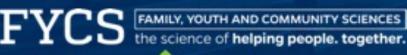


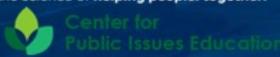
Preparing for the 2019 Hurricane Season: Applying Lessons from Hurricanes Irma and Michael

FOR THE

#GATORGOOD

Angie B. Lindsey









In Our Time Together

- UF/IFAS Extension
- EDEN
- Background
 - Irma
 - Michael
- Lessons Learned
- Moving to Best Management Practices (BMP)
- Resources & Moving Forward



UF/IFAS Extension

- Administered by University of Florida Institute of Food and Agricultural Sciences
- Offices in each of Florida's 67 counties and Seminole Tribe
- Programs Include agriculture production, water, natural resources & environment, energy, youth development, community development, family & consumer sciences
 - Supported by thousands of faculty members, scientists, educators, administrative staff, and volunteers

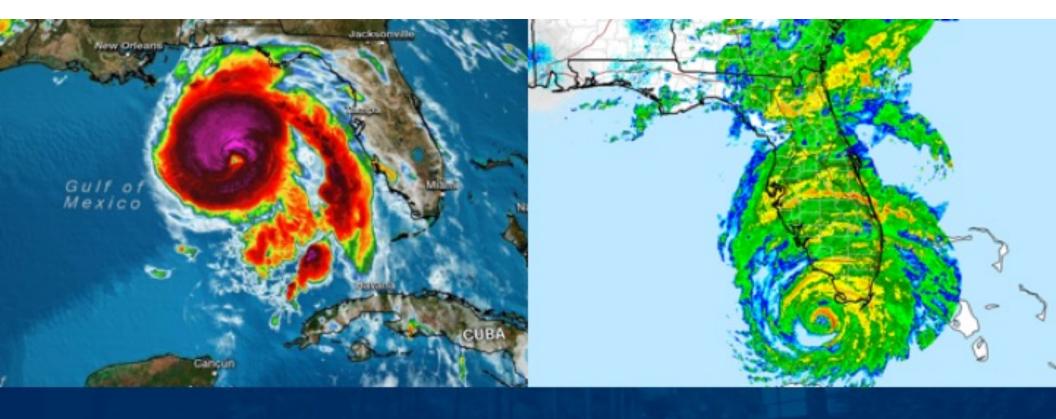


What is EDEN?



- Extension Disaster Education Network
- A Network
- Developed from lessons learned from 1993
 Midwest Floods
- Mission: To reduce the impact of disasters through research-based education
 - Linking w/federal, state & local agencies/orgs
 - Anticipating future disaster education needs
 - Providing timely, credible info.
 - Networking





Background





Hurricane IRMA

- Landfall twice on 9/10/2017
- Category 4 Hurricane Keys; Category 3 at Marco Island
- Measured wind speeds 120-142 mph
- Second most powerful storm in velocity & duration
- Hurricane winds covered 80 miles; tropical storm winds 400 miles
- 32 of Florida's rivers and creeks flooded
- 18 tornados
- 7,000 shelters
- 54 counties ordered evacuation orders (6.5 million evacuated)
- 6.7 million homes w/out power (64% of state)
- 84 related deaths
- \$60 Billion in costs one of costliest storms in country

IFAS Extension Efforts Pre, During, and Post IRMA



Information, information, information



Working in Emergency Operations Centers (EOC) and assisting with community needs



Emergency Support Function (ESF) #17 & working with state and county governments



Daily phone calls with IFAS Leadership Team



Meeting needs for info./supplies/etc. at County Extension offices



Providing support for County Faculty and communities



Development of GroupMe text for Extension family



Needs/Gaps form for areas



Agriculture & Natural Resources Assessments and Reporting











Hurricane Michael

- Made landfall on October 10, 2018
- Mexico Beach, FL (east of Panama City)
- Maximum sustained winds of 160 mph
- Strongest hurricane on record to make landfall in FL Panhandle
- 4th most powerful hurricane to hit US
- Damage from wind and storm surge
- Recently upgraded to a Category 5 Hurricane
- 43 Deaths









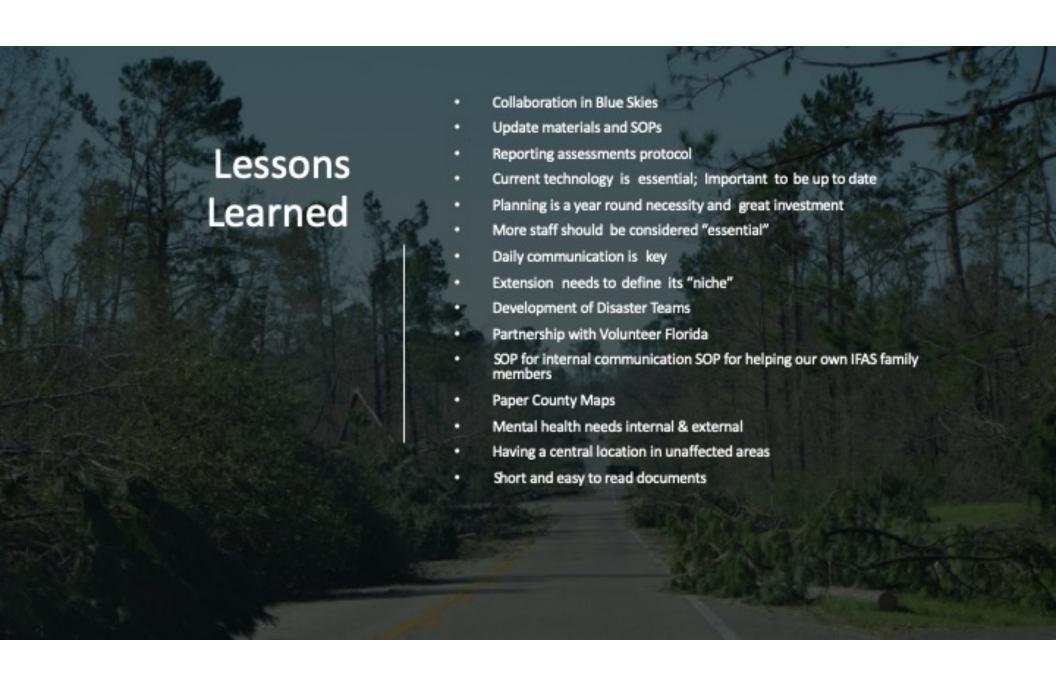






UF/IFAS Work

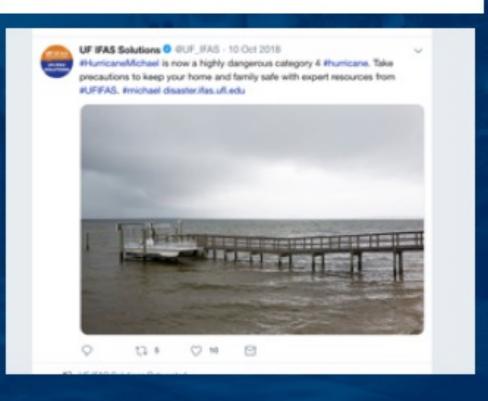
- Personally Impacted 84 Faculty and Staff & their families across 11 County Extension Offices
- Including 2 Research Education Centers (REC) in Marianna and Quincy
- Representative at Emergency Support Function 17 Incident Command Post
- UF/IFAS assisted with State Agriculture Response Team (SART) distribution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

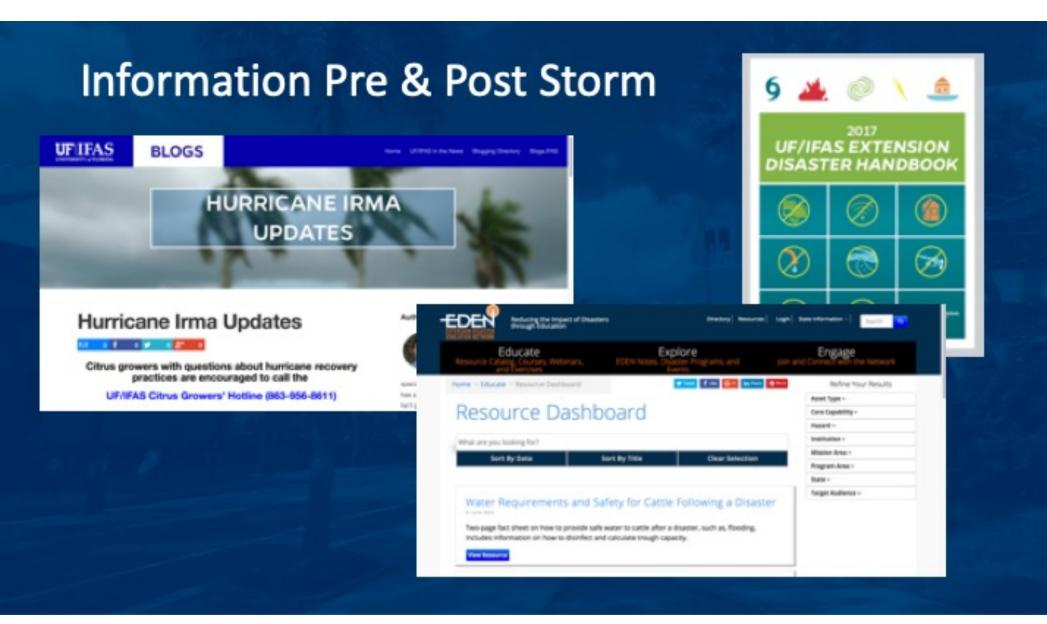














Best Management Practices – Methods or techniques found to be the most effective and practical means in achieving an objective (such as preventing or minimizing pollution) while making the optimum use of the firm's resources. (Business Dictionary)

Developing Curriculum, Providing TOOLS, & education to implement Best Management Practices in all counties based upon some of the Lessons Learned

Current FL EDEN Initiatives "In The Works"



Development of Continuation of Operations Plans (COOP) at state, district, and county levels



Mental Health First Aid Trainings throughout the state for Extension faculty & staff and public



Development and updating of tools for Extension faculty and staff



Research to determine how to best help Extension faculty & staff and communities



Development of reporting/assessments best management practices



Collaborate with state & county emergency management & other community partners



Disaster Response & Recovery Membal Wealth First Aid Training

This training was designed to provide emergency responders, UF/IFAS extension agents, Florida State Agricultural Response Team (SART) team members and partners, first and direct Responders, Florida Department of Agriculture & Consumer Services (PDACS) employees and community members who are active in natural disasters with the skills needed to address mental health needs and issues following disasters. The aim is to create mental health awareness and encourage proactive and informed decision making in individuals before, during, and after disasters. Seven total trainings will be held throughout Florida.

Marion County April 23-24
Osceola County April 30-May 1
Pinellas County June 4-5
Charlotte County June 19-20
More trainings to come.

Learn more and register at piecenter.com









UF/IFAS Extension Wakulla County COOP

FLORIDA EDEN

All Employees

Les Harrison, CED	Phone Number,	Email
Samantha Kennedy	Phone Number.	Email
Rachel Pienta.	Phone Number,	Email
Sherry Balchuck	Phone Number	Email
Brandy Jones	Phone Number	Email

Leadership Succession

CED: Les Harrison

First Successor: Samantha Kennedy Second Successor: Rachel Plenta Third Successor: Brandy Jones

Essential Functions by Program Area

Agriculture Program Area: Les Harrison

1.ESF-17 Animal Protection

- Maintain/Restore Communication with Ag/Hort. Clientele.
- 3.Conduct Standardized Damage Assessments/Coordinate with USDA FSA

4-H Program Area: Rachel Pienta

Alternate: Les Harrison, Second Alternate: Samantha Kennedy

- Secure/Assess Damage to Project Equipment/Infrastructure in Office, School or Club Locations
- 2.Maintain/Restore Communication with 4-H Clientele
- 3.Coordinate with Volunteer Leaders to re-establish 4-H Activities.

FCS Program Area: Samantha Kennedy

Alternate: Les Harrison, Second Alternate: Rachel Pienta

1.Food & Water Safety

Maintain/Restore Communication with FCS Clientele.

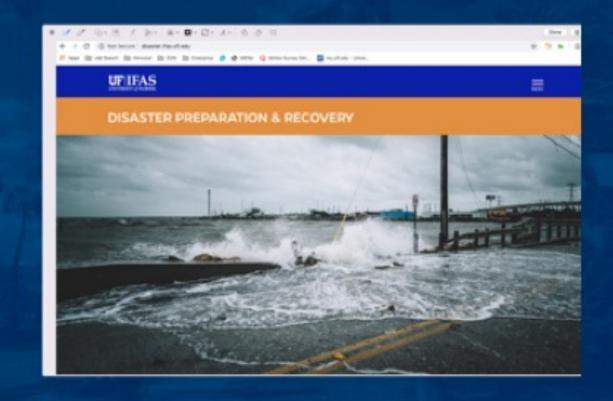
Natural Resources Program Area: Les Harrison

Alternate: Eric Lovestrand, Phone Number

- 1.Coordinate Standardized Damage Assessments/Coordinate with USDA FSA
- Maintain/Restore Communication with Ag/Hort. Clientele.

IFAS Resources

- Local & State
 - Emergency Management
 - Collaborate & Coordinate with county & city EOC & emergency management teams
 - Local Programs & Outreach
 - Local outputs
- IFAS
 - EDIS Electronic Data Info Source (edis.ifas.ufl.edu)
 - Disaster Preparation and Recovery (disaster.ifas.ufl.edu)





External Resources & Tools



- FEMA Independent Study Program
- Center for Disease Control (CDC) Ready.gov
- Nonprofit Organizations Red Cross, Salvation Army, etc.
- EDEN Website
- Land Grant Universities & State Extension
- Local County & Community Resources
- Media

