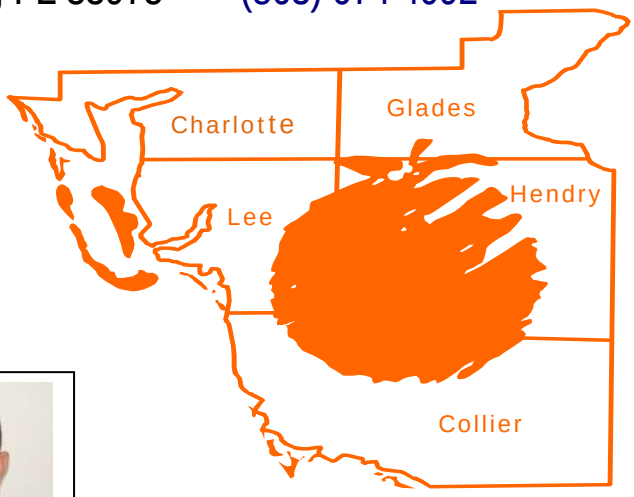
UF UNIVERSITY of FLORIDA
IFAS Extension

EXTENSION

Institute of Food and Agricultural Sciences

Hendry County Extension, P.O. Box 68, LaBelle, FL 33975 (863) 674 4092

Flatwoods Citrus



Vol. 22, No. 12 **December 2019**

Dr. Mongi Zekri
Multi-County Citrus Agent, SW Florida

Have a Happy Holiday Season and a Productive New Year!!!

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Seminar: A CUPS Day

Pre-registration is required.
No registration fee and lunch is free Thanks to **Scott Thompson with Tree Defender & Tommy Thayer with Southern Citrus Nurseries, LLC.**
To reserve a seat, call 863 674 4092, or send an e-mail to Dr. Mongi Zekri at: maz@ufl.edu

2 CEUs for Certified Crop Advisors (CCAs)
2 CEUs for Pesticide License Renewal

"CUPS, mini-CUPS and other strategies to manage HLB"
Date: Tuesday, December 17, 2019, Time: 10:00 AM – 12:00 Noon
Location: Immokalee IFAS Center
Program Coordinator: Mongi Zekri, UF-IFAS
Program Sponsors: **Scott Thompson with Tree Defender & Tommy Thayer with Southern Citrus Nurseries, LLC.**

Agenda
----10:00 AM - 10:30 AM
"Citrus Under Protective Screen (CUPS)"
--Vector exclusion
--HLB incidence under CUPS
--High density planting
--Fruit production and quality
--Insect pests
Dr. Rhuanito (Johnny) Ferrarezi, UF-IFAS

----11:30 AM - 11:00 AM
"Individual Protective Covers (IPCs), mini-CUPS"
--Tree performance
--Tree growth
--Leaf drop
--Insect pests
Dr. Fernando Miguel Alferez, UF-IFAS

11:00 AM – 11:10 AM Break

----11:10 AM - 12:00 Noon
"Citrus Pest Management in Open and Protected Systems"
--Cultural pest control
--Biological control
--Chemical control
--Citrus pest complex
--Pest problems in advanced production systems
--New pest concerns for citrus
Dr. Jawwad Qureshi, UF-IFAS

Seminar

Scouting and managing citrus diseases in 2020

Pre-registration is required.
No registration fee and lunch is free Thanks to **Morgan McKenna with Syngenta.**
To reserve a seat, call 863 674 4092, or send an e-mail to Dr. Mongi Zekri at: maz@ufl.edu

Location: Southwest Florida Research & Education Center, Immokalee
Date & time: Wednesday, January 15, 2020, 10:00 AM – 12:00 Noon.
Speakers: Dr. Ozgur Batuman and Dr. Megan Dewdney, UF-IFAS
Program Coordinator: Dr. Mongi Zekri, UF-IFAS
Sponsor: **Morgan McKenna with Syngenta**

2 CEUs for certified crop advisors (CCAs)
2 CEUs for pesticide license renewal

Agenda

10:00 AM - 10:50 AM
Dr. Megan Dewdney, UF-IFAS

1. Brown rot: scouting, symptoms, life cycle, epidemiology, damage, management
2. Citrus canker: scouting, symptoms, life cycle, epidemiology, damage, management

10:50 AM - 11:40 AM
Dr. Megan Dewdney, UF-IFAS

3. Citrus black spot: scouting, symptoms, life cycle, epidemiology, damage, management
4. Postbloom fruit drop: scouting, symptoms, life cycle, epidemiology, damage, management

11:40 AM - 12:00 Noon
Dr. Ozgur Batuman, UF-IFAS

5. Citrus greening (HLB): scouting, symptoms, life cycle, epidemiology, damage, management

Institute of Food and Agricultural Sciences
UF-IFAS Hendry County Extension Service
P.O. Box 68, LaBelle, FL 33975

Information for the next Certified Pile Burners Course:

The Florida Forest Service and University of Florida Cooperative Extension Service will be conducting a Certified Pile Burners Course on **Wednesday, February 5, 2020**. This course will show you how to burn piles ***legally, safely and efficiently***. Most importantly, it could save a life. If you burn piles regularly, don't put off registering for this training. When the weather is dry, certified pile burners will receive priority for authorization to burn. Also, certified pile burners are allowed to burn up to two hours longer per day and get multiple day authorizations. Don't wait. The number of trainings offered and attendance at each training is LIMITED. This training will be held from 8:30 am till 4:30 pm at the **Southwest Florida Research and Education Center, Immokalee, Florida**. Included are a registration form and program agenda.

Registration is required to attend and class size is limited. To attend please send the following information (see form on next page):

1. Your full name (as wanted on your pile burning certificate).
2. Your mailing address (where you want the certificate mailed).
3. Your Florida Forest Service Customer Number (It is the number that you are required to give the FFS when you call in for your burn permits. If you do not know it, please call the local FFS office and ask them to create one for you).
4. Your email address (or your office e-mail address).
5. Your contact phone number.
6. A check made out to: Hendry County 4-H for $50.00.

The first fifty individuals to provide these six requirements will be registered; there will be a 7-day non refundable fee limit. If you do not make the training and did not contact our office at least one week before the class, you will not receive a refund. There will be a test at the end of the session. You must receive a grade of 70% or higher on the exam and demonstrate a proper pile burn with your local FFS office to become certified. Once you are certified it will be noted with your customer number, thus it is important for us to have the proper number. If you do not have a customer number the FFS office will set one up for you. Fill out the registration form on the next page and return it as directed.

Sincerely,

Mongi Zekri

For Questions Contact: Dr. Mongi Zekri at maz@ufl.edu or 239-595-5494

Registration Form

Florida's Certified Pile Burner Program
Wednesday, February 5, 2020

Hendry County Extension Office
P.O. Box 68, LaBelle, FL 33975
(863) 674-4092

Please send this form and a check for $50.00 made payable to:
Hendry County 4-H

Mail to: **Dr. Mongi Zekri**
Hendry County Extension Office
P. O. Box 68
LaBelle, FL 33975

Name

Mailing address

Email address

Phone Number

Florida Forest Service Customer Number, https://www.freshfromflorida.com/Divisions-Offices/Florida-Forest-Service/Our-Forests/Field-Operations/County-Foresters/Find-a-County-Forester

Florida's Certified Pile Burner Training

Wednesday, February 5, 2020
Location: Southwest Florida Research and Education Center
2685 State Road 29 North, Immokalee, FL 34142
(239) 658-3400

All Times Are Local

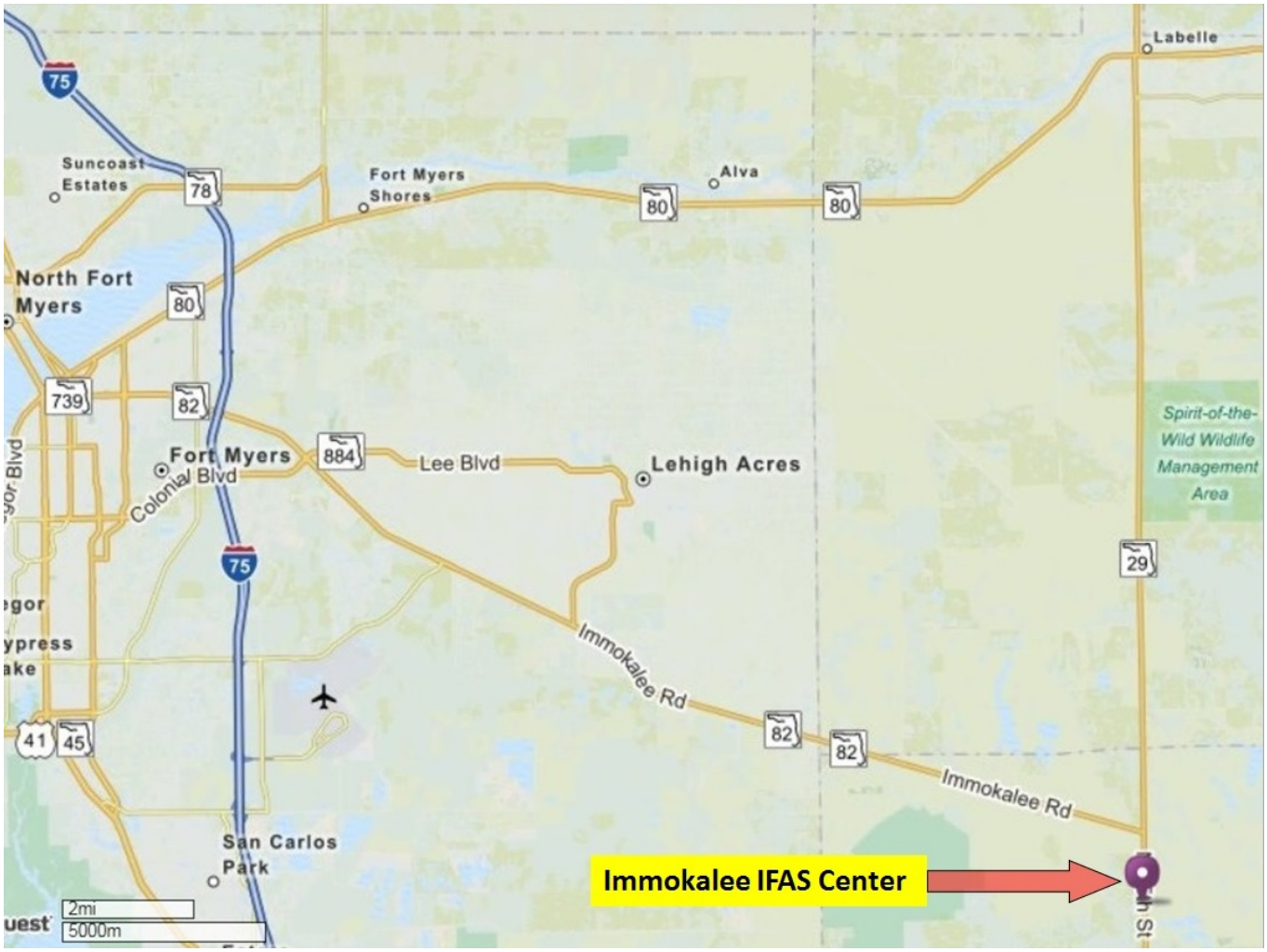
1. Opening Comments and Introduction	08:30 – 09:10
2. Fire Weather	09:10 – 09:50
3. BREAK	09:50 – 10:00
4. Smoke Management	10:00 – 11:20
5. Open Burning Regulations	11:20 – 12:15
6. LUNCH (provided)	12:15 – 01:15
7. Planning and Implementation	01:15 – 02:30
8. Safety	02:30 – 03:10
9. BREAK	03:10 – 03:20
10. Public Relations	03:20 – 04:00
11. Wrap Up & Test	04:00 – 04:30

Please bring a Pencil for the Exam!

Location & Contact Information

<u>Location</u>: Southwest Florida Research and Education Center (Immokalee IFAS Center)
2685 State Road 29 North, Immokalee, FL 34142 (239) 658-3400

<u>Contact</u>: Dr. Mongi Zekri, Multi-County Citrus Extension Agent
Hendry County Extension Office, P.O. Box 68, LaBelle, FL 33975
Office Phone: 863 674 4092
Cell: 239 595 5494
E-mail: maz@ufl.edu



Florida's Certified Pile Burner Training
Frequently Asked Questions

Q: Why should I be a certified pile burner?

A: Certified pile burners are trained to burn piles ***legally, safely and efficiently***. Most importantly, it could save a life. Also, when the weather is dry, certified pile burners will receive priority for authorization to burn by the Florida Forest Service (FFS). Also, certified pile burners are allowed to burn up to two hours longer per day and get multiple day authorizations.

Q: What is a Pile Burner Customer Number?

A: When you call the FFS for an authorization to burn, you will be assigned a personal customer number. This number references your information so it doesn't need to be gathered each time you call for an authorization. You must have your individual FFS customer number in order to be certified.

Q: Is there a test?

A: Yes, the test is 20 questions and open-book. You must receive a score of at least 70% to pass.

Q: What if I don't pass?

A: Very few people fail the test but if you do, you will be provided another opportunity to take the test at a later date. If you fail the second time, you must re-register and take the training again.

Q: Why do you ask for my email on the application form?

A: Email is the fastest and most convenient method to inform registrants of their registration status. If no email address is provided then all correspondence will be sent through the federal mail. This can take several days to relay messages and this may not be practical if changes are made to the course schedule or for last minute registrations.

Q: How much does it cost to register for the training?

A: Registration for the training is $50 per person and includes lunch, training materials and testing.

Q: How long does my certification last, and how long do I have to complete the certification from the time I finish the class?

A: As long as the person with the certification uses their number at least 5 times in a period of 5 years their certification will not expire under the current program. You MUST complete the certification burn within a year of taking the class.

Q: Will certified burners be notified if their certification expires?

A: Yes, notification will be sent out to them to let them know of their upcoming certification expiration date.

Q: Will I be certified at the end of the one day training?

A: No, you will need to follow the written instructions that you will receive from the FFS to become certified. You will need to complete a simple burn plan, have it reviewed and approved locally by the FFS and also have the burn itself reviewed and approved by the FFS.

Q: Is there a minimum age to be a certified pile burner?

A: Yes, you must be at least 18 years old to take the test and be a certified pile burner.

The 30th Annual Farm Safety Day

Friday, 1 May 2020
Saturday, 2 May 2020

AN IMPORTANT MESSAGE TO EMPLOYERS

Safe and competent equipment operators are important to you as an employer. Accidents, which cause damage, injury or death to employees, equipment and crops, are costly. We believe all types of accidents can be reduced with proper employee training. Our training has been designed to help your employees perform better, operate safely to prevent accidents, fulfill necessary training requirements and build pride in themselves and their farm company.

Certificates

The 2020 Southwest Florida Farm Safety Day is almost here. Farm Safety Day is an educational event designed to emphasize the importance of farm/equipment safety. Each participant is presented with a certificate of attendance and **the employer will be provided with a certificate of training that can be placed into the employee's file**.

Registration Info

The deadline for registration is Friday, April 17, 2020. It is the employer's responsibility to assure that the employee is present at 7:30 AM on Friday, May 1 **or** on Saturday, May 2 at the Immokalee IFAS Center, 2685 State Rd. 29 North, Immokalee, FL 34142 to receive their nametag. Upon arrival each participant will check in at the registration table and receive a packet containing their nametag, instructions (in both English and Spanish) session handouts, an evaluation form, rodeo cap and pencil. They will be directed to their respective course sessions.

Please give us the names of those who will be attending our 30th Farm Safety Day on **Friday, 1 May or Saturday, 2 May 2020 (please select the date)**. The cost is **$25.00** per person, which will include educational sessions, handouts, pencils, refreshments, lunch, and a cap.

Make checks payable to: SW Florida Citrus Advisory Committee

Mail registration and checks to:
University of Florida, IFAS, SWFREC
Attention: Barbara Hyman
2685 State Rd. 29 North
Immokalee, FL 34142

Or fax registration to: 239 658 3403
Deadline is Friday, April 17, 2020

Don't wait. The number of trainings offered and attendance at each training is LIMITED. For each day, class size is limited to the first 80 Spanish-speaking and 20 English-speaking people.

30th ANNUAL SAFETY DAY

Friday, 1 May 2020
Saturday, 2 May 2020

Location: University of Florida, IFAS, SWFREC
2685 State Rd. 29 North
Immokalee, FL 34142

SCHEDULE:

7:30-8:10	Check In, Coffee, Juice, Refreshments, Door Prizes
8:10-9:00	Session 1 (Begin sessions)
9:00-9:10	Break (change session, door prizes)
9:10-10:00	Session 2
10:00-10:10	Break (change session, door prizes)
10:10-11:00	Session 3
11:00-11:10	Break (change session, door prizes)
11:10-12:00	Session 4
12:00-1:30	Lunch and Adjourn

The 2020 FARM SAFETY DAY
REGISTRATION FORM

Please give us the names of those who will be attending our 30th Farm Safety Day on **Friday, 1 May or Saturday, 2 May 2020** at the Immokalee IFAS Center, 2685 State Rd. 29 North, Immokalee, FL 34142. The cost is **$25.00** per person, which will include educational sessions, handouts, refreshments, lunch, and a cap.

Make checks payable to:
Citrus Advisory Committee

Mail registration and checks to:
University of Florida, IFAS, SWFREC
Attention: Barbara Hyman
2685 State Rd. 29 North
Immokalee, FL 34142

Or fax registration to: 239 658 3403
Deadline is Friday, April 17, 2020

Company Name:

Administrative Contact Person:

E-mail address:

Mailing Address:

Telephone: _____ Fax:_____ County:_____

Please list the employees who will be attending our safety training and please check their language preference*****. If there is not enough space to fill in all attendants, please attach an additional sheet with the necessary information.

Name	Friday or Saturday	English	Spanish	Name	Friday or Saturday	English	Spanish
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		.	.			.	.

***Please Note: It is very important that we know the date (Friday, 1 May or Saturday, 2 May 2020) and the language capabilities for each attendee.**
Next to each attendee's name please mark in which language they are more fluent.
If there are any questions, please contact **Barbara Hyman (hymanb@ufl.edu) at 239 658 3400.**
Don't wait. The number of trainings offered and attendance at each training is LIMITED. Don't wait. For each day, class size is limited to the first 80 Spanish-speaking and 20 English-speaking people.

The Show for Florida Citrus Professionals
http://www.citrusshow.com/

January 22-23, 2020 • Havert L. Fenn Center, Ft. Pierce Florida

2020 Program Highlights

- New rootstock and scion updates
- High-Density planting to achieve higher yields and faster production in the age of HLB
- Promoting root health and understanding its morphology and physiology
- CRAFT program update
- Market update focusing on uncommitted fruit
- Psyllid management tactics
- Novel technology and approaches to mitigate HLB
- Bactericides' impact on HLB after several seasons of application
- Nanotechnology for bactericide delivery

Special Thanks to sponsors of the “Flatwoods Citrus” newsletter for their generous contribution and support.
If you would like to be among them, please contact me at 863 674 4092 or maz@ufl.edu

Steve Fletcher
Fletcher Flying Service, Inc.
Phone: 239 860 2028
Fax: 863 675 3725

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13543 Troia Drive
Estero, FL 33928
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SEHouk@dow.com

Adrian Jahna
BASF Corporation
Cell: 863 443 2404
Adrian.jahna@basf.com

Nufarm
Brad Lang
Territory Sales Manager
Phone: 229 894 0568
brad.lang@nufarm.com

Clint Wise Jr.
AGLIME SALES, INC.
P.O. Box 60
Babson Park, FL 33827
863-241-9007
clint.wise@aglimesales.com

Special Thanks to sponsors of the "Flatwoods Citrus" newsletter for their generous contribution and support.
If you would like to be among them, please contact me at 863 674 4092 or maz@ufl.edu

Special Thanks to sponsors of the "Flatwoods Citrus" newsletter for their generous contribution and support. If you would like to be among them, please contact me at 863 674 4092 or maz@ufl.edu

EL NIÑO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION

issued by

CLIMATE PREDICTION CENTER/NCEP/NWS
and the International Research Institute for Climate and Society
14 November 2019

ENSO Alert System Status: Not Active

Synopsis: ENSO-neutral is favored during the Northern Hemisphere winter 2019-20 (~70% chance), continuing through spring 2020 (60 to 65% chance).

Near-to-above average sea surface temperatures (SSTs) were observed in the east-central tropical Pacific Ocean during October (Fig. 1). In the most recent week, the SST indices in the westernmost Niño-4 and Niño-3.4 regions were +0.7°C and +0.5°C, respectively, while farther east in the Niño-3 and Niño-1+2 regions they were near-to-below average (+0.3°C and -0.6°C respectively; Fig. 2). The subsurface temperature anomalies (averaged across 180°-100°W) were above average during the month (Fig. 3) as a downwelling oceanic Kelvin wave that began in September continued progressing eastward into the eastern Pacific (Fig. 4). Low-level winds were near average during October, while easterly upper-level wind anomalies were observed over the eastern Pacific. Finally, tropical convection was suppressed near the Date Line and also over Indonesia, while somewhat enhanced convection prevailed over the western Pacific, northeast of Papua New Guinea (Fig. 5). Overall, despite the recent anomalous warming across the east-central equatorial Pacific, the overall oceanic and atmospheric system reflected ENSO-neutral.

The majority of models in the IRI/CPC plume (Fig. 6) continue to favor ENSO-neutral (Niño-3.4 index between -0.5°C and +0.5°C) through the Northern Hemisphere spring. Many dynamical forecast models, including the NCEP CFSv2, suggest Niño-3.4 SST index values will remain near +0.5°C during November before decreasing toward zero. Forecasters believe this recent warmth reflects sub-seasonal variability and is not indicative of an evolution toward El Niño. The chances for El Niño are predicted to be near 25% during the winter and spring. In summary, ENSO-neutral is favored during the Northern Hemisphere winter 2019-20 (~70% chance), continuing through spring 2020 (60 to 65% chance; click CPC/IRI consensus forecast for the chance of each outcome for each 3-month period).

This discussion is a consolidated effort of the National Oceanic and Atmospheric Administration (NOAA), NOAA's National Weather Service, and their funded institutions. Oceanic and atmospheric conditions are updated weekly on the Climate Prediction Center web site (El Niño/La Niña Current Conditions and Expert Discussions). Forecasts are also updated monthly in the Forecast Forum of CPC's Climate Diagnostics Bulletin. Additional perspectives and analysis are also available in an ENSO blog. The next ENSO Diagnostics Discussion is scheduled for 12 December 2019. To receive an e-mail notification when the monthly ENSO Diagnostic Discussions are released, please send an e-mail message to: ncep.list.enso-update@noaa.gov.

Climate Prediction Center
National Centers for Environmental Prediction
NOAA/National Weather Service
College Park, MD 20740

COLD HARDINESS AND COLD PROTECTION

Two major environmental factors in Florida citrus that regulate cold hardiness are temperature and water.

At 55^0 F, citrus plant growth slows. As temperatures remain below 55^0 F, citrus trees will continue to acquire acclimation to these cooler temperatures. This process is reversible during warm winter periods, and de-acclimation (loss of acclimation) can occur. The greatest amount of citrus acclimation occurs during consistently cool fall and winters. Once de-acclimation occurs citrus trees will generally not re-acclimate to the same level prior to the onset of de-acclimation.

Irrigation and fall/winter rainfall can have a pronounced effect on the citrus acclimation process. Drought induced stress has been shown to increase the tolerance of citrus trees to freezing temperatures when compared to well watered or over watered citrus trees in Florida. However, excessively drought stressed trees are more susceptible to freeze damage.

Critical Temperatures for Florida Citrus

It is very important to know the critical temperature at which freezing temperatures can damage citrus. Minimum temperature indicating thermometers are a wise investment for any grower concerned with freeze/frost protection. Thermometers should be installed in the coldest grove locations. They should be placed at a height of 42 inches (4.5 ft) on a stand, sheltered at the top and facing north. In citrus trees, there can be a great deal of variation in the minimum temperature at which plant damage will occur.

The reference temperature and duration for the initiation of the freezing process in round oranges is 28^0 F for four hours. Tangerines and fruit with smaller mass would receive freeze damage after shorter durations, while grapefruit would require longer durations.

Minimum temperatures of 26^0 F will damage fully mature, harden-off leaves that have not received any acclimation. Minimum temperatures of 30^0 F can significantly damage unhardened new flush leaves. Leaves that have received extensive acclimation have been shown to survive temperatures as low as 20^0 F in Florida.

Protecting citrus trees from cold damage

Cultural practices can have a major influence on the cold hardiness of citrus trees. A clean, hard-packed soil surface intercepts and stores more solar radiation during the day and releases more heat at night than a surface covered with vegetation or a newly tilled area. Irrigation should be applied minimally during the fall and winter. Reducing irrigation results in an increase in the cold tolerance of citrus trees and enhances tree stress resulting in an increase in the formation of flower buds. Excessive application of nutrients should be avoided late in the fall especially with young citrus trees. Heavy hedging or topping during the winter can reduce citrus cold hardiness by reducing canopy integrity that would trap heat released by the soil. This should be avoided.

Water from micro sprinkler irrigation protects young trees by transferring heat to the tree and the environment. The heat provided is from two sources, sensible heat and the latent heat of fusion. Most irrigation water comes out of the ground at 68° to 72°F, depending on the depth of the well. The major source of heat from irrigation is provided when the water in the liquid form changes to ice (latent heat of fusion).

As long as water is constantly changing to ice, the temperature of the ice-water mixture will remain at 32°F. The higher the rate of water application to a given area, the greater is the amount of heat energy that is applied. When expecting a freeze, turn on the water early before the air temperature reaches 32^0F. Remember that in cold pockets, the ground surface can be colder than the air temperature reading in a thermometer shelter. Once irrigation has begun, the system must run for the duration of the time plant temperatures are below the critical temperature. Growers are recommended to use the information at the FAWN website (http://fawn.ifas.ufl.edu) to determine when it would be safe to turn off or on their micro-sprinkler irrigation system. For more details, go to http://edis.ifas.ufl.edu/HS179, http://edis.ifas.ufl.edu/CH182, http://edis.ifas.ufl.edu/CH054

In bedded groves to provide additional cold protection, water should also be pumped high in the ditches the day before and during the time of freezing weather.

Gulf Citrus Growers Association Scholarship Foundation, Inc.

11741 Palm Beach Blvd., #202, Fort Myers, FL 33905
(239) 690-0281 / Fax: (239) 690-0857

About the Gulf Citrus Growers Association

The citrus growers of southwest Florida are committed to supporting education as a long-term investment in the future of our industry. The first Gulf Citrus scholarship was awarded in 1992 through the Gulf Citrus Growers Association, a trade organization representing growers in Charlotte, Collier, Glades, Hendry and Lee Counties.

The Gulf Citrus Growers Association Scholarship Foundation was established in 2000 as a non-profit entity to oversee the distribution of these awards. Scholarship applications are accepted throughout the year and are reviewed semi-annually by a Scholarship Selection Committee comprised of academic and industry members. The number and amount of awards vary depending upon the number of applications received and available funds.

Applicants who are not selected may submit a new application for consideration in the next selection cycle. Previous award winners may also reapply.

Scholarship Criteria

Preferred requirements for scholarships are as follows:

AA, BS, MS and **PhD Degrees:**

- Completion of all placement testing and a **declared major** in agriculture or related major.
- Completion of **12 credit hours** towards agriculture or related degree.
- Minimum overall grade point average of **2.5** for AA and BS degrees; **3.0** for MS and PhD degrees.
- A demonstrated **commitment** to complete the degree at a state college, community college or university.

Applicants must complete the attached application and have their official transcripts sent directly by their universities to:

Gulf Citrus Growers Association Scholarship Foundation, Inc.
Dr. Mongi Zekri, Application Coordinator
Hendry County Extension Office
P. O. Box 68
LaBelle, FL 33975
(863) 674-4092 / Fax: (863) 674-4636
E-mail: maz@ufl.edu

*****APPLICATION & OFFICIAL TRANSCRIPTS MUST BE RECEIVED NO LATER THAN JULY 31 OR JANUARY 5*****

Gulf Citrus Growers Association Scholarship Foundation, Inc.

11741 Palm Beach Blvd., #202, Fort Myers, FL 33905
(239) 690-0281 / Fax: (239) 690-0857

Scholarship Application

Personal Data

Name: _____Date of Birth:_____

Home Address: _____

City/State: _____ Zip: _____ Phone: _____

Mailing Address: _____

City/State: _____ Zip: _____ Phone: _____

E-mail: _____

Employer: _____

Address: _____

City/State: _____ Zip: _____ Phone: _____

Does your employer reimburse you for tuition or other expenses incurred toward your degree? Yes ____ No _____

Educational Information

College or University in which you are enrolled: _____

Department / Degree Program: _____

I am working toward the following: AA ____ BS _____ MS _____ PhD _____ Other _____

Courses Taken in Major *(completed)*:

_____
_____
_____
_____

Courses (*in which you are currently enrolled*):

_____
_____

Total Credit Hours Toward Degree: _____ Cumulative Grade Point Average (GPA): _____

Expected Date of Graduation: _____

Please answer the following questions in complete sentences with as much detail as possible.

What are your career goals? _____

_____

_____

_____

_____

What is the potential value of your education to the citrus industry *in southwest Florida*?

_____

_____

_____

_____

_____

I authorize the release of this application and any relevant supporting information to persons involved in the selection of recipients for Gulf Citrus Growers Association scholarships.

_____ _____

Applicant's Signature Date

*****APPLICATION & OFFICIAL TRANSCRIPTS MUST BE RECEIVED NO LATER THAN JULY 31 OR JANUARY 5*****

Please return this application and have your official transcripts sent directly by your university to:

Gulf Citrus Growers Association Scholarship Foundation, Inc.
Dr. Mongi Zekri, Application Coordinator
Hendry County Extension Office
P. O. Box 68
LaBelle, FL 33975
(863) 674-4092 / Fax: (863) 674-4636
E-mail: maz@ufl.edu

United States Department of Agriculture
National Agricultural Statistics Service

CITRUS

DECEMBER FORECAST
MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture and Consumer Services
851 Trafalgar Ct, Suite 310E, Maitland, FL 32751-4132
(407) 648-6013 · (855) 271-9801 FAX · www.nass.usda.gov/fl

December 10, 2019

Florida All Orange Production Unchanged from October Forecast
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Unchanged
Florida All Grapefruit Production Up 7 percent
Florida All Tangerine and Tangelo Production Unchanged

FORECAST DATES - 2019-2020 SEASON

January 10, 2020	April 9, 2020
February 11, 2020	May 12, 2020
March 10, 2020	June 11, 2020
July 10, 2020	

Citrus Production by Type – States and United States

Crop and State	Production [1]		2019-2020 Forecasted Production [1]	
	2017-2018	2018-2019	October	December
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Non-Valencia Oranges [2]				
Florida	**18,950**	**30,400**	**32,000**	**32,000**
California [3]	35,900	40,800	38,000	38,000
Texas [3]	1,530	2,210	2,050	2,050
United States	56,380	73,410	72,050	72,050
Valencia Oranges				
Florida	**26,100**	**41,350**	**42,000**	**42,000**
California [3]	8,300	9,000	9,000	9,000
Texas [3]	350	290	650	650
United States	34,750	50,640	51,650	51,650
All Oranges				
Florida	**45,050**	**71,750**	**74,000**	**74,000**
California [3]	44,200	49,800	47,000	47,000
Texas [3]	1,880	2,500	2,700	2,700
United States	91,130	124,050	123,700	123,700
Grapefruit				
Florida-All	**3,880**	**4,510**	**4,600**	**4,900**
Red	**3,180**	**3,740**	**3,900**	**4,100**
White	**700**	**770**	**700**	**800**
California [3]	3,800	3,200	4,200	4,200
Texas [3]	4,800	6,100	5,700	5,700
United States	12,480	13,810	14,500	14,800
Lemons [3]				
Arizona	1,000	1,350	1,400	1,400
California	21,200	22,800	20,000	20,000
United States	22,200	24,150	21,400	21,400
Tangerines and Tangelos				
Florida [4]	**750**	**990**	**1,050**	**1,050**
California [3 5]	19,200	26,000	23,000	23,000
United States	19,950	26,990	24,050	24,050

[1] Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California and Texas-80, Florida-85; lemons-80; and tangerines and mandarins in California-80, Florida-95.
[2] Navel and miscellaneous varieties in California. Early non-Valencia (including Navel) and midseason non-Valencia varieties in Florida and Texas.
[3] Estimates carried forward from October.
[4] Includes all certified varieties of tangerines and tangelos.
[5] Includes tangelos and tangors.

All Oranges 74.0 Million Boxes

The 2019-2020 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 74.0 million boxes, unchanged from the October forecast. If realized, this forecast will be 3 percent more than last season's final production. The forecast consists of 32.0 million boxes of the non-Valencia oranges (early, midseason, and Navel varieties) and 42.0 million boxes of the Valencia oranges. A 9-year regression has been used for comparison purposes. All references to "average", "minimum", and "maximum" refer to the previous 10 seasons, excluding the 2017-2018 season, which was affected by Hurricane Irma. Average fruit per tree includes both regular and first late bloom.

Non-Valencia Oranges 32.0 Million Boxes

The forecast of non-Valencia production is unchanged from the October forecast at 32.0 million boxes. Current fruit size is below average and projected to be below average at harvest. Current droppage is above average and is projected to be above average at harvest. The Navel forecast, included in the non-Valencia forecast, is unchanged at 800 thousand boxes, and is 3 percent of the non-Valencia total. Final Navel size is below average and droppage is above average.

Valencia Oranges 42.0 Million Boxes

The forecast of Valencia production is unchanged from the previous forecast at 42.0 million boxes. Current fruit size is below average and is projected to be below average at harvest. Current droppage is above average and projected to be above average at harvest.

All Grapefruit 4.90 Million Boxes

The forecast of all grapefruit production is up 7 percent from the October forecast and is now 4.90 million boxes. If realized, this forecast will be 9 percent more than last season's final production. The red grapefruit forecast is 4.10 million boxes. Fruit size of red grapefruit at harvest is projected to be slightly above average and droppage is projected to be above average. The white grapefruit forecast is 800,000 boxes. Projected fruit size of white grapefruit at harvest is above average; projected droppage is above average.

Tangerines and Tangelos 1.05 Million Boxes

The forecast for tangerine and tangelos is unchanged from the previous forecast at 1.05 million boxes, 6 percent more than last season's utilization of 990 thousand boxes. This forecast number includes all certified tangerine and tangelo varieties.

Reliability

To assist users in evaluating the reliability of the December 1 Florida production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the December 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of squared percentage deviations for the latest 20-year period is computed. The square root of the average becomes statistically the "Root Mean Square Error." Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years.

The "Root Mean Square Error" for the December 1 Florida all orange production forecast is 7.8 percent. However, if you exclude the three abnormal production seasons (three hurricane seasons), the "Root Mean Square Error" is 7.5 percent. This means chances are 2 out of 3 that the current all orange production forecast will not be above or below the final estimates by more than 7.8 percent, or 7.5 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 13.4 percent, or 13.1 percent excluding abnormal seasons.

Changes between the December 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 7.94 million boxes (7.37 million, excluding abnormal seasons), ranging from 0.95 million boxes to 19.0 million boxes including abnormal seasons, (1.00 to 19.0 million boxes excluding abnormal seasons). The December 1 forecast for all oranges has been below the final estimate 4 times, above 16 times, (below 4 times, above 13 times, excluding abnormal seasons). The difference does not imply that the December 1 forecasts this year are likely to understate or overstate final production.

Flatwoods Citrus

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Racial-Ethnic Background

__American Indian or native Alaskan
__Asian American
__Hispanic
__White, non-Hispanic
__Black, non-Hispanic

Gender

__Female __Male