

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 2nd Quarter 2015

Environmental News

Cape Coral Parks and Recreation Recognized for Sustainability

The City of Cape Coral is the proud recipient of the 2015 Florida Recreation and Park Association (FRPA) Agency Excellence Award in the Environmental Sustainability Category. This prestigious award will be presented at the award ceremony during the FRPA Conference on Thursday, September 3, 2015. The application for this award was rigorous and qualifications for this award (economic development, environmental sustainability, and community involvement) are held at the highest standard by FRPA. Receiving this award is an outstanding achievement for the City of Cape Coral Parks and Recreation Department. Cape Coral Parks and Recreation staff continues to work towards an environmentally sustainable community by providing environmental education programs, best management practices in landscaping, and continued community partnerships. For more information regarding FRPA and the Agency Excellence Award please visit frpa.org/mbr/awards

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Questions? Comments? Let us know!

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Native Plant profile

Sweet Acacia *Acacia farnesiana* Also *Vachellia farnesiana*

The sweet acacia is aptly named because of the sweet fragrance that perfumes the air during its spring bloom. Nectar from the sweet acacia flower is the floral note in Chanel No. 5 perfume and often adds to the conversation when describing this small tree in the home landscape.

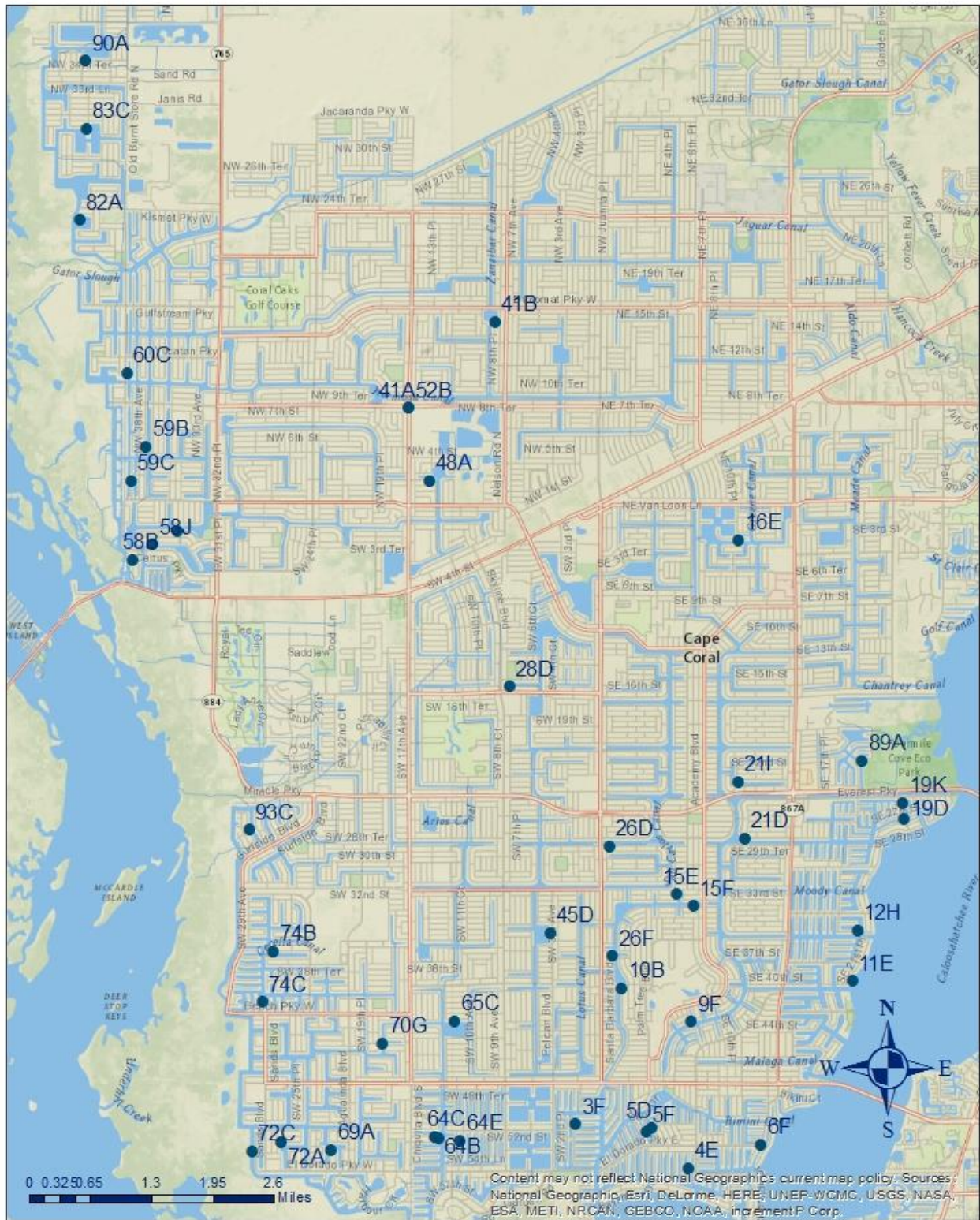
The sweet acacia grows to about 15 feet in height, enjoys full sun and is adapted to sandy soils. The nectar attracts butterflies; thorns on the branches offer protection for nesting birds. The sweet acacia is native to south Florida, Mexico and the Caribbean.



Sweet Acacia

Photo courtesy of Atlas of Florida Vascular Plants

Canalwatch Stations 2015



Canalwatch Extra Field Data 2nd Quarter 2015

90A	Apr	May	Jun
DO	5.10	4.8	3.8
pH	8.0	8.1	8.0
Temp	22	24	27
Sal	18	26	18

	Full Name	Units
DO	Dissolved Oxygen	mg/L
pH	pH	-
Temp	Temperature	°C
Sal	Salinity	ppt

DO values that are below the state standard of 4 mg/L are highlighted in yellow.

74B	Apr	May	Jun
DO	4.3	6.8	6.0
pH	7.8	8.2	8.6
Temp	21	26	29
Sal	-	-	-

74C	Apr	May	Jun
DO	7.2	-	-
pH	8.1	-	-
Temp	24	-	-
Sal	-	-	-

72C	Apr	May	Jun
DO	3.2	3.1	-
pH	8.0	8.3	-
Temp	233	25	-
Sal	8	10	-

26D	Apr	May	Jun
DO	3.3	-	4.8
pH	7.6	-	7.6
Temp	24	-	36
Sal	10	-	5

10B	Apr	May	Jun
DO	-	5.15	4.77
pH	-	8.1	8.0
Temp	-	25	27
Sal	-	15	12

4E	Apr	May	Jun
DO	6.05	5.7	5.6
pH	7.9	8.3	8.2
Temp	23	24	26
Sal	-	12	18

64E	Apr	May	Jun
DO	5.4	5.6	-
pH	7.9	8.0	-
Temp	24	25	-
Sal	-	-	-

	bd = below detection		benchmark numbers: Marked data are in the highest 20% of values found by Hand et. al, 1988.																
	April 2015						May 2015						June 2015						
	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	NO2	NO3	NH3	TKN	T-N	T-PO4	Avg
	<1.0	<1.0	none set		<2.0	<0.46	<1.0	<1.0	none set		<2.0	<0.46	<1.0	<1.0	none set		<2.0	<0.46	TSI
3F							0.03	0.03	0.1	0.8	0.8	0.07	0.03	0.03	0.2	0.9	0.9	0.10	55.05
4E	0.03	0.03	0.05	0.7	0.7	0.03	0.03	0.05	0.05	0.8	0.85	0.09	0.03	0.07	0.2	0.7	0.77	0.07	53.71
5D	0.03	0.03	0.05	0.6	0.6	0.04	0.03	0.03	0.1	0.9	0.9	0.05	0.03	0.03	0.2	0.9	0.9	0.06	52.67
5F	0.03	0.03	0.05	0.8	0.8	0.04													53.11
6F													0.03	0.03	0.05	0.9	0.9	0.08	58.51
9F	0.03	0.03	0.05	0.5	0.5	0.02	0.03	0.03	0.1	0.9	0.9	0.09	0.03	0.03	0.05	1.0	1.0	0.08	52.98
10B							0.03	0.03	0.1	0.7	0.7	0.04	0.03	0.03	0.1	1.0	1.0	0.04	50.79
11E	0.03	0.03	0.05	0.7	0.7	0.03	0.03	0.03	0.1	0.7	0.7	0.10	0.03	0.03	0.05	0.9	0.9	0.07	52.23
12H	0.03	0.03	0.05	0.6	0.6	0.05	0.03	0.03	0.1	0.6	0.6	0.11	0.03	0.03	0.05	1.0	1.0	0.08	49.14
15E	0.03	0.03	0.05	0.7	0.7	0.06	0.03	0.05	0.05	0.8	0.85	0.05	0.03	0.03	0.05	1.0	1.0	0.06	58.64
15F	0.03	0.03	0.05	0.6	0.6	0.05	0.03	0.03	0.1	0.7	0.7	0.04	0.03	0.03	0.05	0.8	0.8	0.06	50.80
16E	0.03	0.03	0.05	0.3	0.3	0.04	0.03	0.03	0.1	0.3	0.3	0.02	0.03	0.03	0.05	0.7	0.7	0.03	37.93
19D	0.03	0.21	0.05	0.1	0.21	0.06	0.03	0.03	0.1	0.8	0.8	0.13	0.03	0.03	0.05	0.8	0.8	0.10	43.90
19K							0.03	0.03	0.1	0.9	0.9	0.13							53.98
21D	0.03	0.03	0.05	0.6	0.6	0.08	0.03	0.05	0.05	0.8	0.85	0.10	0.03	0.03	0.05	1.7	1.7	0.10	54.95
21I	0.03	0.03	0.05	0.9	0.9	0.07	0.03	0.03	0.1	0.9	0.9	0.10	0.03	0.03	0.1	2.5	2.5	0.15	63.97
26D	0.03	0.03	0.05	0.2	0.2	0.04	0.03	0.03	0.1	0.2	0.2	0.01	0.03	0.03	0.05	0.9	0.9	0.03	48.09
28D	0.03	0.03	0.05	0.1	0.1	0.03							0.03	0.03	0.05	0.7	0.7	0.02	19.42
41A							0.03	0.03	0.1	0.05	0.1	0.01	0.03	0.03	0.05	1.2	1.2	0.08	29.02
41B	0.03	0.03	0.05	0.3	0.3	0.04	0.03	0.07	0.05	0.5	0.57	0.02	0.03	0.03	0.05	0.5	0.5	0.02	37.68
45D	0.03	0.03	0.05	0.3	0.3	0.01	0.03	0.03	0.1	0.1	0.1	0.01							45.02
48A	0.03	0.03	0.05	0.1	0.1	0.03	0.03	0.10	0.05	0.5	0.60	0.01	0.03	0.03	0.05	0.3	0.3	0.01	35.94
52B							0.03	0.06	0.05	0.6	0.66	0.01	0.03	0.03	0.05	0.4	0.4	0.02	31.01
58B	0.03	0.03	0.05	0.1	0.1	0.04													46.36
58I	0.03	0.03	0.05	0.1	0.1	0.03	0.03	0.03	0.1	1.3	1.3	0.03	0.03	0.03	0.2	1.1	1.1	0.04	32.74
58J	0.03	0.03	0.05	0.1	0.1	0.01	0.03	0.03	0.1	1.5	1.5	0.02							24.86
59B	0.03	0.03	0.05	1.6	1.6	0.03							0.03	0.03	0.3	1.9	1.9	0.03	44.08
59C							0.03	0.03	0.1	1.2	1.2	0.01	0.03	0.03	0.2	1.3	1.3	0.02	33.14

60C	0.03	0.03	0.05	1.5	1.5	0.04							0.03	0.03	0.2	1.4	1.4	0.03	42.49
64B	0.03	0.03	0.05	1.8	1.8	0.04							0.03	0.03	0.2	1.2	1.2	0.06	49.55
64C							0.03	0.03	0.1	0.5	0.5	0.04							41.58
64E	0.03	0.03	0.05	1.5	1.5	0.06													60.89
65C	0.03	0.03	0.05	1.6	1.6	0.03	0.03	0.03	0.1	1.0	1.0	0.05	0.03	0.03	0.2	0.7	0.7	0.05	50.56
66A	0.03	0.03	0.05	0.9	0.9	0.01	0.03	0.03	0.1	0.2	0.2	0.01							58.51
69A	0.03	0.03	0.05	0.9	0.9	0.08	0.03	0.03	0.1	1.2	1.2	0.06							58.59
70G	0.03	0.03	0.05	1.1	1.1	0.03	0.03	0.03	0.1	1.0	1.0	0.04	0.03	0.03	0.05	0.6	0.6	0.05	49.36
72C	0.03	0.03	0.05	1.3	1.3	0.04	0.03	0.03	0.1	0.7	0.7	0.03							51.34
74B	0.03	0.03	0.05	1.4	1.4	0.05	0.03	0.03	0.1	1.7	1.7	0.04	0.03	0.03	0.05	1.5	1.5	0.06	61.17
74C	0.03	0.03	0.05	1.3	1.3	0.04													48.05
82A	0.03	0.03	0.05	0.4	0.4	0.01	0.03	0.03	0.1	1.5	1.5	0.03	0.03	0.03	0.2	1.2	1.2	0.03	51.19
82C							0.03	0.03	0.1	1.1	1.1	0.03							54.12
83C	0.03	0.03	0.05	0.3	0.3	0.01							0.03	0.03	0.4	1.3	1.3	0.03	40.82
89A	0.03	0.03	0.05	0.3	0.3	0.06	0.03	0.03	0.1	0.5	0.5	0.15	0.03	0.03	0.05	1.2	1.2	0.15	52.10
90A	0.03	0.03	0.05	0.3	0.3	0.03	0.03	0.03	0.1	2.1	2.1	0.03	0.03	0.03	0.4	2.2	2.2	0.03	45.29
93C	0.03	0.03	0.05	1.5	1.5	0.03	0.03	0.03	0.1	1.1	1.1	0.04	0.03	0.03	0.05	0.9	0.9	0.08	54.22
Median		0.03	bd	0.60	0.60	0.04		bd	bd	0.80	0.85	0.04		bd	bd	1.00	1.00	0.06	50.56
Max		0.21	0.05	1.80	1.80	0.08		0.10	0.10	2.10	2.10	0.15		0.07	0.40	2.50	2.50	0.15	63.97

NO2 = Nitrite (inorganic)	TKN = Total Kjeldahl Nitrogen (organic + NH4)	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.
NO3 = Nitrate (inorganic)	TN = Total Nitrogen (inorganic + organic)	
NH3 = Ammonia (inorganic)	TP04 = Total Phosphate	

All nutrient concentrations shown in mg/L

TSI = Trophic State Index, a quick indicator of canal health. 42 sites this quarter scored as GOOD (<60). 3 sites scored FAIR (60-70), zero scored POOR (>70)
The canal waterways are experiencing some excess nutrients from the increased amount of rainfall during this time of year. However, this trend is unnoticed as trophic level for many of the sites are still rated as "good". The influence of stormwater will continue until these summer rain patterns decrease. By summer's end there may be more than just a few with increased trophic state index scores.

August

5th Canalwatch

19th Gardening for Birds
Design Class 1pm
Rotary Park
Info: 549-4606

26th Wild Edibles Strolling
Seminar
10am
Rotary Park
Info: 549-4606

September

2nd Canalwatch

7th Labor Day

October

7th Canalwatch

12th Columbus Day

21st Babcock Ranch tour
and lunch
8:30 – 3:00
Tony Rotino Center
Info: 574-0807

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