

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA

AGRICULTURE
Senator Albritton, Chair
Senator Gainer, Vice Chair

MEETING DATE: Tuesday, November 12, 2019
TIME: 10:30 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
		Update on Hemp Grown by University Pilot Projects	Presented
		Update on Hemp Seed Certification Process	Discussed
		Other Related Meeting Documents	



UF/IFAS Hemp Pilot Project - Senate Ag. Committee Update
November 12, 2019

University of Florida Industrial Hemp Pilot Project

Jerry Fankhauser, Assistant Director
Florida Agricultural Experiment Station - UF/IFAS

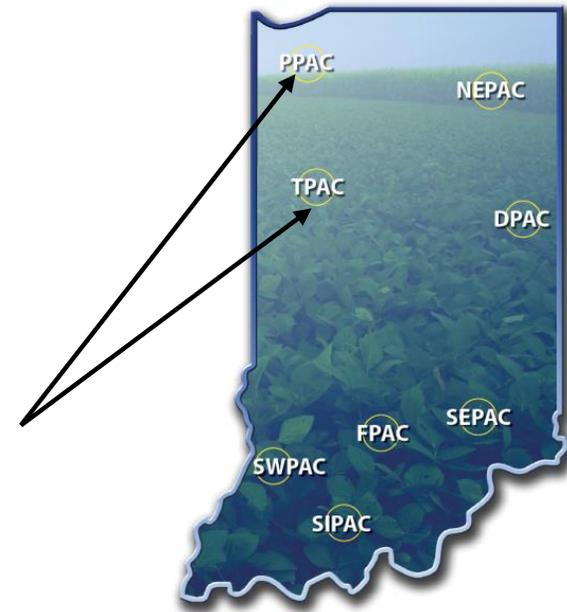
UF/IFAS – Office of Research

Dean for Research Office – Pilot Project Logistics

- Dean & Director of Florida Ag. Experiment Station is Dr. Rob Gilbert – Initially Lead Oversight Manager for Hemp Pilot Project
- Assistant Director – **Jerry Fankhauser**

My experience...

- Former director of Purdue Agricultural Centers & assistant director of Indiana Ag. Experiment Station (split appt.)
- Managed two outlying research stations (PPAC 1988-1995 & TPAC 1997-2000)
- Technical Service Representative for *American Cyanamid* in northern Ohio (1995-1997)



Hemp Production - Options

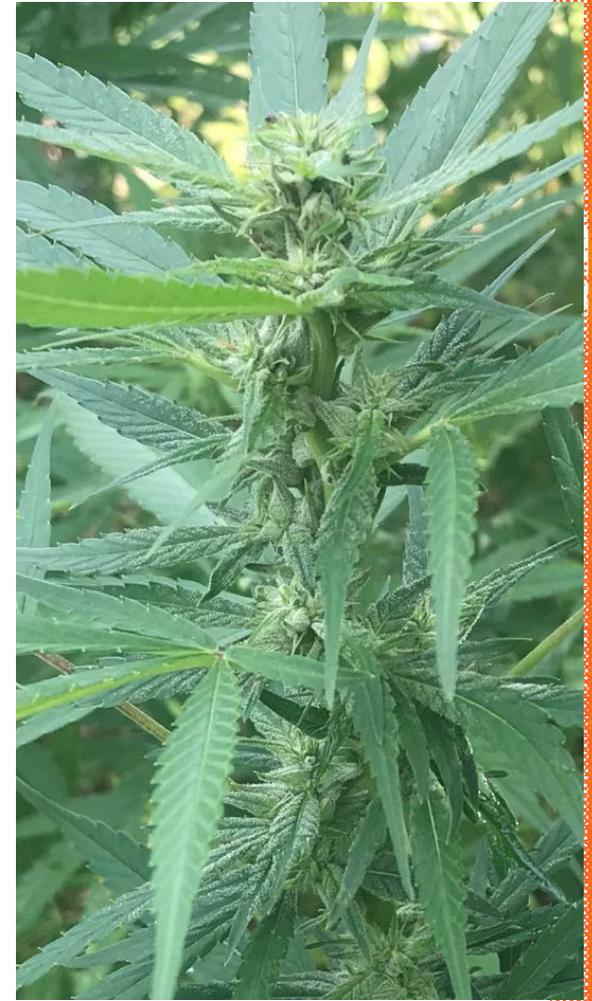
Fiber (Stem)



Grain (Seed)



CBD (Flower)



Pilot Project Field Trials – Seed Varieties

Grain/Fiber		Grain		Fiber		CBD	
Bama	South China	CFX-1	Canada	Eletta	Italy	Berry Blossom	United States
Canda	Canada	CFX-2	Canada	Campana		Cherry Blossom	United States
Carmagnola	Italy	CRS-1	Canada	Fibranova	Italy	Cherry Blossom x T1	
Carmagnola Selezionata	Italy			Puma-3	South China	Cherry Wine	United States
Han FN-H	North China			Puma-4	South China		
Han FN-Q	North China						
Han NE	Central China						
Han NW	Central China						
Helena	Serbia						
Joey	Canada						
Si-1	South China						
Tygra	Poland						
Yuma	South China						
Yuma-2	South China						

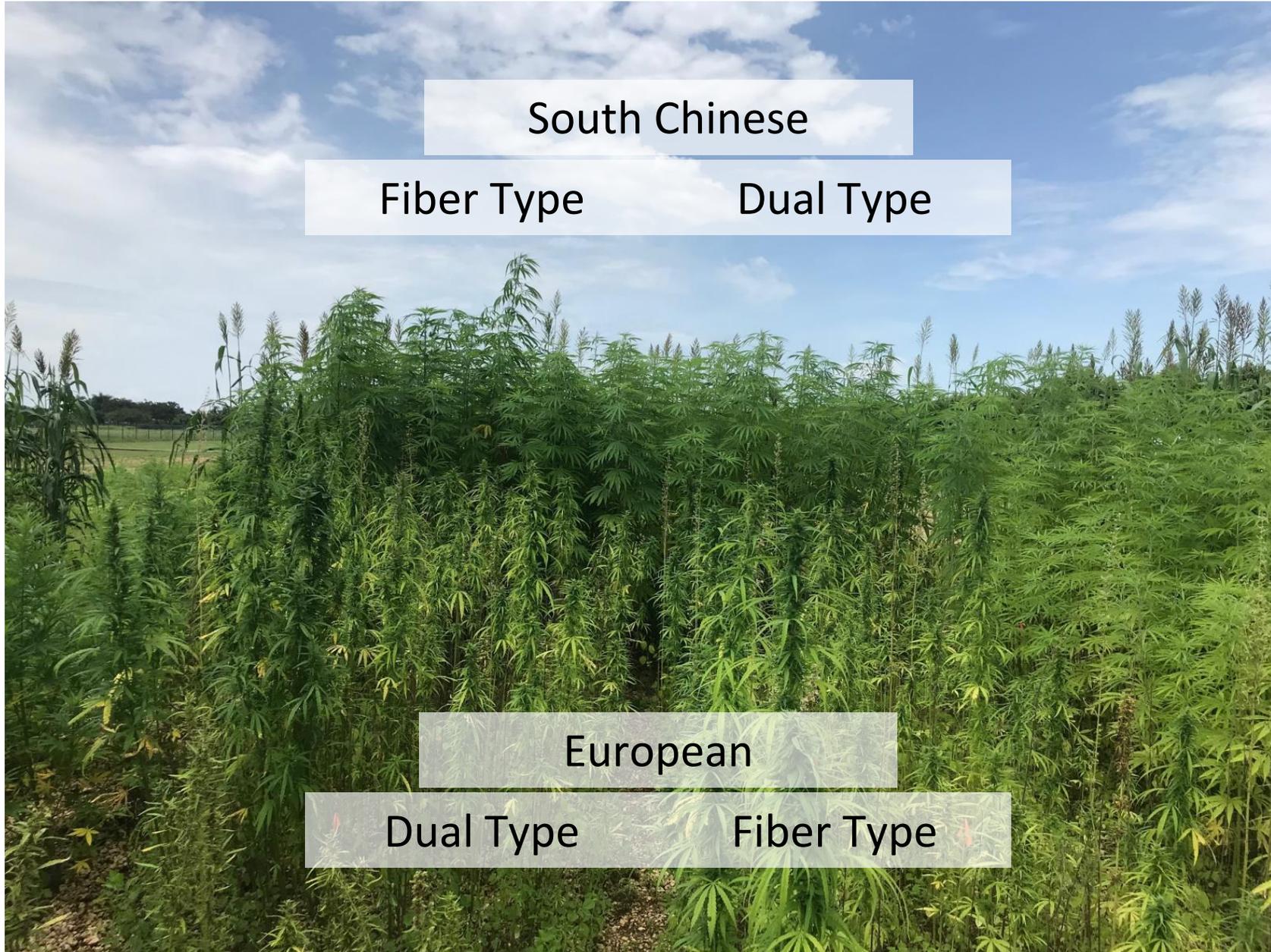


Shown in photo:

1) Si-1 2) Cherry Wine 3) Tygra 4) Eletta Campana 5) Puma-3

Pilot Project Field Research

Tropical REC-Homestead



Pilot Project Field Research

North Florida REC-Quincy



Pilot Project Field Research

North Florida REC-Quincy



Pilot Project Field Research

AFRU-Hague (Alachua County)



Field Trial Challenges: Weeds



Closing thoughts...

Issues of concern for Florida growers include:

- Lack of “certified” or “verified” hemp seed and cultivars
- Lack of registered hemp crop protection products (e.g. herbicides & insecticides!)
- Adapted hemp cultivars in outdoor grow systems
- Acceptable THC levels near/at harvest
- Potential for pollen drift from grain/fiber production

THANK YOU!

Newsletter:

<https://programs.ifas.ufl.edu/hemp/newsletter>

Email:

gfankhauser@ufl.edu

Florida A&M University



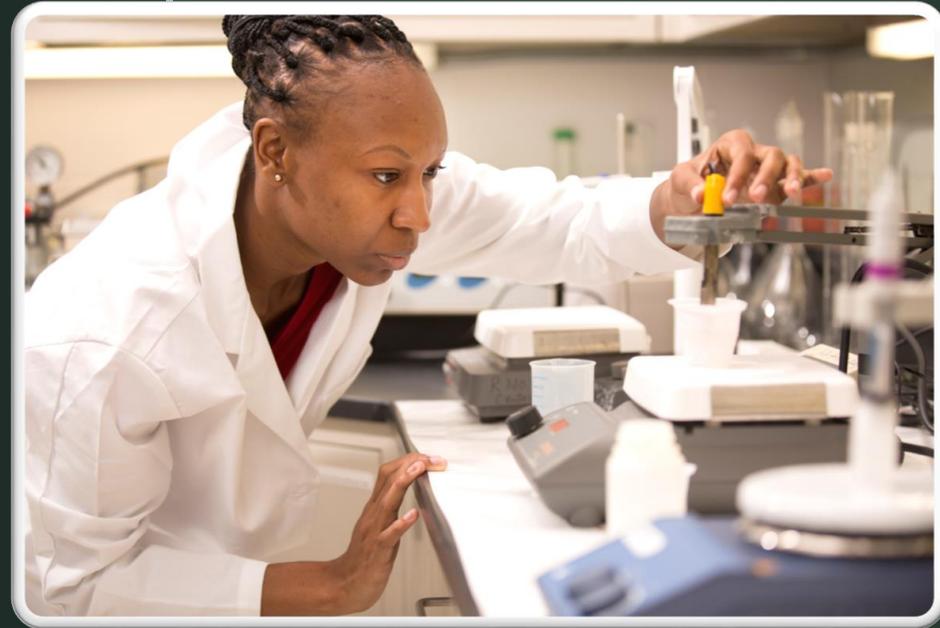
Progress Report

Nov 12, 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.

- Identify hemp species that will thrive safely under Florida condition.
- Identify good production and management practices for growers.



Location of Research Sites

Partners	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	-

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 crop harvest: 13,210 lb
- To be processed in Miami



Bartow Location, Cont'd



Cherry Wine
Ready for harvest

Cherry Citrus
Ready for harvest



Harvested hemp
biomass

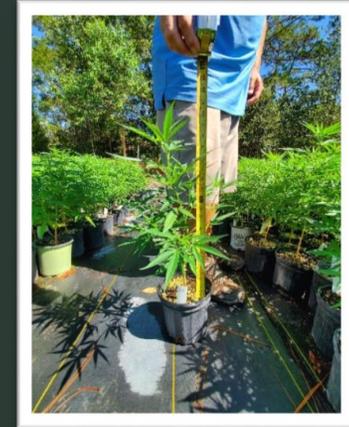
Newberry Location

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 5,000 plants
- Harvesting in November
- Varieties: CBD Therapy, Cherry Wine, Cherry Citrus, Cherry Cherry, Sweetened & Stout



Chery Wine
About ready for harvest

Sunshine Hemp

Punta Gorda

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



- **Secure planting permit for Future Farm Technologies**
 - Apopka, 1 Acre
 - Brooksville, 10 acres
 - Quincy, 1.5 acres
- **Continue research & data collection on existing areas**
- **Establish new planting**
 - High Road, 6 acres
 - Newberry, 3 acres
 - Kenansville, 5 acres
 - Punta Gorda, 5 acres
- **Propagation of rooted cuttings/liners**
- **Establish foundation farm for certified seeds**
- **Establish hemp research & infrastructure**
- **Replant Bartow location**

- **Lack of technical information on varietal performance**
- **Lack of technical information on management practices**
- **Inexperience growers**
- **Lack of planting materials**
- **Under developed market infrastructures**

Contact:

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

Thank You

71 /

THE FLORIDA SENATE

APPEARANCE RECORD

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

11/12/2019

Meeting Date

Bill Number (if applicable)

Topic Update on Hemp Grown at UF/IFAS

Amendment Barcode (if applicable)

Name Jerry Fankhauser

Job Title Assistant Director FL Ag Experiment Station UFIFAS

Address 215 S. Monroe St. Suit 110

Phone 850-270-4010

Street

Tallahassee

FL

32301

Email gfankhauser@ufl.edu

City

State

Zip

Speaking: For Against Information

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

Representing University of Florida Institute of Food & Agricultural Sciences

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)

time constraint - unable to appear

TI

THE FLORIDA SENATE
APPEARANCE RECORD

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

11/12/2020

Meeting Date

Bill Number (if applicable)

Topic FAMU Hemp Project

Amendment Barcode (if applicable)

Name Charles Weatherford

Job Title VP Research

Address 410 Foote Hilyer Florida A&M U.

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 U.

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

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time constraint - unable to appear TT

THE FLORIDA SENATE

APPEARANCE RECORD

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November 12, 2019

Meeting Date

Bill Number (if applicable)

Topic FAMU Sunshine hemp industrial hemp research project

Amendment Barcode (if applicable)

Name Jeffrey Sharkey

Job Title Sunshine Hemp partner

Address 106 E. College Ave, Suite 640

Phone 850-224-1660

Street

Tallahassee

Florida

32301

Email Jeffreyshark@gmail.com

City

State

Zip

Speaking: [] For [] Against [x] Information

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

Representing Sunshine Hemp

Appearing at request of Chair: [] Yes [x] No

Lobbyist registered with Legislature: [x] Yes [] No

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APPEARANCE RECORD

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11/12/2019

Meeting Date

N/A

Bill Number (if applicable)

N/A

Amendment Barcode (if applicable)

Topic FAMU Hemp 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

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THE FLORIDA SENATE
APPEARANCE RECORD

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11/12/19
Meeting Date

Bill Number (if applicable)

Topic Hemp / Seed Cert

Amendment Barcode (if applicable)

Name Emily Duda Buckley

Job Title Director of Legislative Affairs

Address 400 S. Monre St
Street

Phone 8506177700

Tallahassee FL 32399
City State Zip

Email emily.buckley@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

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THE FLORIDA SENATE
APPEARANCE RECORD

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11/12/19
Meeting Date

Bill Number (if applicable)

Topic Seed Certification

Amendment Barcode (if applicable)

Name Holly Bell

Job Title Director of Cannabis

Address 400 S. Monroe St

Phone 8506177700

Street

Tallahassee

FL

32399

Email holly.bella@fldacs.gov

City

State

Zip

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.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

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11-12-19
Meeting Date

Bill Number (if applicable)

Topic Hemp

Amendment Barcode (if applicable)

Name Bo Snively

Job Title Farmer

Address _____
Street

Phone _____

City

State

Zip

Email _____

Speaking: For Against Information

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

Representing Florida Hemp Growers Alliance

Appearing at request of Chair: Yes No

Lobbyist registered with Legislature: Yes No

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CourtSmart Tag Report

Room: SB 301

Caption: Senate Agriculture Committee

Case No.:

Judge:

Type:

Started: 11/12/2019 10:32:43 AM

Ends: 11/12/2019 11:54:29 AM Length: 01:21:47

10:32:41 AM Meeting called to order by Chair Albritton
10:32:51 AM Roll call by CAA Laureen Zaugg
10:32:56 AM Quorum announced
10:33:09 AM Senator Rader excused
10:33:13 AM Senator Broxson with comments
10:33:18 AM Chairman responds
10:33:31 AM Stand for Pledge of Allegiance
10:33:53 AM Pledge led by Senator Broxson
10:33:53 AM Opening comments by Chair
10:34:29 AM Tab 1 Update on Hemp Grown by University Pilot Projects
10:34:39 AM Mr. Fankhauser Assistant Director, University of Florida Institute of Food and Agricultural Sciences presents
10:54:59 AM Senator Broxson with question
10:55:23 AM Mr. Fankhauser responds
10:59:51 AM Chair with questions
10:59:58 AM Mr. Fankhauser responds
11:02:25 AM Chair with follow-up
11:02:48 AM Mr. Fankhauser responds
11:05:28 AM Chair with comments
11:05:56 AM Mr. Fankhauser responds
11:08:23 AM Chair with follow-up
11:08:39 AM Mr. Fankhauser responds
11:09:47 AM Chair with follow-up
11:09:53 AM Mr. Fankhauser responds
11:11:59 AM Senator Gainer with questions
11:12:26 AM Mr. Fankhauser responds
11:12:51 AM Senator Gainer with clarifications
11:12:58 AM Mr. Fankhauser responds
11:15:04 AM Senator Gainer with follow-up
11:15:44 AM Senator Broxson with comments/question
11:16:00 AM Mr. Fankhauser responds
11:19:16 AM Senator Broxson with follow-up
11:19:30 AM Chair responds
11:24:17 AM Mr. Fankhauser responds
11:25:06 AM Senator Montford with question/comments
11:27:19 AM Chair with comments
11:28:21 AM Emily Duda Buckley, Legislative Director, FDACS with comments
11:32:57 AM Tab 2 Update on Hemp Seed Certification Process
11:33:26 AM Holly Bell, Director of Cannabis, FDACS presents
11:36:32 AM Chair with comments
11:36:41 AM Senator Broxson with question/comments
11:37:43 AM Senator Montford with comments
11:39:23 AM Chair with comments
11:41:18 AM Ms. Bell with response
11:44:04 AM Senator Gainer with question
11:44:14 AM Ms. Bell responds
11:45:14 AM Senator Gainer with follow-up
11:46:04 AM Chair with comments
11:46:08 AM Ms. Bell responds
11:46:17 AM Chair with comments
11:46:44 AM Appearance by Mr. Bo Snively, Florida farmer
11:47:03 AM Mr. Snively speaks

11:49:04 AM Chair with comments
11:49:23 AM Senator Broxson with question
11:49:30 AM Mr. Snively responds
11:50:23 AM Chair with comments
11:51:45 AM Mr. Snively with comments
11:52:08 AM Chair with comments
11:54:07 AM Senator Gainer moves to adjourn
11:54:18 AM Meeting adjourned