2024 FIELD DAYS

2024 Sunbelt Field Days YouTube Playlist

SCAN THE QR CODES THROUGHOUT THE PACKET TO WATCH VIDEOS THAT GO ALONG WITH THE WRITE-UPS. NOT ALL STOPS HAVE A WRITE-UP OR A VIDEO.

2024 FIELD DAYS

STOP 1 - UGA Weed Science

Contact: Stanley Culpepper, stanley@uga.edu

As family farms work tirelessly providing food, feed, and fiber for the world, the need for cutting edge research to support their sustainability is crucial. At the Sunbelt Expo, nearly 10 acres of land is used by the University of Georgia, working closely with the Expo Field Team, to conduct that much needed research focusing on cotton weed management. Controlling weeds in cotton is extremely challenging because of increasing herbicide resistance issues and regulatory restrictions that threaten the future availability of products such as in-crop dicamba, diuron, Cotoran, and MSMA.

STOP 1

During 2024, research identifying future herbicides to improve the control of Palmer amaranth, annual grasses, morning glory, and spiderwort while also minimizing crop injury and maximizing yield and quality accounts for about 75% of the effort, consisting of 8 different replicated experiments.

An additional 3-acre study evaluating the potential for using WeedOut's (https://www.weedout-ibs.com/) Pollen to create non-viable Palmer amaranth seeds is in its third year of evaluation. Finding and implementing alternatives to herbicides within a systems approach for managing weeds in all crops is essential for long-term sustainability.

STOP 2

STOP 2 - UGA Peanut Team

Contact: Scott Monfort, smonfort@uga.edu

UGA PEANUT TEAM is conducting several trials at the Sunbelt Expo's Darrell Williams Research Farm. The trials are all set up as large plot evaluations similar to how we conduct our

on-farm evaluations. The 2024 research trials include: trial 1 & 2.) At -plant and foliar fertilizers and biological stimulants (Timac Agro, Nachurs); and trial 3-5.) biological stimulants (products from multiple companies). All trials will have crop growth, yield and quality evaluated to determine the effectiveness of these commercially available foliar fertilizers and plant growth stimulants. The results of these research trials will be shared with growers and county agents on the weekly podcasts “All About The Pod” and in crop production meetings next winter.

STOP 3 - R.W. Griffin

Contact: Calvin Meeks, calvin.meeks@rwgriffin.com

RWG TopFlow Peanut Trial

STOP 3

TopFlow is a liming material available to growers exclusively from RW Griffin that has demonstrated superior handling characteristics and performance. It has also demonstrated excellent utility in replacing land plaster as a calcium source for peanuts. This demonstration field contains a replicated study comparing TopFlow vs conventional land plaster as well as untreated check plots. We will be evaluating soil calcium levels from the pegging zone, calcium levels present inside the peanuts, as well as yield and grade at harvest.

2024 FIELD DAYS

STOP 4 - UGA Extension

Contact: Jeremy Kichler, jkichler@uga.edu

2024 Colquitt County on farm demonstrations conducted at the Sunbelt Ag Expo

County agents and Extension specialists provide research-based information to growers, consultants, and industry. One of the challenges to generating data is finding locations to conduct field demonstrations. The Sunbelt Expo has been a great partner over the years to help the Extension and industry generate data for the agricultural community. This year, the Colquitt County Extension has been conducting on-farm demonstrations in corn and peanut production at the Sunbelt Agricultural Expo.

STOP 4

Another biological product will be evaluated in peanuts at the Sunbelt Ag Expo. The product is called Biowake. It was applied at planting and will be compared to the untreated check. Stand counts, emergence timings, and yield data will be provided after harvest. This demonstration was replicated three times and will be taken to yield.

These projects could not be possible without the support of the Sunbelt Ag Expo and industry partners. If you have any questions, please contact the Colquitt County Extension office or your local county Extension agent.

2024 FIELD DAYS

STOP 5 - UGA Extension

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STOP 5

Let's discuss the projects pertaining to corn production. The Sunbelt Ag Expo is one of six locations in Southwest Georgia participating in the UGA On-Farm Corn Variety Evaluation. Ten total varieties were provided from Agratech, Croplan, DeKalb, Dynagro, and Pioneer for this multi-location project, and each variety will have numerous replications across the field at each location. This location also included additional varieties from Integra, NK, and Seedway. Yield data from this project will be provided after harvest.

Biologicals have been a topic of discussion in agriculture. Three biological treatments that are supposed to enhance nutrient uptake, decrease crop stress, and increase yields are being evaluated at the Sunbelt Expo again this year in corn production. This field experiment is replicated three times, and yield data will be provided after harvest.

2024 FIELD DAYS

STOP 6 - R.W. Griffin

Contact: Calvin Meeks, calvin.meeks@rwgriffin.com

RWG Cotton Sidedress Trial

STOP 6

RW Griffin 18-0-0-3 has been one of the top choices for side dressing cotton in Georgia with excellent economics and performance proven year in and year out. The RWG research committee has been evaluating specialty liquid fertilizer additives to determine their effectiveness compared to the standard 18-0-0-3 applications to determine whether these products could generate greater returns to the grower from cotton side dress applications. This demonstration field contains a replicated study evaluating 18-0-0-3 applications in conjunction with RW Griffin Specialty Ag products applied in furrow, side dress, foliar, and combinations of these applications. We will be evaluating cotton lint yield and fiber quality at the end of the year as well as tissue samples throughout the growing season.

STOP 7 - Helena

Contact: Eli Croley, CroleyT@helenaagri.com or Heath Herndon, HerndonJ@helenaagri.com

The plan for the plot is to track potassium levels in the plant throughout the year utilizing our Extractor Tissue sampling program. In over 5000 tissue samples collected across the southeast, we have found potassium to be low/deficient in 68% of tissue samples pulled in cotton. The results we are looking for are to maintain sufficient or higher potassium levels throughout the year while maximizing yield and ROI.

- Planted Delta Pine 2333 May 30th, 2024

- 24 rows of the Grower Standard with 6 rows of buffer compared to 24 rows of Helena Acre.
- Used Quickshot, nutritional graphite talc at planting
- Apply 32oz/ac K-Leaf Versa, 0-0-29 doubles as VRA, with herbicide application
- Apply 2gal/ac of Nucleus 0-0-15, liquid potassium, at liquid side-dress
- Apply 8oz/ac of Utilize, plant extracts that increase fruit production, at the first week of bloom then a second 8oz application 10-14 days later.
- Apply 1gal/ac Coron Metra 10, 10-0-10 slow-release nitrogen, mid bloom then apply another gallon 10-14 days later.

For more info about the plot, contact Eli Croley at CroleyT@helenaagri.com or Heath Herndon at HerndonJ@helenaagri.com. Visit www.helenaagri.com to find your local Helena Retail location or to find out more about Helena's Products and Services.

STOP 8 - R.W. Griffin

Contact: Calvin Meeks, calvin.meeks@rwgriffin.com

RWG Corn Sidedress Trial

STOP 8

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Griffin Specialty Ag products applied in furrow, side dress, and combinations of these applications. We will be evaluating grain yields at the end of the year to determine ROI for the grower.

STOP 9 - UGA Forage Team

Contact: Dr. Lisa Baxter, baxterl@uga.com
Website: www.georgiaforages.com

The Sunbelt Ag Expo's Darrell Williams Research Farm continues to provide an exceptional opportunity to highlight forage research in South Georgia by providing an outdoor classroom for County Extension Agent in-service trainings, producer field days, and collaborative industry events. The 2-acre bermudagrass garden provides a field-scale comparison of the six most popular bermudagrass varieties in the Southeast. Here producers can interact with and evaluate these different varieties before selecting the best option for their own farm. This area is also used for large-plot research trials to better simulate the yield impact of the treatments that would be observed on-farm. This area has previously been used for large scale bermudagrass stem maggot and fertilizer research but is currently investigating the effects of spring applications of indaziflam and glyphosate on bermudagrass production. Herbicide treatments included: Indaziflam (PRE; Rezilon, Bayer Crop Science, Whippany, NJ) at 0.044 kg ai ha-1; Glyphosate (POST; Roundup Pro Concentrate, Monsanto Company, St. Louis, MO) at 0.52 kg ai ha-1; and Indaziflam at 0.044 kg ai ha-1 + Glyphosate at 0.52 kg ai ha-1 (PRE+POST). Each treatment was applied in January, February, and March. Treatment combinations were randomly assigned to split plots within each replicate for 54 total treatment combinations. Data is currently being collected and

STOP 9

preliminary results will be available in fall 2024. For more forage information, please visit our website. Follow along with us (Georgia Forges and Lego Forage Specialist) on social media for timely research updates and important Extension recommendations.

STOP 10 - Southeastern Hay Contest

Contact: Dr. Lisa Baxter, baxterl@uga.com
Website: www.sehaycontest.com

The Southeastern Hay Contest (SEHC) encourages producers to test their hay because it can ultimately help save money by identifying supplementation needs. The SEHC is only possible because of the effort of our Extension agents, who engage producers and collect samples, and because of our sponsors. Sponsors include: Massey Ferguson, RW Griffin Industries, Envu, AgriKing, Corteva Agriscience, Athens Seed Company, Southeast Agriseeds, Barenbrug, Pennington Seed Company, Coastal Seeds, Georgia Agribusiness Council, and Mayo Ag Services.

STOP 10

Producers can enter the SEHC in nine categories of hay and baleage: warm season perennial grass hay, cool season perennial grass hay, alfalfa hay, all other legume hay, mixed grass-legume hay, summer annual grass hay, winter annual grass hay, grass baleage, and legume baleage. The samples are ranked based on relative forage quality, and the top 3 entries in each category receive a cash prize. The overall winner also receives the use of a new Massey Ferguson DM Series disc mower or RK Series rotary rake for the 2025 hay production season plus $2000 in cash! Contact your local Extension agent to enter your samples in the 2024 SEHC before the deadline. Samples must be *postmarked* by August 30th!

2024 FIELD DAYS

STOP 11 - Dyna-Gro

Tim Moore- Tim.moore@nutrien.com
Eric Lee- eric.lee@nutrien.com

STOP 12 - DeltaPine

Contact: Jason Pittman, jason.pittman@bayer.com

Cotton:

STOP 12

2333 – New B3XF with exceptional yield and stability, won or was at the top of most trials in the SE in 2022 did well again in 23. Growth similar to 1840, place on mid level dryland all the way up to high yield irrigated
2328 – Exceptional B3XTF that fits a wide variety of yield environments. Works really well in areas where plant bugs have traditionally been an issue. Gain an extra level of protection without sacrificing yield.
2414 – New early season B3TXF that we are trialing in the SE to see if it will give use the yield we expect from 2012 with the plant bug protection we have come to appreciate from the Thryvon trait.

STOP 13 - Phytogen

Contact: Adrienne Smith, adrienne.smith@corteva.com

2024 PhytoGen® cottonseed product descriptions for Sunbelt Expo
PhytoGen® cottonseed offers a wide portfolio of industry leading varieties with the Enlist® cotton trait. Enlist® herbicides offer the most robust and flexible herbicide system for controlling broadleaf weeds. Enlist One® herbicide has over 2,000 approved legal tank-mix partners, including Liberty® herbicide and AMS, giving growers the strongest option on the market for

palmer amaranth control. Starting the season with the proven vigor of PhytoGen cottonseed and the unmatched yield protection of PhytoGen Breeding Traits™ gives growers the confidence and potential they need to make a cotton crop in the Southeast.

STOP 13

PHY 400 W3FE – Mid maturing. Compact growing, highly efficient plant. Reduced plant growth regulator requirements. High performance on irrigated fields and moderate to stiffer dryland acres. PhytoGen Breeding Traits™ for resistance to bacterial blight and root-knot nematodes.

PHY 411 W3FE – Mid maturing. Strong finishing, bushy variety. Limited late season plant growth regulator requirements. Excellent yield potential, especially on sandy to moderate textured soils. Open boll type that picks clean. PhytoGen Breeding Traits™ for resistance to bacterial blight, root-knot and reniform nematodes.

PHY 415 W3FE - Broadly adapted, mid- to full maturing variety with aggressive growth that handles sandy soils well. Resistant to both root-knot nematodes and bacterial blight. High yield potential and excellent on irrigated or dryland.

PHY 475 W3FE – NEW mid- to full-season variety tailored to the unique agronomic needs of the lower Southeast. It's an easy-to-manage variety with resistance to root-knot and reniform nematodes, as well as bacterial blight. Excellent standability and high yield potential in irrigated and dryland.

in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo and Enlist One herbicides are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions. Roundup® and Roundup Ready® are trademarks of Bayer Group. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® technology contains genes that confer tolerance to glyphosate, an active ingredient in Roundup® brand agricultural herbicides. ®Liberty is a registered trademark of BASF. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate. © 2024 Corteva.

STOP 14 - Americot, Inc.

Contact: Justin Goodman, jgoodman@americot.com
Adam Anderson, aanderson@americot.com

NG 5430 B3XF - New Release! Americot is very excited about this variety in 24 and 25 growing season; not only for its high yield potential but being able to put forth a variety that is OUR own germ plasm means a lot to the Americot NexGen team! This variety is a Georgia variety. While it does have an aggressive growth type and large plant architecture it can be managed with PGR. We recommended applications early and often to avoid late season growth. This is a FULL season cotton! NG 5430 is adaptive across all soil types and irrigation situations.

STOP 14

NG 4414 B3XF - Another Georgia variety for us. Well adapted across many soil types but more suited for irrigated situations. Like the NG 5430 this variety needs to be managed early and often. Not seeing the need to hit as hard but more so a well timed application. Pre bloom PGR

applications will be necessary with rain. Maturity with the NG 4414 B3XF is a medium to full season.

NG 4405 B3TXF - Another great mid to full season variety for Americot. Not only does this variety boast a high yield potential and great fiber quality it also processes ThryvOn technology! A great tool to add to our growers tool box. This variety is well adapted across GA soils and can be managed with PGR fairly easy. Larger plant type for a ThryvOn variety but responds well to PGR.

Experimental varieties - AMX 002 B3TXF is a medium to full maturity, ThryvOn technology experimental line with high yield potential. Tall plant architecture and is an aggressive line. Responds well to PGR. Slightly longer than NG 4190 in maturity. This variety will make a large stalk on all soil types.

AMX 172 B3TXF is an early to medium maturity, ThryvOn tech experimental line for Americot that possesses very high yield potential along with excellent fiber quality. It produces a medium plant height with a wide canopy. This variety is similar in maturity with our shorter season NG 3195. This variety is boat adaptive but well suited for an irrigated environment. This variety is responsive to PGR and resistant to Root Knot nematodes!

STOP 15 - Pioneer

Contact: Adrienne Smith, adrienne.smith@corteva.com

STOP 15

2024 FIELD DAYS

STOP 16 - DeKalb

Contact: Jason Pittman, jason.pittman@bayer.com

Corn:

DKC 66-06 TRE (116 RM)
Placement: Place on deep sands irrigated and dryland
Agronomics: Tall plant type with high ear placement. Average disease package so responds to a fungicide.
Wide row (36"/38") population rate of 30,000 and 30" of 32,000 for 2023.
Tremendous ear flex.
Watch outs: For 2024 plant on the lower side of population and use a fungicide.

STOP 16

DKC 68-35 VT2P (118 RM)
Placement: Broad acre hybrid with exceptional yield potential. Place on irrigated or dryland
Agronomics: Medium to Tall plant type with medium ear placement. Upright leaf structure. Solid roots and stalks. Average tolerance to GLS, NCLB and SR so target foliar fungicide after scouting. Set the plant population based on yield expectation and timing of planting. Wide row (36"/38") rate of 30 to 32,000 and 30" of 32 to 34,000. Phenomenal grain quality and test weight. White cob. Flex ear.
Watch outs: Responds to a fungicide

DK 70-45 SS (120 RM)
Placement: Place on medium to productive irrigated or dryland
Agronomics: Medium to Tall plant type with medium ear placement. Upright leaf structure. Solid roots and

stalks. Good tolerance to SCLB, NCLB and SR so target foliar fungicide after scouting. Set the plant population
based on yield expectation and timing of planting. Wide row (36”/38”) rate of 30,000 and 30” of 32,000.
Outstanding grain quality and test weight. Flex ear.
Watch outs: None

STOP 17 - Dyna-Gro

Contact: Tim Moore, Tim.moore@nutrien.com
Contact: Eric Lee, eric.lee@nutrien.com

STOP 18 - Seedway

Contact: Trev Simmons, josimmons@seedway.com

STOP 18

2024 FIELD DAYS

STOP 19 - Simplot

Contact: Justin McCoy, justin.mccoy@simplot.com

Simplot Grower Solutions is an American-owned, family-run company honored to be participating in this years Sunbelt Ag Expo in Moultrie, Georgia. Currently we have over 240 locations across North America and are proud to service growers across the Southeast. We pride ourselves in providing the best agronomic solutions in the market to our growers. This season in our plots, we look to showcase some of our Innvictis portfolio products that we believe have an agronomic fit in this area. Innvictis is a portfolio of seed, crop care, bioscience, and organic advancements exclusive to Simplot Grower Solutions. This season we wanted to showcase two new corn hybrids that have shown excellent potential in southeast Georgia.

STOP 19

Beginning with Innvictis seed A1689T, this is a 116 day semi-flex hybrid that has shown excellent standability in the field. A1689T can be placed across a range of environments and brings yield potential and stability to both irrigated and non-irrigated acres. Second we have Innvictis seed A1993T, a 119 day semi-flex hybrid with high yield potential and good disease tolerance. This hybrid is a robust plant that has shown excellent top-end potential on irrigated acres, A1993T performs exceptionally well in high population, high potential environments, but also offers dual-purpose appeal throughout the southeast as a full-season hybrid.

To achieve maximum agronomic potential of these hybrids we next set out to provide full-season fertility and nutrient availability through the use of Innvictis BioScience products. This began with the use of a low-salt, orthophosphate starter fertilizer, Captivate EDTA (10-20-5-1S-0.43Zn). Captivate was designed to be a premier starter fertilizer in corn by providing immediately available phosphorus coupled with both sulfur and zinc to

maximize early season growth while maintaining in-furrow safety. The use of a starter fertilizer with corn has shown excellent agronomic performance by both increasing yields and accelerating corn maturity leading to earlier harvests.

Lastly, Innvictis is proud to introduce Revv-uP. Revv-uP is a spore-form microbial product containing two bioactives that improve the solubilization of Phosphorus into plant-available forms and release soil bound nutrients. The use of Revv-uP allows for an increase in phosphorus cycling, thus providing available soil phosphorus to the plant as it needs it throughout the growing season. To find out more about Innvictis and Simplot, a grower can connect with their local Simplot Grower Solutions location, or go to Innvictis.com.

STOP 20 - Forquimica

Contact: Marcelo Augusto Campos, marcelo.campos@forquimica.com

CORN

treatment 1:
In furrow: Formaiz 4 oz/ac

treatment 2:
In furrow: Formaiz 4 oz/ac - Boromax nitro 4 oz/ac
V3: Fortune 20 oz/ac

treatment 3:
In furrow: Formaiz 4 oz/ac - Boromax nitro 4 oz/ac
V3: Zincomax 5.5 oz/ac - Manphos 5.5 oz/ac

STOP 20

2024 FIELD DAYS

STOP 21 - Forquimica

Contact: Marcelo Augusto Campos, marcelo.campos@forquimica.com

COTTON

treatment 1:

In furrow: Formaiz 2 oz/ac - Power Seed New 2 oz/ac

treatment 2:

In furrow: Formaiz 2 oz/ac - Power Seed New 2 oz/ac - Boromax nitro 4 oz/ac
30 DAE: Phosman 14 oz/ac
40 DAE: Manphos 14 oz/ac - Fortune 20 oz/ac - Boromax nitro 7 oz/ac
60 DAE: Up Time Plus 8 oz/ac - Fortune 27 oz/ac - Potafort 14 oz/ac - Boromax nitro 14 oz/ac
80 DAE: Up Time Plus 8 oz/ac - Potafort 14 oz/ac - Boromax nitro 14 oz/ac
100 DAE: Up Time Plus 8 oz/ac - Potafort 14 oz/ac

STOP 21

treatment 3:

In furrow: Formaiz 2 oz/ac - Power Seed New 2 oz/ac - Boromax nitro 4 oz/ac
30 DAE: Phosman 5.5 oz/ac - Fortune 5.5 oz/ac
40 DAE: Phosman 5.5 oz/ac - Fortune 5.5 oz/ac - Boromax nitro 5.5 oz/ac
60 DAE: Boromax nitro 5.5 oz/ac - Potafort 5.5 oz/ac
80 DAE: Potafort 5.5 oz/ac
Power Seed New and Up Time Plus are a biostimulant; the others are nutristimulant

PEANUTS

treatment 1:

In furrow: Formaiz 6 oz/ac - Power Seed New 6 oz/ac

treatment 2:
In furrow: Formaiz 2 oz/ac - Power Seed New 2 oz/ac
30 DAE: Genium Plus 4 oz/ac - Fortune 14 oz/ac
45 DAE: Genium Plus 4 oz/ac - Fortune 14 oz/ac - Boromax nitro 7 oz/ac
55 DAE: Boromax nitro 7 oz/ac - Potafort 14 oz/ac - Fortune 14 oz/ac
65 DAE: Potafort 14 oz/ac
treatment 3:
In furrow: Boromax nitro 14 oz/ac
30 DAE: Genium Plus 1.6 oz/ac - Fortune 5.5 oz/ac
45 DAE: Genium Plus 1.6 oz/ac - Goldennut 5.5 oz/ac - Boromax nitro 5.5 oz/ac
55 DAE: Boromax nitro 5.5 oz/ac - Potafort 5.5 oz/ac
65 DAE: Potafort 5.5 oz/ac
Power Seed New and Genium Plus are a biostimulant; the others are nutristimulant