

January to March 2020- Volume 3, Number 1

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A Note From the Broward County's Urban Horticulture Extension Agent..

Dear "Broward Green Bites" Readers,

Happy New Year! I am very excited to share with you our new Spring *Broward Green Bites* newsletter. Our Spring newsletter is sharing some of our amazing 2019 Extension events, new 2020 projects, educational information and collaborative initiatives for new programming. The University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS) is a federal, state, and county partnership dedicated to developing knowledge in agriculture, human and natural resources, the life sciences and to making that knowledge accessible to sustain and enhance the quality of human life. Enjoy our Spring newsletter!

Warm Regards,




Cranberry Hibiscus Photo Credit: Lorna Bravo

Lorna Bravo, Urban Horticulture Agent II, CED LEED AP BD+C

Phone: 954-756-8529

Fax: 954-357-5271

Email: lbravo1@ufl.edu

CHECK OUT THESE ONLINE RESOURCES:

UF/IFAS Extension Website: <http://sfyl.ifas.ufl.edu/broward/urban-horticulture-and-natural-resources/>

EDIS Publications: <http://edis.ifas.ufl.edu/>

Florida Master Gardener: <http://gardeningsolutions.ifas.ufl.edu/mastergardener/>

Florida Master Naturalist: <http://www.masternaturalist.ifas.ufl.edu/>

Florida Friendly Landscapes: <http://fyn.ifas.ufl.edu/>

Gardening Solutions: <http://gardeningsolutions.ifas.ufl.edu/>

Broward Master Gardener: <http://sfyl.ifas.ufl.edu/broward/urban-horticulture-and-natural-resources/broward-master-gardener/>



Upcoming Events

 	
2020 MASTER GARDENER VOLUNTEER LECTURE SERIES	
JANUARY 14	LORNA BRAVO - MGV COMMITTEE REPORTS
FEB 4TH	CAROLINA MARAN - BROWARD COUNTY PARKS WATER RESOURCE INITIATIVES
MARCH 3RD	FERNANDO ALFEREZ - CITRUS GREENING
APRIL 7TH	LORNA BRAVO - FLORIDA FRIENDLY LANDSCAPING: RAINWATER HARVESTING
MAY 5TH	GEORGE ROGERS - FLORIDA HORTICULTURE HISTORY
JUNE 2ND	JUDY BAILY - SLIPPER ORCHIDS
JULY 7TH	SUMMER BREAK
AUGUST 4TH	DR. BAYABIL - HYDROLOGY 101: SMART IRRIGATION SYSTEMS
SEPT 1ST	DR. ORFANEDES - TREE CANOPY: STRUCTURAL PRUNING
OCTOBER 6TH	CATHERINE MANNION - WHITEFLY: PEST ALERT AND OTHER TALKING POINTS
NOV 3RD	SARAH STRAUSS - SOIL MICROBIOLOGY (7:00PM)
DEC TBD	HOLIDAY PARTY AND AWARDS CEREMONY

Join us for fresh popped popcorn and cool refreshments shortly before each event!

New 2020 Master Gardener Lecture Series

UF/IFAS Extension Broward County Master Gardener program provides Master Gardeners the opportunity to stay connected with research and continue learning important horticultural principles during the year.

Our new 2020 Master Gardener Lecture series is ready! UF/IFAS Extension Broward County Master Gardener program offers FREE monthly lecture series for Master Gardeners to attend and help them get their minimum annual educational hourly requirements (10 Hours). We host ten amazing lectures on the first Tuesday of every month. Come and join us at UF/IFAS Extension Broward County and bring a friend!!!



2019 SUSTAINABLE URBAN AGRICULTURE SHORT CLASSES

NEW Sustainable Urban Food Production System Program Fall 2020

Food security is a critical concern as the global population expands, and natural resources dwindle. Smart solutions for more efficient farming, hardier crops, alternative sources of nutrition, and safer food packaging and storage are essential. Class participants will gain knowledge on how to practice sustainable urban agriculture, save water and energy in urban agriculture, explore and implement various technologies discussed during the workshop, including rain barrels, drip irrigation, composting, and crop diversification. The short classes will cover sources of local fresh produce and healthy living. Participants will gain a better understanding of the social and environmental benefits of urban agriculture, acquire knowledge, and adopt best management practices at home.

Come and join us for our next Sustainable Food Production System short-courses in July 2020!!!

UF/IFAS Extension
UNIVERSITY of FLORIDA

UF/IFAS Extension Broward County

2019 SUSTAINABLE URBAN AGRICULTURAL SHORT-COURSE

MONDAYS, 1:00 - 4:30 PM

JULY 22, 2019
Introduction to Sustainable Urban Agriculture & Demographics
Workshop: Tour sites in Broward County

AUGUST 5, 2019
Business/Marketing Plan, and Financial Resources

SEPTEMBER 9, 2019
Best Management Practices
Workshop: Composting, nutrient and water management

SEPTEMBER 23, 2019
Technology Integration in Urban Agriculture

This comprehensive UF/IFAS Extension program includes a series of lecture and hands-on workshops on sustainable urban agriculture geared for small farmers, urban farmers, community gardeners, backyard gardeners and entrepreneurs. Participants will gain a better understanding of local, environmental benefits of urban agriculture, acquire knowledge and skills necessary to start or expand their farming operations.



HYDROPONIC SYSTEMS



2019 UF/IFAS EXTENSION BROWARD COUNTY MASTER GARDENER VOLUNTEERS LEGACY AWARD WINNERS



Photo Credit: Lorna Bravo

PROJECT "TRAIN THE TRAINERS"

Did you know that In 2019, UF/IFAS Extension Broward County Master Gardener Program received the 2019 Master Gardener Legacy Grant award?

This award recognizes the importance of urban agriculture education, with an emphasis on educating Broward County teachers on implementing urban agriculture initiatives through UF/IFAS Extension's Master Gardener education program for community and school urban garden efforts.

UF/IFAS Extension Broward County Vegetable Committee Master Gardeners began a 1/4 acre Master Gardener Demonstration Vegetable Garden ("the Garden") in May 2018. The team's mission is to use "the Garden" as an educational outreach that demonstrates solutions to the unique growing condition of urban Broward County.

You can read more about the project @ <https://blogs.ifas.ufl.edu/browardco/2019/11/29/uf-ifas-extension-master-gardener-legacy-award-grant-winners/>



UF/IFAS Extension Vegetable Committee Master Gardeners selling their vegetable plants to help support their Train the Trainer Garden Project.



On November 1st, 2019, we engaged and educated 748 elementary students about Florida's Farms and fresh produce! The goal of this event is to bring about awareness of farm to school and to have each student sample a local cucumber.



Florida-Friendly Landscaping Program



UF/IFAS Extension, Broward County Florida-Friendly Landscaping™ Demonstration Gardens



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UNIVERSITY of FLORIDA



BROWARD
COUNTY
FLORIDA

Florida-Friendly
Landscaping™ PROGRAM

Make your Landscape Florida-Friendly in 2020

Florida-Friendly Landscape works with the environment, not against it. It requires way less maintenance than traditional landscapes. Better still, native landscapes attract native wildlife! Your yard could be buzzing with pollinators, and a safe yard could be buzzing with pollinators and a haven for Florida's native species. Florida-Friendly Landscapes™ (FFL) means using low-maintenance plants and environmentally sustainable practices. Landscaping the Florida-Friendly way means having a beautiful landscape that could save you time, energy, and money while protecting Florida's future.

Do you have questions related to water use and water quality in the Landscape in Florida?

UF/IFAS faculty have developed three new publications relative to proposed local landscaping ordinances and the development of public policy. The materials contained in these publications are the scientific basis for all FYN/Florida-Friendly Landscaping materials at the University of Florida/IFAS. We encourage you to share this information with anyone or any groups/organizations that would benefit from this information.

- **Landscape Irrigation for Florida-Friendly Landscaping Ordinances**
<http://edis.ifas.ufl.edu/wq142>
- **Landscape Fertilization for Florida-Friendly Landscaping Ordinances**
https://ffl.ifas.ufl.edu/fert_ordinances.html
- **2009 Florida-Friendly Landscaping™ Legislation**
<https://edis.ifas.ufl.edu/ep440>



Florida-Friendly Landscaping Program



UF/IFAS Extension Broward County Florida-Friendly Landscaping™ Inspections

Landscape Irrigation accounts for over half of the water usage in Broward County. Florida-Friendly Landscaping™ means using low maintenance plants and environmentally sustainable practices. Learn how you can have a beautiful landscape that could save you time, energy and money while protecting our future.



WATER DEMAND

At least

50%

of Florida household water usage is for landscape irrigation



The average U.S. household spends more than

\$1,000

per year on water ¹

DID YOU KNOW?

Broward County averages 50-60 inches of rain annually.

Ask us about our Rain Barrel Program

Contact us for a *FREE* Florida-Friendly Landscaping™ inspections for your home!

For more information regarding UF/IFAS Extension Florida-Friendly Landscaping™ in Broward County please visit:
<http://sfyl.ifas.ufl.edu/broward/urban-horticulture-and-natural-resources/fflresources/>

To schedule an inspection, please contact:

Lorna Bravo, UF/IFAS Extension Broward County Director & Urban Horticulture Agent, lbravo1@ufl.edu or
Anthony Gross, UF/IFAS Extension Training Specialist, anthony.gross@ufl.edu

1. U.S. Environmental Protection Agency (EPA), 2015
2. Please, check with your community for local rules/regulations regarding the use of Rain Barrels



2019 2nd Annual UF/IFAS Extension Art in The Garden



2019 MASTER GARDENER FLORIDA-FRIENDLY BUTTERFLY PLANT SALE



Florida-Friendly
Landscaping™ PROGRAM



OUR ROLE IN PROTECTING OUR ENVIRONMENT



ASK ABOUT OUR RAIN BARREL PROGRAM

Reduce Stormwater Runoff

To protect waterways and replenish Florida's aquifer



- Connect a rain barrel to your downspouts to collect rainwater, and reduce runoff
- Use porous surfaces, such as pavers, and bricks for walkways, patios and driveways.
- Aim downspouts toward porous surfaces so that water can soak into soil
- Rain gardens retain water and serve as an attractive feature within the landscape

UF/IFAS Extension Florida-Friendly Landscaping™

Want to join our Master Gardener program? Contact Lorna Bravo: lbravo1@ufl.edu

2019 2nd Annual UF/IFAS Extension Art in The Garden

COLLABORATION & PARTNERSHIP



COME AND VISIT US FOR OUR 3RD ANNUAL ART IN THE GARDEN EVENT IN THE FALL OF 2020!!!



ART IN THE GARDEN IS A WONDERFUL UF/IFAS EXTENSION BROWARD COUNTY 4-H & MASTER GARDENER ANNUAL EVENT FOR FAMILIES TO LEARN THE IMPORTANCE OF HAVING A FLORIDA-FRIENDLY BUTTERFLY GARDEN AND THE VITAL ROLE OUR LOCAL POLLINATORS PLAY IN OUR ENVIRONMENT.

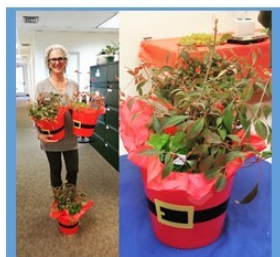


UF/IFAS EXTENSION BROWARD COUNTY BEE HOUSE PROJECT



2019 UF/IFAS EXTENSION MASTER GARDENER GRADUATIONS

2019 UF/IFAS EXTENSION BROWARD COUNTY MASTER GARDENER GRADUATIONS ANNIVERSARIES



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ON DECEMBER 14TH, 2019 WE CELEBRATED 10 YEAR, 15 YEAR & 20 YEAR MASTER GARDENER ANNIVERSARIES!!! CONGRATULATIONS TO THE NEW MASTER GARDENER GRADUATES FROM CLASS 2018 & 2019. THANK YOU TO ALL OUR UF/IFAS EXTENSION BROWARD COUNTY MASTER GARDENER VOLUNTEERS .

WE WORK AND SERVE ALL(EXTERNAL & INTERNAL) WITH MUTUAL RESPECT AND HONESTY



COMMUNITY IMPACT



WE WORK AND SERVE ALL (EXTERNAL & INTERNAL) WITH MUTUAL RESPECT AND HONESTY.

"The Art in the Garden event filled my soul. My nephew, husband, and I made bee houses with mugs. I bought a bunch of butterfly plants. And, I met a bunch of kind and knowledgeable gardeners. I was so happy."

Lillian D. Ortiz, M.Ed
National Board Certified Teacher
Nova Eisenhower Elementary



FLORIDA
**MASTER
GARDENER
VOLUNTEER**



UF/IFAS Extension Broward County

2019 SUSTAINABLE
URBAN
AGRICULTURAL
SHORT-COURSE

"As a company whose main goal is to spread awareness and assistance in edible gardens, Garden a la Carte, tries its hardest to educate as much as it can. [UF IFAS Extension Broward County Urban Agriculture Short Courses](#) has been a great mentor to us in providing resources and knowledge that we are able to use to improve the way we educate others"

-Garden a la Carte

COMMUNITY IMPACT

"The information shared in this course was invaluable. The way that the information was presented was very efficient, with great passionate speakers and very relevant examples to the Florida ecosystem. My startup is working on Artificial Intelligence capabilities to help farmers become more sustainable and productive, so the information shared in these sessions was invaluable to learn sustainability aspects, challenges and opportunities of food production. I truly believe that the effort being put into these sessions, and the outreach to the community to provide such valuable feedback, is outstanding. Thanks for the opportunity to participate in the sessions, and I'm looking forward to future classes".

2019 Sustainable Urban Agriculture Short-Course Participant

"My favorite was the hydroponic class, I will like to know more about how to feed plants in a hydroponic system". 2019 Sustainable Urban Agriculture Short-Course Participant



UF/IFAS EXTENSION, BROWARD COUNTY

**THE FLORIDA
MONARCH PROJECT**

How Butterflies Connect Us



"Your enthusiasm coupled with your knowledge just made my day! Thanks for spreading the word and for the important work you do."

-Plantation Women's Club

Florida-Friendly Landscape Plant of The Month

Partridge Pea (*Chamaecrista fasciculata*)

- Family: Fabaceae (Pea Family)
- Scientific Name: *Chamaecrista fasciculata*
- Sleeping plant or partridge-pea is a slender-stemmed, 1-3 ft. annual with pinnately-compound leaves bearing many small, yellow-green leaflets which fold together when touched. Large, showy, yellow flowers arise from leaf axils. Each flower is marked with red and is followed by a narrow pod.



Partridge Pea
Larval host plant for
certain blue,
cloudless Sulphur,
little yellow, and
gray hairstreak

Picture Credit: Lorna Bravo

Florida-Friendly
Landscaping™ PROGRAM



Partridge Pea (*Chamaecrista fasciculata*) is a member of the Pea or Bean (*Fabaceae*) family. It is slender-stemmed, 1-3 ft. tall with pinnately-compound leaves bearing many small, yellow-green leaflets which fold together when touched. It is a beautiful native annual wildflower that provides bright summer colors attracting bees and butterflies. The red colors on the petals are part of the visual allure to pollinators. Did you know that Partridge Pea flowers do not produce nectar but rewards their visitors with pollen? As a result, bees that collect pollen are the most likely visitors to the flowers. Partridge Pea's nectar source is available through extrafloral nectaries on the base of the stem of each leaf. Partridge Pea's extrafloral nectaries look like tiny open pots, glistening with nectar, making this a compelling open invitation to thirsty beneficial insects visiting along! Several butterfly species use Partridge Pea as a food plant for their caterpillars, including Cloudless giant Sulphur, Orange sulphur and Sleepy orange butterflies. Partridge Pea likes the sun. It can tolerate poor, dry soils. It helps to fertilize soils through its release of nitrogen compounds necessary for the plant's survival. You'll be delighted you choose to add this unique native wildflower to your Florida-Friendly Landscape! - Lorna Bravo

Want to visit UF/IFAS Extension Broward County Education Florida-Friendly Landscaping Demonstration Gardens?

You can see examples of our Florida-Friendly Landscaping Plant of The Month. Contact our office.



Us on Facebook – UF IFAS Extension Broward County @ufifasextbroward

Visit our UF/IFAS Extension Broward County Website at:
<http://sfyl.ifas.ufl.edu/broward/urban-horticulture-and-natural-resources/>
<http://blogs.ifas.ufl.edu/browardco/>

Do you want to receive our quarterly newsletters?
Stay Connected @ Constant Contact: shorturl.at/tux39

Do you have an idea, question, or comment you would like to share?

Please reach out to us via the following:

E-Mail: lbravo1@ufl.edu

Visit the UF/IFAS Extension Broward County
Office today at
3245 College Ave
Davie, Florida 33314



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Single copies of UF/IFAS Extension publications (excluding 4-H and Youth publications) are available free to Florida residents from county UF/IFAS offices.

