

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA

AGRICULTURE
Senator Albritton, Chair
Senator Gainer, Vice Chair

MEETING DATE: Tuesday, December 10, 2019
TIME: 10:00 a.m.—12:00 noon
PLACE: 301 Senate Building

MEMBERS: Senator Albritton, Chair; Senator Gainer, Vice Chair; Senators Broxson, Montford, and Rader

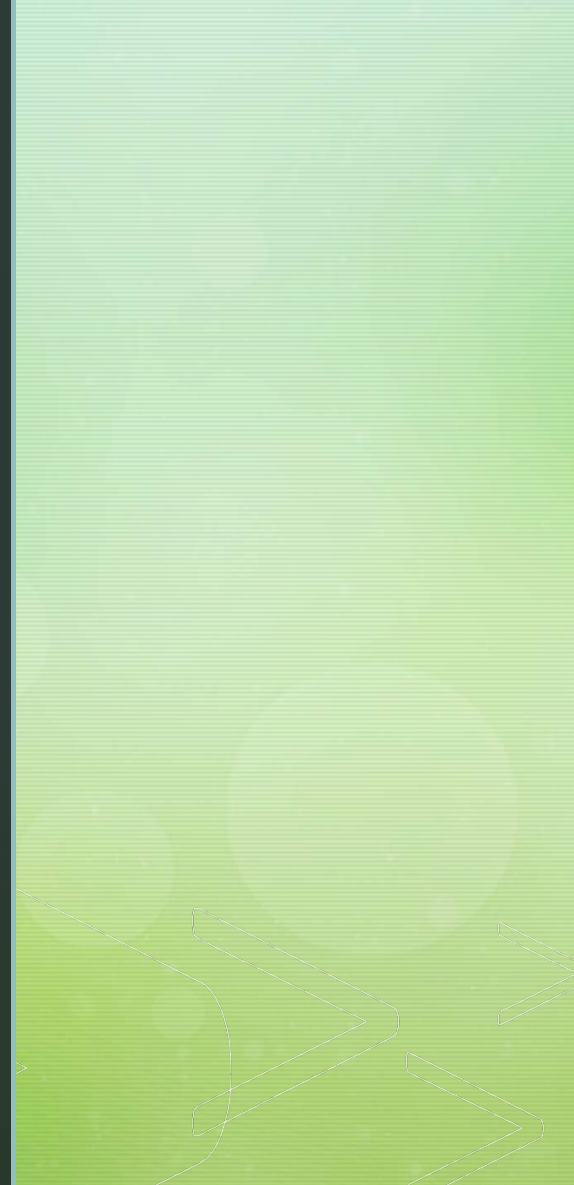
| TAB | BILL NO. and INTRODUCER | BILL DESCRIPTION and SENATE COMMITTEE ACTIONS | COMMITTEE ACTION |
|---------------------------------|--|--|------------------|
| 1 | Continuation of Update on Hemp Grown by University Pilot Projects | | Presented |
| 2 | Update on Hemp Rulemaking from the Department of Agriculture and Consumer Services | | Presented |
| 3 | Update on the State of the Citrus Industry by Mike Sparks, Florida Citrus Mutual | | Presented |
| 4 | Presentation by the Future Farmers of America | | Presented |
| Other Related Meeting Documents | | | |

Florida A&M University



Progress Report

December, 2019



Industry Partners

- Green Earth Cannaceuticals (GEC)
- Sunshine Hemp (SH)
- Future Farm Technologies (FFT)





To conduct research on industrial hemp (*Cannabis sativa*) with industry partners that will lead to the development of a viable and sustainable industry in Florida.

Objectives

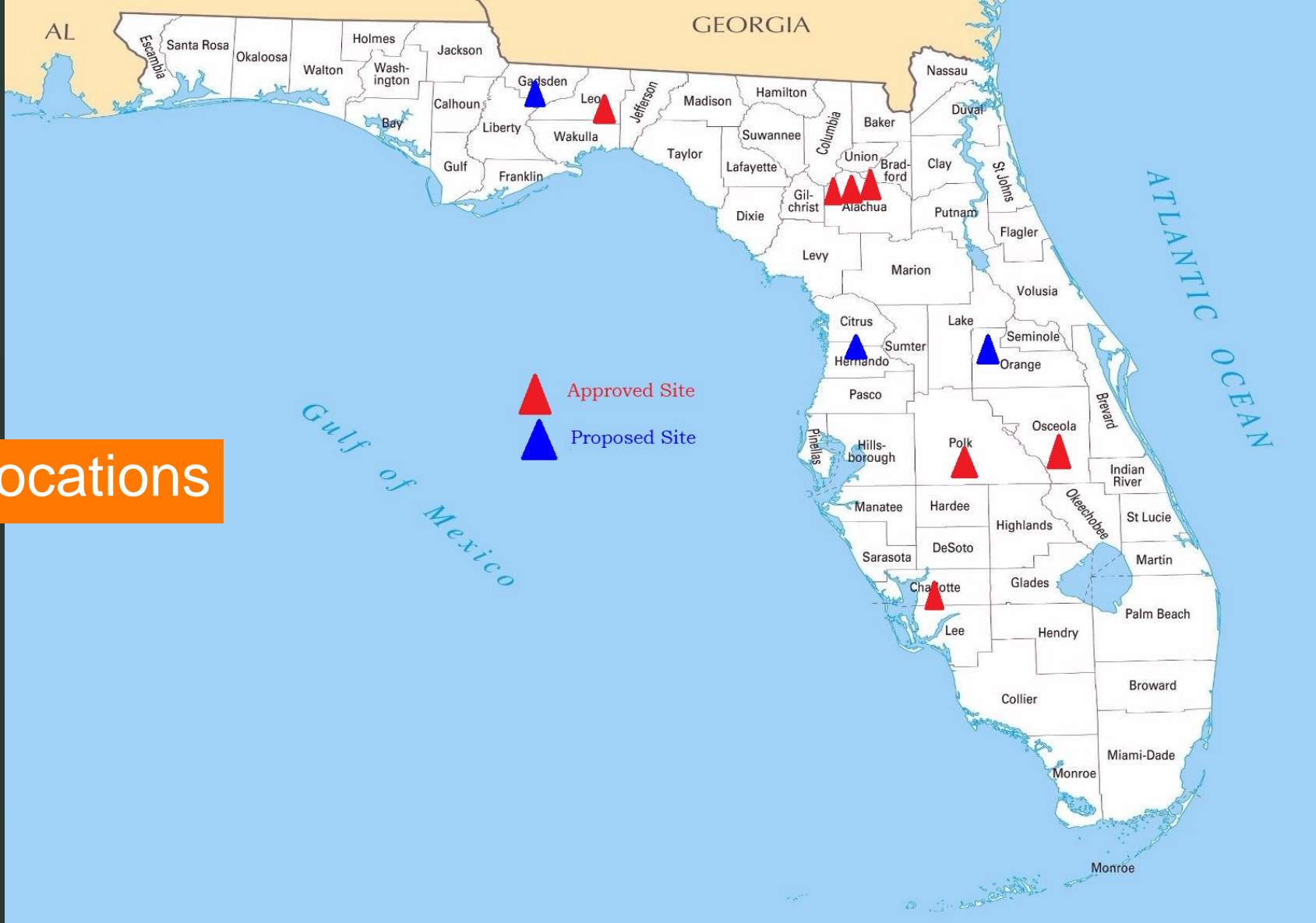


1. Evaluate industrial hemp species to determine their productivity and suitability under Florida condition.
2. Evaluate agronomic traits, invasiveness and environmental impact of the hemp species.
3. Identify best management practices for commercialization of the hemp species.

Location of Research Sites

| Industry Partner | Site Location | Permit |
|----------------------------|------------------------------------|--------|
| Green Earth Cannaceuticals | Bartow – Murphy Road | 014 |
| | Tallahassee – Sams Lane | 015 |
| | Newberry – W. Newberry Road | 016 |
| | Newberry – NW 62 nd Ave | 017 |
| | High Springs – Five Oaks | 018 |
| | | |
| Sunshine Hemp | Kenansville – Hwy 523 | 013 |
| | Punta Gorda – Neal Road | 019 |
| | | |
| Future Farm Technologies | Brooksville | - |
| | Apopka | - |
| | Quincy | - |

Locations



Green Earth Cannaceuticals

Bartow Location – Hook R Farm (30 acres)

- 40,000 plants harvested
- Will replant 9,000 plants
- Varieties: Baox, Cherry Citrus & Cherry Wine
- Total harvest: 13,210 lb
- Processed in Miami



Bartow Location, Cont'd



Cherry Wine
Ready for harvest

Cherry Citrus
Ready for harvest



Harvested hemp
biomass

Newberry Location

GEC Headquarters (7 acres)

- 20,000 plants in containers and in greenhouses
- Varieties: CBD Therapy, Cherry Wine, Cherry Citrus, & Sweetened



Cherry Citrus



Sweetened



Cherry Wine

Newberry Location, Cont'd

Indoor Growing



Indoor Growing

Indoor Growing



Cherry Wine



Cherry Citrus

Tallahassee Location

Henry Farm (3 acres)

- Planted 2,000 plants
- Harvested in November
- Varieties: CBD Therapy, Cherry Wine, Cherry Citrus, Cherry Cherry, Sweetened & Stout



Cherry Wine
About ready for harvest

Sunshine Hemp

Punta Gorda

- 20 acres + 100,000 sq. ft. bldg
- 10,000 feminized clones to be planted



Florida A&M University

- **Secure planting permits for Future Farm Technologies.**
- **Continue research & data collection.**
- **Establish hemp research program.**
- **Request legislative support.**

Green Earth Cannaceuticals

- Initiate research on hemp fiber and soil remediation.
- Establish processing center/unit for CBD oil.
- Establish processing center/unit for fiber.
- Employ a plant breeder.
- Produce catalog for hemp cultivars.

Newberry Location

- Evaluate new cultivars of hemp genetics.
- Build greenhouse for stock plants and propagation.
- Maintain 400 mother plants + 800 clones in greenhouse.
- Build foundation seed + breeding stock. Seeds available in 2021.
- Produce 1.3 million clones for 2020 season.

Green Earth Cannaceuticals

High Springs Location

- Establish seed production farm. Seeds available in 2021.

Bartow (Hook Farm) Location

- Increase acreage from 30 to 50 acres.
- Build propagation unit for clones.

Tallahassee (Henry Farm) Location

- Increase acreage from 3 to 5 acres.
- Build propagation unit for clones.

Sunshine Hemp

Punta Gorda Location

- Establish 100,000 sq. ft. propagation unit.
- Establish 20 acre farm + 10,000 feminized clones.

Kenansville Location

- Establish new planting - 5 acres

Future Farm Technologies

- Establish new planting - Brooksville 10 acres.
- Establish new planting - Apopka 1 acres.
- Establish new planting – Quincy 1.5 acres.

Preliminary Results

Plant Growth and Biomass Weight Per Plant

| Plant | Cherry Citrus | | Baob | | Sweetened | |
|------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| | Height (inches) | Wt. (oz) Wet/Dry | Height (inches) | Wt. (oz) Wet/Dry | Height (inches) | Wt. (oz) Wet/Dry |
| 1 | 26 | 25/12 | 12 | 11/7 | 19 | 15/6 |
| 2 | 29 | 28/15 | 18 | 14/6 | 24 | 20/9 |
| 3 | 14 | 12/4 | 17 | 13/6 | 25 | 20/10 |
| 4 | 25 | 20/8 | 8 | 4/1 | 10 | 8/3 |
| 5 | 30 | 29/17 | 22 | 19/8 | 25 | 20/9 |
| 6 | 22 | 21/8 | 20 | 16/7 | 27 | 24/11 |
| 7 | 16 | 12/5 | 18 | 17/7 | 22 | 22/11 |
| 8 | 26 | 27/12 | 12 | 9/4 | 24 | 20/8 |
| 9 | 27 | 24/11 | 25 | 20/9 | 19 | 16/5 |
| 10 | 27 | 26/12 | 22 | 19/8 | 12 | 8/3 |
| 11 | 29 | 29/16 | 24 | 21/8 | 11 | 8/2 |
| 12 | 20 | 19/8 | 19 | 14/6 | 25 | 20/10 |
| 13 | 25 | 25/13 | 10 | 6/2 | 27 | 24/11 |
| 14 | 24 | 22/9 | 22 | 20/8 | 24 | 19/7 |
| 15 | 27 | 24/11 | 26 | 21/8 | 26 | 24/11 |
| 16 | 28 | 23/11 | 20 | 16/7 | 26 | 20/8 |
| 17 | 26 | 24/12 | 18 | 10/3 | 10 | 10/3 |
| 18 | 26 | 27/11 | 19 | 16/6 | 22 | 21/10 |
| 19 | 28 | 25/11 | 22 | 20/9 | 23 | 19/9 |
| 20 | 24 | 19/6 | 9 | 5/1 | 21 | 17/7 |
| 21 | 30 | 27/15 | 24 | 20/9 | 27 | 23/10 |
| 22 | 26 | 20/9 | 21 | 18/6 | 26 | 22/9 |
| 23 | 10 | 7/4 | 21 | 17/6 | 25 | 21/9 |
| 24 | 28 | 26/12 | 19 | 15/6 | 22 | 19/7 |
| 25 | 27 | 26/10 | 14 | 10/4 | 26 | 21/9 |
| | | | | | | |
| Avg | 25 | 23/10 | 18 | 15/6 | 22 | 18/8 |

Cultivar Evaluation and Analysis

Henry Farm, Tallahassee

| Variety | Delta-9-THC% | Total THC% | Total CBD% | Period |
|---------------|--------------|------------|------------|--------|
| Stout | 0.005 | 0.085 | 2.37 | Week 4 |
| Baox | 0.007 | 0.104 | 2.90 | Week 4 |
| CBD Therapy | 0.013 | 0.119 | 3.11 | Week 4 |
| Cherry Wine | 0.009 | 0.132 | 3.55 | Week 4 |
| Sweetened | 0.011 | 0.184 | 5.03 | Week 4 |
| Cherry Cherry | 0.012 | 0.243 | 6.47 | Week 5 |
| Cherry Citrus | 0.012 | 0.278 | 7.07 | Week 5 |
| Cherry Cherry | 0.011 | 0.252 | 6.49 | Week 7 |
| Cherry Citrus | 0.012 | 0.345 | 8.76 | Week 7 |

Date Planted: September 27, 2019

Date of Analysis: November 27, 2019

General Observations

- Latest date to plant in North Florida – mid July.
- Plants highly photosensitive.
- No adverse impact on environment.
- Susceptible to pest infestations:
 - White flies
 - Aphids
 - Caterpillars
 - Fungal diseases

- **Lack of technical information on varietal performance.**
- **Lack of technical information on management practices.**
- **Lack of experienced growers.**
- **Lack of safe tested certified hemp genetics.**
- **Lack of market infrastructures – storage, drying, processing, brokerage.**

Needs for FAMU's Industrial Hemp Project

- Research Hemp Geneticist
- Research Hemp Horticulturist
- Research Biochemist
- Research Technicians
- Research Labs
- Research Greenhouses
- Farm Equipment
- Lab Equipment
 - Cannabis Quality Control (LC-MS +NMR)
 - LC-MS (Liquid Chromatography/ Mass Spectroscopy)
 - HPLC (High Performance Liquid Chromatography)
 - RTPCR (Real Time Polymerase Chain Reaction)
 - NMR (Nuclear Magnetic Resonance Spectroscopy)
 - Atomic Absorption Spectrometry
 - DESI-MS Desorption electrospray Ionization Mass Spectrometry
 - Super Critical Liquid Extractor
 - Scanning Electron Microscope
 - High Speed Centrifuge
 - Grinder
 - Deep Freezers

Contact:

Charles Weatherford, Ph.D.
Vice President for Research
charles.weatherford@famu.edu

Thank You



THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

12/10/2019

Meeting Date

N/A

Bill Number (if applicable)

N/A

Amendment Barcode (if applicable)

Topic FAMU Hemp Pilot Project

Name Charles Weatherford, Ph.D.

Job Title VP Research

Address 410 Foote Hilyer Florida A&M University

Phone 850-599-8505

Street

Tallahassee

FL

32307

Email charles.weatherford@fam.u.edu

City

State

Zip

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing Florida A&M University

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD



(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

12/10/2019

Meeting Date

N/A

Bill Number (if applicable)

N/A

Amendment Barcode (if applicable)

Topic FAMU Hemp Pilot Project

Name Scott Burgett

Job Title President/Founder

Address 1527 W. Newberry Road

Street

Phone 727-744-9202

Newberry

FL

32669

Email sburgett@gecanna.com

City

State

Zip

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing Green Earth Cannaceuticals

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)



12/10/19
Meeting Date

Bill Number (if applicable)

Topic HEMP RESEARCH PROJECTS

Amendment Barcode (if applicable)

Name JEFFREY SHARKEY

Job Title CEO, CAPITOL ALLIANCE GROUP

Address 1000 E COLLEGE AVE, #640

Phone 352 224 1000

Street
T2H FL 32201
City State Zip

Email JEFFREYSHARKEY@gmail.com

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing SUNSHINE HEMP

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.





Hemp is an industry that is evolving at a fast pace with rapid change.

So how can Florida benefit?



It started with SB 1020 and continues with FDACS and the rule making process which is creating the platform for the new industry.



In October, FDACS posted Final Notice of Rulemaking to FAR with no rule challenges.



October 31, 2019, the USDA released its interim final rules for the Hemp Program for the 2018 Farm Bill.



The past 5 weeks, FDACS Hemp team has held weekly calls with the USDA, DEA, NASDA, and other states to receive guidance, feedback, and ideas.



FDACS preparedness and takeaways from USDA Interim Final Rule:

Food Safety

- Hemp Extract (CBD intended for ingestion) incorporated into existing FS programs. Effective January 1, 2020.
- Permitting, testing, and enforcement for processing, manufacturing, distributing, and retailing.



Animal Feed

- Hemp Extract in animal feed incorporated into existing AES programs. Effective January 1, 2020.
- Permitting, testing, and enforcement for processing, manufacturing, distributing, and retailing.



Hemp Seed

- Hemp seed incorporated into existing AES programs. Effective January 2020.
- Seed Available for Cultivation:
 - Certified Seed?
 - Pilot Project Hemp Seed



The FDACS proposed rules are closely aligned with the USDA Interim Final Rules, however the cultivation rule differs in three areas:



1. Sampling



2. Testing



3. Destruction



Next Steps

FDACS will amend the cultivation rule to align with USDA.

FDACS is seeking Statutory Revisions to State Hemp Program.

FDACS is seeking funding for State Hemp Program.



Our LBR request was \$9.9 million.

As indicated, the USDA interim rules will have additional fiscal impact that FDACS is currently working through.

We anticipate an amended request estimated at \$11 million.

Looking Ahead

1. Education
2. Industry Development
3. Banking
4. Fresh From Florida / “Made with Florida Hemp”
5. Research continued through the universities
 1. UF
 2. FAMU
 3. FSU



Questions?



Thank you!

Holly Bell

Director of Cannabis

Florida Department of Agriculture and Consumer Services

Holly.Bell@fdacs.gov

www.fdacs.gov/Cannabis



Florida Department of Agriculture and Consumer Services

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

12/10/19
Meeting Date

Bill Number (if applicable)

Topic Hemp Rules

Amendment Barcode (if applicable)

Name Holly Bell

Job Title Cannabis Director

Address 400 S. Monroe St
Street

Phone 8506177700

Tallahassee FL 32399
City State Zip

Email holly.bella@fdacs.gov

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing Florida Department of Agriculture and Consumer Services

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

The State of the Florida Citrus Industry

*Presented to
Senate Agricultural Committee*

December 10, 2019

*Presented by
Michael W. Sparks, Florida Citrus Mutual*



The Past Decade Has Been Difficult...

The Most Challenging in the History of Florida Citrus



- Invasive Pest & Diseases
- Hurricane Irma – September 10, 2017
- Significant production loss
- Falling orange juice consumption
- Increased Imports, Large Inventories
- Downward Pressure on Grower Returns



Florida Citrus is at a Crossroads; Programs to Turn the Corner!

Impact of Huanglongbing & Hurricane Irma on the Florida Orange Crop: Significant Production Loss



| Season | Boxes | Bearing Acres |
|--------------------|--------------|----------------------|
| 2003-04 | 242,000,000 | 564,800 |
| 2005-06 | 147,700,000 | 491,000 |
| 2007-08 | 170,200,000 | 463,900 |
| 2009-10 | 133,700,000 | 451,100 |
| 2011-12 | 146,700,000 | 433,400 |
| 2013-14 | 104,700,000 | 418,700 |
| 2015-16 | 81,700,000 | 378,000 |
| 2017-18 | 45,050,000 | 361,800 |
| 2019-20 (F) | 74,000,000 | 392,515 |

Economic Impact of Huanglongbing



| | 2007-08 Season | 2018-19 Season | Decrease | Percent Decrease |
|---|-------------------|-------------------|----------|---------------------|
| Production Boxes (millions) | 203.8 | 86.9 | (116.9) | -57% |
| Bearing Acres | 538,900 | 447,012 | (91,888) | -17% |
| Annual On-tree Value (billion) | \$1.5 | \$0.8 | (\$0.7) | -47% |
| Annual Economic Impact (billion) | \$10.0 | \$7.2 | (\$2.8) | -28% |
| Jobs | 76,336 | 50,030 | (26,306) | -34% |
| Processing Plants | 25 | 12 | (13) | -52% |
| Fresh Fruit Packinghouses | 45 | 22 | (23) | -51% |
| Florida Citrus Growers | 8,000 | 2,500 | (5,500) | -69% |

Hurricane Irma – September 2017

Florida Citrus Turning the Corner



- Category 3 hurricane, 110 mph winds, 15” heavy rain statewide; nearly 60% of the 2017-18 crop was lost
- USDA Financial Assistance required Appropriation Authorization, Program Development, Implementation of WHIP and Block Grant
 - Payments to qualified citrus growers - \$213 Million
- Improved Crop Insurance (2021-22)
 - Improved Dollar Plan
 - Actual Production History
 - Revenue-based Programs



Turning the corner on falling orange juice consumption, increased imports, large inventories



| Orange Juice Consumption | |
|--------------------------|-----------------------|
| 2007-2008 | 2018-2019 (Estimated) |
| 4.4 gallons | 1.7 gallons |

| | Orange Juice Inventory | | |
|----------------|------------------------|------------|------------|
| | NFC | FCOJ | TOTAL |
| Gallons | 273 | 275 | 548 |
| Weeks | 40 | 48 | 45 |

- Florida citrus growers need partners to increase consumption; Brand marketing expertise must work with FDOC marketing programs
 - Requires Robust Marketing Campaign
 - Seek financial partners – State, Federal, Importers
- Increase USDA Orange Juice Purchase from \$47 to \$90 million



Invasive Pests & Diseases; Huanglongbing



- Virtually all commercial citrus groves have been infected by HLB
- Tree mortality now exceeds tree replanting rates
- Grower production costs have tripled since HLB
- The disease solution may be a combination of research based mitigation practices; not a single “silver bullet” answer

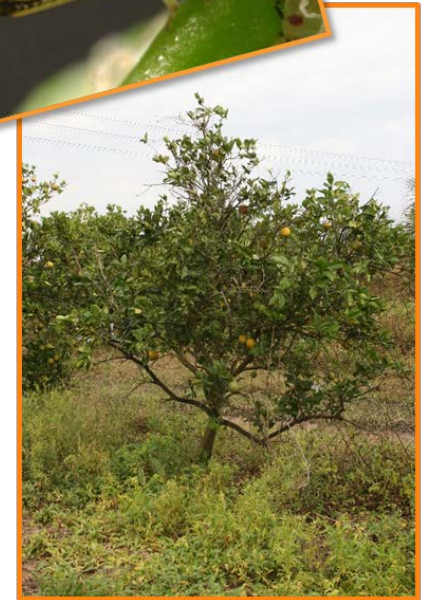


Photo courtesy of UF/IFAS

Turning the corner – the future for Florida citrus will be found in research



- 2008 growers formed the Citrus Research and Development Foundation (CRDF); funded by self-imposed taxes on growers and general revenue appropriations
- More than 50, quality research projects currently underway across the globe
- The Florida grower, state and private contributions
 - Guaranteed \$148 million by CRDF
- We are seeing results

| | |
|---------------------|------------------------|
| \$74 million | Growers |
| \$52 million | General Revenue |
| \$22 million | Other |



Photo courtesy of University of Florida/IFAS

Research Breakthroughs



- **Horticulture:** Variety improvement teams have developed new rootstocks and scions that are ready to be field-tested for HLB tolerance/resistance.
 - **New Rootstocks:** particularly US942. Florida now replants about 4 million trees per year and US942 has about 25% market share.
 - **Orange-Like Hybrids:** Geneticists have crossed oranges with related citrus-type species.
 - **Bactericides:** Approximately 20% of growers have seen a significant improvement in tree health.
 - **Novel Delivery Systems:** The therapeutic compounds using techniques such as trunk injection and improvement in tree health.



Photos courtesy of USDA

Research Breakthroughs

- **Entomology**: An understanding of transmission of the HLB bacteria by the Asian citrus psyllid (ACP) is ready to be developed into a successful management program.
 - **Young Tree Nets, Kaolin Clay Leaf Sprays and/or Metalized Reflective Mulch**: These technologies variously protect, confuse or repel the ACP insect vector.
 - **Trap and Kill Devices**: Entomologists are now field testing devices to reduce the population of the insect vector, and minimizing the wholesale use of insecticides.



Photos courtesy of USDA

Research Breakthroughs



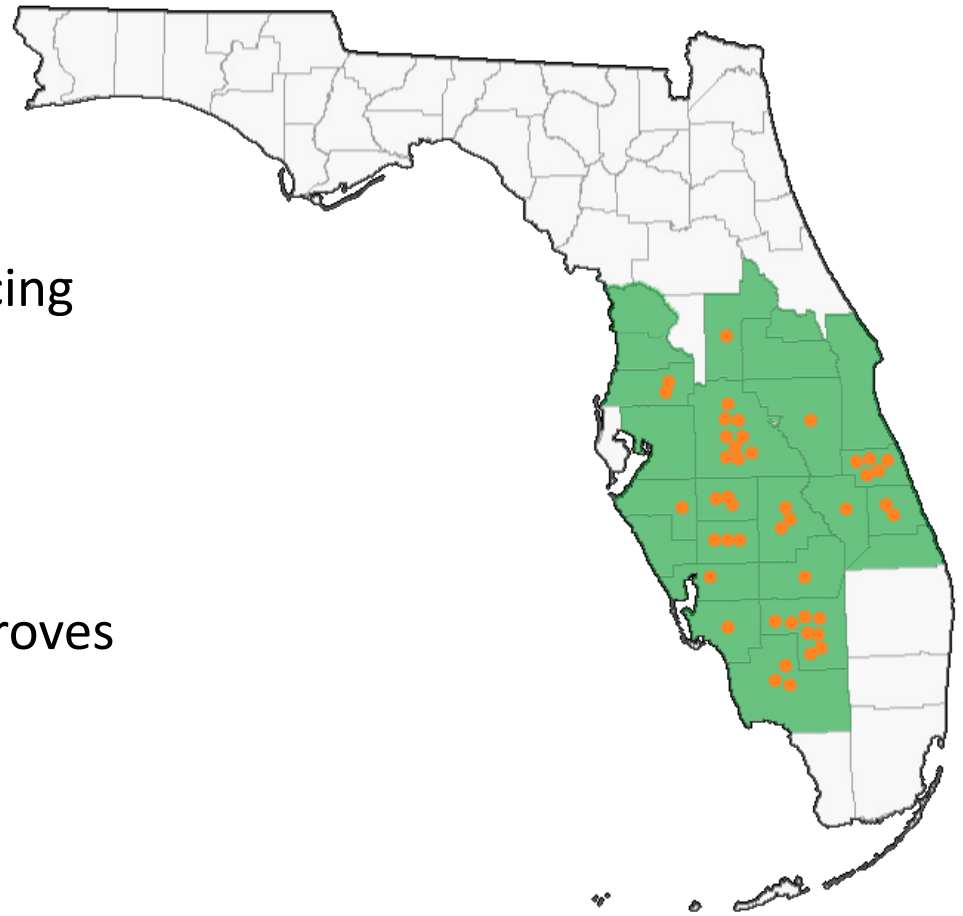
- **Pathology**: Recent understanding of the below-ground pathology to improve root health will lead to better control of soil-borne root pathogens and pests of citrus with HLB.
 - **Irrigation Water Acidification**: Grower drop pH of water to 5.5 to improve tree root health and tolerance to Citrus Greening.
 - **Organic Matter and Probiotic Culture Applications**: These technologies are aimed at improving “Soil Health” and have been reported to have a positive impact on tree health.
 - **Improved and Optimized Plant Nutrition Programs**: Citrus tree nutrition programs are being revised and recommendations developed to improve the health and productivity of infected trees.



Photos courtesy of USDA

Turning the Corner with the 2019-20 CRAFT Program

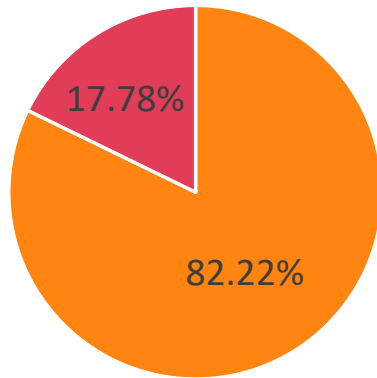
- 2,046 acres around all citrus-producing regions in Florida
 - 1618 solid blocks acres
 - 428 re-set acres in established groves



2019-20 CRAFT Participation

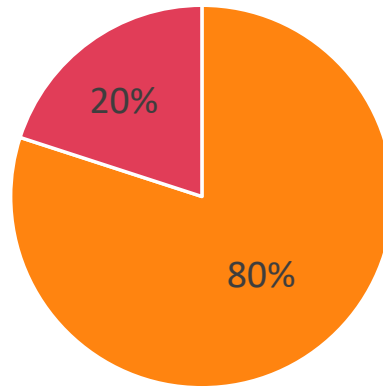


Variety



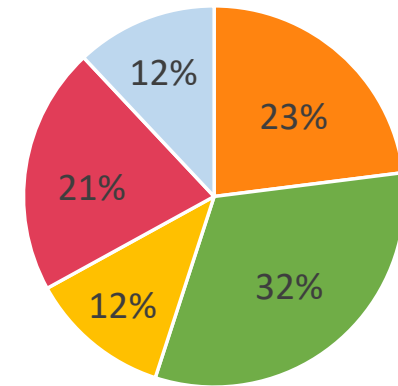
Orange Grapefruit

Solid Set vs. ReSet



Solid Set

Solid Set Acreage



<20 acres 21-40 acres 41-60 acres
61-80 acres 81-100 acres

2019-20 CRAFT Participation High Density Plantings



| | STANDARD DENSITY | CRAFT PROJECTS |
|------------|------------------|----------------|
| GRAPEFRUIT | 120 | 174 |
| ORANGE | 176 | 373 |



2019-20 CRAFT Participation Psyllid Control



Photo Credit: Citrus Industry Magazine

2019-20 CRAFT Participation Psyllid Control



- Kaolin Clay



Photo Credit: Citrus Industry Magazine

- Psyllid Tap Test
- Data collection/comparison

2019-20 CRAFT Participation Year One



2019-20 CRAFT Participation Year Six



The end of Florida orange juice?

No way - - Don't Write Our Obituary!



- Provides more than 50,000 jobs
- Citrus forms the backbone of many communities throughout the state's interior
- Total economic impact \$7.2B annually



- Orange juice is still the most popular fruit juice in the U.S.
- Popularity is not only bolstered by great taste but we are also the most nutrient dense juice

Turning the Corner – the future for Florida Citrus



| INVESTMENT PARTNERS | RESEARCH | MARKETING |
|--------------------------------|----------|-----------|
| Florida Citrus Grower | ✓ | ✓ |
| USDA | ✓ | |
| MAC/APHIS/FDACS | ✓ | |
| NIFA | ✓ | |
| Section 32 | | ✓ |
| State of Florida | ✓ | ✓ |
| FDOC | | ✓ |
| CRDF | ✓ | |
| CRAFT | ✓ | |
| Imported Juice/National Brands | ✓ | TBD |

Thank You!



✓

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

12/10/19

Meeting/Date

Bill Number (if applicable)

Topic Florida Citrus

Amendment Barcode (if applicable)

Name Ned Hancock

Job Title Chairman, Florida Citrus Commission

Address 405 East Main St

Phone 863 537 3999

Street

Bartow

FL

33830

City

State

Zip

Email _____

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing Florida Citrus Commission

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

T3

Meeting Date _____ Bill Number (if applicable) _____

Topic Florida Citrus Amendment Barcode (if applicable) _____

Name MICHAEL SPARKS

Job Title C.E.O.

Address Baytown Phone 867-682-1119

Street _____ Email _____

City _____ State _____ Zip _____

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

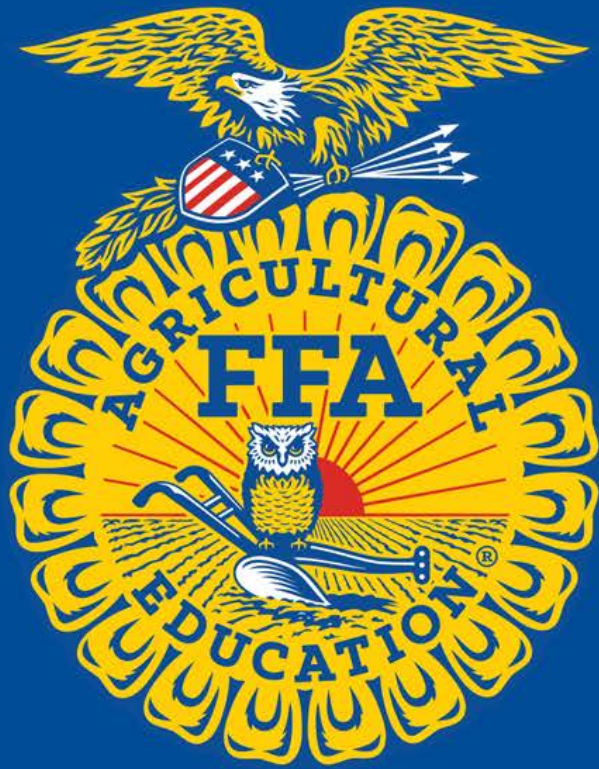
Representing _____

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.



FLORIDA FFA ASSOCIATION

The Next Generation of Agriculturalists

70%

By 2050, agricultural production will need to increase by 70% in order to feed 9 billion people. With less land, water, and resources.

The future of agriculture is much more than farming. It's about the **next generation of agriculturalists** and a **new age of discovery**.





We are addressing a very key issue: the growing need for young, talented people in a variety of fields to consider a career in agriculture.



FFA is only part of a comprehensive strategy to build a heroic workforce and reconnect people with agriculture.

1928

33 farm boys started the organization in 1928, and now over 700,000 members are developing their potential for premier leadership, personal growth, and career success through agricultural education and FFA.

FFA is the most recognized component of agricultural education, but Supervised Agricultural Experiences and the classroom create a complete experience for our students.





Students can choose from eight different career pathways, preparing them for the workforce and college.



Supervised Agricultural Experiences allow students to gain real-world experience and apply their skills and knowledge from FFA and the classroom.



Agricultural education proudly provides students with one of the most complete educational experiences available.

We've got some work to do before 2050, but we're up for the challenge. Our growing pains are a positive sign:

- Record membership
- Record participation



As we continue to grow and close the gap, we face some challenges we hope to overcome:

- FFA has reached its capacity in regards to the services and opportunities we provide our members
 - Recruiting and retaining qualified and certified teachers
 - Classroom size and funding
- 



Together, we'll face these issues in an effort to tackle a global challenge.



THE FFA MISSION

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education.

THE AGRICULTURAL EDUCATION MISSION

Agricultural education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resource systems.

The Florida FFA Association is a resource and support organization that does not select, control, supervise or approve local chapter or individual member activities except as expressly provided for in the Florida FFA Constitution and Bylaws.

The Florida FFA Association affirms its belief in the value of all human beings and seeks diversity in its membership, leadership and staff as an equal opportunity employer.

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)



Meeting Date _____ Bill Number (if applicable) _____

Topic FFA Amendment Barcode (if applicable) _____

Name Sydney Swartman

Job Title Florida FFA State Secretary

Address 5600 SW 34th St

Phone 813-763-7664

Gainesville FL 32608
City State Zip

Email Sydney.Swartman@flaffa.org

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing FL FFA

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

12-10-19

Meeting Date

Bill Number (if applicable)

Topic FFA

Amendment Barcode (if applicable)

Name James Prescottt

Job Title State FFA President

Address 5600 SW 34th st

Phone 813-446-5816

Street

Gainesville FL 32608

City

State

Zip

Email James.Prescottt@flffa.org

Speaking: For Against Information

Waive Speaking: In Support Against
(The Chair will read this information into the record.)

Representing FL FFA

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

TAB 4

Bill Number (if applicable)

Meeting Date

medical ~~new~~ Pot

Topic

Farmers Survival

Amendment Barcode (if applicable)

Name

Bruce Barber Standing United AS Americans
owner

Farm + Ranch
North Fla
Farmers Assoc
Barbers Farms

Job Title

Address

21535 South 441

Phone

Street

Kish Springs Fla 32643

Email

City

State

Zip

Speaking:

For

Against

Information

Waive Speaking:

In Support

Against

(The Chair will read this information into the records)

Representing

Standing United AS Americans

Appearing at request of Chair:

Yes

No

Lobbyist registered with Legislature:

Yes

No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.



THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

COMMITTEES:

Governmental Oversight and Accountability, *Vice Chair*
Agriculture
Appropriations Subcommittee on Health
and Human Services
Children, Families, and Elder Affairs

JOINT COMMITTEE:

Joint Legislative Auditing Committee

SENATOR KEVIN J. RADER

29th District

December 9, 2019

Chairman Ben Albritton
Committee on Agriculture
335 Knott Building
404 S. Monroe Street
Tallahassee, FL 32399-1100

Dear Chairman Albritton:

I am writing to you to be excused from the Committee on Agriculture meeting that will be held Tuesday, December 10, 2019, at 10:00 a.m., due to an urgent matter that needs my attention. I sincerely apologize for any inconvenience this may cause.

Thank you for your consideration. Please feel free to contact me at (850) 487-5029 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Kevin Rader".

Kevin Rader
State Senator
District 29

cc: Katherine Becker, Staff Director
Lauren Zaugg, Committee Administrative Assistant

REPLY TO:

- 5301 North Federal Hwy, Suite 135, Boca Raton, Florida 33487 (561) 443-8170
- 222 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5029

Senate's Website: www.flsenate.gov

BILL GALVANO
President of the Senate

DAVID SIMMONS
President Pro Tempore

CourtSmart Tag Report

Room: SB 301

Case No.:

Type:

Caption: Senate Committee on Agriculture

Judge:

Started: 12/10/2019 10:00:29 AM

Ends: 12/10/2019 12:01:25 PM **Length:** 02:00:57

10:00:29 AM Meeting called to order by Chair Albritton
10:00:35 AM Laureen call roll
10:00:48 AM Quorum present
10:00:55 AM Pledge
10:01:15 AM Chair Albritton speaking on today's agenda
10:02:08 AM Chair Albritton asking the senators if they had anything to add before meeting
10:02:23 AM Chair Albritton introduces first presenter, Dr. Charles Weatherford
10:02:31 AM Dr. Weatherford starting presentation
10:13:40 AM Chair Albritton thanks Dr. Weatherford for the presentation
10:13:50 AM Senator Gainer has a question
10:14:00 AM Dr. Weatherford answers
10:14:11 AM Senator Gainer has another question
10:14:22 AM Dr. Weatherford answered
10:15:15 AM Senator Gainer makes a comment
10:15:40 AM Dr. Weatherford comments back
10:16:10 AM Senator Gainer with a question
10:16:15 AM Dr. Weatherford answers
10:16:31 AM Senator Gainer with a question
10:16:34 AM Dr. Weatherford answers Senator Gainer
10:16:52 AM Senator Gainer has another question
10:17:01 AM Dr. Weatherford answers
10:17:09 AM Senator Montford had a question
10:17:20 AM Dr. Weatherford answers
10:18:35 AM Sen Montford ask question
10:18:53 AM Dr. Weatherford answered
10:19:28 AM Senator Montford with another question
10:19:43 AM Dr. Weatherford answers and recognize Scott Burgett
10:19:57 AM Scott Burgett answered Senator Montford question
10:20:10 AM Chair Albritton asked Scott Burgett to introduce himself

10:20:28 AM Scott Burgett states who he is and answers question
10:21:19 AM Senator Montford with another question
10:21:32 AM Dr. Weatherford answers question
10:21:47 AM Senator Gainer has question
10:22:21 AM Scott Burgett answered question
10:25:00 AM Senator Gainer with question
10:25:05 AM Scott Burgett answered question
10:25:32 AM Senator Gainer ask question about experience
10:25:39 AM Scott Burgett answers question
10:26:30 AM Senator Gainer ask Dr. Weatherford a question
10:26:42 AM Dr. Weatherford answers the question
10:26:58 AM Senator Montford ask question
10:27:07 AM Dr. Weatherford answers question
10:27:13 AM Senator Montford makes suggestion
10:27:36 AM Dr. Weatherford replies
10:28:03 AM Chair Albritton talking
10:28:12 AM Chair Albritton asking question for Dr. Weatherford
10:28:19 AM Dr. Weatherford answers the question
10:28:50 AM Chair Albritton ask another question
10:28:57 AM Dr. Weatherford answers the question
10:29:01 AM Chair Albritton ask question about rate
10:29:08 AM Dr Weatherford answers
10:29:13 AM Chair Albritton ask another question
10:29:20 AM Dr. Weatherford answers question
10:29:24 AM Chair Albritton ask question
10:29:31 AM Scott Burgett answers question
10:29:45 AM Chair Albritton ask question about timeframe
10:30:11 AM Dr. Weatherford answers
10:30:50 AM Chair Albritton with another question
10:30:54 AM Dr. Weatherford answer question
10:30:57 AM Chair Albritton ask Scott Burgett a question
10:31:46 AM Scott Burgett answers
10:34:50 AM Chair Albritton makes a comment
10:34:56 AM Chair Albritton has question about pest control
10:35:48 AM Chair Albritton with another question about pest control
10:35:50 AM Scott Burgett answers it is done with testing
10:37:28 AM Chair Albritton with question
10:37:32 AM Scott Burgett answers the question
10:38:47 AM Chair Albritton ask another question

10:39:07 AM Scott Burgett answers
10:43:00 AM Chair Albritton has comments
10:43:07 AM Senator Montford with a question
10:43:28 AM Dr. Weatherford answered the question
10:43:58 AM Senator Montford with comment
10:44:34 AM Dr. Weatherford makes a comment
10:44:44 AM Scott Burgett makes a comment
10:45:31 AM Chair Albritton ask Mr. Sharkey a question
10:45:46 AM Mr. Sharkey makes comment
10:52:20 AM Chair Albritton thanks him for speaking
10:52:26 AM Chair Albritton asks Holly Bell to give her presentation
10:52:41 AM Ms. Bell introduces herself and starts presentation
11:04:49 AM Chair Albritton thanks her for being here
11:04:57 AM Senator Gainer has a question
11:05:04 AM Ms. Bell answers
11:06:53 AM Senator Gainer has a question about processing
11:07:01 AM Ms. Bell answers
11:07:41 AM Senator Gainer with comment
11:08:14 AM Ms. Bell replies
11:09:16 AM Chair Albritton makes a comment
11:09:20 AM Ms. Bell replies
11:09:23 AM Senator Montford with question
11:09:51 AM Ms. Bell answers
11:11:49 AM Senator Montford with another question
11:12:27 AM Ms. Bell answers
11:12:51 AM Senator Montford with another question
11:13:02 AM Ms. Bell answers
11:13:30 AM Senator Montford has a question
11:13:52 AM Ms. Bell answers
11:14:19 AM Senator Broxson advises that he has an observation
11:16:27 AM Chair Albritton says exactly that he Senator Broxson is on point
11:16:35 AM Senator Gainer has a question
11:17:02 AM Ms. Bell answers
11:17:16 AM Senator Gainer with a question
11:17:21 AM Ms. Bell answers
11:17:36 AM Senator Gainer also wants to add to Senator Broxson's comment
11:17:56 AM Chair Albritton makes comments

11:18:06 AM Chair Albritton echo's some of the committee comments

11:19:19 AM Chair Albritton ask that Farm Bureau representatives to raise hands

11:19:51 AM Chairs Albritton advises we are now getting into citrus aspect

11:20:12 AM Ned Hancock comes up to speak

11:22:37 AM Senator Gainer with a question

11:22:52 AM Ned Hancock answers

11:23:20 AM Chair Albritton thanks him for his comments

11:23:28 AM Mike Sparks comes up to speak

11:23:40 AM Charis Albritton talks about Mike Sparks and his colleague

11:24:08 AM Mr. Sparks speaking and gives presentation

11:46:10 AM Chair Albritton makes comments on presentation

11:46:58 AM Mr. Sparks makes comments

11:47:24 AM Chair Albritton responds to Mr. Sparks' comment

11:48:10 AM Mr. Sparks makes comment

11:48:29 AM Chair Albritton replies

11:49:46 AM Senator Broxson comments on report

11:51:59 AM Chair Albritton agrees

11:52:06 AM Senator Gainer with comment

11:52:30 AM Mr. Sparks thanks Senators for their comments

11:52:39 AM Chair Albritton thanks Mr. Sparks for speaking

11:53:01 AM Chair Albritton introduces FFA from Plant City

11:53:30 AM James Prescott and Sydney Swartman give presentation together

11:58:54 AM James Prescott and Sydney Swartman speaks

11:58:56 AM Chair Albritton thanks them for presentation

11:59:19 AM Bruce Borders speaks

12:00:36 PM Chair Albritton explains that he is sorry but he has to adjourn the meeting

12:00:48 PM Motion by Senator Montford to adjourn the meeting.