

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA

AGRICULTURE
Senator Albritton, Chair
Senator Gainer, Vice Chair

MEETING DATE: Monday, January 7, 2019
TIME: 2:30—4:00 p.m.
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	Presentation by the Florida Department of Agriculture and Consumer Services on Agricultural Best Management Practices		Presented
2	Discussion on the Impacts of Hurricane Michael on Florida Agriculture		Presented
Other Related Meeting Documents			

Florida Department of Agriculture and
Consumer Services

Office of Agricultural Water Policy

Best Management Practices
(BMP) Program

Senate Agricultural Committee

January 7, 2019

Senator Ben Albritton, Chair



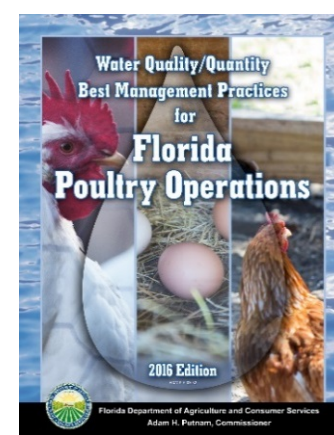
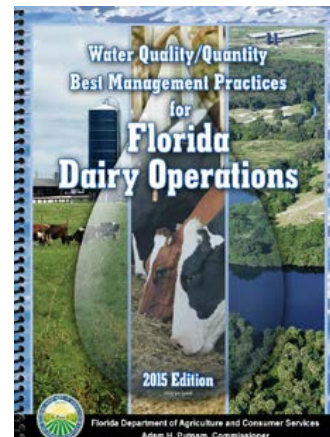
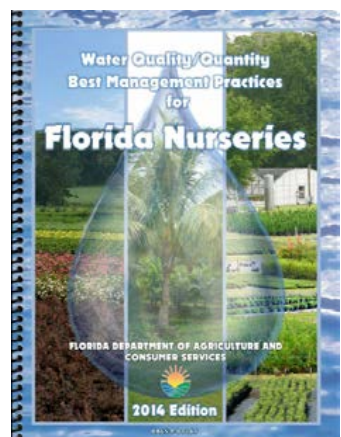
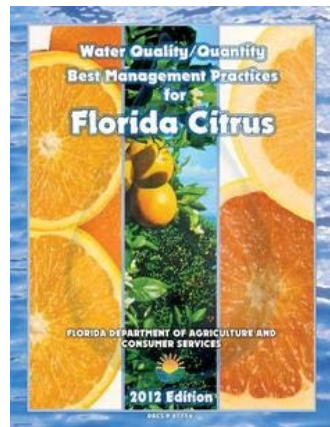
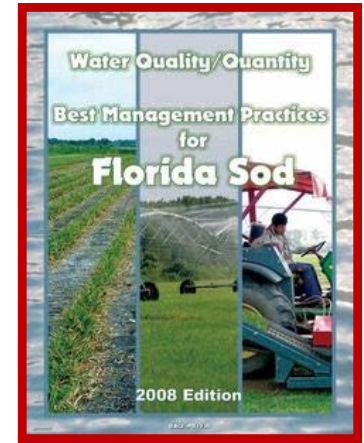
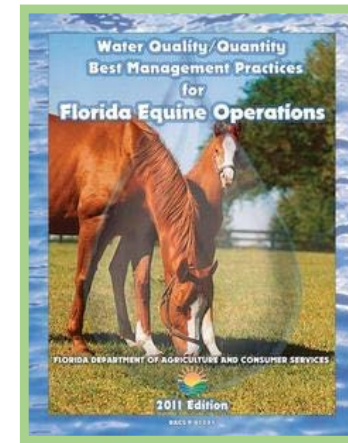
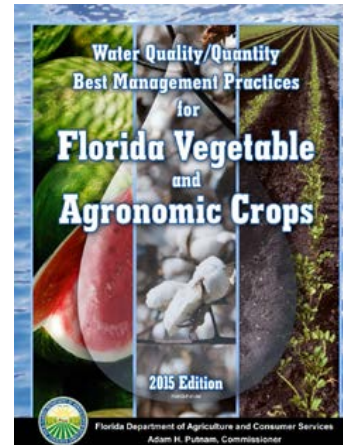
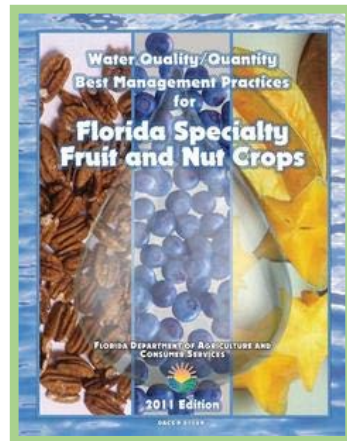
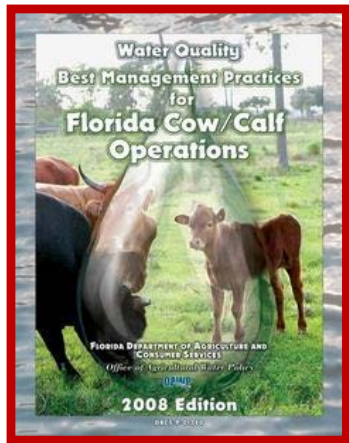
What is a BMP?

Management Strategies, Tools and Practices

Improve water quality, conserve water and protect the environment



Adopted BMP Manuals



***Coming
Soon!
Florida
Small
Farms***



Florida Department of Agriculture and Consumer Services

How Do BMPs Work?

1. Controlling Inputs - At the source
2. Providing Treatment – Prior to discharge



How Do BMPs Help The Environment?

- Improve Water Quality by reducing nutrients – specifically nitrogen (N) and phosphorus (P)
- Conserve Water by improving irrigation efficiencies and/or reducing groundwater usage
- Protect Water Resources by reducing or preventing discharges of water and sediments



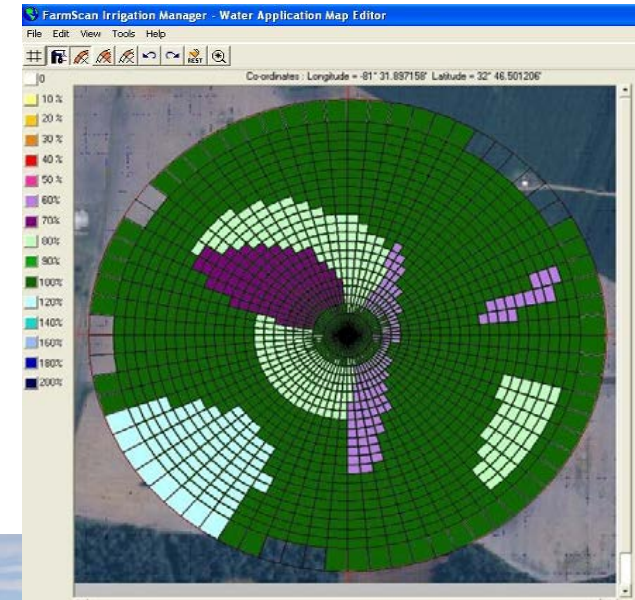
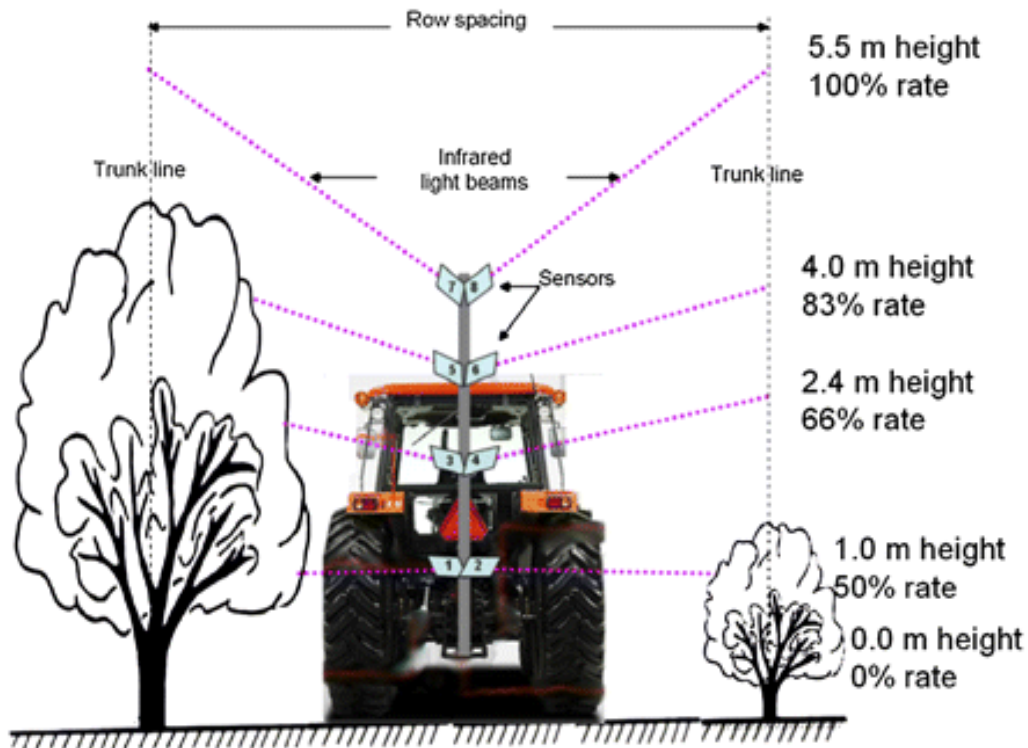
What Do BMPs Look Like?



Soil Moisture Probes - Reduce fertilizer and water usage by up to **50%**, provides tracking of fertilizer through soil column



Variable Rate Technology



Cover Crops - Uptake of residual N in soil, prevents erosion and nutrient loss



How Are Site - Specific BMPs Determined?

Site - specific evaluation tailored to the features of individual properties

- Soil types
- Slope
- Water features
- Size of property
- Existing infrastructure, i.e. irrigation
- Cost share available to assist with implementation



How Do We Know That Agricultural Producers Are Following BMPs?

- Required by Rule
- Annual Certification – Electronic and/or staff assisted
- Implementation Verification Site Visit – Performed year round through field staff site visits
- Producers implementing the applicable BMPs for their operations have a Presumption of Compliance with state water quality standards.

The goal of the BMP Program is to assist producers in achieving 100% implementation of applicable BMPs.



6.8 million acres Agricultural Lands



Thank You!

<http://www.freshfromflorida.com/Divisions-Offices/Agricultural-Water-Policy>

R. Clegg Hooks, Deputy Director
(850) 617-1700

Clegg.Hooks@FreshFromFlorida.com





UF/IFAS Extension & FL EDEN Response - Hurricane Michael 2018

FOR THE

#GATORGOOD

Angie B. Lindsey, Ph.D.
Assistant Professor & FL EDEN POC



FL EDEN



FL EDEN

- Extension Disaster Education Network
- Network of about 300 "volunteers" from federal agencies, state land grant institutions
- Enhance the abilities of individuals, families, organizations, agencies and businesses to prepare for, prevent, mitigate and recover from disasters
- Serve as a national source for research-based disaster education
- Liaisons and Point-of-Contacts (POC) at each land grant institution

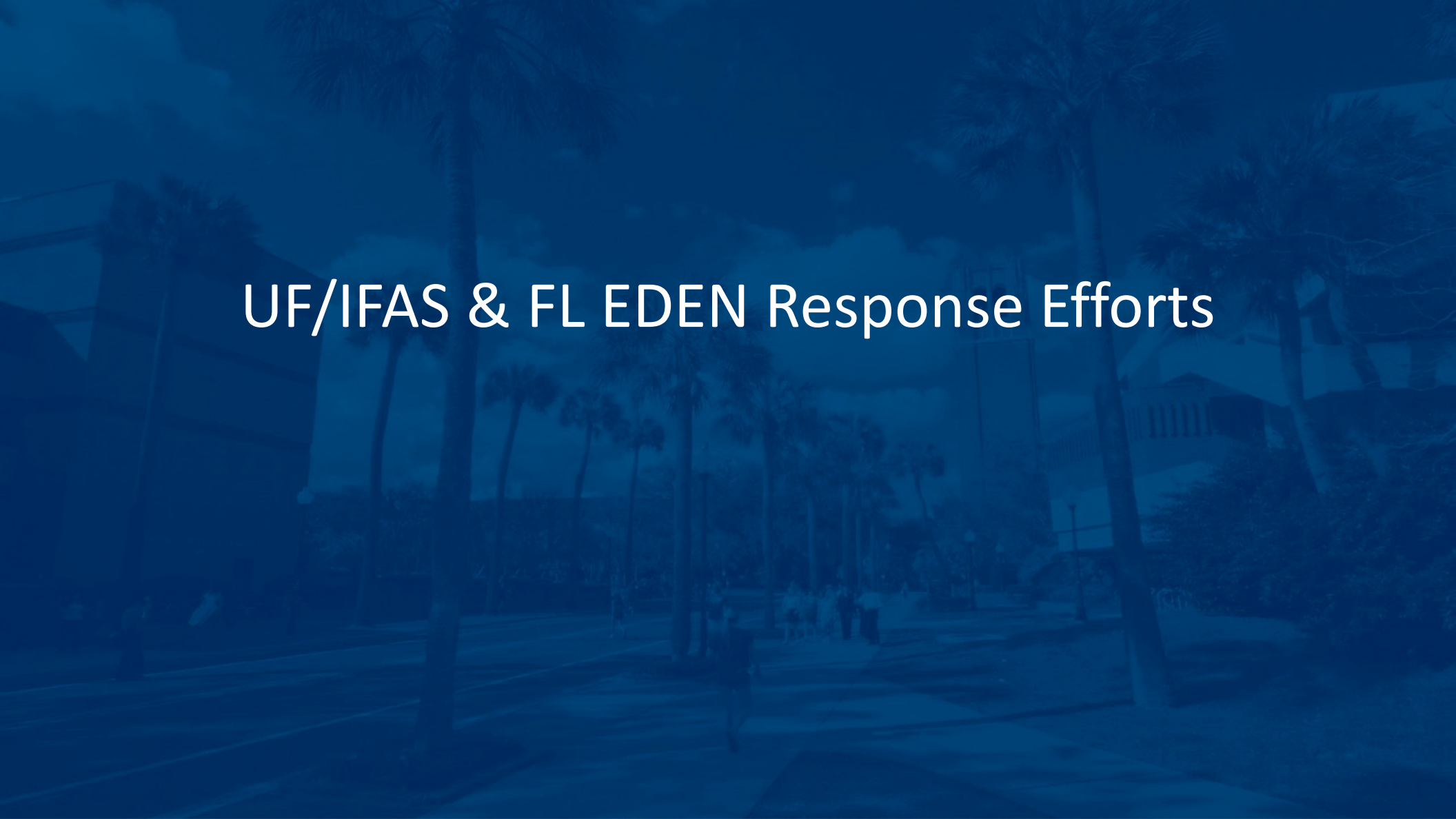
UF/IFAS Overview

- Personally Impacted 84 Faculty and Staff & their families across 11 County Extension Offices
- Including 2 Research Education Centers (RECs) in Marianna and Quincy
- Representative at FEMA Emergency Support Function 17 Incident Command Post
- UF/IFAS assisted with FL State Agricultural Response Team (SART) distribution
- Four county offices served as distribution points for SART
- County offices were used as FEMA Points of Distribution (PODs)
- Five county offices set-up as FEMA sites
- Agriculture assessments
- Worked closely with FDACS & other SART partners to meet gaps/needs



Ag Assessments

- The top five counties in terms of agricultural losses were Jackson (\$51 million), Gadsden (\$15 million), Suwannee (\$14 million), Calhoun (\$11 million), and Santa Rosa (\$6 million).
- A total of 2.809 million acres of forest land area was damaged valued at \$1.289 Billion.
- Aquaculture product loss for 2018 -2019 is estimated between 80 – 100% along impacted coastal communities.
- Total losses for crops and animals/animal products were estimated at \$138 million, including \$80 million for field crops, \$32 million for specialty crops, and \$26 million for animals/animal products. (*as of 11/12/2018*)

A blue-tinted photograph of a university campus. In the foreground, a paved walkway leads towards a row of palm trees. In the background, a tall clock tower is visible among other campus buildings. The scene is captured from a low angle, looking down the path.

UF/IFAS & FL EDEN Response Efforts







**SART distribution and
donation sites in
Washington, Jackson,
Liberty, and Calhoun**









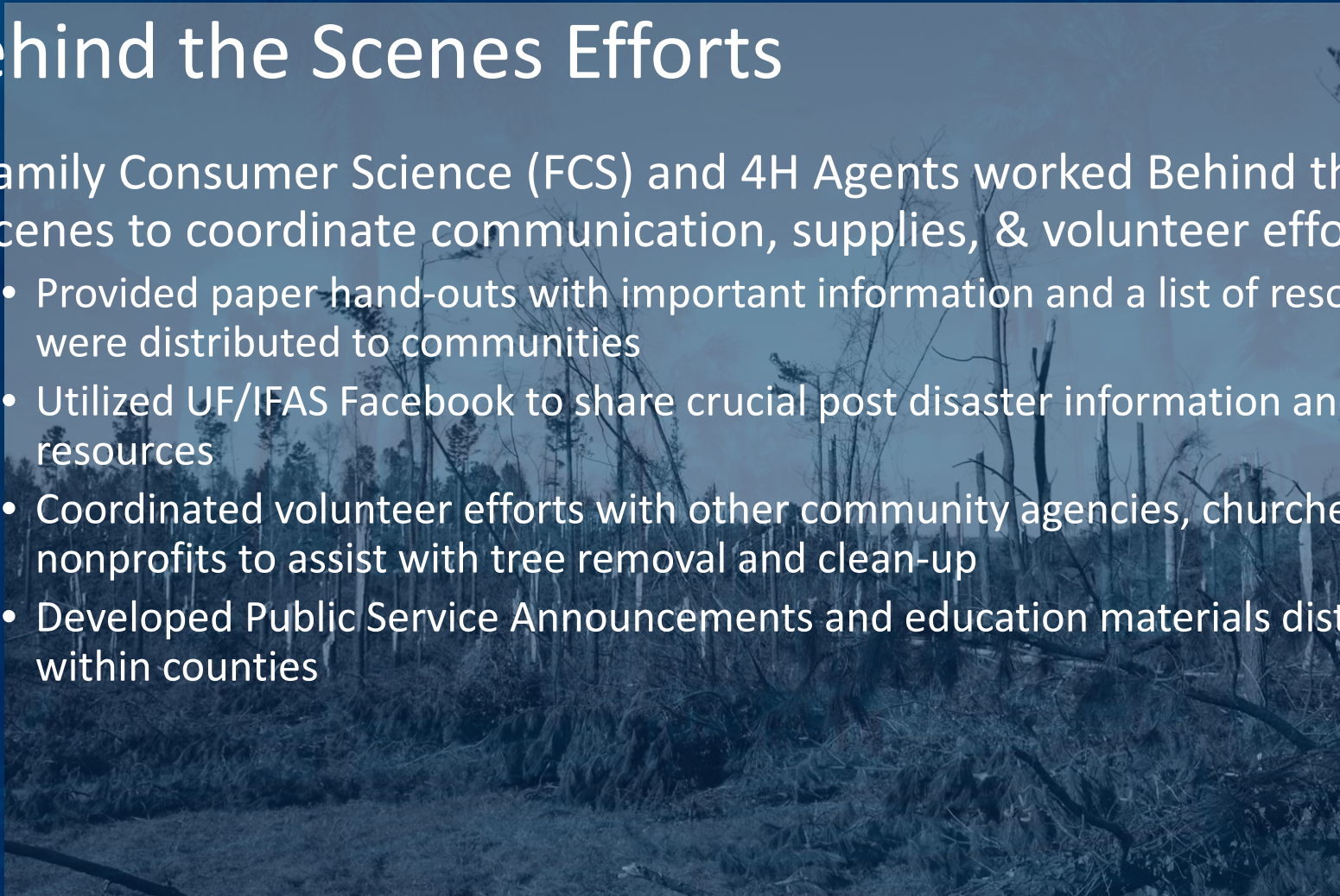






Behind the Scenes Efforts

- Family Consumer Science (FCS) and 4H Agents worked Behind the Scenes to coordinate communication, supplies, & volunteer efforts
 - Provided paper hand-outs with important information and a list of resources that were distributed to communities
 - Utilized UF/IFAS Facebook to share crucial post disaster information and resources
 - Coordinated volunteer efforts with other community agencies, churches, and nonprofits to assist with tree removal and clean-up
 - Developed Public Service Announcements and education materials distributed within counties



Lessons Learned



Plan for when IFAS faculty & staff are GREATLY impacted



UF/IFAS Disaster Fund & possibly “stockpiling” supplies throughout the year



Develop efficient & effective communication strategies before and after disasters



Develop alternatives to on-line tools



Host a state-wide drill prior to next hurricane season to ensure roles, responsibilities, and timing



Florida Department of Agriculture and Consumer Services

Hurricane Michael Impacts, Actions and Needs January 7, 2019

Senator Albritton, Chair –
Agriculture Committee

Jim Karels, Director,
Florida Forest Service

Hurricane Michael



Agricultural Impacts include:

Forestry: \$1.289 Billion	Other Field Crops: \$7.28 Million
Cotton: \$56.06 Million	Dairy: \$6.43 Million
Cattle: \$43.31 Million	Aquaculture: \$5.00 Million
Peanuts: \$23.04 Million	Fruits: \$4.35 Million
Nurseries and Floriculture: \$16.11 Million	Tree Nuts: \$4.08 Million
Poultry and Eggs: \$10.02 Million	Apiary: \$1.96 Million
Vegetables: \$8.61 Million	Commercial Fisheries – Unable to compile enough data
Total Losses All Commodities: \$1.475 Billion	

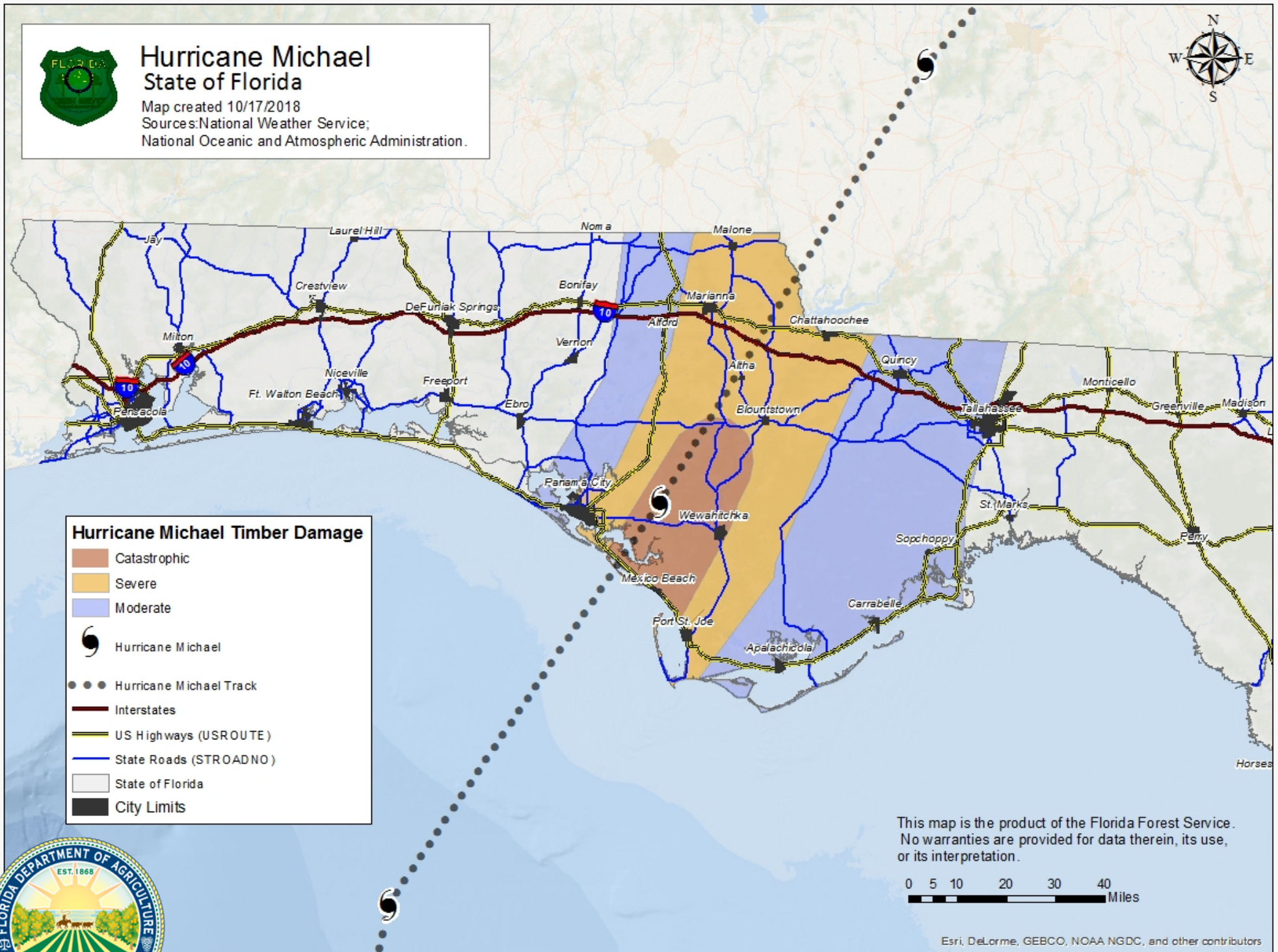




Hurricane Michael State of Florida

Map created 10/17/2018

Sources: National Weather Service;
National Oceanic and Atmospheric Administration.



Timber Damage Zones



- Catastrophic: 20 mile swath, 347,000 ac, 95% timber volume damaged
- Severe: 40 mile swath, 1.04 million ac 75% timber volume damaged
- Moderate: 80 mile swath, 1.42 million ac 15% timber volume damaged



Catastrophic Damage



Severe Damage

Liberty County



Calhoun County



Liberty County

Moderate Damage



Forest Acres Affected



County Name	Catastrophic	Severe	Moderate	Total
Bay	71,422	118,616	90,870	280,908
Calhoun	150,983	172,828		323,811
Franklin			283,386	283,386
Gadsden		59,311	184,888	244,199
Gulf	124,507	141,168		265,675
Holmes			29,241	29,241
Jackson		295,628	98,501	394,129
Leon			154,245	154,245
Liberty		255,388	261,285	516,673
Wakulla			203,140	203,140
Washington			113,240	113,240
TOTAL	346,912	1,042,939	1,418,796	2,808,647



Timber Damage Values



Damage	Pine	Mixed	Bottomland	Est Value
Catastrophic – 95%	\$191,957,089	\$49,930,972	\$78,828,506	\$320,716,567
Severe – 75%	\$455,598,258	\$118,508,085	\$187,094,377	\$761,200,720
Moderate – 15%	\$123,957,506	\$32,243,245	\$50,904,005	\$207,104,756
Total				\$1,289,022,043



Landowner Types Impacted



Ownership	Catastrophic	Severe	Moderate	Total Acres*
Federal	10,448	114,246	487,500	612,193
State	908	76,749	317,552	395,209
Local Gov't	165	6,275	6,214	12,653
Private	333,925	835,885	600,174	1,769,984
Other	1,466	9,785	7,357	18,608
Total	346,912	1,042,939	1,418,796	2,808,647

*Data from Florida Comprehensive Statewide Forest Inventory Analysis Study

Number of Private Landowners impacted (over 16,000 total):

- 772 – Catastrophic Zone
- 8,159 – Severe Zone
- 7,884 – Moderate Zone



Hurricane Michael Response



- Urban Search and Rescue Support
- Forestry Saw Teams opened roads throughout impact area
- Managed base camps and supported county emergency response
- Facility and Equipment damage



Private Lands Assistance



County Forester Strike Teams sent into impact area to provide:

- Landowner site visits
- Verification of damage on CRP lands
- Information on federal (EFRP) programs
- Site assessment for need of road access that can be provided by FFS saw crews to reduce risk of wildfire



Private Lands Assistance



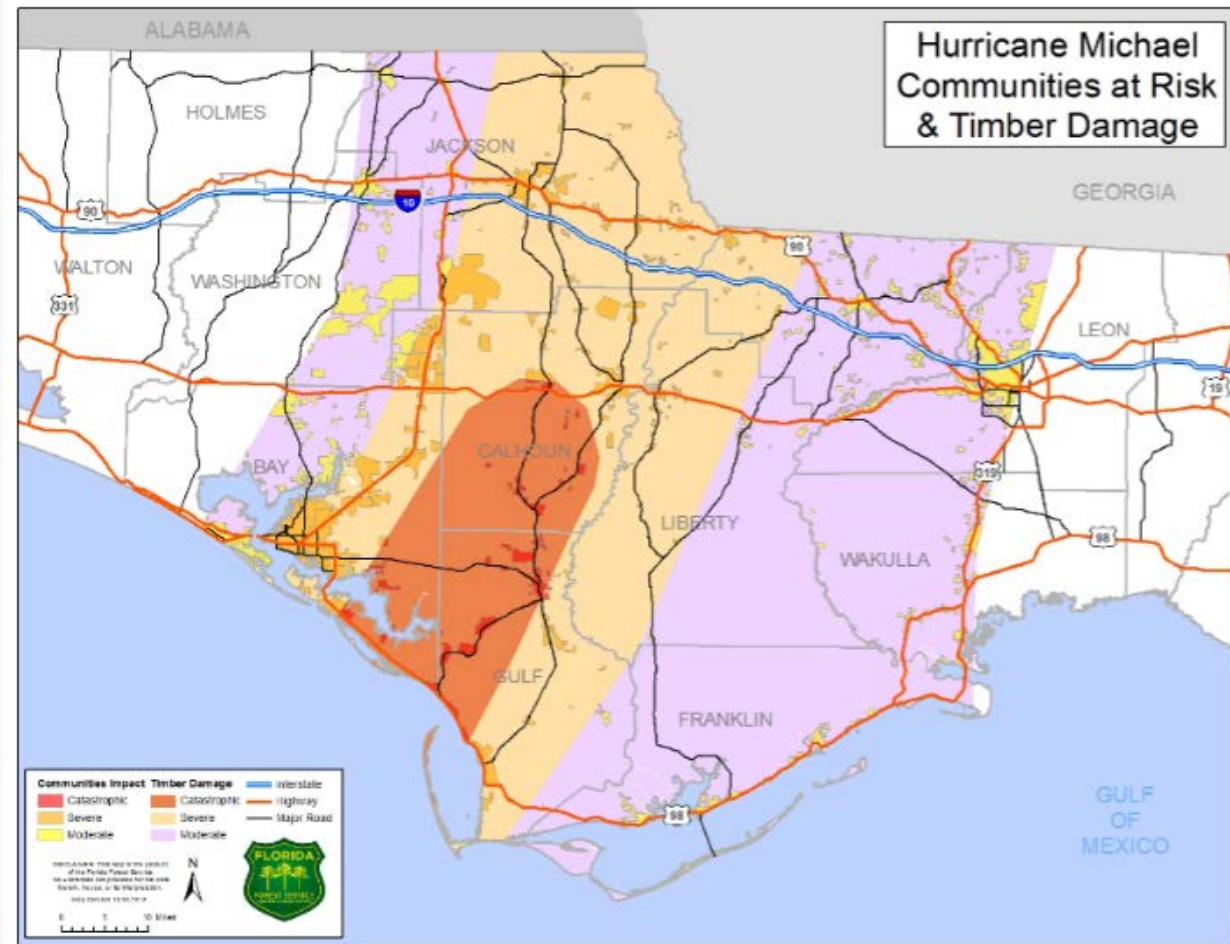
- FFS landowner meetings provided initial information in October
- FFS providing no-cost Pile Burning Classes in November & December for 300 landowners
- FFS Foresters provided on-site assistance for landowners impacted by hurricane.



Wildfire Threat



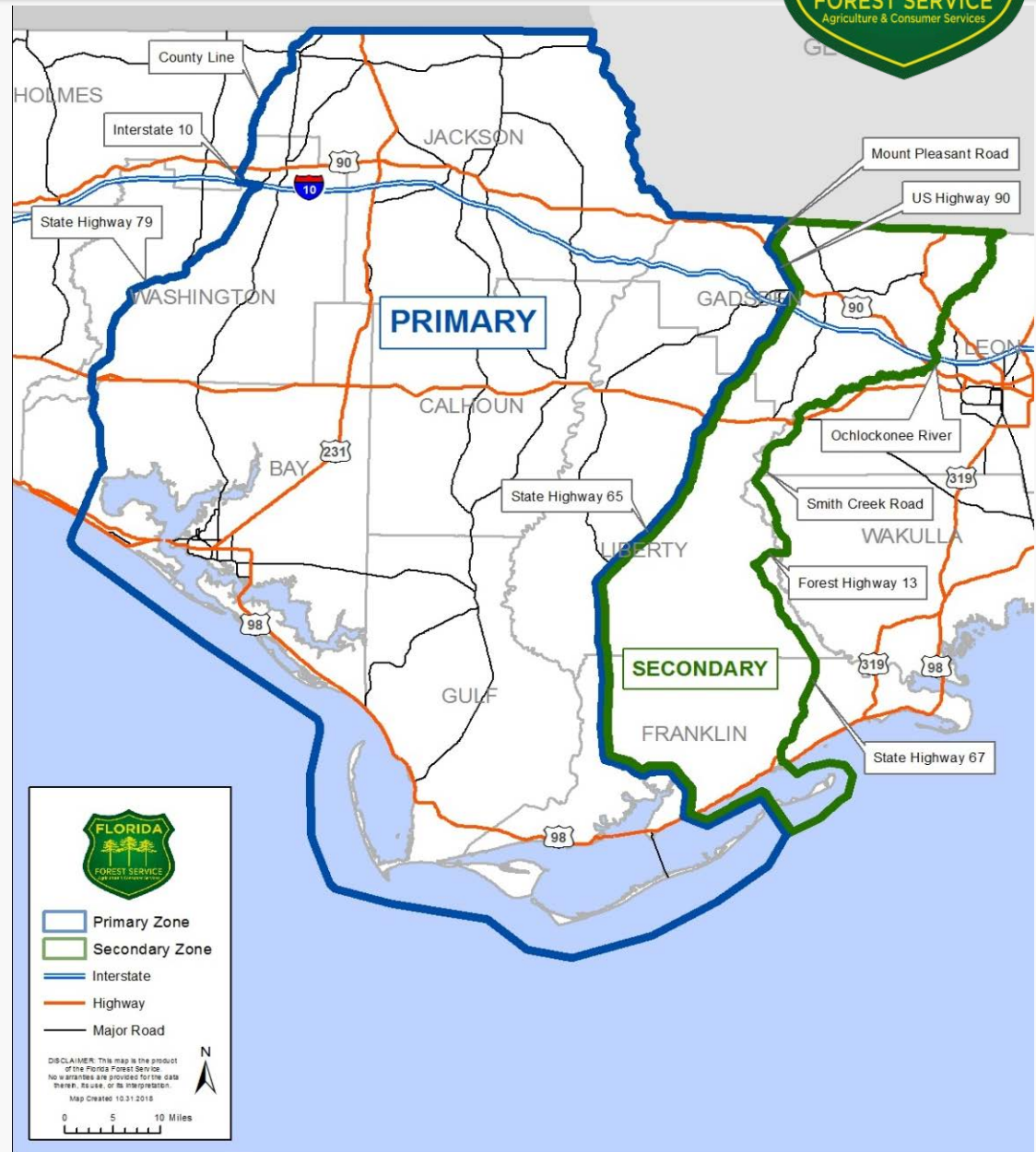
- Increased wildfire risk to 233 Communities
- Fire equipment access is significantly reduced
- Fuel loadings more than 10 times the normal



Prescribed Fire Impact



- On-site Inspection and Burning Zones
- Examine open burning procedures



Wildfire Mitigation Needed



- Establish fuel breaks around communities
- Manage open burning program
- Prepare for fire suppression



Summary of Impacts



2.81 million Acres impacted

**71.93 million Tons – 4.4 years of
annual forest harvest in Florida**

\$1.29 Billion in damaged resource

**16,000 private landowners
impacted**

233 Communities At Risk



Recovery Needs



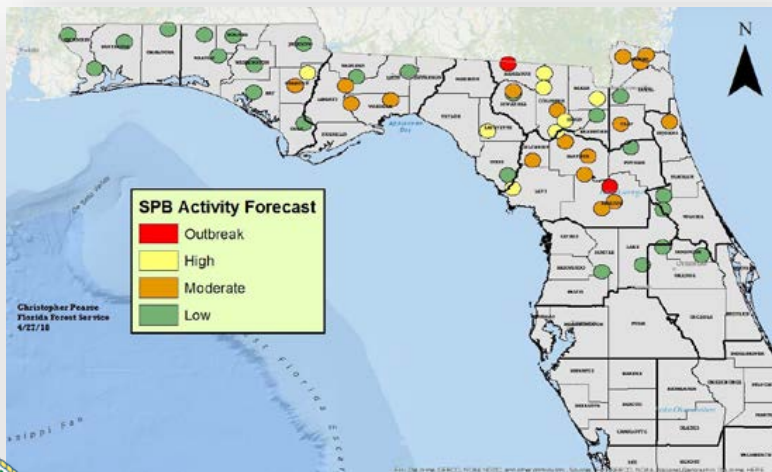
- **Heavy fire suppression dozers**
- **Helicopters for inaccessible areas**
- **Prevention and fire mitigation equipment and outreach.**



Recovery Needs



- **Surveillance and treatment to stop Pine Beetle epidemic and the spread of invasive species**





Support rural economy through private forest land debris removal and reforestation



Recovery Needs



**Support for urban
and community
tree restoration
and replacement
programs in
partnership with
non-profit groups**



Hurricane Michael Recovery



- **Federal Hurricane Michael recovery efforts include reauthorization of WHIP and state block grants including timber and agriculture**
- **Forest recovery at the state level:**
 - Reforestation efforts**
 - Reduce wildfire threat**
 - Forest Pest and Invasive species prevention**
 - Urban and Community Reforestation**



Questions?



Gulf County



Impact of Hurricane Michael on Florida Aquaculture



Portia Sapp

Florida Department of Agriculture and Consumer Services

850-617-7600

Portia.Sapp@FreshFromFlorida.com



Blountstown







Florida Department of Agriculture and Consumer Services • Adam H. Putnam, Commissioner









Approximately 110 upland farms and aquaculture leases in Bay, Calhoun, Franklin, Gulf, Jackson and Wakulla counties.

Preliminary damages to the aquaculture industry were estimated to be \$5 million.

The Fisheries Disaster Declaration by the Secretary of Commerce triggered NOAA Fisheries to conduct an impact assessment on commercial fishing and aquaculture businesses.

No data is available from this assessment due to the federal government shutdown.



Jackson County Estimated Agricultural Damage from Hurricane Michael 10/10/2018

Crop	Reported Acreage	Destroyed Acreage	Damaged Acreage	Damaged yield	2017 State Average
Corn	6,000	300 (5%) 95% already harvested	0%	0%	161 bu/ac
Cotton	40,500	36,450 (90%)	4,050 (10%)	300 lb./ac	759 lb./ac
Peanuts	32,000	0% (50% had already been harvested)*	16,000 (50%)	1500 lbs.	3,450 lb./ac
Soybeans	3,800	3,040 (80%)	760 (20%)	15 bu/ac	34 bu/ac
Fall vegetables (tomatoes, squash, peppers, collard greens, etc)	3,122 acres of vegetables – 40% planted with fall crop = 1250 acres	70%	20%	Requires hand labor harvest- Yields below harvest value	
Tree nuts and fruit (pecans and satsuma citrus)	785 acres	25%	70%	50-60% yield loss to Satumas	
Forages	7,500	5% from debris removal in field, but 30% of barn stored hay destroyed	10% in field, but 30% of barn stored hay damaged	1500 lbs. - 20% reduction expected with first frost. 33% - delayed harvest will reduce quality of best hay cutting.	2 -1000# bales per acre
		30% of round bale silage destroyed with plastic torn off	50% of round bale silage damaged		
*Peanuts Destroyed at Buying points		*6 buying points were damaged. (1,160,000 pounds of peanuts lost at one)			
Center Pivot Irrigation Systems	400 pivots in the county	85% damaged or destroyed			
Honey Production	850 hives	10% hives destroyed = 85 @ \$300/hive = \$25,500		Fall bloom destroyed so beekeepers will be required to feed 3 gallons of syrup per hive for winter survival @ \$20 per hive to supplement feed lost = \$15,300	

Cattle Fences	30,778	15% damaged beyond repair – must be built new	75% damaged but able to repair with major debris removal expense	10% grazing loss due to damaged fences of permanent pastures before frost
Feed, livestock and equipment barns	493 cattle operations, 265 horse farms	65% destroyed	25% damaged to roof and walls but able to be repaired after debris removal	
Stored Grain Bins	2012 Census – 76 farms - 946,444 bu capacity – 12,453/farm	No conclusive reports yet, but expect damage of at least 40%, with 25% destroyed		
Timber	345,307 acres	20% destroyed	75% damaged with some salvagable timber possible @ 10-20% of market value before storm	

* Estimates based on Extension Agriculture Agent interviews with a limited number of farmers representing major farms in the county October 16-26, 2018. Submitted by Doug Mayo, County Extension Director and Ethan Carter, Crop IPM Regional Agent - Jackson County Extension - 850-482-9620

THE FLORIDA SENATE
APPEARANCE RECORD

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

01/07/2019

Meeting Date

Bill Number (if applicable)

Topic Best Management Practices

Amendment Barcode (if applicable)

Name Clegg Hooks

Job Title Deputy Director

Address 400 S. Monroe St

Phone 850 617 7700

Street

Tallahassee

FL

32399

Email emily.buckley@freshfromflorida.com

City

State

Zip

Speaking: ☐ For ☐ Against ☒ Information

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

Representing Department of Agriculture and Consumer Services - Office of Agriculture Water Policy

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)

1/7/2019

Meeting Date

Bill Number (if applicable)

Topic UF/IFAS - Hurricane Michael Impacts

Amendment Barcode (if applicable)

Name Angie Lindsey

Job Title Assistant Professor

Address 215 S. Monroe St. Suit 110

Phone 352-273-3552

Tallahassee FL 32301

Email ablindsey@ufl.edu

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)

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 EFFECTS OF MICHAEL

Amendment Barcode (if applicable) _____

Name CAINNOW BROGG

Job Title OYSTER FARMER

Address 2779 RED MAPLE RDG

Phone (843) 291-9322

Street

FALL ALABAMA

FL

32301

City

State

Zip

Email HOLLER @ PELICANMASTER.COM

Speaking: ☐ For ☐ Against ☒ Information

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

Representing OYSTER AQUACULTURE

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)

1-7-2018

Meeting Date

Bill Number (if applicable)

Topic IMPACT OF HURRICANE MICHAEL ON PANHANDLE BEEKEEPER Amendment Barcode (if applicable)Name TONY HOGGJob Title PRES FLORIDA BEE RESEARCH FOUNDATIONAddress 6562 N. JEFFERSON
StreetPhone 904 545 1072MONTICELLO FL
City

State

32344
ZipEmail CAPTADOGG@GMAIL.COMSpeaking: ☐ For ☐ Against ☒ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)Representing FLORIDA BEE RESEARCH FOUNDATIONAppearing at request of Chair: ☒ Yes ☐ NoLobbyist 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)

1-7-19

Meeting Date

Bill Number (if applicable)

Topic Hurricane Michael Impact

Amendment Barcode (if applicable)

Name MACK GLASS

Job Title OWNER MANGA

Address 1525 FAIRVIEW RD
Street

Phone 850-573-0885

MARIANNA FL 32448
City State Zip

Email MJG@XVFCOM. NET

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.

S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

January 7, 2019

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

Meeting DateBill Number (if applicable)Topic Hurricane MichaelAmendment Barcode (if applicable)Name Caroline McRae DauzatJob Title Owner, Rex Lumber CompanyAddress P.O. Box 7Phone 850.263.4457StreetGracevilleFL32440CityStateZipEmail cdauzat@rex-lumber.comSpeaking: ☐ For ☐ Against ☒ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ NoLobbyist 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

January 7, 2019

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

Meeting DateBill Number (if applicable)Topic Hurricane MichaelAmendment Barcode (if applicable)Name John AlterJob Title Owner/Operator Alter-Bevis FarmsAddress 5246 Highway 71Phone 850.569.2412StreetMaloneFL32445CityStateZipEmail treeman@alterbevisfarms.comSpeaking: ☐ For ☐ Against ☒ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ NoLobbyist 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)

1-7-19

Meeting Date

Bill Number (if applicable)

Topic

Hurricane Michael Impact

Amendment Barcode (if applicable)

Name

Jeffery C Pittman

Job Title

Owner / Operator JCFarm

Address

6429 Lovelock Rd

Phone

850 209 3437

Street

City

Bascom FL 32423

State

Zip

Email

JCFarm@Embargo mail. com

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.

S-001 (10/14/14)

CourtSmart Tag Report

Room: SB 301 **Case No.:**
Caption: Senate Committee on Agriculture

Type:
Judge:

Started: 1/7/2019 2:32:47 PM
Ends: 1/7/2019 4:00:44 PM **Length:** 01:27:58

2:32:59 PM Committee on Agriculture call to order by the Chairman Albritton
2:33:15 PM Committee AA Laureen call the roll
2:33:20 PM A quorum is present
2:33:29 PM Chairman Albritton welcome all members to the first Committee Meeting
2:34:17 PM Vice-chairman Gainer lead the Pledge of Allegiance
2:34:42 PM Chairman Albritton ask to silence all electronic device and fill out speaker cards for anyone wishing to speak.
2:36:05 PM Senator Gainer speaking on Hurricane Michael
2:36:51 PM Senator Broxson comment about the impact of Hurricane Michael
2:36:58 PM Senator Montford speaking of the impact of Hurrican Michael
2:36:59 PM Senator Montford speaking
2:37:24 PM Senator Rader commenting on Hurricane Michael
2:39:25 PM Chairman Albritton states the committee will start off with a presentation on BMP's
2:40:06 PM TAB 1 Mr. Clegg Hooks, Asst. Director, Office of Agricultural Water Policy, on Agricultural Best Management Practices (BMP's)
3:02:18 PM Chairman Albritton ask questions
3:02:33 PM Mr. Hooks answer
3:02:46 PM Senator Gainer questions
3:02:55 PM Mr. Hooks answer
3:04:28 PM Senator Gainer ask another question
3:05:18 PM Chairman Albritton ask a question alone with Senator Gainers' question
3:05:29 PM Mr. Hooks answer
3:05:51 PM Senator Gainer ask another question
3:05:58 PM Mr. Hooks answer
3:06:09 PM Chairman Albritton make statement
3:06:18 PM Senator Gainer speaking
3:06:33 PM Mr. Hooks speaking
3:08:00 PM Chairman Albritton speaking
3:08:09 PM Senator Gainer speaking
3:08:46 PM Mr. Hooks speaking
3:09:11 PM Senator Gainer speaking
3:09:17 PM Chairman Albritton speaking
3:09:51 PM Senator Montford speaking
3:10:25 PM Mr. Hooks speaking
3:11:02 PM Senator Montford speaking
3:11:35 PM Mr. Hooks speaking
3:12:03 PM Senator Montford speaking
3:12:08 PM Mr. Hooks speaking
3:13:20 PM Chairman Albritton ask was there any more questions making good BMP's saves money.
3:14:10 PM TAB 2 Discussion on the Impacts of Hurricane Michael on Florida Agriculture
3:14:19 PM Senator Montford ask a question

3:14:26 PM Chairman Albritton answer
3:15:45 PM Dr. Angie Lindsey, Assistant Professor, University of Florida/Institute of Food and Agricultural Sciences Center for Public Issues in Agriculture & Natural Resources
3:26:30 PM Chairman Albritton state he will bring Dr. Lindsey back at another time
3:26:58 PM Dr. Lindsey concluded her presentation.
3:28:45 PM Chairman Albritton thank Dr. Lindsey for her presentation
3:28:51 PM Senator Rader ask a question
3:29:43 PM Chairman Albritton answer question
3:32:16 PM Chairman Albritton thank a panel of members for coming to give us an overview of their Impact by Hurricane Michael on Florida
3:34:25 PM Mr. Cainnon Gregg, Pelican Oyster Co. speaking
3:36:34 PM Mr. Gregg is speaking on Aquaculture
3:37:47 PM Chairman Albritton stated to wait until the end to ask questions.
3:38:22 PM Mr. Tony Hogg, Florida Beekeepers Research Foundation speaking on Beekeepers
3:42:56 PM Mr. Mack Glass, Cherokee Ranch speaking on cattle
3:45:22 PM Ms. Caroline Dauzat, Rex Lumber speaking on timber
3:49:21 PM Mr. John Alter, Alter-Bevis Farm will also be speaking on timber
3:49:36 PM Senator Gainer speaking
3:49:50 PM Ms. Dauzat speaking
3:50:10 PM Ms. Dauzat speaking
3:50:23 PM Mr. John Alter speaking
3:56:32 PM Mr. Jeff Pittman, speaking on Peanuts/Cotton
4:00:24 PM Chairman Albritton stated no further business before this committee Senator Gainer moves we adjourn
4:00:36 PM without objection we are adjourned.