



Broward Green Bites

Spring January–March 2019, Volume III



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 2018 fall Extension events, new 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!

UF/IFAS STATEWIDE RESEARCH & EDUCATION



What is UF/IFAS Extension Education?

For the past century, UF-IFAS Extension has put land-grant university research and education to work, preserving the balance of natural resources and quality of life for all Floridians.

Extension Brings the resources and knowledge of the University of Florida faculty and staff directly to you locally through our Extension programs in each of the state's 67 counties.

Warm Regards,

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/>

UF/IFAS EXTENSION, BROWARD COUNTY MASTER GARDENER CELEBRATION

PLEASE JOIN US JANUARY 15TH 2019 FROM 6:30PM TO 9:00PM IN THE EXTENSION AUDITORIUM FOR OUR FIRST MASTER GARDENER MEETING, AWARD CEREMONY & CELEBRATION OF 2019.

FEATURED SPEAKERS

DR. ANITA NEAL, SOUTHEAST DISTRICT EXTENSION DIRECTOR, UF/IFAS EXTENSION
LORNA BRAVO, COUNTY EXTENSION DIRECTOR/AGENT II
WENDY WILBER, MASTER GARDENER STATE COORDINATOR, UF/IFAS EXTENSION
DR. KIMBERLY MOORE, PROFESSOR, UF-IFAS-FLREC



UPCOMING Events

BIOBLITZ IN BROWARD COUNTY: BRING OUT YOUR HIDDEN SCIENTIST!

Starting in the Spring 2019, family-friendly biodiversity surveys called BioBlitzes will be organized in various parks throughout Broward County. Below is the information for our Spring BioBlitz park location. You can become a Citizen Scientist while learning about local biodiversity, rediscovering your local parks, and having fun outside! Please join us.

Visit: tinyurl.com/BrowardBioBlitz

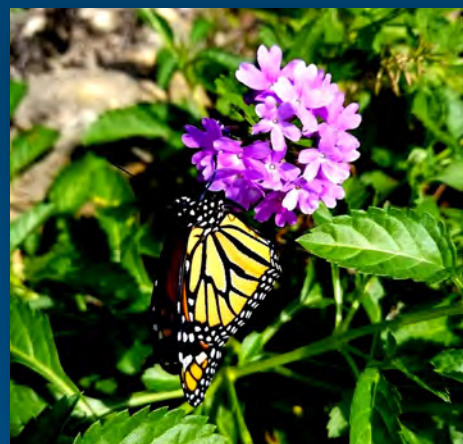
- NEXT SPRING BIOBLITZ: QUIET WATER PARK
- DATE: MARCH 30, 2019
- QUESTIONS? EMAIL: lbravo1@ufl.edu or basille@ufl.edu



BioBlitz

TO ENGAGE THE PUBLIC TO CONNECT TO THEIR ENVIRONMENT WHILE GENERATING USEFUL DATA FOR THE SCIENCE AND CONSERVATION

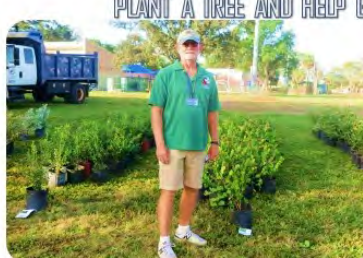
Broward County Master Gardeners in Action



Fort Lauderdale Research and Education Center is recognizing all the amazing work that UF/IFAS Extension Broward County Master Gardeners are doing to help beautify the FLREC courtyards with a beautiful sign in their courtyard facility. Come and visit the garden!

CITY OF FORT LAUDERDALE RESIDENT TREE GIVEAWAY PROJECT

PLANT A TREE AND HELP GROW A GREENER COMMUNITY



Master Gardener Gene Cain



Broward County Master Gardeners: Maurice Bruet, Bob Brach, and Larry Williams



Master Gardener Anthony Gross teaching about UF/IFAS Right Plant, Right Place and proper tree selection.

WHY IT MATTERS

To support the enjoyment of public places and natural environment, the City of Fort Lauderdale tree canopy is being measured with the goal of increasing it to provide more shade and improve aesthetics and appeal. Due to the climate of South Florida, shade coverage is integral in promoting a more walkable and bikeable Fort Lauderdale as it will provide for a more comfortable and inviting experience.



We are very proud of our amazing Broward County Master Gardeners for attending the December 15th 2018 Fort Lauderdale Quarterly Tree Giveaway. It was a successful event held in Osswald Park. They were able to distribute over 500 native trees! The Tree Giveaway's mission is to meet the City of Fort Lauderdale's plan of an increase in the overall canopy of .5% each year. In 2018, the University of Florida Broward County Master Gardener program served 1600 residents at the Fort Lauderdale Tree Giveaway program and provided UF research-based information on tree canopies. If you would like to volunteer as a Master Gardener for the Tree Giveaway project contact Lorna Bravo at Lbravo1@ufl.edu. You can learn more about the City of Fort Lauderdale's FREE tree give-away events at: <https://gyr.fortlauderdale.gov/greener-government/natural-resources-preservation/growing-our-green-canopy/tree-give-aways-and-programs>

Broward County Master Gardeners in Action



Photo by: Lorna Bravo

UF/IFAS Extension Broward County Master Gardeners
Michael Thomas, Errol Simmons, and Brendan Doyle
Veterans Nunzio Galli, Vincent Carbone and Rolf Ekelund
and Mrs. Diane Gray Wife of Lt. Col. Leo Gray

NAVAL AIR STATION FORT LAUDERDALE FLORIDA



The Buddy Galvin Butterfly Garden Memorial dedication at Fort Lauderdale Naval Museum, located at 4000 W. Perimeter Rd. Fort Lauderdale, FL 33315.

The Memorial Garden started from an Idea that came up at a Master Gardeners Christmas party I was talking to Terri Goldsmith & Lee Layman. A question was asked what my next project would be. I was impressed with the visit I had with the veterans at the Naval Museum a few weeks prior. I thought about their question & said I would like to build a butterfly garden at the naval museum honoring Flight Nineteen. Then I thought, "Maybe in the shape of the Avenger Torpedo Plane?" They agree & liked the idea. I spoke with the Naval Museum Director Dr. John Bloom & he like the Idea as well. I was blessed to have around forty hardworking volunteers plus the Navy volunteers during fleet week to assist us. Plans & drawings were changed over twenty times with each idea better than the last. I could have not completed this project without them. Soon enough, we were Wildlife Certified & won the 2017 Emerald Award!



I was sitting next to a ninety-five-year-old navy veteran named was Buddy Galvin & was in awe listening to how he went out looking for flight nineteen on Dec. 5, 1945. That's when I came up with the Buddy Galvin Memorial Butterfly Garden. This Garden sprung into life with the help donated from the veterans, local Master Gardeners, Butterfly Society, artists, Museum volunteers, & local Nurseries. On November 11, 2017, the Buddy Galvin Memorial Butterfly Garden was open. We all had a celebration for Buddy. He would come & sit out there smiling & watch the butterflies each day. One year later, Buddy passed away. We had his Memorial there. I would just like to thank all of the amazing volunteers who helped us! Without them, this wouldn't exist.

- Brendan Doyle

Broward County Master Gardeners in Action



THE FRUITS OF A GROUP OF DEDICATED MASTER GARDENERS

MIRAMAR COMMUNITY GARDEN

The 14,600-square foot garden, located in Historic Miramar, is maintained by volunteers and serves as an educational resource for the community to learn about the sources of fresh produce and healthy living, participate in community service, and hands-on health-based learning.



Photos by: Lorna Bravo



Broward County Master Gardeners: Errol Simmons, Alex McCrae
Elsi Rose, Development and Capital Management Coordinator
Dr. Jiangxiao Qiu, UF FLREC-Assistant Professor Landscape Ecology

CURRENT MASTER GARDENER MEMBERS :

- Errol Simmons
- Emma Simmons
- Alex McCrae
- Margot Hummer
- Janet Arculeo
- Anthony Jackson

With a slogan of “Want free Veggies? Become a member!”, the Miramar Community Garden (MCG) is a place where the community learns, shares and practices how to grow their own food and live a healthy life. The Garden, now approaching its 9th anniversary, couldn’t enjoy its success without the vital contributions from Master Gardeners. The Master Gardeners graciously teach other members and the community at large about the possibilities of growing healthy, delicious food at a low cost. The MCG was originally built by the City of Miramar with donations from corporate sponsors and has become a staple for community service and hands-on learning opportunities. Since May 2010, the MCG has offered an average of 20 events per year organized by member-volunteers who have donated over 24,000 hours of service. The MCG was the first demonstration of a “micro farming system” in Broward County designed by architect Michael Madfis. The MCG program promotes healthy food sources of vegetables and fruits, a social network for garden volunteers to learn about the urban agricultural industry and the opportunity for vocational training. The Editor of Our Town Miramar Magazine wrote “It’s easy being green at the Miramar Community Garden!” and this is especially so with the good-natured wisdom provided by the MCG’s Master Gardeners.

GARDEN FEATURES:

- A shared gro-bag area run by row captains and their teams
- a culinary herb garden
- a composting station
- a vermiculture station
- a banana grove
- a fruit grove
- a pollinator border
- a food forest with a pineapple and sugarcane groves
- a garden kitchen
- an outdoor classroom
- demonstration area showcasing best practices in urban farming.

As a result of the amazing work by the Master Gardeners, program members and community volunteers, the MCG has been chosen for national, state and local awards such as:

- 2017 NatureScape Broward Emerald Award
- 2017 Florida Department of Health’s designation: Healthy Weight Community Champion
- 2016 Florida League of Cities Municipal Achievement City Spirit Award
- 2015 Sustainable Government Award
- 2014 GRO1000 Gardens and Green Spaces Grant Award by the U.S. Conference of Mayors



New Projects

GARDENING FOR WILDLIFE BUTTERFLY & WATER-WISE CONSERVATION GARDEN PROJECT



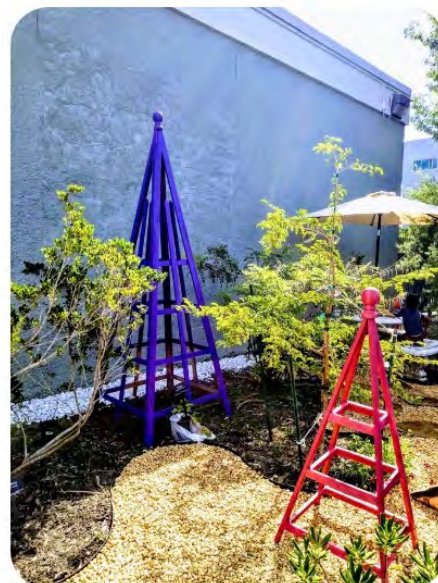
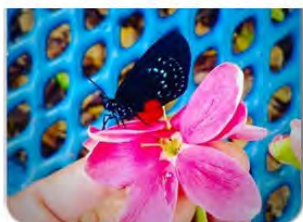
NABA Member: Sandy Fernandes
Master Gardeners: Terri Bitler Ward, Jeffrey Cole, Patt Rossie,
Denise Eaton, Amy Rielly.
Urban Horticulture Agent: Lorna Bravo



To emphasize the intimate relationship between insects and their host plants.

UF/IFAS Extension Broward County has a new 600-square foot butterfly garden teaching demo space. This project was a collaborative effort between UF 4-H Association, Master Gardeners, Master Naturalists & Broward County Butterfly Council members. The space will be used as our new teaching demo for new Master Gardener workshops, public site tours, & 4H Clubs. This sustainable garden model will conserve water, feature South Florida Native plants & crucial wildlife habitat.

GARDENING FOR WILDLIFE



Art in The Garden

UF/IFAS Extension Broward County Butterfly Garden-
November 10th, 2018
Photo: Lorna Bravo

New Projects

Gardening for Wildlife

CONNECTING YOUTH TO NATURE PROJECT

To emphasize the intimate relationship between insects and their host plants



Photo: Lorna Bravo

Attracting birds, butterflies and other wildlife is a wonderful way to make a difference right outside your door! It all starts with what you plant. Plant a shrub that flowers for pollinators and one that produces berries for birds and other animals. Put out a birdbath. Provide cover with dense shrubs. Plant host plants for butterfly caterpillars. Let wildflowers grow. Put away the chemicals. Natural gardens are better for you and your family as well as the wildlife.



Extension Events

BioBlitz 2018

November 3rd, 2018

BIOBLITZ



Tree Tops BioBlitz is complete!



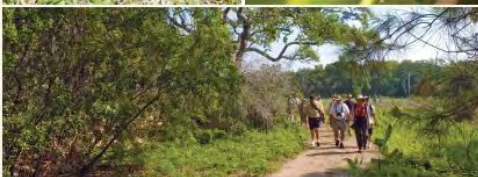
Tree Tops BioBlitz managed to log 278 observations on iNaturalist (from 15 observers), nearly tripling the current amount of observations in the park. This culminated in 140 species found in the park, adding 50 new species to the park on iNaturalist (100 to 150). This really increased the local knowledge of biodiversity in the area and will contribute to future studies on wildlife in South Florida!



11/3/2018

UF/IFAS
UNIVERSITY of FLORIDA

BIOBLITZ



JOIN citizen **SCIENTISTS** in parks
to **LEARN** about **BIODIVERSITY**

Visit: tinyurl.com/BrowardBioBlitz

BIOBLITZ



11/3/2018
Photos: Lorna Bravo UF/IFAS

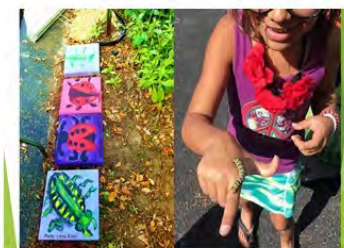
TO ENGAGE THE PUBLIC TO CONNECT TO THEIR ENVIRONMENT WHILE
GENERATING USEFUL DATA FOR THE SCIENCE AND CONSERVATION



11/3/2018 Photo: Lorna Bravo UF/IFAS



CONNECTING YOUTH TO NATURE PROJECT



"In the end, we will conserve only what we love; we will love only what we understand and we will understand only what we are taught."
-Baba Dioum

UF/IFAS Extension Broward County Master Gardeners & 4-H hosted the Art in The Garden event. Kids had fun making art & learning about the importance of pollinators, butterfly plants, & water conservation in our own backyards.



UF IFAS Extension
UNIVERSITY OF FLORIDA



CONNECTING YOUTH TO MENTORS AS THEY CONNECT TO NATURE TOGETHER

The Broward County UF/IFAS Extension Urban Horticulture Program is initiating a **new collaboration** program where Master Gardeners and 4-H are working together to build new butterfly gardens in Broward County.



Connecting Youth to Nature can help children engage in outdoor experiences. This is a positive step concerned adults can take to reconnect young children with nature and the arts and allow them to explore their intrinsic interest of the natural world. This program uses age-appropriate activities and skills within environmental settings that can foster children's curiosity, increase their knowledge, and their motor skills.

Extension Events

Tomato Vegetable & Ornamental Plant Swap

October 20, 2018



UF/IFAS EXTENSION MASTER GARDENERS



Master Gardener: Marsha Eisenberg



I am a retired Dentist who practiced for 22 years. Since retiring, I have pursued my other love - edible gardening, especially tomatoes. I have been growing tomatoes for over 20 years, but have gotten really into this hobby since 2013. I have become an expert in diagnosis of tomato diseases and pests, and I have "cracked the code" of growing tomatoes in South Florida from seed to seed. In fact, that's the name of the talk I give when asked to speak at various club meetings and also for the Dade County Public Library System. I am currently growing 108 different tomato varieties, most are heirlooms or open pollinated, a few are hybrids. All are grown in containers. I trade seeds all over the world, and I am friends with many private tomato breeders as well.

Every year in October I put on a free tomato, vegetable, and ornamental plant swap for all the Master Gardener/Master Naturalists, and my South Florida friends. It's totally free, and because it's also a pot luck there is always great food too. I do this because it gives me so much joy to hear how people love the taste of real tomatoes, rather than the red round cardboard excuses you buy in the grocery store. Please be sure to join us next October at UF/IFAS Extension Broward County for our 2019 Tomato Vegetable & Ornamental Plant Swap.

UF/IFAS Extension Broward County Master Gardener Marsha Eisenberg Class of 2014

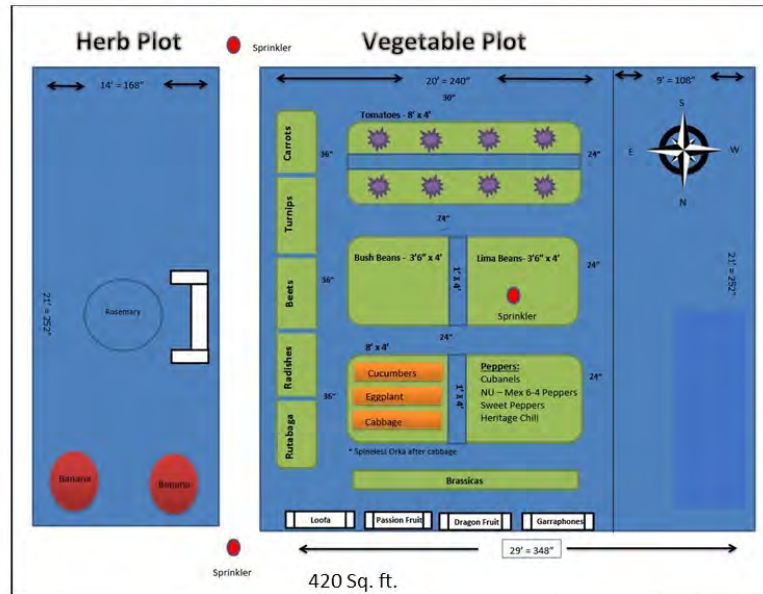


CONTAINER GARDENING EARTH BOXES



New Projects

UF/IFAS EXTENSION BROWARD COUNTY VEGETABLE GARDEN PROJECT



Designed by: UF/IFAS Extension Broward County Master Gardeners Vegetable Committee

Vegetable Garden Project Mission Statement:

The Broward County Master Gardener Vegetable Project seeks to create vegetable, herb and pollinator gardens; demonstrating various growing techniques and integrated pest management. The exhibition gardens offer a platform for experimentation and continuing education for urban gardeners in South Florida."



Photo credit: Julio Perez
Broward County Master Gardener

COME VISIT US!!!



Photo Credit: Julio Perez

UF/IFAS EXTENSION BROWARD COUNTY VEGETABLE GARDEN PROJECT



Photo credit: Lorna Bravo
Broward County Master Gardeners Vegetable Garden



New Projects

HYDROPONIC SOLUTIONS FOR URBAN FOOD PRODUCTION



DID YOU KNOW?

The word *hydroponics* was formed by combining two Greek words: *hydro* meaning water and *ponos* meaning work; the combination means “working water,” as a method for growing plants without soil. Other words have been used to describe the growing of plants without soil, including aqua (water) culture, nutriculture, hydroculture, soilless culture, talk farming, and chemical culture.

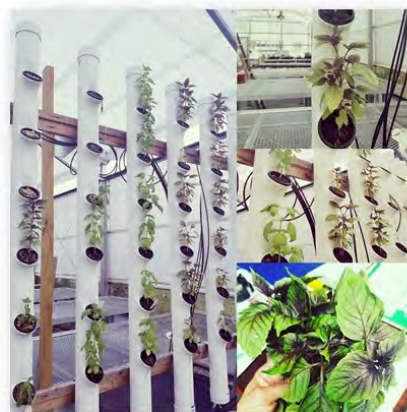
BENEFITS OF HYDROPONICS



UF/IFAS EXTENSION BROWARD COUNTY HYDROPONIC PROJECT



Master Gardener Intern Mathew Segovia enjoys growing Fresh herbs in our vertical hydroponic system.



Vertical Hydroponic System

Designed to produce crops in vertical rows irrigated from the top. Ideal for short and long term crops.

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

Upcoming Events

2019'S UF/IFAS EXTENSION MASTER GARDENER PRESENTATIONS

Note: MG meetings will be held at the Extension Auditorium from 6:30PM-8:00PM

- January 15 Lorna Bravo(UF/IFAS Extension of Broward County, CED) & Dr. Anita Neal (UF/IFAS Extension, DED) - MG Awards
- February 5 Dr. H. Dail Laughinghouse IV (UF/FLREC, Applied Phycology)- Algae Blooms in Florida
- March 5 Dr. Sifuentes (USGS, Hydrologist) & Lorna Bravo(UF/IFAS Extension of Broward County, CED) - Water Trends/Climate Change
- April 2 Dr. Qiu (UF/FLREC, Professor of Landscape Ecology)- Sustainable Urban Farming BMP
- May 7 Jeff Wasielewski (UF/IFAS Extension of Miami Dade, Commercial Tropical Fruit Crops Extension Agent)- Why won't my tree fruit? A lesson for MG's
- June 4 Cristina Burgart (Chrysal USA, Technical Consultant) - Plant Propagation/ Native Pollinator Plants
- July OFF
- August 6 Lisa Gonzalez(UF/IFAS Extension of Broward County, Food Systems Specialist)- Supporting Schools & Community Gardens
- September 3 Dr. Kimberly Moore(UF/FLREC, Professor, Sustainable Plant Management)- Soil Testing & Nutrient Uptake
- October 8 Lorna Bravo(UF/IFAS Extension of Broward County, CED)- The Florida Monarch Project
- November 5 Sandy Koi -Ties that Bind: Florida Butterflies and Native Plants
- December 10 2019 Holiday Party!



UF IFAS Extension
UNIVERSITY of FLORIDA

BROWARD
COUNTY
FLORIDA

February 28th, 2019 | 7:00PM | Auditorium

LARGE LIZARDS ON THE LOOSE

Special guest speaker:

Justin Dalaba, Science Writer/Outreach Coordinator
UF-IFAS FLREC, Croc Docs

Please join us as we dive deeper into Florida's unique
reptile problem and the ways we can help slow it down.

Register today at:

https://large_lizards_on_the_loose.eventbrite.com

For more information please contact Lorna Bravo at lbravo@ufl.edu Julio Perez at jpulio@ufl.edu

An Equal Opportunity Institution and Employer

FMNP Course Agenda Wildlife Monitoring 2019



Up Coming: The Florida Master Naturalist Program's **Wildlife Monitoring Course**, offered by the Broward County Extension Education, in partnership with Kristen Hoss of Tanawha. This course is designed to provide training in principles and commonly used techniques for surveying and monitoring wildlife. People that complete this course will better understand the reasons for monitoring wildlife and the methodologies used to do so. This course includes both classroom instruction and hands-on experience and will better equip students to participate in data collection for wildlife monitoring projects.

Course dates are March 12-16, 2019.

Plant of The Month

CAN YOU ID THE TREE?



Single leaf with eight leaflets against the bark of a mature mahogany tree.
Photo: Lorna Bravo, UF/IFAS. All rights reserved



The fruits, known as capsules, slowly develop during summer and fall, maturing in winter. The silvery hard capsules are oval and are 3 to 5 inches long. Mature capsules split open while still on the tree, releasing winged seeds.



Drawing by: Lorna Bravo

CHARACTERISTICS

It is a tropical tree, well-known for its aromatic hardwood used in furniture making. It is native to southernmost Dade and Monroe counties and is currently listed as a state threatened species due to logging. One of South Florida's most popular landscape and street trees, it is fast-growing and large, generally reaching a height between 40 and 60 feet with a canopy that spreads about 50 feet wide. The crown of these trees is rounded and symmetrical with pinnate leaves that are between 6 and 9 inches long. The actual leaf is made up of 4 or 5 pairs of "leaflets" that the common individual might mistake individual leaves. They're shiny, green, and lance-shaped. New leaves usually appear in April and May after old leaves are quickly shed a week or two before. The green flowers on these trees are not showy and emerge simultaneously with the new leaves.

It works well in landscapes with lots of space as a front or backyard tree, but be aware of the large, hard fruits!



Us on Facebook – UF IFAS Extension Broward County @ufifasextbroward
Send us your answers for FREE butterfly plant seeds

Website: <http://sfyl.ifas.ufl.edu/broward/urban-horticulture-and-natural-resources/>
<http://blogs.ifas.ufl.edu/browardco/>



us on Facebook – UF IFAS Extension Broward County @ufifasextbroward

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



An Equal Opportunity Institution & Employer. UF/IFAS Extension, University of Florida, Institute of Food and Agricultural Sciences.

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

"Broward Green Bites", UF/IFAS Extension, Broward County



An Equal Opportunity Institution and Employer