5	3	5	1	3	3	0	0	65	
Total Captures per Year	636	940	914	907	692	630	725	424	751	521	362	500	414	189	6,322	

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

** 2015 is a partial year.