

Canal Current

A wave of information for Cape Coral's Canalwatch volunteers

Newsletter: 2nd Quarter 2022

Environmental News

Florida Yards and Neighborhoods and Florida Friendly Landscape Programs

Cape Coral's canals are undoubtedly the defining feature of the city. They provide waterfront access, recreational opportunities, (such as fishing and boating), flood control and stormwater mitigation. Because the health of Cape Coral's canals is vital to its residents, it's important to know that water quality is affected in part by what occurs on land. Accordingly, it's important for residents to practice good landscape maintenance.

2022 marked the 20-year anniversary of the City of Cape Coral partnering with the University of Florida/ Institute for Food and Agricultural Sciences (IFAS) and the Lee County Extension Office in educating homeowners and businesses on the Florida Yards and Neighborhoods (FYN) and the Florida Friendly Landscapes (FFL) programs. These programs not only provide instruction in maintaining a healthy, environmentally friendly yard, emphasizing how careless landscape practices can impair water quality, but also provides recognition to residents who follow these principles.

This program is a partnership of concerned citizens, members of landscape industry, University of Florida's Cooperative Extension Service, Florida's National Estuary Programs, Florida Sea Grant, and countless local and state environmental

agencies.

The overreaching goal of the program focuses on residential landscapes since they are often adjacent or near waterbodies. Reducing the impacts of excess nutrients such as Nitrogen and Phosphorus, will help protect estuaries, rivers, lakes, and aquifers from the adverse effects of eutrophication.

The water quality connection between the waterways and residential landscapes is stormwater. As rain flows through yards and streets in route to the stormwater conveyance systems, the runoff collects fertilizers, pesticides, petroleum, pet waste, and debris. Unlike wastewater (water from households and businesses), stormwater receives little to no treatment, so these pollutants flow into any receiving waterbody.

In Cape Coral, residents do not have to live on a canal to impact the health of the ecosystem. All residential yards, driveways and roads are pathways to surrounding waterbodies via the stormwater conveyance systems. However, residents and business owners can make decisions that help preserve the health and aesthetics of Cape Coral's waterways and those that surround the city.

The FYN program provides principles on planning and maintaining your landscaping, with sound environmental science. Within each principle are actions the homeowner can take to make home landscapes friendlier to the environment. FYN and FFL are goal-oriented programs. When a homeowner believes they have applied the nine principles to their yards and their maintenance routine, the yard can be "recognized". Yard recognition includes a FYN sign to let neighbors know that your yard is not contributing to environmental harm.

For more information regarding Florida Yards and Neighborhood and Florida Friendly Landscape classes, please visit; leegov.com/parks/extension or call Rotary Park Environmental Center at (239) 549-4606. For available classes, the Cape Coral Parks and Recreation Program Guide can be found at capeparks.com.

The nine principles of the program are:

Right Plant Right Place

Plants selected to suit a specific site will require minimal amounts of water, fertilizer, and pesticides.

Water Efficiently

Irrigate only when your lawn and landscape need water. Efficient watering is the key to a healthy Florida yard and conservation of limited resources.

Fertilize Appropriately

Less is often best. Over-utilization of fertilizers can be hazardous to your yard and the environment.

Mulch

Maintaining a three-inch layer of mulch will help retain soil moisture, prevent soil erosion, and suppress weeds.

Attract Wildlife

Plants in your yard that provide food, water and shelter can conserve Florida's diverse wildlife.

Control Yard Pests Responsibly

Unwise use of pesticides can harm people, pets, beneficial organisms, and the environment.

Recycle

Grass clippings, leaves, and yard trimmings recycled on site provide nutrients to the soil and reduce horticultural material being sent to the landfill.

Reduce Stormwater Runoff

Water running off from your yard can carry pollutants such as debris, fertilizer and pesticides that can adversely impact water quality. Reducing runoff with rain barrels, rain gardens and pervious surfaces will help prevent pollution.

Protect the Waterfront

Waterfront property, whether on a canal, river, lake, pond or on the Gulf of Mexico, is very fragile and should be carefully protected to maintain freshwater and marine ecosystems. Those that reside directly on the waterfront have an extra responsibility to protect the common resource.



Inside This Issue:

Florida Friendly Landscapes 1-3 Lab Data 4 Upcoming Events 6

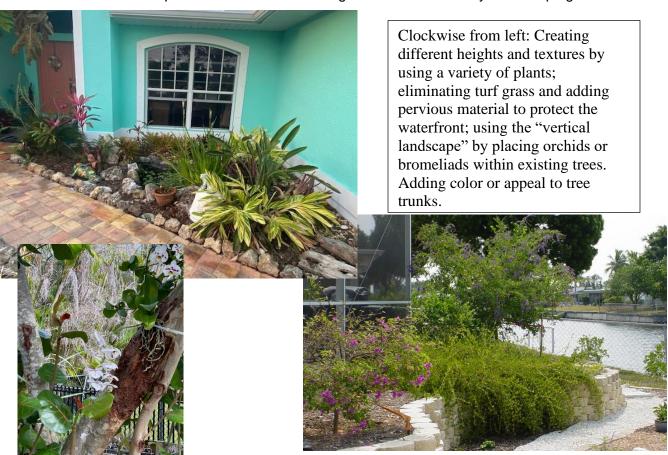
Questions? Comments? Let us know!

(239) 574-0742

Harry: hphillips@capecoral.gov



Above: A Cape Coral Home with a recognized Florida Friendly Landscaping



	bd = be	low dete	ection		benchr	nark num	bers: M	larked d	ata are i	n the hig	hest 20	l% of valu	ues foun	d by Ha	ınd et. al,	, 1988.			
	April 2022						May 2022							June 2022					
	NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	NO2	NO3	NH3	TKN	T-N	T-P04	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
2B	0.05	0.05	0.05	0.8	0.90	0.05							0.05	0.05	0.1	0.4	0.4	0.10	34.07
4-2A	0.05	0.05	0.05	0.6	0.70	0.06													52.87
5D	0.05	0.05	0.05	0.5	0.60	0.05	0.05	0.10	0.2	0.6	0.7	0.05	0.05	0.05	0.1	0.5	0.5	0.10	51.29
5H							0.05	0.10	0.1	0.4	0.5	0.05							48.94
51	0.05	0.05	0.05	0.6	0.70	0.05							0.05	0.05	0.1	0.4	0.4	0.10	56.08
6F	0.05	0.05	0.05	0.9	0.90	0.05	0.05	0.05	0.2	0.8	0.8	0.10	0.05	0.05	0.1	0.5	0.5	0.10	50.1
7 E	0.05	0.05	0.05	0.7	0.81	0.05	0.05	0.10	0.1	0.7	0.8	0.05	0.05	0.05	0.05	0.5	0.5	0.10	45.69
9H	0.05	0.05	0.05	0.8	0.93	0.05	0.05	0.05	0.1	0.7	0.7	0.05	0.05	0.05	0.2	0.5	0.5	0.10	49.59
12H							0.05	0.05	0.1	0.7	0.7	0.10	0.05	0.05	0.05	0.4	0.4	0.10	46.17
13B	0.05	0.05	0.05	0.7	0.83	0.05	0.05	0.10	0.05	0.7	0.8	0.05	0.05	0.05	0.2	0.5	0.5	0.14	53.32
15G							0.05	0.10	0.1	0.6	0.7	0.05	0.05	0.11	0.3	0.6	0.7	0.10	54.92
16E	0.05	0.05	0.05	0.5	0.50	0.05	0.05	0.05	0.1	0.7	0.7	0.05	0.05	0.05	0.3	0.5	0.5	0.05	60.59
161	0.05	0.05	0.05	0.7	0.70	0.05							0.05	0.05	0.2	0.9	0.9	0.05	61.25
18K							0.05	0.05	0.1	0.8	0.8	0.05							61.87
18L	0.05	0.22	0.05	0.9	1.12	0.05	0.05	0.10	0.1	0.8	0.9	0.10							57.88
18M	0.05	0.05	0.05	0.8	0.80	0.05	0.05	0.05	0.1	0.6	0.6	0.05	0.05	0.05	0.1	0.7	0.7	0.05	57.69
19D	0.05	0.06	0.05	0.8	0.95	0.05	0.05	0.05	0.05	0.8	0.8	0.10	0.05	0.05	0.4	0.7	0.7	0.10	62.95
21D	0.05	0.05	0.05	0.8	0.92	0.05	0.05	0.05	0.05	0.8	0.8	0.05	0.05	0.05	0.05	0.5	0.5	0.10	51.82
211	0.05	0.06	0.05	1.0	1.16	0.05	0.05	0.12	0.05	0.6	0.72	0.05	0.05	0.12	0.2	0.9	1.0	0.12	56.85
24D	0.05	0.05	0.05	0.7	0.80	0.05							0.05	0.05	0.2	0.6	0.6	0.05	56.43
30D	0.05	0.05	0.025	0.6	0.60	0.05	0.05	0.10	0.05	0.4	0.5	0.05	0.05	0.05	0.2	0.4	0.4	0.05	43.09
41B	0.05	0.05	0.025	1.0	1.00	0.05	0.05	0.05	0.1	0.9	0.9	0.05	0.05	0.05	0.1	0.9	0.9	0.05	56.35

	0.05	0.05	0.05	0.6	0.60	0.05	0.05	0.10	0.1	0.5	0.6	0.05	0.05	0.05	0.2	0.5	0.5	0.05	52.31
44A																			
45D	0.05	0.05	0.025	0.7	0.70	0.05	0.05	0.05	0.05	0.6	0.6	0.05	0.05	0.05	0.1	0.5	0.5	0.05	54.55
48A							0.05	0.05	0.1	0.5	0.5	0.05	0.05	0.05	0.1	0.7	0.7	0.05	51.79
581	0.05	0.05	0.025	0.6	0.60	0.05	0.05	0.05	0.1	0.4	0.4	0.05	0.05	0.05	0.1	0.5	0.5	0.05	44.52
64H	0.05	0.05	0.025	0.4	0.4	0.05	0.05	0.05	0.1	0.4	0.4	0.05	0.05	0.05	0.2	0.3	0.3	0.10	44.82
70H													0.05	0.05	0.1	1.5	1.5	0.12	55.69
72C	0.05	0.05	0.025	0.7	0.7	0.05	0.05	0.05	0.05	0.4	0.4	0.10	0.05	0.05	0.2	0.6	0.6	0.10	53.21
74C	0.05	0.05	0.025	0.6	0.6	0.05	0.05	0.05	0.1	0.5	0.5	0.10	0.05	0.05	0.1	0.6	0.6	0.10	45.62
82A	0.05	0.05	0.025	0.5	0.5	0.05	0.05	0.05	0.3	0.6	0.6	0.05	0.05	0.05	0.1	0.5	0.5	0.05	61.08
96A	0.05	0.05	0.025	0.6	0.6	0.05	0.05	0.05	0.05	0.7	0.7	0.05	0.05	0.05	0.1	0.5	0.5	0.05	53.22
Median		0.05	0.05	0.70	0.70	0.05		0.05	0.10	0.60	0.70	0.05		0.05	0.10	0.50	0.50	0.10	53.22
Max		0.22	0.05	1.00	1.16	0.06		0.12	0.30	0.90	0.90	0.10		0.12	0.40	1.50	1.50	0.14	62.95
			TKN = Total Kjeldahl Nitrogen (organic + NH4)			High levels of nutrients in our canals can indicate the presence of fertilizer													
N02 =	Nitrite (ino	organic)				_						TCI - Te	onhia Ct	ata Indi		iak india	ator of	oonal be	a a l + la
	Nitrite (ino Nitrate (inc		Nitroger		+ NH4) ogen	can in runoff septic	dicate the or efflue system	ne prese ent from s. Exce	nce of fe wastewa ssive nu	rtilizer ater or trients		27 sites	this qu	ate Inde	ored as	GOOD (<60). Fi		
NO3 = I		organic)	Nitroge TN = (inorg	n (organic : Total Nitr	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit	this qu 0-70), antie	arter so nd zero : fall repo	ored as scored F orted for	GOOD (< POOR (> r 1st qua	<60). Fi 70). arter 202	ve site s	scored his has
N03 = I	Nitrate (ind	organic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d	this qu 0-70), an tle rain emonst	arter so nd zero : fall repo rated by	ored as scored F orted for many o	GOOD (POOR (> r 1st qua of the fr	<60). Fi 70). arter 202 eshwate	ve site s 22 and t er canal	scored his has s
NO3 = I	Nitrate (ind	organic) norganic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d becomi	this qu 0-70), a tle rain emonst ing depl	arter so nd zero fall repo rated by leted du	ored as scored F orted for many core	GOOD (POOR (> r 1st qua of the fro gation v	<60). Fir 70). arter 202 eshwate vater us	ve site s 22 and t er canal se. How	scored his has s ever,
NO3 = I	Nitrate (ind	organic) norganic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d becomi with so	this qu 0-70), antle rain emonst ing depl	arter so nd zero : fall repo rated by leted du n event	ored as of scored Forted for many of the to irrist, water	GOOD (POOR (> r 1st qua of the fr gation v	<60). Fi 70). arter 202 eshwate vater us has bee	ve site s 22 and t er canal e. How n excep	scored his has s ever, otional.
N03 = I	Nitrate (ind	organic) norganic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d becomi with so With th	this qu 0-70), and tle rainst emonst ing depl few rains ne begin	arter so nd zero : fall repo rated by leted du n event ining of	ored as scored Forted for many core to irrist, water the wet	GOOD (POOR (> r 1st qua of the fr gation v	<60). Fi 70). arter 202 eshwate vater us has bee	ve site s 22 and t er canal e. How n excep	scored his has s ever, otional.
N03 = I	Nitrate (ind	organic) norganic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d becomi with so With th	this qu 0-70), and tle rainst emonst ing depl few rains ne begin	arter so nd zero : fall repo rated by leted du n event	ored as scored Forted for many core to irrist, water the wet	GOOD (POOR (> r 1st qua of the fr gation v	<60). Fi 70). arter 202 eshwate vater us has bee	ve site s 22 and t er canal e. How n excep	scored his has s ever, otional.
NO3 = I	Nitrate (ind	organic) norganic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d becomi with so With th	this qu 0-70), and tle rainst emonst ing depl few rains ne begin	arter so nd zero : fall repo rated by leted du n event ining of	ored as scored Forted for many core to irrist, water the wet	GOOD (POOR (> r 1st qua of the fr gation v	<60). Fi 70). arter 202 eshwate vater us has bee	ve site s 22 and t er canal e. How n excep	scored his has s ever, otional.
NO3 = I	Nitrate (ind	organic) norganic)	Nitroge TN = (inorg	n (organic : Total Nitr panic + org : Total Ph	+ NH4) rogen ganic)	can in runoff septic	dicate the or efflue system nd to nui	ne prese ent from s. Exce sance pl	nce of fe wastewa ssive nu lant grov	rtilizer ater or trients		27 sites FAIR (6 Very lit been d becomi with so With th	this qu 0-70), and tle rainst emonst ing depl few rains ne begin	arter so nd zero : fall repo rated by leted du n event ining of	ored as scored Forted for many core to irrist, water the wet	GOOD (POOR (> r 1st qua of the fr gation v	<60). Fi 70). arter 202 eshwate vater us has bee	ve site s 22 and t er canal e. How n excep	scored his has s ever, otional

For up-to-date City of Cape Environmental Resources Division water quality date visit https://www.capecoral.net/department/public_works/quarterly_water_quality_reports.php

Upcoming Events and Classes

Florida Friendly Landscaping Class March 25th 10am-12pm

Info at:

https://www.eventbrite.com/e/basics-of-florida-friendly-gardening-2023-registration-479492875097?aff=ebdssbdestsearch

GARDEN

Burrowing Owl Festival February 25th 9-4pm Info at: ccfriendsofwildlife.org

Butterfly Garden Design

March 3rd 1-3pm

More info at: Rotary Park Environmental Center 239-549-4606

Florida Friendly Landscape Yard Tours

March 4th 9-12pm

More info at: Rotary Park Environmental Center 239-549-4606

City of Cape Coral Environmental Resources 815 Nicholas PKWY Cape Coral, FL 33990