

Balsam, Briana

From: GLESS, JODIE [Jodie.Gless@fpl.com]
Sent: Monday, August 30, 2010 11:46 AM
To: RidsNrrDlr Resource
Subject: FW: June 2010 St. Lucie Plant Canal Captures
Attachments: June 2010 Monthly report.doc; Notes2010.xls; St. Lucie caps 2010.xls

-----Original Message-----

From: Dave Clark [mailto:dclark@inwater.org]
Sent: Wednesday, July 07, 2010 8:38 PM
To: Meghan.Koperski@MyFWC.com
Cc: diverdave1107@hotmail.com; Hollowell, Ed; Munne, Vince; Niebch, David; GLESS, JODIE; Frehafer, Ken; Shelley.Norton@noaa.gov; Bob.Hoffman@noaa.gov; mbresette@inwater.org
Subject: June 2010 St. Lucie Plant Canal Captures

Dear Megan,

Attached is the monthly summary of marine turtle removals for June 2010. In June, Inwater Research Group biologists captured thirty (30) *Caretta caretta* and three (3) *Chelonia mydas* at the intake canal of the St. Lucie power plant on Hutchinson Island. During the month there were no mortalities and no turtles required rehabilitation.

Throughout the month of June the temporary barrier net experienced light loads of algae that entered into the intake canal. This temporary barrier net has effectively kept turtles from moving further down the canal. A permanent fix to this net is expected in 2011. Underwater Engineering Service Inc.(UESI) started cleaning of the temporary net on June 15 and continued into July. UESI also conducted a quarterly net inspection on the primary net (5 inch) and the secondary net (8 inch). During this inspection two holes were found in the primary net (5 inch) and mended. There were no holes found in the secondary net (8 inch).

The tag numbers and morphometric data for all the turtles is attached. Also attached is the spreadsheet of all captures, mortalities, injuries, and causal events delineated by species and month/year to date for 2010. This spreadsheet also includes and tracks fresh scrapes incurred on captured turtles for the month of June, which includes totals and percentages. If you any questions please feel free to contact me.

Sincerely,

David Clark
Inwater Research Group, Inc.

**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
June 2010**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSSL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/5/2010	Chelonia mydas	1	UUH612	47.80	48.10	51.00	45.70	37.00	39.90	14.50	North net
6/6/2010	Caretta caretta	2	UUH613/UUH614	89.90	90.30	95.50	84.60	67.00	63.70	90.70	North net
6/6/2010	Caretta caretta		UUH615/UUH616	53.20	53.80	58.10	55.60	45.30	33.30	20.50	Hand capture
6/7/2010	Caretta caretta		UUH617/UUH618	69.40	70.10	76.70	73.90	60.40	56.20	48.30	Hand capture
6/8/2010	Caretta caretta		UUH619/UUH620	60.80	61.80	66.00	65.10	53.40	36.50	32.90	Hand capture
6/10/2010	Caretta caretta	3	UUH621/UUH622	89.70	91.00	96.00	87.90	69.30	69.30	100.10	South net
6/11/2010	Caretta caretta	4	YYB108/YYB109	65.30	66.50	71.70	69.40	56.10	51.90	41.30	Hand capture
6/11/2010	Caretta caretta		UUH623/UUH624	63.00	63.90	68.10	65.00	52.20	48.60	28.90	Hand capture
6/12/2010	Caretta caretta		UUH625/UUH651	79.00	79.90	85.80	79.50	64.20	61.10	74.10	South net
6/12/2010	Caretta caretta		UUH652/UUH653	77.80	78.50	83.10	79.00	63.80	60.50	70.50	Hand capture
6/12/2010	Caretta caretta		UUH654/UUH655	67.70	69.10	72.70	70.90	57.00	51.40	43.40	Hand capture
6/13/2010	Caretta caretta		UUH656/UUH657	64.00	64.50	69.10	65.30	53.40	51.40	38.00	North net
6/16/2010	Caretta caretta	5	UUH658/UUH659	86.10	87.20	95.50	82.40	62.20	65.80	100.00	Hand capture
6/17/2010	Caretta caretta		UUH660/UUH661	56.00	56.60	61.60	61.10	50.00	43.70	29.10	North net
6/17/2010	Caretta caretta	6	UUH662/UUH663	88.10	89.30	95.70	88.90	62.70	70.50	104.90	Hand capture
6/17/2010	Caretta caretta	7	UUH664/UUH665	85.40	87.00	94.50	82.70	63.40	67.14	84.30	Hand capture
6/17/2010	Caretta caretta		UUH666/UUH667	68.40	69.40	74.50	69.10	57.80	53.90	44.60	Hand capture
6/17/2010	Caretta caretta		UUH668/UUH669	67.40	67.80	73.80	66.40	56.50	52.10	39.90	Hand capture
6/17/2010	Caretta caretta		UUH670/UUH671	80.40	81.60	89.70	82.10	62.30	63.40	81.30	Hand capture
6/17/2010	Caretta caretta		UUH672/UUH673	82.40	83.10	89.70	84.00	66.10	65.90	85.30	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/18/2010	Caretta caretta		UUH674/UUH675	61.00	62.90	67.50	68.30	55.00	48.20	37.80	Hand capture
6/18/2010	Caretta caretta	8	UUH676/UUH677	85.10	86.00	95.50	87.40	68.30	69.20	108.30	Hand capture
6/19/2010	Caretta caretta	9	UUH678/UUH679	91.00	93.50	104.10	94.30	71.20	69.80	102.70	Hand capture
6/19/2010	Chelonia mydas	10	UUH680/UUH681	97.60	97.80	103.90	95.80	80.10	78.60	113.40	Hand capture
6/20/2010	Caretta caretta	11	UUH682/UUH683	94.30	95.10	103.70	89.00	67.90	71.20	103.10	Hand capture
6/20/2010	Caretta caretta		UUH684/UUH685	59.60	61.00	63.60	57.70	48.00	45.90	29.60	Hand capture
6/20/2010	Caretta caretta		UUH686/UUH687	58.60	59.60	62.10	59.50	48.90	46.50	29.90	Hand capture
6/20/2010	Caretta caretta	12	UUH598/UUH599	56.10	56.90	61.00	57.20	47.50	43.20	23.60	Hand capture
6/21/2010	Caretta caretta	13	UUH688/UUH689	84.70	86.30	93.70	83.60	63.50	67.70	94.20	Hand capture
6/28/2010	Caretta caretta		UUH690/UUH691	78.40	79.40	82.80	82.00	63.70	63.30	77.10	North net
6/29/2010	Chelonia mydas			25.10	25.40	26.30	21.20	19.80	21.00	2.00	Barrier net
6/29/2010	Caretta caretta		UUH692/UUH693	82.80	83.60	89.10	80.20	64.70	63.40	65.40	North net
6/29/2010	Caretta caretta	14	UUH694/UUH695	91.90	93.40	100.00	91.90	72.00	71.30	108.20	North net

NOTES

1. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/23/04, 8/11/06, 8/23/06, 9/30/06, 3/6/07, 8/19/07, 12/3/07, 1/14/08, 2/21/08, 3/19/08, 5/5/08, 5/31/08, 7/7/08, 9/17/08, 11/30/08, 1/26/09, 4/10/09, 4/19/09, 6/24/09, 1/11/10, 3/31/10.
New inconel tag inserted into LFF.
2. Adult Male. Tail length=426mm
3. Adult Female. Tail length=243mm
4. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/18/07, 8/21/07, 8/24/07, 9/2/07, 9/10/07, 10/25/07, 12/17/07, 1/25/08, 4/6/08, 4/30/08, 7/13/08, 8/24/08, 9/13/08, 10/6/08, 10/18/08, 4/17/09, 6/17/09, 8/13/09, 10/27/09.
5. Adult Female. Tail length=246mm
6. Adult Female. Tail length=216mm
7. Adult Female. Tail length=190mm
8. Adult Female. Tail length=174mm
9. Adult Female. Tail length=196mm
10. Adult Male. Tail length=397mm
11. Adult Female. Tail length=235mm
12. Recapture. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/17/10.
13. Adult Female. Tail length=185mm. HYBRID (*Caretta caretta*-*Eretmochelys imbricata*). Biopsy taken.
14. Adult Female. Tail length=232mm

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	
	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date
Captures	30	196	3	353	0	0	0	2	0	7	33	558
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Non-causal Mortalities	0	1	0	2	0	0	0	0	0	0	0	3
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	0	3	0	10	0	0	0	0	0	0	0	13
Fresh Scrapes	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date	Jun-10	Year to Date
None	3	24	0	23	0	0	0	0	0	0	3	47
Minor	24	137	1	265	0	0	0	1	0	6	25	409
Moderate	3	35	2	64	0	0	0	1	0	1	5	101
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	10.0%	17.9%	66.7%	18.1%	#DIV/0!	#DIV/0!	#DIV/0!	50.0%	#DIV/0!	14.3%	15.2%	18.1%