

## Balsam, Briana

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**From:** Michael\_Bresette@fpl.com  
**Sent:** Friday, August 14, 2009 1:26 PM  
**To:** Meghan.Koperski@MyFWC.com  
**Cc:** Logan, Dennis; Ed\_Hollowell@fpl.com; Shelley.Norton@noaa.gov; Vince\_Munne@fpl.com; Winifred.Perkins@fpl.com; Bob.Hoffman@noaa.gov; Stacy.Foster@fpl.com; David.Niebch@fpl.com; Jodie.Gless@fpl.com  
**Subject:** July captures  
**Attachments:** July09.pdf; St. Lucie caps 2009.xls

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

Subject: Marine Turtle Removal Monthly Summary  
July 2009

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for July 2009. In July, we captured twenty three (23) Caretta caretta, three (3) Chelonia mydas, and one (1) Eretmochelys imbricata at the intake canal of the St. Lucie power plant on South Hutchinson Island. In July, two loggerheads were sent to rehabilitation facilities for treatment after consultation with FFWCC personnel. Both were lethargic and underweight and one had possible shark bite wounds on the carapace. These events were not causal to power plant operation. All other turtles captured in July were released on the same day of capture.

During July 23,24, 25 and 28 heavy amounts of drift algae were entrained into the canal. Divers were deployed to clean the primary barrier net on three days in July in order to maintain its integrity. During July, the primary barrier net performed as designed and effectively kept turtles from moving further down the canal.

Tag numbers and morphmetric data for all turtles are attached. Also, attached is a spreadsheet of all captures, mortalities, injuries and causal events delineated by species and month for 2009. This spreadsheet tracks fresh scrapes and will be helpful in determining the success of the intake pipe cleaning project. If you have any questions or comments about the enclosed data please contact me at your convenience.

Sincerely,

Michael J. Bresette  
Sr. Environmental Specialist

Inwater Research Group, Inc.

*(See attached file: July09.pdf)(See attached file: St. Lucie caps 2009.xls)*

**MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
JULY 2009**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/2/2009	<i>Eretmochelys imbricata</i>		YYW318/YYW319	58.6	61.3	64.4	57.3	41.1	45.7	29.2	Hand capture
7/5/2009	<i>Caretta caretta</i>		YYW320/YYW321	71.5	72.8	78.6	74.5	59.2	55.3	45.7	Hand capture
7/6/2009	<i>Caretta caretta</i>	1		67.7	72.3	78.0	75.0	57.5	56.2	45.9	Hand capture
7/6/2009	<i>Caretta caretta</i>		YYW322/YYW323	66.4	68.5	74.2	68.9	56.5	52.4	42.1	Hand capture
7/7/2009	<i>Caretta caretta</i>	2	YYW194/YYW195	60.9	61.7	66.5	64.8	50.1	48.0	33.3	Hand capture
7/7/2009	<i>Caretta caretta</i>	3	YYW320/YYW321	71.5	73.1	79.2	74.5	58.9	55.9	44.4	Hand capture
7/11/2009	<i>Caretta caretta</i>		YYW324/YYW325	76.1	77.8	82.0	72.3	59.3	57.5	57.1	South net
7/12/2009	<i>Caretta caretta</i>		YYW326/YYW327	61.2	62.1	65.4	62.3	51.5	49.6	32.0	North net
7/12/2009	<i>Caretta caretta</i>		YYW328/YYW329	55.4	56.1	61.5	60.5	49.4	41.6	24.9	Hand capture
7/14/2009	<i>Caretta caretta</i>		YYW330/YYW331	57.7	58.9	62.6	62.0	51.4	45.3	29.4	Hand capture
7/14/2009	<i>Caretta caretta</i>		YYW332/YYW333	66.4	67.8	73.0	71.8	56.4	52.4	40.9	Hand capture
7/17/2009	<i>Caretta caretta</i>	4	P8663	66.9	67.7	73.2	69.3	55.9	50.7	43.3	Hand capture
7/17/2009	<i>Caretta caretta</i>	5	YYW334/YYW335	89.0	89.8	96.7	87.8	71.2	69.8	104.8	North net
7/17/2009	<i>Caretta caretta</i>		YYW336/YYW337	64.2	65.7	70.1	69.9	56.6	51.1	42.6	Hand capture
7/19/2009	<i>Caretta caretta</i>		YYW338/YYW339	54.2	54.9	60.4	55.7	44.1	40.6	19.2	Hand capture
7/20/2009	<i>Caretta caretta</i>	6	YYW312/YYW313	72.2	74.1	79.5	72.7	56.7	54.5	48.3	Hand capture
7/20/2009	<i>Caretta caretta</i>	7	YYW340/YYW341	91.6	95.0	100.1	93.7	76.0	71.3	113.4	North net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/24/2009	<i>Chelonia mydas</i>	8		39.1	39.2	42.8	33.0	29.6	31.8	7.3	Hand capture
7/26/2009	<i>Chelonia mydas</i>	9	YYB008	61.2	61.4	65.6	55.1	46.9	51.2	29.9	Hand capture
7/26/2009	<i>Caretta caretta</i>		YYW342/YYW343	69.3	70.6	75.4	69.7	57.6	53.3	39.2	Hand capture
7/27/2009	<i>Caretta caretta</i>		YYW344/YYW345	65.1	66.6	71.0	69.4	56.4	50.2	42.6	North net
7/28/2009	<i>Caretta caretta</i>	10		73.8	74.2	81.9	74.9	60.5	57.8	66.6	Hand capture
7/28/2009	<i>Chelonia mydas</i>		YYW346	37.5	37.8	40.1	35.5	30.1	32.1	6.8	Hand capture
7/29/2009	<i>Caretta caretta</i>	11	YYW347/YYW348	87.3	89.1	94.5	81.9	65.9	68.3	89.4	Hand capture
7/29/2009	<i>Caretta caretta</i>		YYW349/YYW350	64.0	64.9	72.3	68.1	53.1	50.8	39.5	Hand capture
7/31/2009	<i>Caretta caretta</i>		YYW351/YYW352	73.0	74.5	78.8	78.2	61.9	56.8	58.1	Hand capture
7/31/2009	<i>Caretta caretta</i>		YYW353/YYW354	58.3	59.9	63.1	61.9	50.8	46.2	30.7	North net

## NOTES

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- 1 Turtle found lethargic and underweight with possible shark bite wounds (healing) to marginal scutes on carapace. Transported to Florida Aquarium by FWCC personnel. Not causal to power plant operation.
2. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/12/09 and 5/27/09.
3. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/5/09. Turtle condition on this capture date was noted as "fair" but active and good on release. Turtle found lethargic and underweight at this capture. Held overnight for FWCC pick-up on 7/8/09 and transported to Sea World. Not causal to power plant operation.
- 4 Strange tag. Whereabouts pending
- 5 Adult female. Tail length = 225 mm.
- 6 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/26/09.
- 7 Adult female. Tail length = 262 mm.
- 8 Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/29/09.
9. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/30/03, 10/6/04, 2/9/07, 5/24/07 and 6/10/07.
10. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/4/02, 9/17/02, 11/5/02, 4/15/03, 7/1/03, 2/16/04, 4/11/05, 6/19/06, 9/16/06, 8/15/07 and 8/7/08.
11. Adult female. Tail length = 262 mm.

*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	
	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date
<b>Captures</b>	23	159	3	100	1	2	0	1	0	0	27	262
<b>Causal Mortalities</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Non-causal Mortalities</b>	0	1	0	0	0	0	0	0	0	0	0	1
<b>Causal Injuries</b>	0	1	0	0	0	0	0	0	0	0	0	1
<b>Sent to rehab</b>	2	9	0	2	0	0	0	0	0	0	2	11
<b>Fresh Scrapes</b>	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date	Jul-09	Year to Date
<b>None</b>	1	18	0	5	0	0	0	0	0	0	1	23
<b>Minor</b>	11	94	0	63	0	1	0	0	0	0	11	158
<b>Moderate</b>	10	44	3	30	1	1	0	1	0	0	14	76
<b>Severe</b>	1	3	0	2	0	0	0	0	0	0	1	5
<b>Percent with mod/sev scrapes</b>	47.8%	29.6%	100.0%	32.0%	100.0%	50.0%	#DIV/0!	100.0%	#DIV/0!	#DIV/0!	55.6%	30.9%