

The Produce Safety Landscape in the Southern Region

Organized by: USDA National Agricultural Library, Food Safety Research Information Office (FSRIO)

Moderator: Zeynep Diker, USDA National Agricultural Library (NAL), FSRIO

Sponsored by the



Please consider making a contribution





Webinar Housekeeping

- It is important to note that all opinions and statements are those of the individual making the presentation and not necessarily the opinion or view of IAFP.
- All attendees are muted. Questions should be submitted to the presenters during the presentation via the Questions section at the right of the screen. Questions will be answered at the end of the presentations.
- This webinar is being recorded and will be available for access by IAFP members at www.foodprotection.org within one week.





Zeynep Diker, MLIS Metadata Librarian USDA National Agricultural Library (NAL), FSRIO

Zeynep Diker is a metadata librarian at the USDA, National Agricultural Library (NAL) within the Nutrition and Food Safety information centers. She joined NAL in 2019 while pursing her master's degree in Library and Information Science from the University of Maryland (UMD), College Park. She served as an iFellows student with a specialization in information management. Before NAL, Ms. Diker was a student researcher at the National Archives and NASA. She was also an archives intern at the Chevy Chase Historical Society, and worked at the UMD Libraries' Special Collections division. Zeynep provides library services, data analytics, and supports the automation services for the Food Safety Research Information Office by monitoring the dissemination of Food Safety Research publications feeds, overseeing the updates to the Research Projects Database, and managing content on the FSRIO website.



Dawanna James-Holly, PhD
Technical Information Specialist
USDA National Agricultural Library (NAL), FSRIO

Dr. James has over 18 years of experience administering federal government programs as a grant's administrator for USDA competitive and capacity grant programs. She has led work in nutrition policy as a public health nutrition advisor, grant writer, grant project director and program manager of the federal Child Nutrition programs throughout Washington, DC. Dr. James is a two term USDA Team Nutrition Grant Program as the Project Director, and formerly USDA SNAP-ED Coordinator in the District of Columbia. At the US Department of Agriculture, she administered the USDA NIFA AFRI competitive grant programs for 6 years across the institute of food safety and nutrition as a program specialist. There she led the Food Safety Outreach Program (FSOP) in partnership with FDA on the implementation of the FSMA regulation. The FSOP program at NIFA was focused on small farmers, processors and producers and fresh fruit/vegetable merchant wholesalers. At USDA NAL she serves as the science content manager for the Food Safety Research <u>Information Office (FSRIO)</u> across its key databases and webpages. At NAL, she ensures all resources are 508 compliant and appropriate for food scientists in academia, government, and the private sector, both nationally and internationally. She also authors a monthly gov delivery publication reaching over 31K subscribers of the NAL Food Safety and News Listserv. In addition, she manages the Food Safety Working group in partnership with ARS national program 108, USDA NIFA representatives, and USDA FSIS's science liaison. Dr. James has had a robust career in Agricultural Research, Extension and Education.



Michelle Danyluk, PhD
Professor Food Science
University of Florida, IFAS Citrus Research and Education Center

Dr. Danyluk is a Professor and Extension Specialist of Food Safety and Microbiology in the Department of Food Science and Human Nutrition at the University of Florida (UF). Dr. Danyluk is situated at the Citrus Research and Education Center in Lake Alfred, Florida. Her primary research focuses on bacterial pathogens in produce, including production, packing, and processing environments, its movement and mitigation within these environments, and the subsequent implications for public health. Dr. Danyluk serves as the lead for the USDA-funded Southern Center for FSMA Training, a consortium of collaborators in 13 southern states, one territory, and with three non-governmental organizations.

During her academic career at UF, Dr. Danyluk has served on numerous college, department, and center committees. She received the UF Institute of Food and Agricultural Sciences Richard Jones Outstanding New Faculty Research Award in 2011; an Excellence Award for Assistant Professors in 2013; a Research Foundation Professorship Award in 2015; and a Term Professorship Award in 2019. She was elected a member of the International Commission on Microbiological Specifications for Food (ICMSF) in 2016, where she currently serves as treasurer.

As a 20-year IAFP Member, Dr. Danyluk has organized, convened, and presented several IAFP symposia at numerous IAFP Annual Meetings and actively participates in PDGs and on various Committees. She received the President's Recognition Award in 2019, 2017, 2013, and 2011, the Larry Beuchat Young Researcher Award in 2010, and the IAFP Developing Scientist Award in 2005. She currently serves as the Board Liaison on the IAFP Program Committee for both the Annual Meeting (having also served from 2017–2019) and on the IAFP European Food Safety Symposium. Dr. Danyluk served on the *Journal of Food Protection (JFP)* Management Committee from 2011–2013 and from 2019–2022. She also served on the *Food Protection Trends (FPT)* Editorial Board from 2009–2014 and on the *FPT* Management Committee from 2009–2013. She is an active member of the IAFP Affiliate, the Florida Association for Food Protection, serving on its board from 2009–2017, and as President in 2011. She is the outgoing President elect for the 2022 IAFP Board of Directors.



Kristin Woods, PhD Regional Extension Agent, Alabama Cooperative Extension System Auburn University

Since 2003, Dr. Kristin Woods has served in Extension roles focused on community education and economic development in the area of food safety and food systems. Her primary area of emphasis has been taking a holistic approach to the development of farming and food businesses in Alabama. She specializes in helping small farmers co-manage conservation and food safety requirements while creating a financially sustainable business. Kristin is a Produce Safety Alliance Trainer-of Trainers and has taught Better Process Control School, Seafood HACCP, School (CNP) HACCP, Fruit and Vegetable HACCP, and ServSafe®. Prior to her Extension experience, Kristin spent five years in the food industry working in process development, quality, and management. She embraces a lifelong love of agriculture and currently owns and operates a small diversified farm in Southwest Alabama.



Food Safety Research Information Office Food Safety Research Insights



USDA National Agricultural Library (NAL)



Introduction

United States
Department of
Agriculture
1862

National Agricultural Library 1862 Agricultural Research Service 1953 Food Safety Research Information Office (FSRIO) 1998



Food Safety Research Information Office

- History
- Mission
- Audience

Content Highlights



FSRIO Working Group

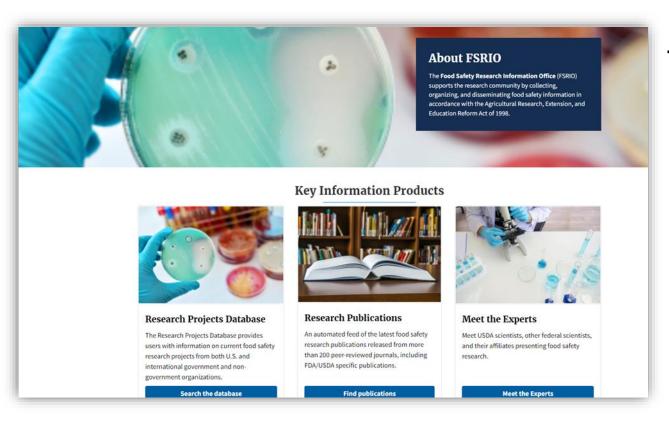


 Partners with the Agricultural Research Service (ARS)
 Food Safety National Programs to support the FSRIO mission.

 Comprised of members with expertise in food safety across USDA



NAL Web Modernization The About FSRIO Webpage

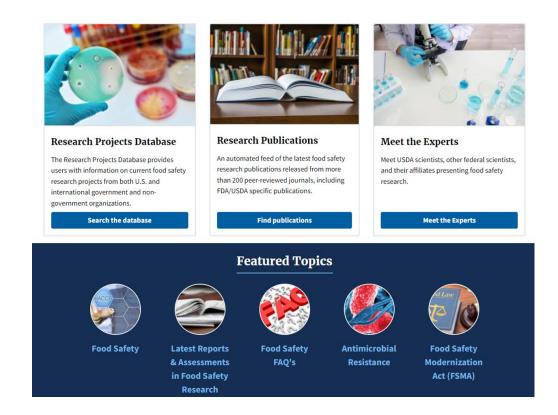


Key Information Products

- Food Safety Research Projects Database
- Food Safety Research Publications Feed
- Meet the Experts Webpage



NAL Web Modernization The About FSRIO Webpage

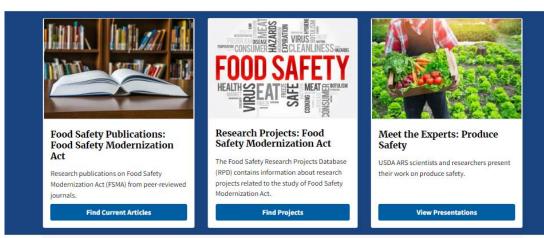


Featured Topics

- Customized topics created in partnership with the FSRIO Working Group
- Latest Reports and Assessments resources (e.g. Grey literature)
- Special featured topics ie.
 Antimicrobial Resistance, and the Food Safety Modernization Act



Food Safety Topics





Provides resources and information across 5 key topic areas:

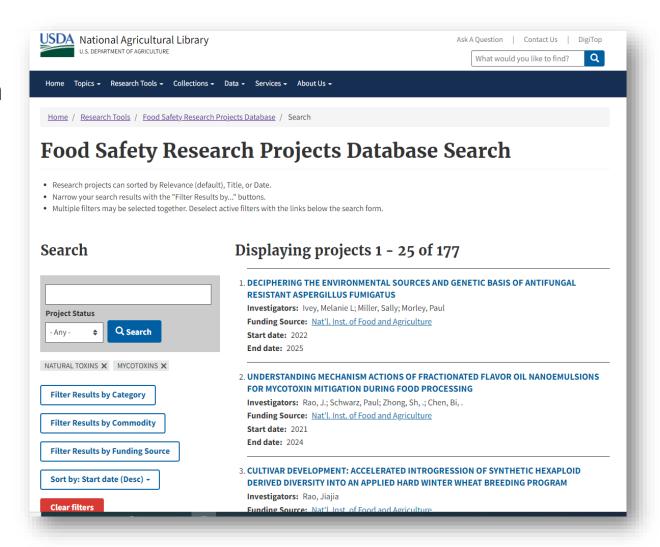
- Antimicrobial Resistance
- Bacterial Pathogens, Viruses, and Foodborne Illness
- Chemical Contaminants
- Natural Toxins
- Food Safety Standards



Food Safety Research Projects Database

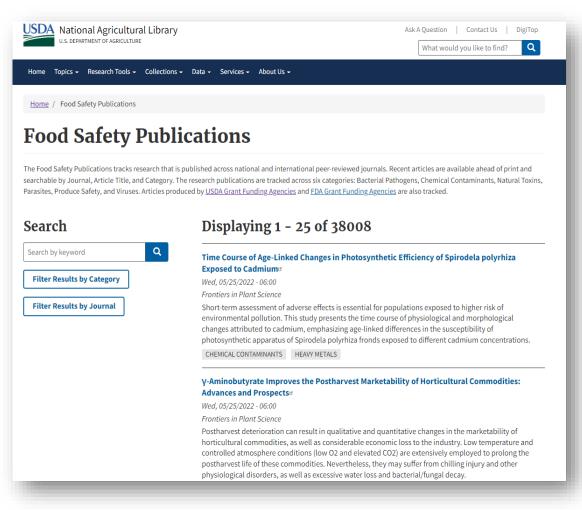
- Browse food safety categories, commodities, and funding sources from the homepage.
- Dynamic filtering in advance search; choose any combination of categories, food types, and funding agencies.
- Sort by relevance, date, or title.

https://www.nal.usda.gov/research-tools/food-safety-research-projects





Food Safety Research Publications



- Provides ready access to the latest food safety research publications, including ahead of print.
- Tracks 200+ journals
- Publications generated are grouped by:
 - ✓ Journal
 - ✓ Subject

Learn more at:

https://www.nal.usda.gov/human-nutrition-food-safety/food-safety-publications



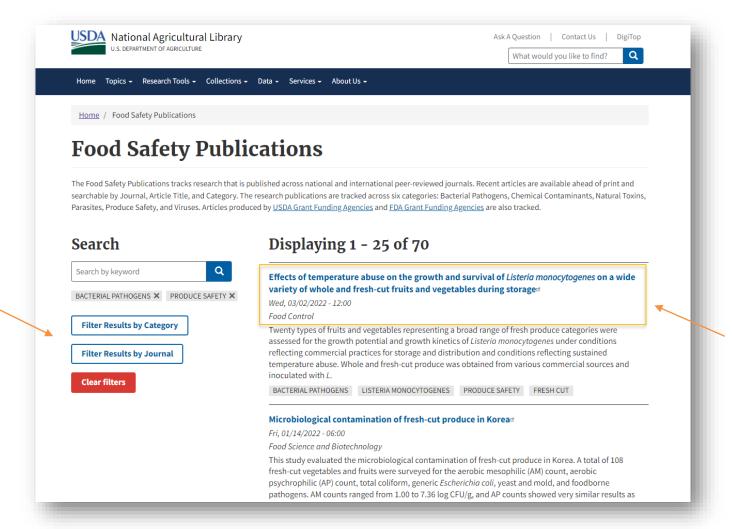
Quick links to:

category or

journal title

Filter results by

Research Publications Feed

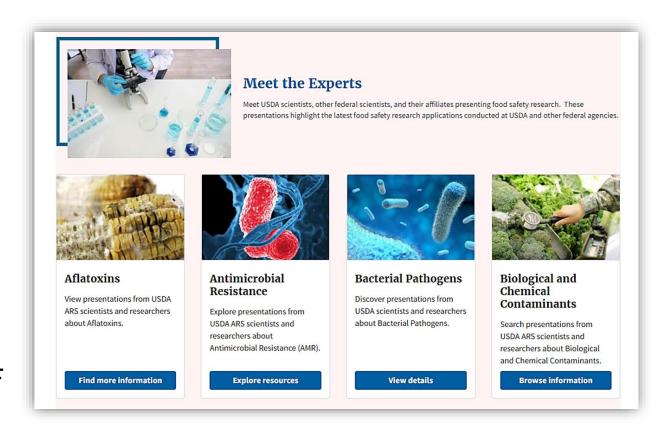


See most recent publications on the homepage, including ahead of print



Meet the Experts

- Features videos and presentations about food safety research conducted at USDA
- Adding content on trending food safety topics
 - Mycotoxins
 - Produce safety
 - Antimicrobial resistance
 - Bacterial pathogens.
- Currently tracking USDA research, future expansion to include FDA, NIH, CDC, and NSF



https://www.nal.usda.gov/legacy/fsrio/experts



Meet the Experts

Scientist Videos Cold Plasma as a Novel How Does Salmonella become Antimicrobial Intervention Antibiotic Resistant Investigator: Brendan Niemira, PhD Investigator: Jonathan Frye, PhD Institution: Agricultural Research Service Institution: Agricultural Research Service Rapid inactivation of Taxoplasma Innovative materials for use in Mycotoxin detection gondibradyzoites in dry cured sausage Investigator: Chris Maragos, PhD Institution: Agricultural Research Service John Luchansky, PhD; Anna Porto-Fett, PhD Institution: Agricultural Research Service

- Presentations and videos
- Topics include:
 - Aflatoxins
 - Antimicrobial Resistance
 - Biological and Chemical Contaminants
 - Viruses and Prions
 - Produce Safety
 - Scientist videos



Meet the Experts

- Scientist videos covering emerging topics in food safety
- Related content is linked where applicable:
 - Investigator Name
 - Institution
 - Publications
 - Presentations

https://www.nal.usda.gov/fsrio/experts/stec-biofilms-within-microbial-communities-food



Investigator Vijay Juneja, PhD Institution: Agricultural Research Service Related Publications:

https://www.nal.usda.gov/legacy/fsrio/experts/detection-and-fate-chemical-and-biological-residues-food-and-environmental-systems

NAL Web Modernization Meet the Experts (MTE) Webpage



Meet the Experts

Meet USDA scientists, other federal scientists, and their affiliates presenting food safety research. These presentations highlight the latest food safety research applications conducted at USDA and other federal agencies.



Aflatoxins

View presentations from USDA ARS scientists and researchers about Aflatoxins.

Find more information



Antimicrobial Resistance

Explore presentations from USDA ARS scientists and researchers about Antimicrobial Resistance (AMR).

Explore resources



Bacterial Pathogens

Discover presentations from USDA scientists and researchers about Bacterial Pathogens.

View details



Biological and Chemical Contaminants

Search presentations from USDA ARS scientists and researchers about Biological and Chemical Contaminants.

Browse information

Latest Reports and Assessments

- Recent Findings
- Scientific Reviews
- Guidance Documents
- Action Plans
- Science Blueprints

https://www.nal.usda.gov/fsrio/latest-reports-and-assessments-0



Latest Reports and Assessments

Newly released reports and other grey literature from authoritative organizations containing recent findings, scientific reviews, guidance, and other food safety research information.

Agency Abbreviations List

CDC - Centers for Disease Control and Prevention

EFSA- European Food Safety Authority

GAO - Government Accountability Office

HHS-US Department of Health & Human Services

NARMS- National Antimicrobial Resistance

Monitoring Systems

EC - European Commission

FDA - Food and Drug Administration

IFSAC- Interagency Food Safety Analytics Collaboration

UCAR- University Corporation for Atmospheric Research

USDA- US Department of Agriculture



Reports and assessments created in the 2020s

Reports and assessments published or updated during the years 2020 - 2029.

Find More Information



Reports and assessments created in the 2010s

This section contains reports and assessments published or updated during the years 2010 - 2019.

Search New Resources



Reports and assessments created in the 2000s

Historical reports and assessments that were published during the years 2000 - 2009.

Get more information

NAL Web Modernization Latest Reports & Assessments Webpage



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Newly released reports and other grey literature from authoritative organizations containing recent findings, scientific reviews, guidance, and other food safety research information.

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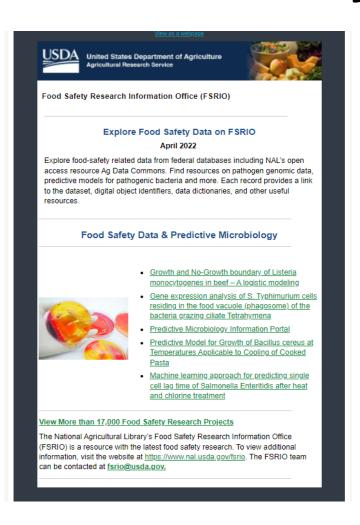
Reports and assessments created in the 2000s

Historical reports and assessments that were published during the years 2000 - 2009.

Get more information



FSRIO Monthly Gov Delivery Bulletins



- 31K Subscribers
- Featured topics: Mycotoxin Research, Predictive Microbiology, Produce Safety, etc.
- To join, go to the NAL <u>Food</u> <u>Safety News & Information</u> <u>Listserv</u>

NAL Customer Service Unit

- Ask a Question Service
- Chat and Email
- Training for NAL Resources
- Research using Collection Materials
- Special Collections and Rare Books
- Literature Search and Evidence Synthesis
- Scientific Integrity and Impact



NAL Literature and Evidence-Based Reviews

- Clarify the research question(s)
- Recommend databases
- Narrow key terms and concepts
- Design search strategies
- Run searches
- Full-text retrieval
- Set up automated alerts
- Partner on evidence synthesis projects including rapid reviews, scoping reviews, and systematic reviews



AGRICOLA

https://agricola.nal.usda.gov

AGRICOLA database comprehensively covers agricultural literature:

- 5,200,000+ records to as far back as the 15th century
- Print and Electronic Materials from the NAL Collection



AGRICOLA





NAL Thesaurus

https://agclass.nal.usda.gov

- Contains over 265,000 terms, including
 153,000+ descriptors in English and Spanish
- NAL Thesaurus includes hierarchical, equivalents and associate relationships among concepts
- NAL Thesaurus is used to select controlled vocabulary terms for subject indexing of AGRICOLA, PubAg and other databases



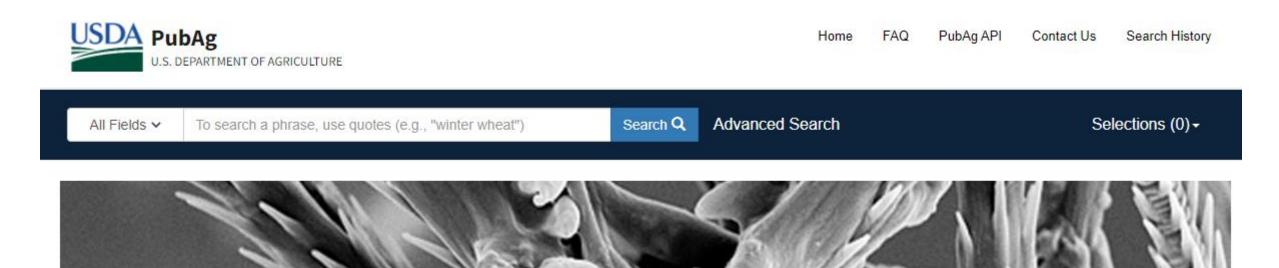
U.S. Department of Agriculture Pomological Watercolor Collection. Rare and Special Collections, National Agricultural Library, Beltsville, MD 20705

PubAg

https://pubag.nal.usda.gov

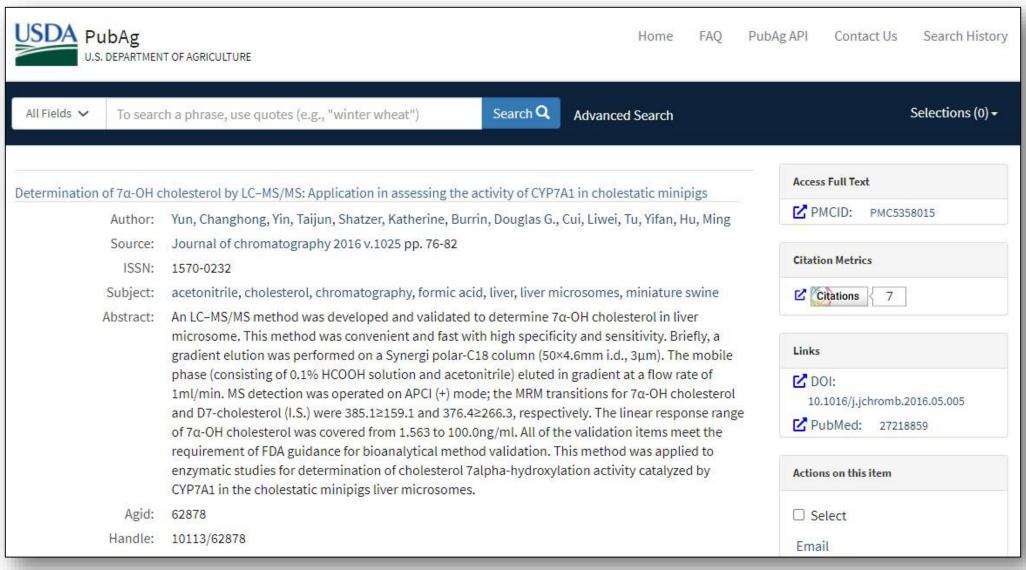
PubAg is a free, searchable database containing links to:

- 300,000+ full-text articles* relevant to the agricultural sciences
- indexed citations to peer-reviewed journal articles in the agricultural sciences



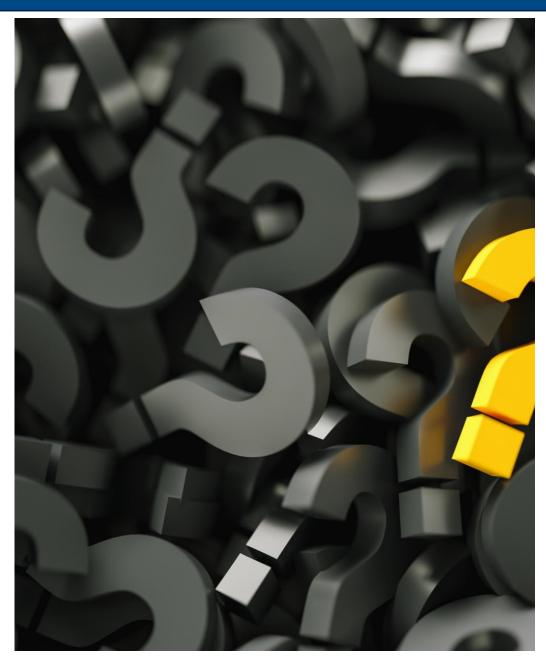


PubAg



PubAg Links to USDA-funded Publications

- Free public access to the best available full-text version of USDA-funded scholarly publications
- Access to full text will occur after at least a 12-month administrative interval.
- Access will be provided earlier when the publisher makes a full-text version available for free



Contact Us!

Dawanna James-Holly, PhD

NAL FSRIO Technical Information Specialist

E-Mail: <u>Dawanna.james-holly@usda.gov</u>

FSRIO Website: https://www.nal.usda.gov/programs/fsrio

Direct questions to the CSU team at:

https://www.nal.usda.gov/ask-question



A Snapshot of Produce Farming in the South and the Southern Center for FSMA training

Michelle Danyluk mddanyluk@ufl.edu

Email: southerncenter@ifas.ufl.edu

https://sc.ifas.ufl.edu/

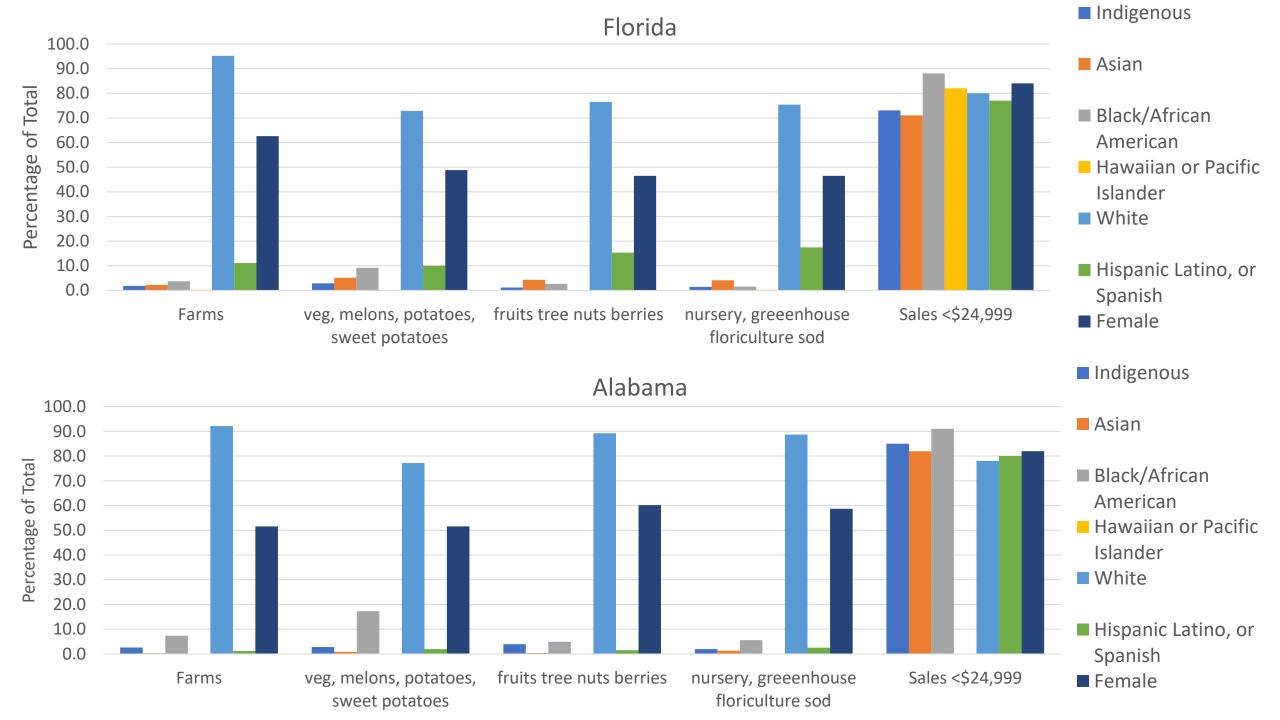
Twitter: @southern_center

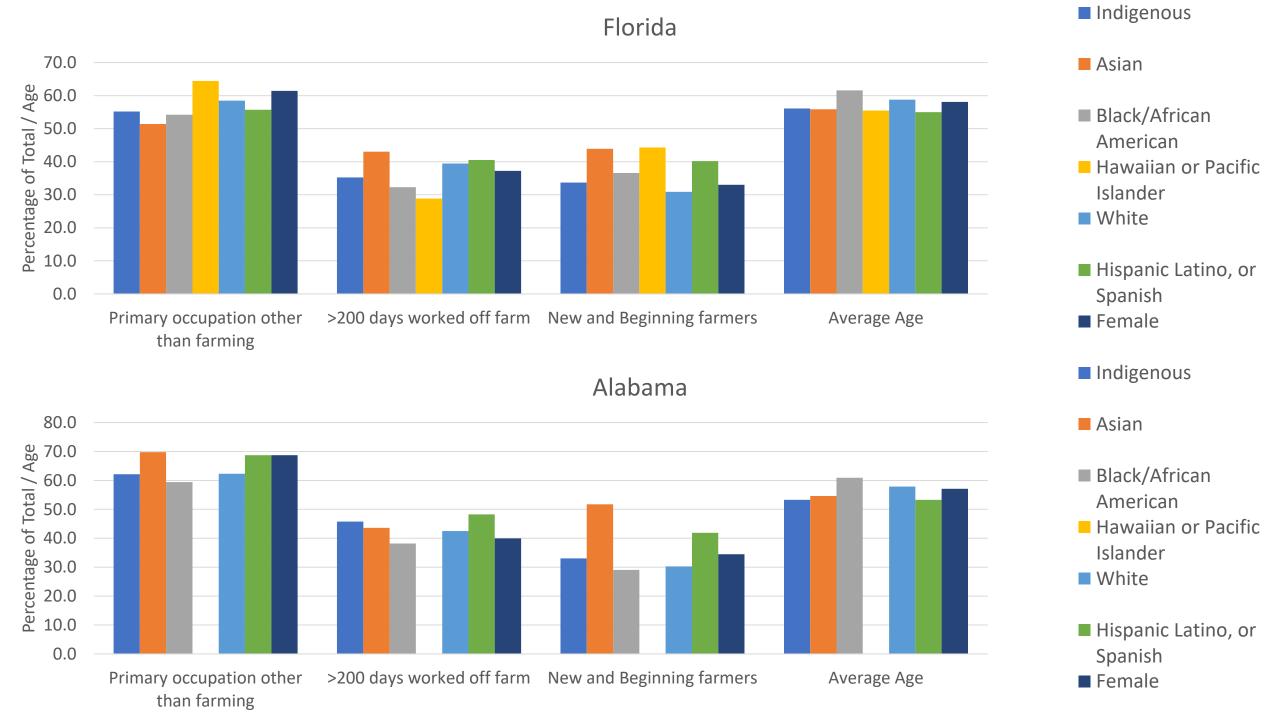
Snapshot of Farming Demographics – 2017 Census of Agriculture

FLORIDA ALABAMA

Farms	47,590	Farms	40,592
 Veg, melons, potatoes, sweet potatoes (4.5%) 	2,138	 Veg, melons, potatoes, sweet potatoes (3.9%) 	1,583
Fruits, tree nuts, berries (17%)	8,112	Fruits, tree nuts, berries (3.8%)	1,525
 Nursery, greenhouse, floriculture, sod (11%) 	5,247	 Nursery, greenhouse, floriculture, sod (1.5%) 	629
Producers (for all crops)	86,769	Producers (for all crops)	65,924
Producers (for all crops) • Primary occupation not farming (58%)	86,769 50,313	Producers (for all crops) • Primary occupation not farming (62.2%)	65,924 40,922
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- Three other regional centers exist the Western, North Central, and Northeastern
- They are all funded by the USDA NIFA through the FSOP project
- They are coordinated by the Lead Regional Coordination Center housed at the Southern Center



Objectives

The third iteration of the Southern Center objectives :

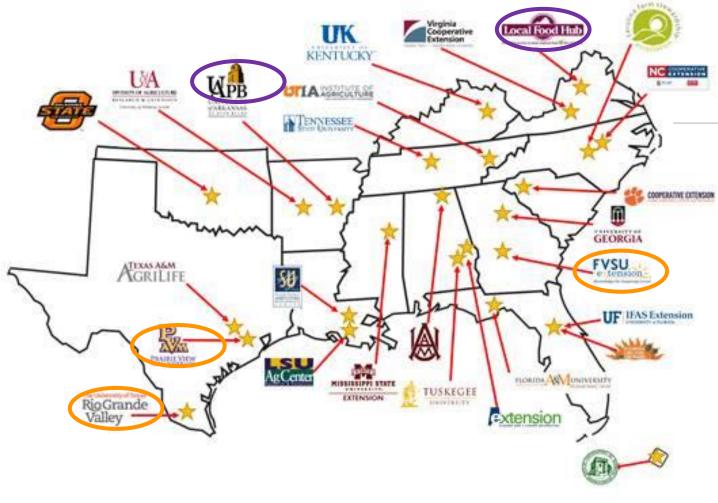
- 1. Develop, mentor, support, and offer continuing educational opportunities to a cadre of PSA trainers and lead trainers and FSPCA Lead Instructors within the Southern US supporting the regulated industry.
- 2. Develop, improve, review, and share best practices approaches for food safety training curricula (including alternative and modified curricula, add-ons, and supplemental), to ensure consistency with FSMA rules.
- 3. Coordinate a regional communication strategy to discuss ongoing efforts and best practices for FSMA-related training, and education within the southern US.
- 4. Evaluate the impact of the SC education and training through ongoing program assessments.
- Note that this round very specifically addresses produce safety training needs for underserved communities and stakeholders.





Southern Center Co-Partners

- PI-Keith Schneider
 - o Past PI-Michelle Danyluk
 - Program Specialist-Peggy Geren
- 26 Partner Institutions
 - 23 Universities and 3 NGOs
 - o One or two co-PIs from each institution
- Responsible for sending back evaluation data to Dr.
 Amy Harder and Dr. Matt Benge (coversheet, pre-/post-test scores, basic attendee information sheet)
- Work with both partners and other stakeholder groups



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Southern Region Integrated Produce Safety Conference







October 5–8, 2020 12 pm – 5 pm daily Zoom https://sc.ifas.ufl.edu

Southern Region Integrated Produce Safety Conference

JOIN US FOR A VIRTUAL SRIPS CONFERENCE OCTOBER 5-8, 2020.

From 12-5PM ET on October 5-8, 2020 join us to:

- Hear the importance, perspectives, and roles in Food Safety and the PSR from a Indigenous Food and Agriculture Initiative
- Historically Black Colleges and Universities and Hispanic-serving Institutions
 Rivers
- Non-governmental Organizations and Community-based Organizations
 Discuss best practices for inspections and food safety during COVID-19
- Learn the latest information, educational content, and best practices on
 Biological Soil Amendments
- Cleaning and Sanitizing
- □ Water
- Listen to typical inspection experiences from regulators and growers
- Participate in poster sessions and networking
- Get the latest updates from
 Southern Center
- PSA
- FDA-PSN ○ AFDO
- NASDA
- Southern State Departments of Agriculture

Register* (FREE!) Here: https://bit.ly/SRIPS2020

*registration priority ones to attendens from the southern region







October 5-8, 2020 | 12 pm - 5 pm



Project Outcomes

- Southern Center Meetings
 - Semi-Annual Check-In and Annual Meeting
 - Southern Region Integrated Produce Safety Conference
 - Included perspectives from the IFAI, HBCUs and HSIs, Buyers, NGOs, and CBOs
 - Regulatory updates from federal and state agencies
 - Educational Content
- Bridging the GAPs: Approaches for Treating Irrigation Water On-Farm
- Continuation of offering PSA and FSPCA courses by SC Partners either remote or in-person
- Produce Safety Alliance Train-the-Trainer May 2022, FL
 - Tentative PSA TTT October 2022, GA



Produce Safety Alliance Southeastern Region Grower Training Knowledge Assessment

Mari Schroeder, Alan Gutierrez, Amy Harder, Kate Shoulders, Kristin Woods, Amanda Philyaw Perez, Laurel L. Dunn, Christopher Gunter, Lynette Johnston, Elena Rogers, Chip Simmons, Paul Priyesh Vijayakumar, Casey Newcomb, Chad Carter, Thomas M. Taylor, Alejandro Castillo, Juan Anciso, Joseph Masabni, Laura K. Strawn, Amber Vallotton, Michelle D. Danyluk, and Keith R. Schneider.

Effectiveness was based on a 25-question knowledge assessment administered to participants before (n = 2,522) and after (n = 2,490) each training.

The knowledge assessment indicated an overall effectiveness of the training as average scores increased significantly from pre-test (15.91 of 25, 63.6%) to post-test (20.30 of 25, 81.2%) (P < 0.001).

The modules that showed the greatest knowledge gains were Postharvest Handling and Sanitation, How to Develop a Farm Food Safety Plan, and Agricultural Water.



A Trainees' Three Month Follow-up Adoption of New or Different Practices (n=49).

Added new or modified existing on-farm infrastructure (such as irrigation systems) or

equipment (such as washing equipment, vehicles, etc.) in order to improve food safety

Actions taken since participating in the training:	n	Yes (<i>n</i>)	No (<i>n</i>)	N/A (<i>n</i>)
Did you begin to write or modify farm food safety plans?	41	27	7	7
Did you create or modify food safety record-keeping systems?	44	29	7	8
Implement new or different trainings for employees on food safety/hygiene protocols?	42	19	5	18
Implement new or different practices for monitoring on-farm facilities	42	27	6	9
Implement new or different practices for the handling of biological soil amendments of animal origin	45	22	6	17
Implement new or different strategies to reduce the risk of contamination from wildlife or domesticated animals	36	17	12	7
Implement new or different testing of agricultural water for generic E. coli	43	14	14	15
Implement new or different methods for cleaning or sanitizing food contact surfaces	41	29	4	8
Implement new or different pest control systems	37	12	16	9
Implement new or different methods for transportation of produce	40	13	14	13
Implement new or different traceability systems	41	8	22	11
Implement any other new or different methods related to produce safety (other than above)	48	18	30	-

49

21

28

SAVE THE DATE

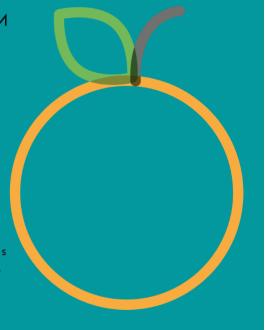
MAY 25-26, 2022

FOOD SAFETY OUTREACH PROGRAM PROJECT DIRECTORS MEETING

WYNDHAM LAKE BUENA VISTA ORLANDO, FL

Hosted by the USDA-NIFA Regional Centers, join other FSOP project directors for a 1.5 day conference. Project directors will submit an abstract with opportunities for in-person posters and speaking. Abstracts will be linked through Clearinghouse project pages.

QUESTIONS: K.STULL@UFL.EDU



Food Safety
Outreach
Program National
Project Directors
Meeting

Watch for the next one in 2024!



Questions?

southerncenter@ifas.ufl.edu

This work is supported by the Food Safety Outreach Program grant no. 2018-70020-28930 and grant no. 2021-70020-35740 from the USDA National Institute of Food and Agriculture.

Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.



Coordination Center



Experiential Learning Opportunities for Limited Resource Growers through Mobile Farm Innovation in Mississippi, Alabama, and Georgia

Kristin Woods, Ph.D.
Alabama Cooperative
Extension System



United States
Department of
Agriculture

National Institute of Food and Agriculture

This work is supported by Food Safety Outreach Program [grant no. 2019-70020-30349] from the USDA National Institute of Food and Agriculture











Small Farm Irrigation
Factsheet and Video Series

Experiential Learning Guide

Whole Farm
Planning Technical
Assistance Guide





Cooperative Agreement with FDA









USDA AMS FMLFPP Funded



USDA NIFA FSOP Funded





Farm Innovation Project Objectives

- Design and construct three Mobile Farm Innovation trailers to meet the learning needs of limited resource growers with small acreage
- Develop and implement a multimodal and modular training program that balances food safety and conservation needs
- Conduct outreach in Mississippi, Alabama, and Georgia
- Evaluate the program









Farm Innovation Trailers



 The trailers are wrapped in photographs and text depicting safe water use, hygiene practices, vegetative buffers, and safe rotational grazing.

 The inside of the trailer has been modified with cabinets, electrical outlets, and additional space to hold experiential learning activities.



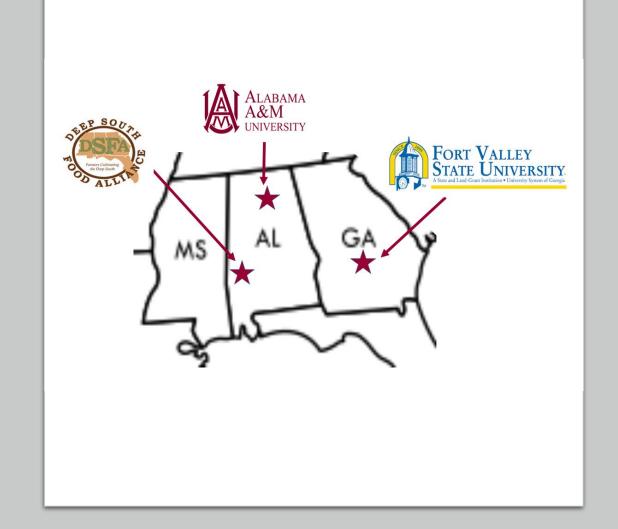




Farm Innovation Project Trailers

The trailers have been deployed to:

- Deep South Food Alliance in Linden, AL
- Alabama A&M University Small Farms Research Center in Normal, AL
- Fort Valley State University in Valdosta, GA









Building a Handwashing Station







Cleaning and Sanitizing









extension

ALABAMA A&M & AUBURN UNIVERSITIES

CoolBot Cold Storage

Farm Innovation Outputs

15 Factsheets and Facilitator Guides:

- On-Farm Handwashing Station
- CoolBot & Cold Storage
- Cleaning and Sanitizing
- Choosing a Sanitizer
- Water Sampling
- Google Maps
- Rotational Grazing
- Vegetative Buffers







Farm Innovation Outputs

7 Educational Screencasts:

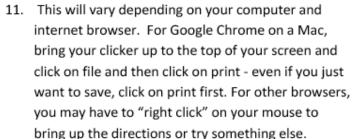
- Google Maps
- Produce Safety Alliance Required Records Document
- K-State Exemption Worksheet
- Alabama Extension Farming Basics
- National Food Safety Clearinghouse
- Vermont Peer-to-Peer Portal
- Produce Safety Alliance Sanitizer Tool

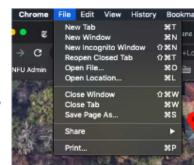
 Click on the "satellite" button on the bottom left of the screen. This should change your view to satellite view,





giving you a birds eye view of your farm and the surrounding area.





12. This will give you a couple of options, some of these may not be on every computer. You should be able to print and save as a PDF. We're going to "Save as PDF." Again, this may vary depending on your computer and browser.



Farm Innovation Outputs

4 Short Videos:

- Vegetative Buffers
- Rotational Grazing
- Irrigation
- Biodiversity















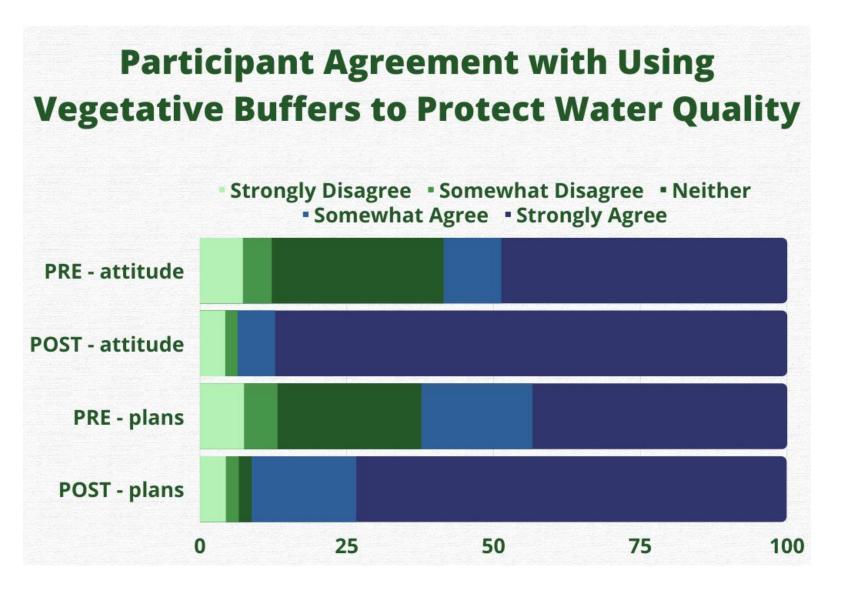




Farm Innovation Project Outreach

- Pilot event in Okolona, MS in December 2021
- Okolona, Prentis, & Mt. Olive, MS
- Valdosta, Gullah, & Waycross, GA
- 2021 & 2022 Tuskegee Annual Small Farmers Conference in Linden & Selma
- Gees Bend, Birmingham, & Tuskegee,
 AL
- Sunbelt Ag Expo in Moultrie, GA
- Alabama Bee Festival
- Southern Family Farmers Conference in San Marcos, TX

Preliminary Outcomes: Vegetative Buffers

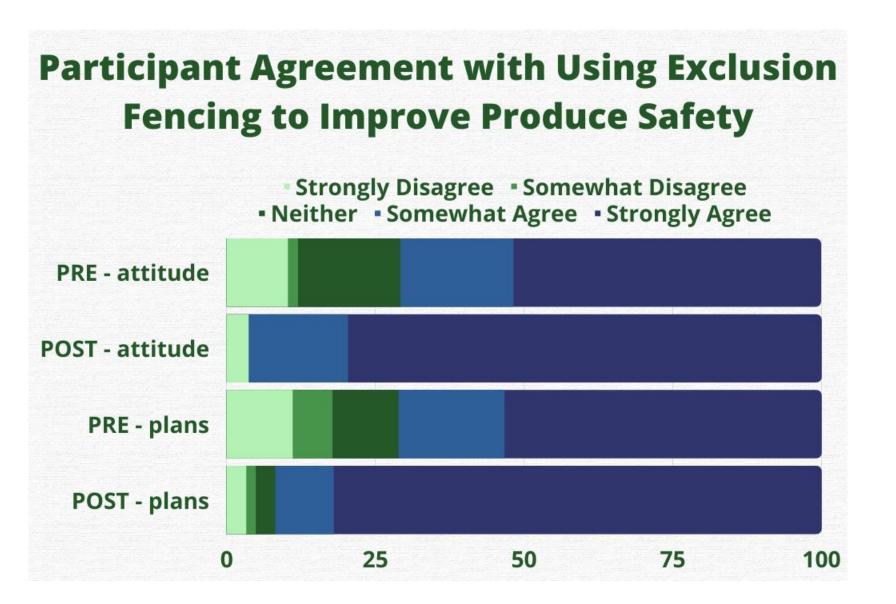


n=41, p=.042

n=53, p=.044



Preliminary Outcomes: Fencing

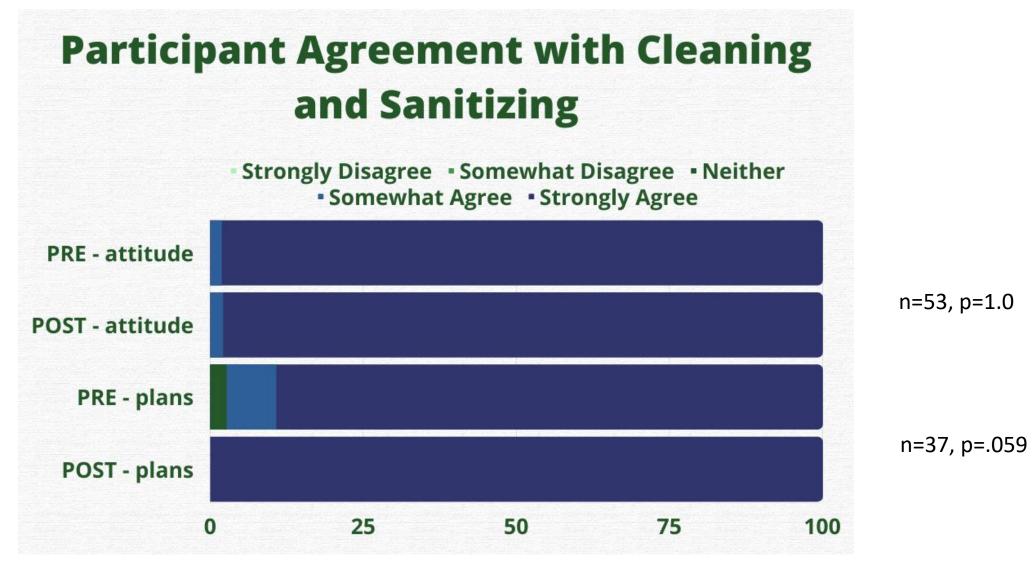


n=58, p=.024

n=45, p=.053

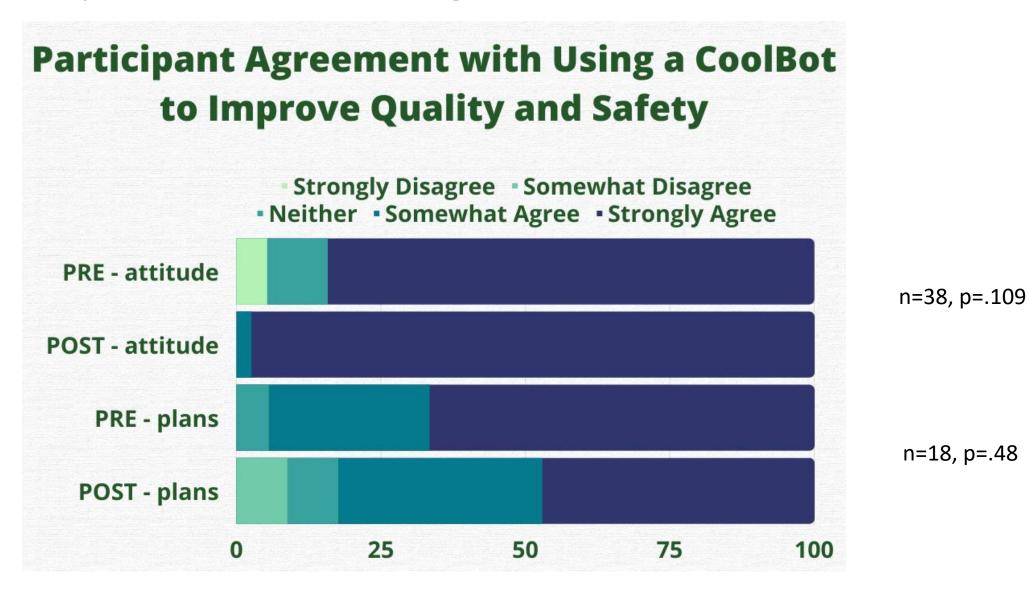


Preliminary Outcomes: Cleaning and Sanitizing





Preliminary Outcomes: Vegetative Buffers



n=18, p=.48



FOCUS GROUPS

Growers would benefit from more teamwork: shared equipment and information sharing (electronic and faceto-face).

Cell service is inconsistent across the region; about ½ of focus group attendees use the internet.

Growers need financial help from USDA and technical assistance to access USDA help.

There is a need for fencing wildlife, especially hogs, out of growing areas.



Key Takeaways:

- Hands-on activities are effective at improving awareness, confidence, and intent to implement key components to safe produce production.
- Even when producers recognize the benefit of a practice, intent to implement may be influenced by other factors.
- The qualitative data collected during follow-up focus groups will elucidate barriers to implementation and emerging needs.



Farm Innovation Project Partners

Collaborators

- Andrew Williams, Deep South Food Alliance (TUCCA)
- E'licia Chaverest, Alabama A&M Small Farms Research Center
- Dr. Valens Niyigena, Darren Beachem, Alabama A&M University
- Joshua Dawson, Fort Valley State University
- Billy Mitchell and Tricia Wancko, National Farmers Union
- David Miller, Tuskegee University
- Dr. Elizabeth Myles, Alcorn State University
- Carolyn Jones, Mississippi Minority Farmers Alliance
- Janice Hall, Amelia Mitchell, Rebecca Catalena, David Daniel, Olivia Fuller, Dr. Camila Rodrigues, Dr. Audrey Gamble, Auburn University

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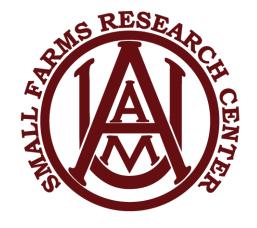
National Institute of Food and Agriculture

More info at aces.edu/farm_innovation















Questions





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