

From: Munne, Vince <Vince.Munne@fpl.com>
Sent: Monday, August 12, 2024 2:19 PM
To: SCO
Cc: Koperski, Meghan; Briana Arlene; audra.livergood@noaa.gov
Subject: [External_Sender] PSL Monthly Turtle Report for July 2024
Attachments: 20240812140822184.pdf

Ann

Please see attached report.

Thanks, Vince

From: scans@fpl.com <scans@fpl.com>
Sent: Monday, August 12, 2024 2:08 PM
To: Munne, Vince <Vince.Munne@fpl.com>
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Subject: [External_Sender] PSL Monthly Turtle Report for July 2024
Sent Date: 8/12/2024 2:19:07 PM
Received Date: 8/12/2024 2:20:12 PM
From: Munne, Vince

Created By: Vince.Munne@fpl.com

Recipients:

"Koperski, Meghan" <meghan.koperski@myFWC.com>
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August 12, 2024

Ms. Meghan Koperski
FWC Imperiled Species Mgmt.
Tequesta Field Office
19100 SE Federal Highway
Tequesta, Florida 33469

RE: ST. LUCIE POWER PLANT
CONDITION IX.C.1, MARINE TURTLE AUTHORIZATION

Dear Ms. Koperski,

Enclosed please find the monthly summary of marine turtle removals for the St. Lucie Power Plant for the month of July 2024. These activities were performed under required by Site Certification Condition IX.C.1.

The enclosure includes:

- 1) Email to Meghan Koperski Regarding Marine Turtle Removal Monthly Summary
- 2) Capture Summary Table
- 3) Marine Turtle Removals
- 4) Capture Notes

If you should have any questions, please contact Anessia Michaels at (772) 349-7252.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Munné', is written over a light blue horizontal line.

Vince Munné
Land Utilization Supervisor
St. Lucie Plant

Enclosure: Monthly Summary of Marine Turtle Removals

cc: FDEP Siting Office

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

**Subject: Marine Turtle Removal Monthly Summary
July 2024**

Attached, please find the monthly summary of marine turtle removals for July 2024. This month we captured 51 *Caretta caretta*, nine *Chelonia mydas*, and one *Lepidochelys kempii* in the intake canal of the St. Lucie power plant on Hutchinson Island. Three sea turtles were sent for rehabilitation (non-causal), and there were no recorded mortalities this month. As with all sea turtle strandings at the St. Lucie Plant, 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.

Three sea turtles were sent to rehab for non-causal injuries this month. On July 2nd, an adult female loggerhead was recovered from the south tangle net with an embedded hook inside its upper jaw. On July 16th, a subadult loggerhead was recovered from the south tangle net with healing propeller wounds in its carapace and plastron. On July 29th, a lethargic and emaciated subadult loggerhead was recovered from the barrier net. All three turtles were taken to Loggerhead Marinelife Center in Juno Beach for rehab. Because these injuries/illnesses were unrelated to the power plant, these were classified as non-causal strandings.

The primary 5-inch barrier net encountered negligible-to-moderate amounts of algae and negligible amounts of jellyfish this past month. IRG performed around-the-clock monitoring of the intake canal and barrier net system either as warranted by sufficiently high debris intrusion levels or whenever directed by FPL oversight personnel. Altogether, the primary barrier net has performed as designed and no turtles have been observed beyond the 5-inch 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 2024. In addition, this spreadsheet tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year.

Please feel free to contact me with any questions.

Sincerely,



Aaron Garstin
Biologist
Inwater Research Group, Inc.
4160 NE Hyline Dr.
Jensen Beach, FL 34957
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(201) 301-4563

MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/2/2024	<i>Caretta caretta</i>	1	FFV254/FFV255	91.7	95.2	101.5	91.0	72.2	71.6	105.2	South Net
7/2/2024	<i>Caretta caretta</i>	2	FFV256/FFV257	99.0	100.4	107.4	101.0	71.4	77.0	142.4	South Net
7/3/2024	<i>Caretta caretta</i>		FFV258/FFV259	80.9	81.8	88.3	82.0	65.6	64.9	81.0	South Net
7/5/2024	<i>Caretta caretta</i>		FFV260/FFV261	82.5	83.3	90.5	81.3	63.3	60.6	81.8	North Net
7/5/2024	<i>Caretta caretta</i>		FFV262/FFV263	81.9	83.1	89.8	83.7	64.9	63.5	80.2	South Net
7/6/2024	<i>Caretta caretta</i>	3	FFV264/FFV265	99.4	100.9	108.6	95.1	73.9	76.3	130.7	South Net
7/8/2024	<i>Caretta caretta</i>	4	FFV266/FFV267	89.3	91.8	100.6	88.4	62.4	66.1	97.8	South Net
7/8/2024	<i>Caretta caretta</i>		FFV268/FFV269	76.6	77.9	85.5	74.5	58.9	58.4	67.4	South Net
7/9/2024	<i>Caretta caretta</i>	5	FFV270/FFV271	85.4	86.4	95.7	83.2	63.0	62.2	89.5	North Net
7/9/2024	<i>Caretta caretta</i>		FFV272/FFV273	60.4	61.7	66.5	63.6	51.6	48.6	36.2	North Net
7/9/2024	<i>Caretta caretta</i>	6	FFZ209/FFZ210	81.0	82.9	89.6	80.2	63.7	61.4	75.6	North Net
7/10/2024	<i>Caretta caretta</i>	7	FFV274/FFV275	95.7	96.4	102.3	90.9	69.3	73.9	118.0	South Net
7/10/2024	<i>Caretta caretta</i>	8	FFV276/FFV277	85.2	86.6	93.2	85.4	68.5	65.9	100.0	South Net
7/11/2024	<i>Chelonia mydas</i>	9	FFT410/FFV278	47.8	48.0	50.6	44.1	36.5	40.7	14.6	North Net
7/12/2024	<i>Caretta caretta</i>		FFV279/FFV280	83.2	84.7	94.4	89.2	67.0	65.5	82.4	South Net
7/12/2024	<i>Caretta caretta</i>		FFV281/FFV282	79.2	80.9	87.6	79.4	62.7	59.2	73.9	North Net
7/12/2024	<i>Caretta caretta</i>	10	FFW828/FFW829	83.8	84.0	91.0	84.7	63.2	66.3	87.0	South Net
7/13/2024	<i>Caretta caretta</i>	11	FFV283/FFV284	97.1	99.6	104.1	96.1	77.5	74.4	131.1	North Net
7/14/2024	<i>Chelonia mydas</i>	12	/	54.3	54.4	58.0	53.6	42.2	44.3	22.3	North Net
7/15/2024	<i>Chelonia mydas</i>	13	FFV228/FFV229	42.0	42.2	44.8	36.8	32.0	33.3	8.9	South Net
7/15/2024	<i>Chelonia mydas</i>		FFV285/FFV286	39.2	39.5	41.7	37.0	31.2	32.0	7.5	South Net
7/15/2024	<i>Caretta caretta</i>		FFV287/FFV288	79.5	80.4	86.2	76.3	59.6	60.8	71.7	North Net
7/16/2024	<i>Caretta caretta</i>	14	/	60.7	60.7	67.0	63.5	53.2	51.5	39.6	South Net
7/16/2024	<i>Chelonia mydas</i>	15	FFV234/FFV235	43.8	44.0	47.2	41.7	35.1	37.2	12.8	South Net
7/16/2024	<i>Caretta caretta</i>		FFV289/FFV290	80.3	81.9	89.7	80.1	62.6	60.2	71.7	South Net
7/16/2024	<i>Caretta caretta</i>		FFV291/FFV292	71.5	72.4	78.4	70.3	55.7	53.7	57.2	North Net

7/16/2024	<i>Caretta caretta</i>	16	FFZ487/FFZ488	91.6	92.6	97.0	89.5	69.3	71.7	117.2	South Net
7/17/2024	<i>Chelonia mydas</i>		FFV293/FFV294	74.5	75.9	80.3	72.2	56.8	63.8	56.7	South Net
7/17/2024	<i>Caretta caretta</i>		FFV295/FFV296	81.8	83.9	89.1	83.0	60.8	62.9	83.8	North Net
7/17/2024	<i>Caretta caretta</i>	17	FFV297/FFV298	99.1	99.8	105.8	96.3	71.6	71.9	133.6	South Net
7/17/2024	<i>Caretta caretta</i>	18	FFV299/FFV300	86.2	87.5	93.8	85.5	68.9	65.2	86.8	North Net
7/18/2024	<i>Caretta caretta</i>	19	FFV301/FFV302	90.4	91.5	97.5	89.1	68.9	69.7	103.7	North Net
7/20/2024	<i>Lepidochelys kempii</i>		FFV303/FFV304	55.0	55.6	58.1	63.9	58.1	42.3	24.4	South Net
7/21/2024	<i>Caretta caretta</i>	20	FFV305/FFV306	98.4	99.3	106.3	94.0	75.7	75.6	126.2	North Net
7/21/2024	<i>Caretta caretta</i>	21	FFV307/FFV308	84.6	85.8	91.2	87.0	63.6	66.4	84.9	North Net
7/21/2024	<i>Caretta caretta</i>	22	FFW302/FFW303	85.0	85.6	91.2	82.9	62.7	65.8	84.2	South Net
7/22/2024	<i>Caretta caretta</i>		FFV310/FFV309	63.9	65.0	69.0	67.7	53.4	48.5	37.6	North Net
7/22/2024	<i>Chelonia mydas</i>	23	FFV311/FFV312	85.1	85.3	89.9	82.5	68.4	70.6	88.0	South Net
7/22/2024	<i>Caretta caretta</i>	24	FFV313/FFV314	85.9	87.0	93.8	84.0	65.7	63.9	89.7	North Net
7/23/2024	<i>Caretta caretta</i>	25	FFV315/FFV316	78.4	80.1	85.7	79.0	63.0	59.9	69.8	South Net
7/23/2024	<i>Caretta caretta</i>	26	FFV317/FFV318	90.2	90.6	97.1	86.5	70.0	72.0	108.0	South Net
7/24/2024	<i>Caretta caretta</i>		FFV320/FFV319	73.4	74.3	80.5	79.0	58.3	57.9	66.2	South Net
7/25/2024	<i>Chelonia mydas</i>	27	FFV140/FFV141	52.2	52.5	55.6	49.0	41.0	41.9	18.4	South Net
7/25/2024	<i>Caretta caretta</i>	28	FFV321/FFV322	86.7	87.2	90.6	85.0	69.3	69.4	85.6	North Net
7/25/2024	<i>Caretta caretta</i>		FFV323/FFV324	81.3	82.4	89.8	82.1	63.3	61.9	76.2	North Net
7/26/2024	<i>Caretta caretta</i>	29	/	78.0	78.1	81.2	76.5	58.8	55.4	70.5	Hand Capture
7/27/2024	<i>Caretta caretta</i>		FFV325/FFV326	70.3	76.3	81.5	73.2	61.3	58.2	59.0	South Net
7/27/2024	<i>Caretta caretta</i>		FFV327/FFV328	82.1	84.4	91.0	84.7	57.4	68.2	84.9	South Net
7/27/2024	<i>Caretta caretta</i>	30	FFV329/FFV330	88.6	90.9	95.7	84.4	66.5	70.5	96.0	North Net
7/27/2024	<i>Caretta caretta</i>		FFV331/FFV332	73.8	75.1	81.4	75.9	58.8	56.9	55.1	North Net
7/28/2024	<i>Caretta caretta</i>	31	FFE792/FFE793	65.9	68.3	76.3	67.6	55.4	49.2	43.5	South Net
7/28/2024	<i>Caretta caretta</i>	32	FFV333/FFV334	94.3	95.2	102.0	92.3	70.5	71.0	137.6	South Net
7/28/2024	<i>Caretta caretta</i>		FFV335/FFV336	79.7	80.5	86.2	78.7	61.5	61.9	75.1	South Net
7/28/2024	<i>Caretta caretta</i>	33	HB0378/FFZ206	82.5	83.9	90.8	84.0	64.5	64.1	82.5	South Net
7/29/2024	<i>Caretta caretta</i>	34	/	74.9	76.2	82.7	72.8	58.2	57.1	49.6	Barrier Net

7/29/2024	<i>Caretta caretta</i>	35	FFV337/FFV338	87.1	88.1	94.9	88.8	71.7	67.2	107.7	North Net
7/29/2024	<i>Caretta caretta</i>		FFV339/FFV340	77.5	78.0	84.9	76.8	60.4	60.7	73.2	North Net
7/29/2024	<i>Caretta caretta</i>	36	FFV341/FFV342	88.3	88.4	96.8	89.7	70.4	68.6	86.3	North Net
7/29/2024	<i>Chelonia mydas</i>		FFV343/FFV344	49.6	50.3	53.2	44.8	39.3	41.1	17.0	South Net
7/29/2024	<i>Caretta caretta</i>	37	FFV345/FFV346	94.1	95.7	100.0	93.8	75.2	75.2	124.0	South Net
7/31/2024	<i>Caretta caretta</i>	38	FFV347/FFV348	94.0	94.7	101.5	86.5	69.2	70.8	101.6	South Net

NOTES

1. Adult female loggerhead. TL= 20.4 cm. TAG RETURN. Nested on 7/3/24 on Hutchinson Island (27.34811, -80.23764). Healing wound dorsal side of neck. Healing wound ventral right axilla. Multiple healed notches LFF. 40% missing, healing RFF.
2. Adult female loggerhead. TL= 20.6 cm. REHAB (NON-CAUSAL); STSSN# HWB20240702-001. "Bertha". Hook embedded in upper jaw. Transported to LMC for rehab. Tags applied prior to rehab determination. Shallow indentation in right marginals proximal RRF. Missing, healed 5% RFF. Healing wound left axilla. CMCL: 105.9 cm. Ventral photo plate does not say "Rehab - Non-causal".
3. Adult female loggerhead. TL= 29.7 cm. Healing wounds on dorsal side of neck and right side of head.
4. Adult female loggerhead. TL= 21.9 cm. Line entanglement on LFF (removed). Large mass and healing wound on ventral side of chin.
5. Adult female loggerhead. TL= 20.5 cm. Missing 5% LFF, tip missing, healed. Healing wounds on ventral side of both FFs.
6. Adult female loggerhead. TL= 18.0 cm. STRANGE TAG. Originally recorded on nesting beach during saturation tagging in Zone N (27.36036, -80.24375) on 6/24/24. Small healed notch on LRF. Identified as female as she has been observed nesting during saturation tagging.
7. Adult female loggerhead. TL= 27.6 cm. Missing portion of right posterior carapace, healed. Missing 50% of RFF, 5% of LFF, 15% of RRF, and 10% of LRF, healed. Healing wounds on ventral side of axilla and neck.
8. Adult female loggerhead. TL= 20.8 cm. Old wound on upper tomium. Healing wound on ventral side of neck. Curved measurements are OB.
9. RECAPTURE, from 10/7/17, 9/30/22, 9/23/23, 10/6/23, 2/11/24, 5/31/24. Healed indentation on right anterior carapace. New inconel tag (FFV278) applied to RFF.
10. Adult female loggerhead. TL= 20.9 cm. STRANGE TAG. Originally tagged during saturation tagging on 6/8/24 in Zone P (27.34261, -80.23503); nested on 6/23/24 in Zone N (27.35454, -80.24088). Sex determined by previous nesting history. Healing wounds ventral side of neck.
11. Adult female loggerhead. TL= 26.0 cm. 50% missing RFF, healed. Small notch in LFF. Pygals flair upwards.
12. RECAPTURE, from 7/19/18, 12/10/18, 3/31/19, 12/9/19, 1/7/20, 2/15/20, 5/5/20, 8/11/20, 10/25/20, 1/13/21, 4/22/21, 1/5/22, 3/17/22, 10/6/22, 12/22/22, 4/8/23, 6/2/23, 6/9/23, 10/28/23, 12/18/23, 6/16/24. Missing, healed 5% LFF, 25% LRF, and 30% RRF. No new inconel tags applied.
13. RECAPTURE, from: 6/23/24. Healed notch in right marginals proximal RRF.
14. REHAB (NON-CAUSAL); STSSN#. Healing prop wounds to posterior carapace. Injury to pygals and pieces of marginal scutes falling off. 95% LRF missing, healing. CMCL: 67.0 cm.
15. RECAPTURE, from: 9/25/19, 6/24/24.
16. Adult female loggerhead. TL= 26.2 cm. STRANGE TAG. Originally documented during saturation tagging project on 7/13/24 in Zone M (27.36178, -80.24451). Healed notches in RFF and LFF, 5% missing healed LRF.
17. Adult female loggerhead. TL= 26.5 cm. Healing wounds on RFF.
18. Adult female loggerhead. TL= 17.0 cm. Moderate fresh scrapes on marginal scute and above right eye. No ventral photo.
19. Adult female loggerhead. TL= 20.0 cm. Missing portion of left rear marginals, healed. Moderate scrape on head. Healed notch in RFF.
20. Adult female loggerhead. TL= 20.4 cm. 15% missing, healed LFF. Skin and scales damaged at base of LRF claw, healed.
21. Adult female loggerhead. TL= 20.5 cm. Missing, healed notches on RFF and both RFs.
22. Adult female loggerhead. TL= 19.1 cm. STRANGE TAG. Originally tagged during saturation project on 5/23/24 in Zone N (27.36000, -80.24349) CCL: 93.9 cm. 5% missing, healed both FFs.
23. Adult female green. TL= 20.9 cm. Broken edge of LRF. Healing notches in both FFs. Healing wounds in both axilla and ventral side of neck.
24. Adult female loggerhead. TL= 19.9 cm.
25. Adult female loggerhead. TL= 14.9 cm. STRANGE TAG. Originally tagged during saturation tagging project on 6/19/24 in Zone O (27.34989, -80.23846) CCL: 87.2 cm. New inconel tags applied in both FFs. Sex determined by previous nesting history.
26. Adult female loggerhead. TL= 18.8 cm.
27. RECAPTURE, from 2/1/22, 11/14/22, 12/31/22, 2/8/23, 5/13/23, 5/22/23, 6/9/23, 5/23/24.
28. Adult female loggerhead. TL= 23.1 cm.

29. Adult male loggerhead. TL= 46.5 cm. RECAPTURE, from 5/30/89, 9/6/90, 10/11/90, 10/15/90, 2/23/91, 8/10/92, 8/27/92, 9/21/92, 1/6/93, 6/8/93, 12/29/93, 3/22/94, 10/31/94, 3/17/95, 4/20/95, 2/7/96, 4/7/96, 7/11/96, 7/23/96, 7/29/96, 9/22/96, 10/9/96, 6/13/97, 5/15/98, 4/15/00, 6/13/00, 9/8/00, 11/19/00, 11/15/01, 9/16/02, 4/30/03, 11/24/03, 3/31/04, 9/15/04, 10/25/04, 8/10/05, 8/16/06, 4/30/08, 9/26/08, 8/19/09, 12/28/12, 4/17/13, 9/2/14, 10/7/17, 11/7/17, 1/16/18, 2/12/19, 7/10/20, 12/14/20, 5/27/21, 5/4/23, 8/20/23, 9/28/23. Multiple tag scars in both front flippers - no neon inonel tags inserted. Satellite tag #264001 deployed at 1508 EDT (1908 UTC); released 1800 EDT (2200 UTC). Healed keel strike 14.5 x 10cm.
30. Adult female loggerhead. TL= 20.0 cm.
31. RECAPTURE, from: 8/23/19, 12/15/19, 1/19/20, 7/24/20, 3/3/21, 6/8/21, 8/11/21, 10/19/21, 3/12/22, 8/11/22, 10/15/22, 4/15/23, 5/6/23, 7/19/23, 8/22/23, 5/3/24. Missing (healed) portion of left carapace along marginals. Small healed notch on distal LFF. Curved length OB.
32. Adult female loggerhead. TL= 21.3 cm.
33. Adult female loggerhead. TL= 15.4 cm. STRANGE TAG. Originally tagged 7/28/10 by UCF nesting on the Carr Refuge (27.92059, -80.48122), CCL 89.4, SCL 79.4, CCW 83.8, SCW 63.4. STRANGE TAG. Tagged during saturation tagging project while nesting on 6/24/24 in Zone N (27.35815, -80.24252). Healed notch in RRF. Sex determined by previous nesting history.
34. REHAB (NON-CAUSAL); STSSN#. "Barnacle Bill". Found lethargic, crawling along barrier net. Healing wound dorsal head. Transported to LMC for rehab. CMCL: 80.3 cm OB.
35. Adult female loggerhead. TL= 19.7 cm. Healed notches in LRF. Healed cloaca wound.
36. Adult female loggerhead. TL= 22.4 cm. Healed boat strike wound (18 cm) left posterior carapace. Healed notch right posterior carapace.
37. Adult female loggerhead. TL= 24.5 cm. Healing wound left axilla. 50% missing, healed LFF. 5% missing, healed RRF.
38. Adult female loggerhead. TL= 20.0 cm. Healed notch in RFF.

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>)		Olive ridley (<i>Lepidochelys olivacea</i>)		Overall Totals	
	Jul-24	Year to Date	Jul-24	Year to Date	Jul-24	Year to Date	Jul-24	Year to Date	Jul-24	Year to Date	Jul-24	Year to Date	Jul-24	Year to Date
Captures	51	192	9	134	0	1	0	0	1	10	0	0	61	337
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Non-Causal Mortalities	0	1	0	1	0	0	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	3	15	0	5	0	0	0	0	0	0	0	0	3	20
Fresh Scrapes	8	20	1	15	0	0	0	0	0	0	0	0	9	35
Minor	41	170	7	117	0	1	0	0	1	10	0	0	49	298
Moderate	2	2	1	2	0	0	0	0	0	0	0	0	3	4
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	3.9%	1.0%	11.1%	1.5%	NA	0.0%	NA	NA	0.0%	0.0%	NA	NA	4.9%	1.2%