

# Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 3<sup>rd</sup> Quarter 2010

#### **Environmental News**

### **Native Plant profile**

#### **Festive Season**

Milder weather is approaching soon (hopefully) and with that brings many opportunities to enjoy the outdoors comfortably. Here are a couple of nature festivals that you won't want to miss, and be sure to check the events calendar on the back page for other festivals this season.

**CHNEP Nature Festival**: The Charlotte Harbor National Estuary Program (CHNEP) is hosting its 11<sup>th</sup> annual nature festival at the Charlotte Sports Park. Gates open at 10:00 am and the festival wraps up at 3:00 pm.

There is much to do and see for adults and children alike and admission and parking are free.

For more information including vendor and volunteer information please visit www.chnep.org.

The Charlotte Sports Park is located at 2300 El Jobean Rd in Port Charlotte.

#### Caloosa Blueway Paddling Festival:

Starting on October 29<sup>th</sup> and extending to November 7<sup>th</sup> on Pine Island and Lovers Key State Park the Caloosa Blueway Paddling Festival includes activities that are free or require a small donation. Some events include; kayak races, catch-and-release fishing tournament and photo contest. Live music is performed on both weekends as well. For more information please visit caloosabluewaypaddlingfestival.com

**Cabbage Palm**Sabal palmetto

This hardy palm is the Florida state tree and it is as prevalent in landscapes as it is in its native habitats. The cabbage palm can grow up to 60 feet, is tolerant of varying light conditions and can withstand tropical storm and hurricane force winds.

The cabbage palm acquires its name from the heart of palm, which is the edible terminal bud located within the uppermost portion of the trunk. Removing the 'cabbage' will kill the palm, so it's best to let the small white flowers and small black fruits supply *wildlife* with nectar and food.



# Please join us for the **2010 November Social**

Wednesday, November 3<sup>rd</sup>
10:30-11:30 am
Rotary Park
5505 Rose Garden Road

We will have a guest speaker from the Florida Fish and Wildlife Research Institute

Donuts and coffee will be provided

You can bring your water sample!

Please RSVP (yes or no): 574-0785

## Secchi Depth added to newsletter's data table

The data table on the following pages looks a bit different than it used to. NO<sub>2</sub> (nitrite), which was consistently below detection, has been replaced by Secchi Depth. The lab will still be analyzing NO<sub>2</sub> concentration, but unless there is an abnormal value, we will not report it in the newsletter.

A few reminders about Secchi Depth:

- Larger numbers are better. Secchi Depth is an indicator of water clarity how deep can you lower the Secchi disk and still see it?
- If you see 'b' behind a data point, it means the Secchi disk was visible on the bottom of the canal so if the canal were deep enough, the true Secchi Depth would be a higher number.
- Canalwatch volunteers measure Secchi Depth in inches. For the newsletter, all measurements have been rounded to the nearest inch.

# Spotlight on Wildlife: Osprey

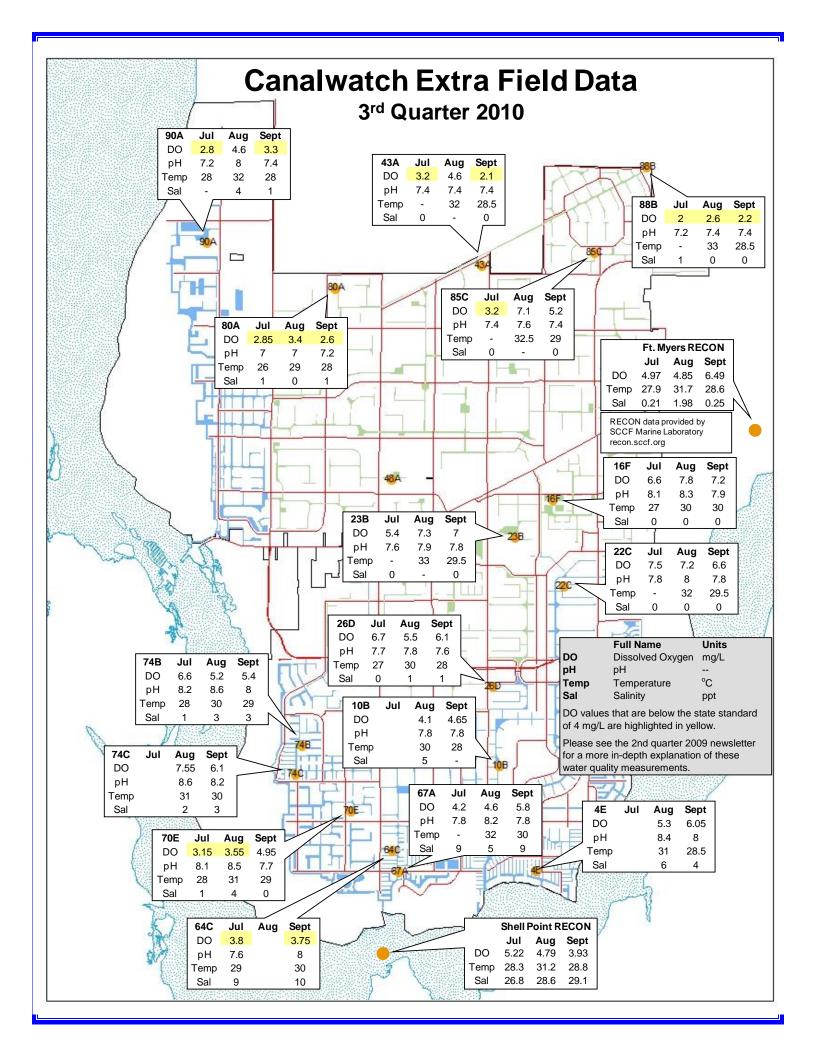
The Osprey is the only bird of prey that feeds exclusively on fish. Osprey are found all over the world (except Antarctica) near large bodies of water. They feed by flying over the water until they spot prey, then hovering over it and diving feet-first to catch it. Fun fact: while flying with a fish, an Osprey will hold it with its head pointed forward to make it more aerodynamic. In our part of Florida, Osprey are year-round residents, but birds north of the 29<sup>th</sup> parallel are migratory.



Osprey nest in tall trees or on manmade structures (like cell phone towers). They typically lay 3 eggs, which both parents help incubate. The eggs will hatch in about 38 days, and the young will fledge (leave the nest) when they are between 49 and 59 days of age.

#### Sources:

Cornell Lab of Ornithology <a href="http://birds.cornell.edu">http://birds.cornell.edu</a>
FL Breeding Bird Atlas <a href="http://myfwc.com/bba/docs/bba\_OSPR.pdf">http://myfwc.com/bba/docs/bba\_OSPR.pdf</a>
WhatBird <a href="http://identify.whatbird.com/obj/39/overview/Osprey.aspx">http://identify.whatbird.com/obj/39/overview/Osprey.aspx</a>



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	bd = belo					s: Marked data are in the highest 20% of values found by Ha													
	0	July 2010 Secchi NO3 NH3 TKN T-N T-PO4				August 2010 Secchi NO3 NH3 TKN T-N T-PO4						September 2010						Ava	
	Secchi (inches)		NH3	TKN set	<2.0	T-PO4 <0.46	Seccni (inches)	NO3 <1.0	NH3	TKN	<2.0	<0.46	Secchi (inches)	NO3 <1.0	NH3	TKN set	T-N <2.0	T-PO4 <0.46	Avg TSI
3F	45	bd	bd	1.2	1.20	0.09	57	bd	bd	1.4	1.40	0.08	52	bd	bd	0.4	0.40	0.05	53.29
3G	52 b	bd	bd	1.5	1.50	0.08	-		_	-	-	-	-		_	-	-	-	63.57
4E	-	_	-	-	-	-	48	bd	bd	1.3	1.30	0.07	42	0.05	bd	0.5	0.55	0.12	54.30
6F	33	bd	bd	1.7	1.70	0.17	59	bd	bd	1.8	1.80	0.19	38	0.05	bd	0.6	0.65	0.15	59.3
6H	36	bd	bd	1.4	1.40	0.16	28	bd	bd	1.2	1.20	0.17	25	bd	bd	0.2	0.20	0.12	58.82
7B	20	0.07	bd	1.9	1.97	0.11	12	bd	bd	1.9	1.90	0.40	6	0.16	bd	0.6	0.76	0.14	80.15
10B	-	-	-	-	-	-	43	bd	bd	1.1	1.10	0.09	28	0.05	bd	0.4	0.45	0.08	57.34
11D	64 b	0.06	bd	2.2	2.26	0.17	46	bd	bd	2.0	2.00	0.13	53	bd	bd	0.6	0.60	0.12	62.08
13A	23	bd	bd	1.6	1.60	0.09	23	bd	bd	2.3	2.30	0.10	-	-	-	-	-	-	71.86
15D	52	0.06	bd	2.0	2.06	0.21	57	bd	bd	1.9	1.90	0.11	53	bd	bd	0.8	0.80	0.18	57.04
15E	-	-	-	-	-	-	-	-	-	-	-	-	23	bd	bd	0.9	0.90	0.16	65.02
16E	40 b	bd	bd	0.7	0.70	0.04	35 b	bd	bd	1.2	1.20	0.02	36	bd	bd	0.5	0.50	0.03	46.64
16F	36 b	bd	bd	0.8	0.80	0.02	36 b	bd	bd	0.5	0.50	0.02	24 b	bd	bd	1.0	1.00	0.02	38.15
16G	-	-	-	-	-	-	-	-	-	-	-	-	47	bd	bd	0.3	0.30	0.03	46.76
18G	27	bd	bd	1.3	1.30	0.04	32	bd	bd	0.8	0.80	0.03	34	bd	bd	0.6	0.60	0.51	57.71
18H	-	-	-	-	-	-	26	bd	bd	1.0	1.00	0.03	26	bd	bd	0.7	0.70	0.55	59.67
19D	-	-	-	-	-	-	27	bd	bd	1.3	1.30	0.18	27	bd	bd	0.9	0.90	0.58	64.43
21D	27	bd	bd	1.1	1.10	0.09	28	bd	bd	1.6	1.60	0.10	32	0.05	bd	0.5	0.55	0.70	63.38
22C	42 b	0.08	bd	1.7	1.78	0.08	42	bd	bd	2.9	2.90	0.07	36 b	0.05	bd	1.1	1.15	0.08	61.85
23B	60	0.08	bd	1.6	1.68	0.03	54	bd	bd	2.2	2.20	0.03	60 b	0.09	bd	1.4	1.49	0.03	46.22
26C	28	bd	bd	1.0	1.00	0.04	30	bd	bd	0.8	0.80	0.03	-	-	-	-	-	-	59.93
26D	30	bd	0.1	3.1	3.10	0.07	26	bd	bd	2.0	2.00	0.06	36	bd	bd	1.5	1.50	0.05	63.48
28D	61 b	bd	bd	0.6	0.60	0.04	55 b	bd	bd	0.5	0.50	0.03	48	0.10	bd	0.7	0.80	0.05	48.38
30A	-	-	-	-	-	-	-	-	-	-	-	-	70	bd	bd	0.6	0.60	0.06	47.28
34A	55	bd	bd	0.7	0.70	0.03	-	-	-	-	-	-	-	-	-	-	-	-	48.44
35A	32 b	bd	bd	0.3	0.30	0.04	-	-	-	-	-	_	36 b	bd	bd	0.4	0.40	0.03	36.76
41A	23 b	bd	bd	bd	bd	bd	14 b	bd	bd	0.4	0.40	0.02	30 b	0.07	bd	0.4	0.47	0.03	40.28
43A	45 b	0.13	bd	1.0	1.13	bd	36 b	bd	bd	1.4	1.40	0.02	34 b	0.05	bd	1.3	1.35	0.02	33.02
45D	50	bd	bd	0.5	0.50	0.03	40	bd	bd	0.5	0.50	0.04	-	-	-	-	-	-	50.59
48A	68 b	bd	bd	0.3	0.30	bd	66 b	bd	bd	0.3	0.30	bd	-	-	-	-	-	-	28.29
51A	-	-	-	-	-	-	-	-	-	-	-	-	-	bd	bd	0.6	0.60	0.04	48.05
52B	67 b	bd	bd	0.4	0.40	0.02	58	bd	bd 4	0.4	0.40	0.03	72	0.07	bd	0.5	0.57	0.03	41.95

Max		0.18	0.20	3.10	3.10	0.21		0.15	0.10	2.90	2.90	0.4		0.20	0.10	1.60	1.67	0.7	80.15
Median		0.08	0.10	1.00	1.00	0.04		0.10	0.10	1.10	1.10	0.04		0.07	0.10	0.50	0.59	0.05	49.97
91B	35 b	bd	bd	0.7	0.70	bd	35 b	bd	bd	0.4	0.40	0.02	-	-	-	-	-	-	31.01
91A	46	bd	bd	0.6	0.60	0.02	60 b	bd	bd	0.5	0.50	bd	63	-	-	-	-	-	36.45
90A	32	0.05	0.1	1.2	1.25	0.03	45	bd	bd	1.5	1.50	0.03	38	bd	0.10	0.9	0.90	0.02	51.72
88B	36	0.10	0.2	1.6	1.70	0.06	54	bd	bd	1.1	1.10	0.04	31	0.07	bd	1.6	1.67	0.05	58.49
85C	72 b	0.13	0.1	1.4	1.53	0.02	72 b	bd	bd	1.7	1.70	0.03	78 b	bd	bd	1.1	1.10	bd	35.54
83A	50	bd	0.1	0.5	0.50	0.02	40	bd	bd	1.2	1.20	0.03	60	bd	bd	0.5	0.50	bd	44.84
82A	32	bd	0.1	1.0	1.00	0.02	39	bd	bd	1.0	1.00	0.03	43	bd	bd	0.5	0.50	0.03	51.60
80A	52	bd	0.1	0.6	0.60	bd	49	bd	bd	0.4	0.40	bd	65	bd	bd	0.5	0.50	bd	37.22
74D	35	bd	0.1	1.2	1.20	0.05	48	bd	bd	0.8	0.80	0.05	36	bd	bd	0.5	0.50	0.05	56.49
74C	-	-	-	-	-	-	41	bd	bd	1.2	1.20	0.05	47	bd	bd	0.5	0.50	0.05	54.69
74B	37	bd	bd	0.9	0.90	0.06	48	bd	bd	0.8	0.80	0.05	38	bd	bd	0.8	0.80	0.06	56.80
72A	48	bd	bd	0.8	0.80	0.04	43	bd	bd	1.0	1.00	0.07	52	bd	bd	0.5	0.50	0.09	56.00 51.56
70E	43	bd	0.2	1.2	1.20	0.06	40	bd	bd	1.2	1.20	0.07	42	bd	bd	0.4	0.49	0.11	41.07
67C	12	0.16	0.1	1.7	1.00	0.12	72 0	0.15	0.1	2.5	2.00	0.09	76	0.19	bd	0.4	0.49	0.11	64.38
67A	72	0.18	0.1	1.7	1.88	0.12	72 b	0.15	0.1	2.5	2.65	0.09	24 b	0.19	0.1	0.6 1.4	0.60 1.59	0.03	45.37
65B 66A	-	-	-	-	-	-	27	0.08	bd	0.9	0.98	0.08	20	0.07	bd	0.2	0.27	0.09	60.27
64C	84	0.09	bd	1.0	1.09	0.10	103	0.12	bd	1.1	1.22	0.08	82	0.20	bd	0.4	0.6	0.11	46.05
64B	90	0.08	bd	0.7	0.78	0.10	93	0.07	bd	1.2	1.27	0.07	91	0.18	bd	0.1	0.28	0.10	41.14
59B	54	bd	bd	0.7	0.70	0.02	60	bd	bd	8.0	0.80	0.03	55	bd	bd	0.4	0.40	0.03	45.79
581	51	bd	bd	8.0	0.80	0.03	63	bd	bd	0.9	0.90	0.03	63	bd	bd	0.2	0.20	0.03	43.54
58H	40 b	bd	bd	0.8	0.80	0.03	30 b	bd	bd	1.1	1.10	0.03	32 b	bd	bd	0.6	0.60	0.04	47.04
58G	51	bd	bd	8.0	0.80	0.03	63	bd	bd	1.0	1.00	0.04	48	0.05	bd	0.4	0.45	0.03	49.34
58F	49 b	bd	bd	0.9	0.90	0.02	48 b	bd	bd	1.0	1.00	0.02	-	-	-	-	-	-	37.32
58E	-	-	-	-	-	-	66	bd	bd	1.0	1.00	0.02	55	bd	bd	0.4	0.40	0.03	43.29
57A	-	-	-	-	-	-	29 b	bd	bd	0.3	0.30	bd	-	-	-	-	-	-	28.29

Secchi Depth, inches. b: disk visible on bottom	TKN = Total Kjeldahl Nitrogen (organic + NH <sup>4</sup> )
NO <sup>s</sup> = Nitrate (inorganic)	TN = Total Nitrogen (inorganic + organic)
NH <sup>3</sup> = Armonia (inorganic)	TPO <sup>1</sup> = Total Phosphate

All nutrient concentrations shown in mg/L

High levels of nutrients in our canals can indicate the presence of fertilizer runoff or effluent from wastewater or septic systems. Excessive nutrients can lead to nuisance plant growth and algal blooms.

TSI = Trophic State Index, a quick indicator of canal health. 47 sites this quarter scored as GOOD (<60). 9 sites scored FAIR (60-70), and two were POOR (>70).

As we enter the dry season, expect Secchi Depths to increase. We will probably also see more instances of the Secchi disk being visible on the canal bottom.

October	November	December
6 <sup>th</sup> Canalwatch	3 <sup>rd</sup> Canalwatch	1st Canalwatch
11 <sup>th</sup> Columbus Day	(Rotary Park event)	25 <sup>th</sup> Christmas
16 <sup>th</sup> Cape Coral Farmers	11 <sup>th</sup> Veterans Day (9 <sup>th</sup> annual Veterans Day Parade	
Market Begins at Club Square capecoralfarmersmarket.com	on SE 47 <sup>th</sup> Terrance 4pm – 6pm) $12^{th} - 14^{th}$ Coconut Festival	
23 <sup>rd</sup> Native Plant Sale	Sunsplash Fairgrounds	
Manatee Park Fort Myers 9am – 2pm	cocofest.com	
fnpscoccoloba.org	20 <sup>th</sup> CHNEP Nature Festival 10am – 3pm	
29 <sup>th</sup> Caloosa Blueway	Charlotte Sports Park	
Paddling Festival Pine Island and	chnep.org	
Lovers Key State Park caloosabluewaypaddlingfestival.com	25 <sup>th</sup> Thanksgiving	

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