

# 2022 Georgia Tobacco Tour



**UNIVERSITY OF  
GEORGIA**

**College of Agricultural &  
Environmental Sciences**

**Cooperative Extension  
Tifton, Georgia**



## EXTENSION OFFICES IN COUNTIES WITH TOBACCO PRODUCTION

<u>County</u>	<u>Phone No.</u>	<u>FAX No.</u>	<u>County</u>	<u>Phone No.</u>	<u>FAX No.</u>
Appling	912-367-8130	912-367-1184	Grady	229-377-1312	229-377-9026
Atkinson	912-422-3277	912-422-6223	Irwin	229-468-7409	229-468-9838
Bacon	912-632-5601	912-632-6910	Jeff Davis	912-375-6648	912-379-1091
Ben Hill	229-426-5175	229-426-5176	Lanier	229-482-3895	229-482-2654
Berrien	229-686-5431	229-686-7831	Lowndes	229-333-5185	229-333-5188
Brantley	912-462-5724	912-462-5464	Pierce	912-449-2034	912-449-8005
Brooks	229-263-4103	229-263-5607	Screven	912-564-2064	912-564-5815
Candler	912-685-2408	912-685-6614	Tattnall	912-557-6724	912-557-3332
Coffee	912-384-1402	912-389-4007	Thomas	229-225-4130	229-225-4183
Colquitt	229-616-7455	229-616-7033	Tift	229-391-7980	229-391-7999
Cook	229-896-7456	229-896-7457	Toombs	912-526-3101	912-526-1012
Echols	229-559-5562	229-559-9436	Treutlen	912-529-3766	912-529-3767
Evans	912-739-1292	912-739-7831	Wayne	912-427-5965	912-427-5967
Emanuel	478-237-1226	478-237-8451	Worth	229-776-8216	229-776-8216

UGA Tobacco Home Page

<http://www.georgiatobacco.com>

### University of Georgia Tobacco Team

#### TOBACCO EXTENSION SCIENTISTS PH/FAX (see web site for email addresses)

J. Michael Moore, Extension Agronomist - Tobacco, Editor 229-392-6424 229-386-7308

Glendon H. Harris, Extension Agronomist - Environ. Soil and Fertilizer 229-386-3194 229-386-7308

#### TOBACCO RESEARCH SCIENTISTS

Sudeep, Bag, UGA Tifton Campus 229-386-3371 229-386-7285

#### COUNTY EXTENSION AGENTS IN TOBACCO COUNTIES

Shane Curry	Appling	Justin Shealey	Echols
Tony Barnes	Atkinson	Jennifer Miller	Jeff Davis
Holly Anderson	Ben Hill	Kim Post	Lanier
Ben Reeves	Berrien	Josh Dawson	Lowndes
Aaron Bruce	Brooks	James Jacobs	Pierce
Ross Greene	Candler-Evans	Aubrey Shirley	Tattnall
Ashley Smith	Coffee	Derrick Bowen	Tattnall
Jeremy Kickler	Colquitt	Mark Frye	Wayne

Physical / Postal Address: 4604 Research Way / 2360 Rainwater Rd, Tifton, Georgia, 31793-5766, USA



THE UNIVERSITY OF GEORGIA TOBACCO TEAM EXPRESSES  
APPRECIATION TO THE FOLLOWING FINANCIAL SUPPORTERS OF THE

## **2022 GEORGIA TOBACCO TOUR**

**Georgia Agricultural  
Commodity Commission for  
Tobacco**

**Alliance One International**

**Altria Client Services**

**B.F.D. Tobacco Equip.**

**Bayer Crop Sciences**

**Big Independent Warehouse**

**Carolina Soil Company**

**Catalytic Generators LLC**

**Corteva**

**Drexel**

**Farm Credit Associations of  
Georgia**

**Fair Products**

**FMC**

**Foley Seed and Service**

**GoldLeaf Seed Co.**

**Nature Safe Fertilizers**

**Raynor Seed Co.**

**RJ Reynolds Tobacco Co.**

**Speedling**

**SQM**

**Syngenta**

**Universal Leaf N.A.**

**UPL**

**U.S. Tobacco Cooperative**

**YARA**

**Valent**

**Volunteer Ag Products**

## **GEORGIA - FLORIDA TOBACCO TOUR**

# **RULES OF THE ROAD**

- **Headlights should ALWAYS BE ON when participating in the tour.**
- **Follow close enough to the next vehicle to show that you are a part of the tour, but far enough back to avoid a collision.**
- **Be cautious at intersections but promptly follow the directions of law enforcement assisting the tour.**
- **Always “fuel-up” the night before. The Tour will depart as scheduled.**

**Wait until the Tour has “left you” rather than trying to “leave the tour”. THOSE BEHIND YOU WILL FOLLOW YOU!!!**



UNIVERSITY OF GEORGIA  
**EXTENSION**

Department of Crop & Soil Sciences  
Horticulture Building, Rm. 229  
2360 Rainwater Road  
Tifton, Georgia 31793  
TEL 229-392-6424 | FAX 229-386-7308  
jm Moore@uga.edu  
www.GeorgiaTobacco.com

**SCHEDULE & DRIVING DIRECTIONS  
FOR THE 2022 GEORGIA-FLORIDA TOBACCO TOUR**

**Monday, June 6, 2022**

<http://www.GeorgiaTobacco.com>

**Travel Mileage Directions**

- 5:00 pm** Check-in Days Inn - Days Inn by Wyndham Metter  
1225 South Lewis Street  
Metter GA 30439  
912-685-3000
- 6:00 pm** Demonstration & Refreshments – Installation of a Turning Vane under the fan of a curing barn to improve air flow and reduce curing time.
- 7:00 pm** Dinner – Directions: From Days Inn to H&H Farm Shop  
George & Tommy Holland, H&H Farms  
1151 Evergreen Church Rd, Cobbtown, GA 30420  
912.682.0573 cell gfholland1@gmail.com
- 500 ft Turn right onto Lewis St out of Days Inn between McDonalds and Shell station  
0.3 mi Turn right onto Lanier St.  
500 ft Turn right onto SR-129  
7.4 mi Turn right onto Evergreen Church Rd  
2.5 mi Arrive H&H Farms, 1151 Evergreen Church Rd, Cobbtown, GA

**Tuesday, June 7, 2022**

**Time/Travel Directions**

- 7:30 am** Leave Days Inn parking lot.
- 500 ft Turn right onto Lewis St out of Days Inn between McDonalds and Shell station  
0.3 mi Turn right onto Lanier St.  
500 ft Turn right onto SR-129  
7.4 mi Turn right onto Evergreen Church Rd  
0.2 mi Turn left onto Charlton Grove  
1.0 mi Turn right onto Will Funderburke Rd  
1.0 mi Turn right into barnyard and on in front of Black Shank Variety Plot  
Plot on right



**Tuesday, June 7, 2022**

**Time Mileage Directions**

**7:45 am Arrive H &H Farm, Tattnall County**

George and Tommy Holland Cell: (912) 682-0573 gfholland1@gmail.com  
(Black Shank Resistance Evaluation of new and proposed varieties)  
-Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents  
HM: 14373 Donnell Rd, Cobbtown, GA 30420  
Plot: Will Funderburke Rd, Collins, GA  
32.27929, -82.06408

**8:05 am Depart**

Left onto Dave Callaway Rd  
2 mi Right onto Hillview Rd  
0.25 mi Right onto Sam Greene Rd  
2.0 mi Left onto Anderson Church Rd  
1.5 mi Right onto W. E. Callaway  
0.7 mi Plot on right at stop sign

**8:20 am Arrive Elton and Chance Callaway Farm, Evans County**

Chance : (912) 334-0252 eldon.callaway@gmail.com  
(Released Varieties Demonstration)  
- Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents  
Hm: 720 W E Callaway Road, Claxton, GA 30417  
Plot: 720 W E Callaway Road, Claxton, GA 30417  
32.220589, -82.007284

**8:40 am Depart**

Right on Kennedy Bridge Rd  
0.6 mi Right on Leighton Boyette Rd  
1.1 mi Left onto Anderson Church Rd  
4.5 mi Right onto 292  
2.0 mi Right onto 121 at light in Collins  
1.9 mi Left onto Pine Grove Church Rd  
2.0 mi Left at Dry Branch Onion Grading Shed on Josh Lanier Rd  
0.2 mi Left on Hub Jarrell Rd  
0.1 mi Right at first street  
0.2 mi Left before pond around tobacco field  
0.3 mi Left onto dirt road.

**Tuesday, June 7, 2022**

**Time Mileage Directions**

**9:00 am Arrive Cole, Luke and Noah Callaway Farm, Tattnall County, GA**

Cole: 912-237-4410 cc05075@georgiasouthern.edu; Luke: 912-237-4675  
(Released Varieties Demonstration)  
- Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents

Hm: 5908 Anderson Church Road, Claxton, GA 30417  
Plot: 1278 Hub Jarriel Rd, Collins, GA 30421  
32.207177, -82.150651

**9:20 am Depart**

0.2 mi Right at stop sign onto Josh Lanier Rd to onion shed  
0.2 mi Park on right next to onion shed

**9:30 am Arrive Dry Branch Onion Grading Shed, Tattnall County, GA**

(Tour of shed and opportunity to purchase Vidalia Onions)  
- Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents  
Owner/President: David Jarriel (912) 684-4921  
Shed Manager/Food Safety Manager: Shirley B. Jarriel,  
Hm: 5908 Anderson Church Road, Claxton, GA 30417  
Plot: 3564 Pinegrove Church Rd, Collins, GA, 30421  
32.21432385777479, -82.15136200049719

**9:50 am Depart**

mi Right onto Pine Grove Church Rd  
2.0 mi Right onto 121  
8.2 mi Left into Tattnall Governmental Complex / Extension Office

**10:05 am Arrive Rest Room Stop – Tattnall Co. Extension Office**

**10:20 am Depart**

Right out of parking lot onto Hwy 280  
0.1 mi Left onto 121  
3.3 mi Right onto 121  
9.5 mi Merge with 169  
6.8 mi Left on 121  
9.3 mi Cross at Surrency  
9.2 mi Right onto Hwy 203  
1.1 mi Cross 15  
2.7 mi Right on Perry Dr  
0.9 mi Right onto Gary Turner Rd

Tuesday, June 7, 2022

Time Mileage Directions

**11:15 am Arrive Reid Turner Farm, Appling County, GA 912-240-0495**  
(Released Varieties Demonstration) grgturnerfarms@gmail.com  
-Shane Curry, County Extension Agent  
Hm: 1723 Reese Road, Baxley, GA 31513  
Plot: Gary Turner Rd, Baxley, GA 31513  
31.604907, -82.280715

**11:35 am Depart**

Left out of Gary Turner Rd onto Perry Dr  
0.9 mi Left onto Hwy 203  
2.6 mi Left onto Hwy 15  
13.9 mi Right at traffic light at US 1  
1.0 mi Left at courthouse onto Hwy 341  
1.1 mi Right into parking lot

**12:30 pm (Lunch) Sarah's in the City, Baxley, GA**  
1686 Golden Isles West, Baxley, GA 912-367-7087

**1:30 pm Depart**

Right onto Hwy 341  
13.2 mi Left onto 23/29 South at next traffic light after Walmart  
0.8 mi Right onto 135 connector  
0.6 mi Left onto Cromartie St./Bell Telephone Rd  
2.2 mi Left onto Henderson Rd  
0.3 mi Right onto Eugene Lewis Rd  
0.2 mi Right into field and plot in center of field.

**2:15 pm Arrive Kenneth and Jason Williams Farm, Appling County, GA**  
Jason Cell: (912-253-0524); Kenneth Cell: (912-253-7740)  
**(Regional Variety Farm Test)** kmwilliams1948@gmail.com  
- leaf accumulation for smoke/flavor test and chemical analysis  
-Jennifer T. Miller, County Extension Agent  
HM: 783 Hatton Still Road  
Hazlehurst, GA 31539-4247, GA  
Plot: Eugene Lanier Rd next to solar farm  
31.824298, -82.609659

**2:35 pm Depart**

Turn left on Eugene Lewis Rd  
0.1 mi Turn left onto Henderson Rd  
0.3 mi Turn left on Bell Telephone Road



**Tuesday, June 7, 2022**

**Time Mileage Directions**

3.00 mi Turn right at Rebel Auction onto Elizabeth Church Rd  
Turn left onto Hwy 221  
3.00 mi Turn Right on GA-107  
3.6 mi Turn left onto GA-268 at Snipesville  
12.5 mi Turn right onto US-441 in Broxton  
0.2 mi Turn left onto GA-268 to Ambrose  
3.75 mi Cross Hwy 206  
5.2 mi Continue through Ambrose  
5.8 mi Right onto Hwy 32  
13.2 mi Continue through Ocilla on Hwy 32  
18.0 mi Right onto Hwy 82  
1.5 mi Arrive Holiday Inn Suites and Hampton Inn – 7 traffic lights in Tifton

**5:00 pm Holiday Inn Suites and Hampton Inn, Tifton GA**

**6:30 pm – 7:00 pm Dinner– Charles Seafood Restaurant, Hwy 82, Tifton GA**  
(seating as tables are available – do not arrive as an entire group)

**Wednesday, June 8, 2022**

**Time Mileage Directions (\* - indicates traffic assistance needed)**

**7:30 am** Exit Applebees parking lot, Right onto Hwy 82 East  
  
Right onto Hwy 82 east  
20 mi Right onto GA-135 in Willacoochee, GA  
12.5 mi Left onto Hwy 168  
5.0 mi Right onto Burkhalter Rd CR 43  
0.5 mi Plot on right

**8:30 am Arrive Ronnie Cook Farm – Lanier County, GA Cell: 229-569-0985**  
**(Black Shank Variety Resistance Trial with Severe TSWV)**  
-Kim Post, County Extension Agent  
HM: 158 Burkhalter Rd, Nashville, GA 31639-4307  
Plot: 158 Burkhalter Rd, Nashville, GA 31639-4307

**8:50 am Depart**

0.0 mi Right onto CR 43,  
0.75 mi Left onto 39  
0.5 mi Turn right onto Hwy 221  
5.25 mi Left onto 39

**Wednesday, June 8 2022**

**Time Mileage Directions (\* - indicates traffic assistance needed)**

0.50 mi Right onto 129  
8.0 mi Cross Hwy 82  
16.0 mi Right onto Hwy 94 in Statenville  
1.0 mi Left onto 135  
0.2 mi Right onto 376  
3.0 mi Turn left onto Tince Rd  
0.25 mi Turn right onto Corbett Ln  
0.5 mi Left into field and to back of field, 390 Corbett Ln, Lake Park, GA 31636

**9:30 am Arrive Stanley Corbett Farm, Echols County, GA 229 560 3026**  
**(Black Shank Variety Resistance Trial) stanleycorbett@icloud.com**  
-Justin Shealey, County Extension Agent  
Hm: 390 Corbett Ln, Lake Park, GA 31636  
Plot: 390 Corbett Ln, Lake Park, GA 31636  
(30.685385, -83.109786 )

**9:50 mi Depart**  
  
Left onto 376  
2.80 mi Right onto Herring Road  
0.75 mi Right onto Bradford Road  
1.0 mi Left into field drive and around the right side of the field of tobacco to the center of the field and pivot point for plot.

**10:30 am Arrive Herring Farm, Lowndes County, GA 229-415- 0091**  
**(BioFence Application Rates Trial for Black Shank Control)**  
-Josh Dawson, County Extension Agent  
Hm: 6322 Bradford Rd So., Lake Park, GA 31636  
Plot: 6322 Bradford Rd So., Lake Park, GA 31636  
(30.713203, -83.171057 )

**11:10 am Depart**  
  
Right on Bradford Rd  
1.0 mi Right on Herring Rd  
0.75 mi Right onto 376  
1.0 mi Right onto 376/41  
0.1 mi Left onto N Main St  
3.0 mi Left onto I-75 South  
12.0 mi Right at Exit 460 onto Hwy 6  
5.0 mi Left onto Hamilton Co 141 (Myrryl Rd)  
8.0 mi Right on Hwy 90  
2.0 mi Left onto SE 208 St/ SE Donaldson Rd, at Birdsong Peanut Company



**Wednesday, June 8 2022**

**Time Mileage Directions (\* - indicates traffic assistance needed)**

1.8 mi Left onto Burnside Rd

1.0 mi Fred Wetherington tobacco field

**11:45 am Arrive Fred Wetherington Farm, Madison County, FL 229-563-8041**

Hm: Hahira, GA office@wetheringtonfarms.com

Plot: Lee, Florida

(30.377486, -83.232796)

(Mechanized Production of Irrigated Tobacco)

**12:35 am Depart**

Right onto Hwy 90

4.0 mi Right onto River Rd

9.75 mi Left onto 250

5.0 mi Right onto CR 177

4.0 mi Left into pines and tobacco field at the 386 Tree Service Sign on yard.

0.25 mi Right to cross end of field and plot.

**1:00 am Arrive Sidney & Jackson Lord Farm, 386 362 8503**

(Released Varieties Demonstration) jacksonlord25@gmail.com

Hm: 13092 169th Rd, Live Oak, FL 32060-5424

Plot: Moore Rd, Live Oak, FL 32060-5424

30.213915842546278, -83.11051165226523

**1:25 pm Depart**

Turn left out of pasture onto Moore Rd. to stop sign.

0.25 mi Turn left onto FL-51 N/Irvin Ave NW

8.8 mi At the traffic circle, take the 2nd exit onto FL-51 N/11th St SW

0.5 mi Continue to follow FL-51 N

0.2 mi Turn left onto Houston Ave SW

0.6 mi Turn right onto W Howard St

**1:35 pm Lunch Brown Lantern US-90 E / 417 Howard St E Live Oak, FL 32064**

**THIS IS THE END OF  
THE 2022 GEORGIA-FLORIDA TOBACCO TOUR  
HAVE A SAFE TRIP HOME !**

## **Bulk Curing Barn Turning Vane Overview**

Grant Ellington, NCSU

Adequate airflow in a bulk curing barn is critical to maximize cured leaf quality and minimize the time required to complete the curing process. Fan specifications, barn design, and the tobacco loading characteristics (leaf orientation, box packing density, etc.) are all variables that can affect airflow in curing barns. Most barns have enough fan power, but the air circulation in the lower plenum may potentially be improved to increase the fan volumetric air delivery per unit time. The air exiting the fan housing has to make an abrupt 90 degree change in flow direction. This is the case for most box barns that utilize a tube-axial (propeller) fan configuration. Some barns with a centrifugal (squirrel-cage) fan configuration may minimize this directional change due to the orientation of the air exiting the fan housing. Turning vanes are typically manufactured from sheet metal and installed in the air handling system ductwork to smoothly and gradually reorient the airflow change in direction. This reduces resistance (pressure losses) and turbulent airflow inside the duct resulting in more airflow available to pass through the tobacco.

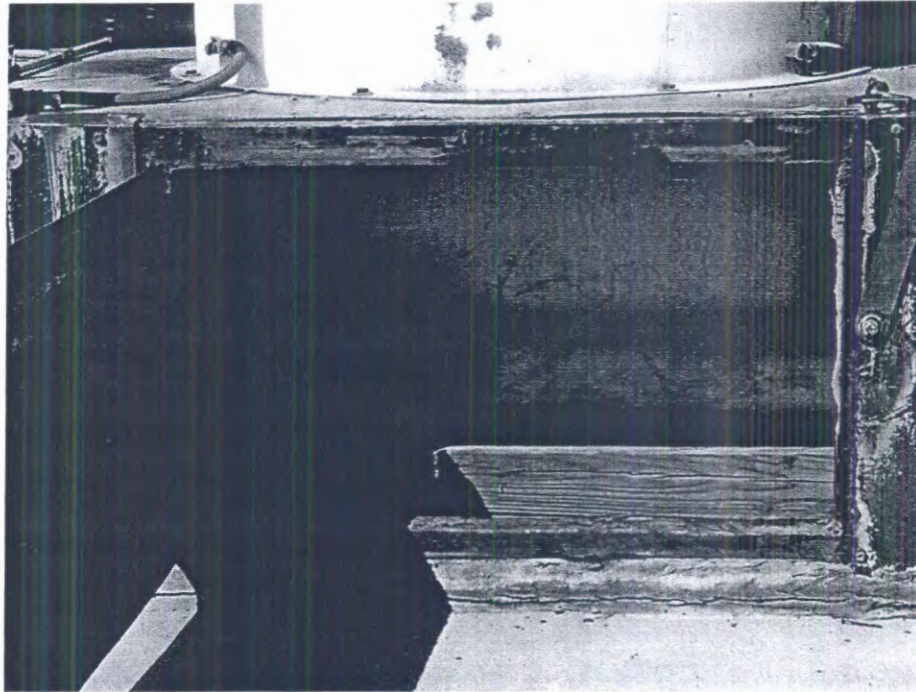
Multiple on-farm locations in central and eastern North Carolina were identified to collect performance information comparing a barn with a turning vane and an identical make barn without a turning vane. The locations selected load multiple barns daily and utilize automatic curing controls that will assist with replicating the curing management. The overall objective was to quantify the potential energy savings and decreased curing time associated with adding a turning vane in the lower air plenum of a bulk curing barn. For reasons mentioned previously, all the barns implemented with a turning vane used a tube-axial fan. The turning vanes were fabricated from 16 GA or 18 GA galvanized sheet metal and rolled into a radius that depends on the barn make. Mounting brackets fabricated from structural steel angle and additional hardware were also used. Thicker sheet metal would be better, but the gauge utilized was mainly to simplify installation.

Based on observations and grower feedback over the past two seasons, the potential benefits will vary with the make and model barns evaluated. The lower plenum height varies with different make barns and as a result, the turning vane effect also varies. As the plenum height increases, the resistance to airflow decreases and installing a turning vane may not be as effective. However, at a couple of locations evaluated growers estimated the curing time was reduced consistently 12 to 24 hours. Additionally, the same locations indicated the cured leaf was more uniform throughout the barn and resulted in less time removing lower quality leaf as compared to the adjacent barn without the turning vane.

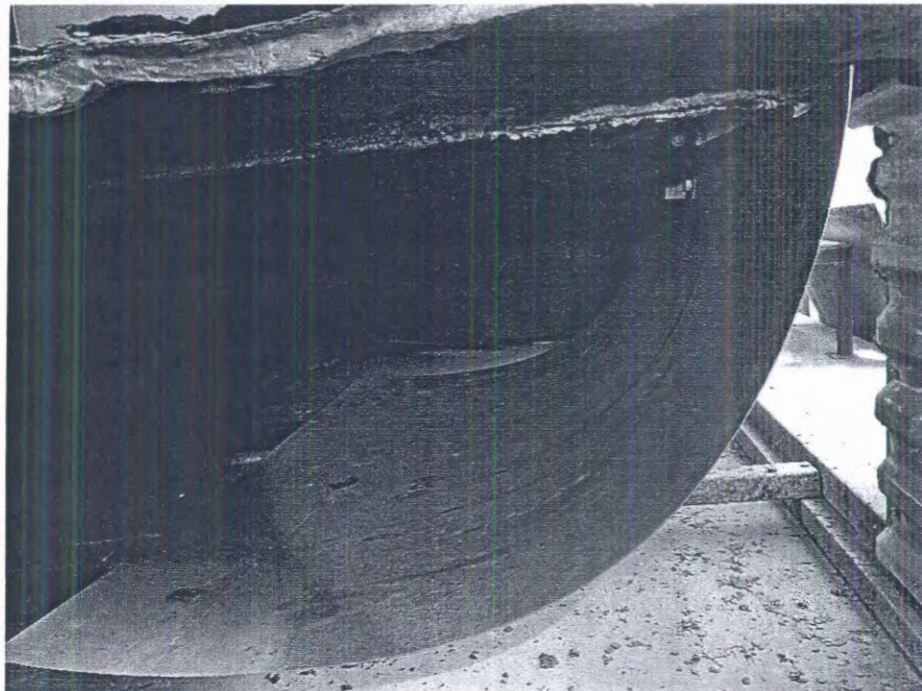
Increasing the barn air handling capacity can potentially decrease the cure duration and consequently both the electrical energy and LP gas consumption. Improving airflow may also result in more uniform cured leaf quality throughout each box that can minimize the labor associated with removing unmarketable leaf. Maximizing the cured leaf weight will also improve the barn energy efficiency. Reducing the length of the cure will allow a grower to reload the barn faster and increase the seasonal throughput. Increased material capacity will reduce the number of barns required for a given acreage and at a minimum improve barn management of the existing acreage. This is a very low cost strategy (less than \$100 per barn) that most growers can implement with minimal assistance, but based on observations over the past two seasons the benefits, if any, will vary with make and model barns. The other limitations with adding a turning vane to consider



are accessibility to the lower plenum and potential interference with any ordering system. Grower feedback at all locations stated that there were no negative impacts on the cured leaf quality. Grant Ellington, NCSU.

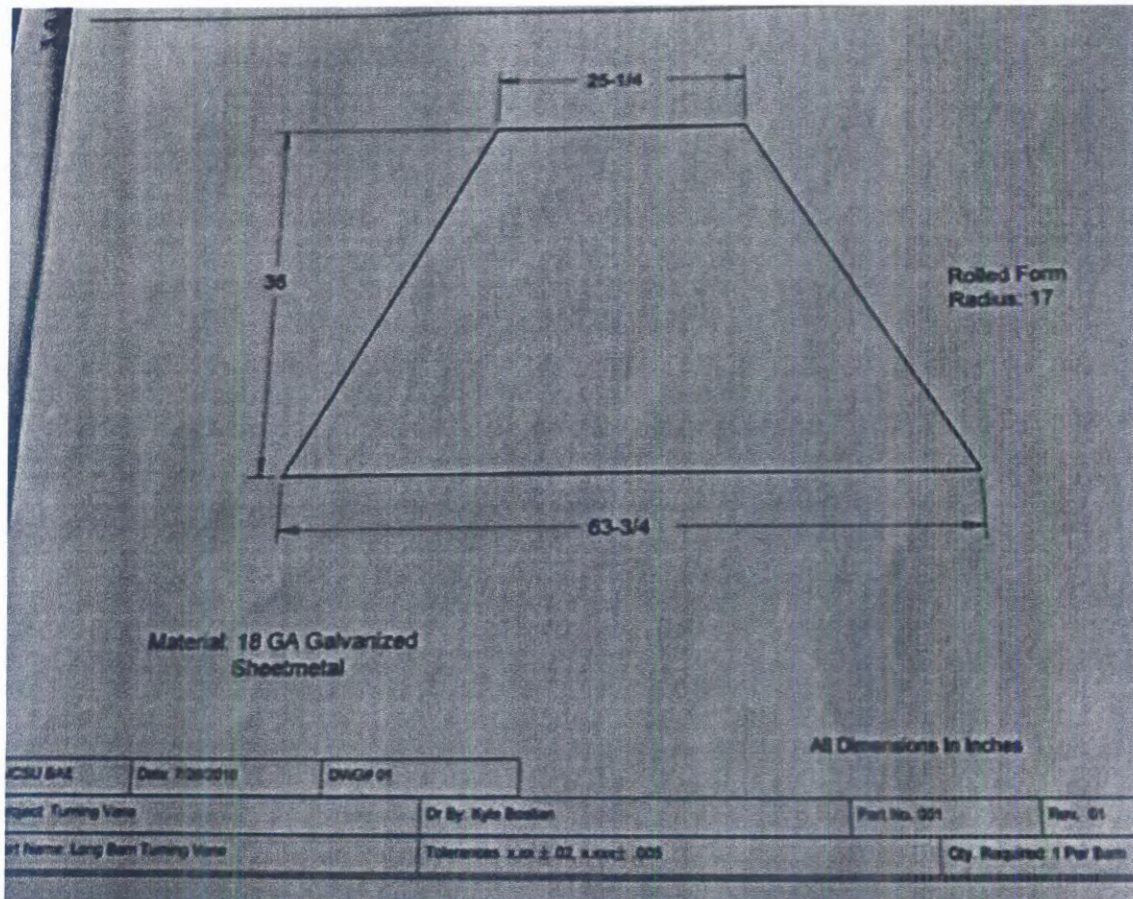


**Figure 1. Turning vane installation in the lower air plenum (Taylor Box Barn).**



**Figure 2. Turning vane installation profile view.**





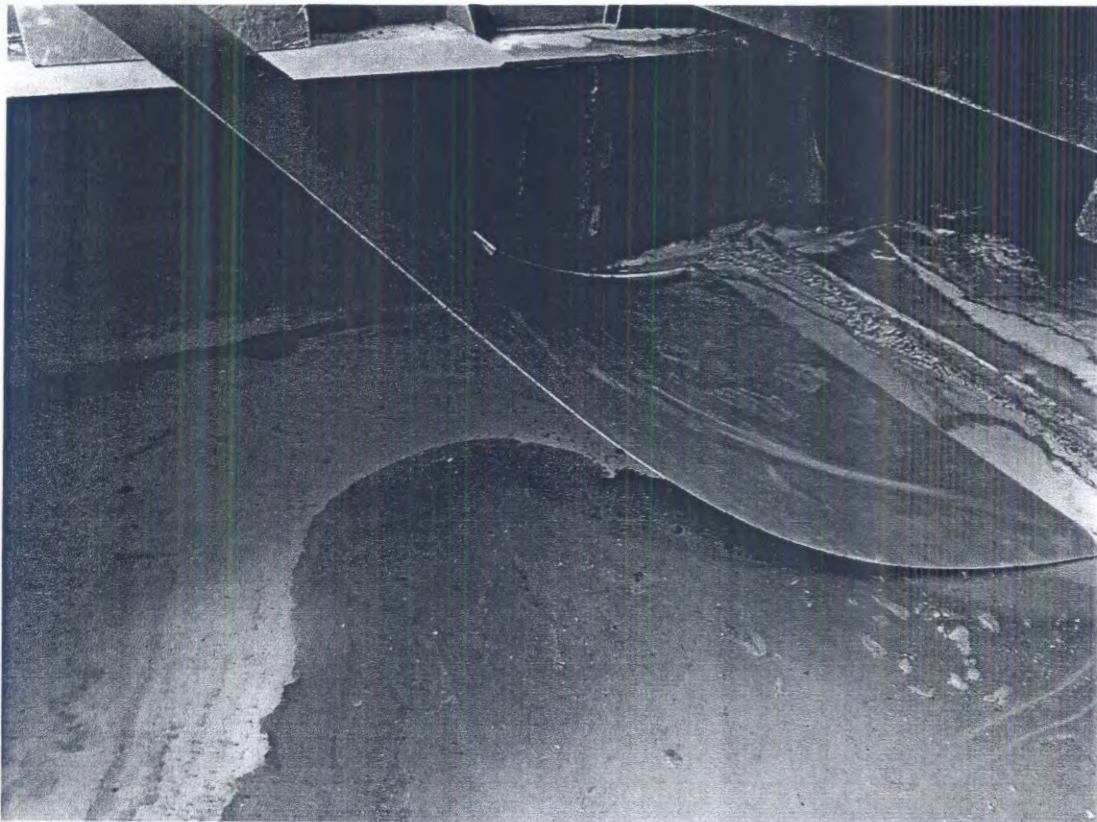
### Key Takeaways & Results

- Smooth reorientation of airflow in lower plenum
  - o Barns without vanes have abrupt 90-degree turn
- Decreases turbulence under fan
  - o Allows more even air distribution
- Simple construction and installation
  - o Materials needed (approx. \$100/barn)
    - Approx. 18 GA sheet metal (corrosion resistant is best)
    - Self-tapping screws or machine screws and nuts
    - Reinforcement of edge optional (angle iron/aluminum)
- Does not work for every barn
  - o Tube-axial/propeller fans only

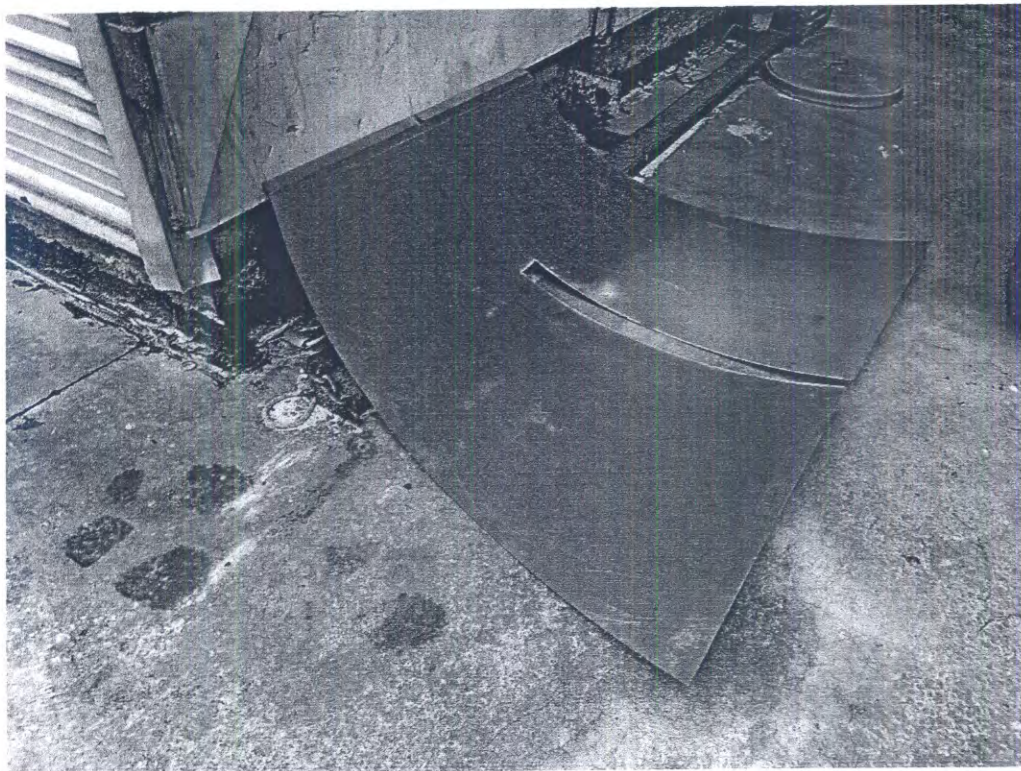
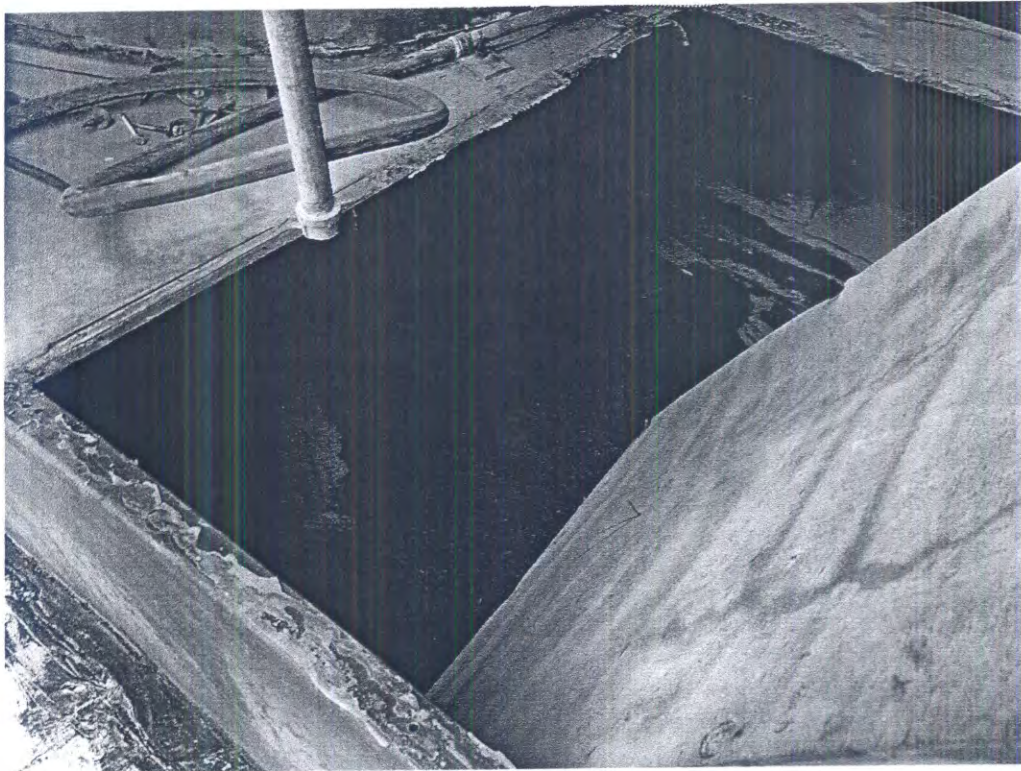
### Grower Feedback from 2021 Trials

- Reduces the amount of uncured/unmarketable leaf in boxes
- Potential savings on LP Gas, electricity, picking labor, and barn turnover rate
- Long manufactured barns with best results (12-24 hr. reduction)
- Taylor manufactured barns with positive results (0-12 hr. reduction)











**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Black Shank Variety Resistance Trial , George & Tommy Holland, H&H Farms, 1151 Evergreen Church Rd, Cobbtown, GA 30420, cell: 912.682.0573, gfholland1@gmail.com, Plot: Will Funderburke Rd, Collins, GA, 32.27929, -82.06408, -Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	GL 365	2019 F1 Hybrid	GL	H	R		R		
2.	K 326	1981 McNair 225 (McNair 30 X NC 95)	GL	L	L		R		
3.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
4.	NC 986	2017 Experimental F1 Hybrid	NC	H	M		R		
5.	NC 991 (NCEX 101)	2020 Experimental F1 Hybrid	NC	H	M		R		
6.	NC 993 (NCEX 103)	2020 Experimental F1 Hybrid Wz gene	NC	H	M		R		
7.	NC 994 (NCEX 104)	---- Experimental F1 Hybrid	NC	H	M		R		
8.	NC 996	2020 Experimental F1 Hybrid	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	ProfiGen	M	H		M		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus 'Y'; TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil; RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms; ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted 4/12/22;

**The University of Georgia Tobacco Team  
acknowledges  
Altria Client Services LLC (Philip Morris USA Inc.)  
for their financial support of this black shank research and extension project.**

2022

George & Tommy Holland, H&H Farms  
Black Shank Variety Resistance Trial  
Tattnall County, GA

Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents

304	310	306	308	309	302	301	303	305	307	408	405	407	409	402	404	406	403	410	401	
101	102	103	104	105	106	107	108	109	110	203	210	204	206	201	207	202	208	205	209	



**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Released Variety Test (commercially available varieties), Chance Callaway Farm, Candler County, GA, (82.00760°W, 32.22036°N), 720 W E Callaway Road, Claxton, GA 30417, Cell: (912) 334-0252 Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	CC 143	2012 CERT	CC	H	M		R		
2.	CC 1063	2011 CERT	CC	H	M		R		
3.	GL 365	2019 F1 Hybrid	GL	H	R		R		
4.	GL 395	2010 F1 Hybrid	GL	H	M		R		
5.	K 326	1981 McNair 225 ( McNair 30 X NC 95 )	GL	L	L		R		
6.	NC 196	2002 F1 Hybrid	GL	H	M		R		
7.	NC 938	2010 F1 Hybrid	NC	H	M		R		
8.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	PROFIGEN	M	H		M		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
 BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus ‘Y’;  
 TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
 Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
 RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
 ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted 4 15 22;

**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Released Variety Test (commercially available varieties), Cole and Luke Callaway Farm, Candler County, GA, (32.20799°N, 82.15075°W), 5855 Anderson Church Rd Claxton, Georgia, 30417, Cell: (912) 237-4410, Ross Greene, Aubrey Shirley & Derrick Bowen, County Extension Agents**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	CC 143	2012 CERT	CC	H	M		R		
2.	CC 1063	2011 CERT	CC	H	M		R		
3.	GL 365	2019 F1 Hybrid	GL	H	R		R		
4.	GL 395	2010 F1 Hybrid	GL	H	M		R		
5.	K 326	1981 McNair 225 ( McNair 30 X NC 95 )	GL	L	L		R		
6.	NC 196	2002 F1 Hybrid	GL	H	M		R		
7.	NC 938	2010 F1 Hybrid	NC	H	M		R		
8.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	PROFIGEN	M	H		M		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus ‘Y’;  
TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted 4 15 22;



## **Dry Branch Farms**

3564 Pinegrove Church Rd

Collins, GA, United States, 30421

(912) 684-4921

Owner/President: David Jarriel

Shed Manager/Food Safety Manager: Shirley B. Jarriel

Dry Branch Farms has been operating for approximately 32 years. Dry Branch employs approximately 4 people at this single location. A majority of the employees are H2A contract.

Dry Branch Farms is a family owned and operated business. Dry Branch Farms plants and harvests 400 acres of Vidalia Sweet Onions annually.

The Packing House is in operation for the Vidalia Sweet Onion Season April thru August.

Additional Dry Branch Farms Crops include Pecan Trees, Peanuts, and Rye.

In a nutshell, Vidalia Onions are a very mild, sweet onion that are grown in a specific territory in south Georgia (USA), comprised of 20 counties, centered around the city of Vidalia, GA and Toombs County.

In order for farmers to grow & call sweet onions 'Vidalia', it's required they be grown in this specific region, due to its unique blend of soil & nutrients that help produce their distinctive flavor. The Vidalia name is also protected through a federal marketing order, as well as a state law – making it illegal to grow & call a sweet onion a 'Vidalia' if it's grown outside this area.

Vidalia Sweet Onions are actually a standard Yellow Granex variety. And they're so mild they don't make eyes tear up when cut open – making them a friendly choice for budding cooks & chefs.

Vidalia sweet onions love the sandy loam soil and mild conditions of the southeast Georgia growing region. Temperatures in this area average in the middle 50s during winter, and middle 70s in the spring, with an average monthly rainfall of 3.5 inches during the growing season. This temperature and rainfall combination is ideal for growing Vidalia Sweet Onions.

When these onions are ready for harvest, their delicate nature requires they be harvested by hand, thoroughly dried & cured, and treated gently during grading and packing.

The Vidalia season start changes every year, as it's directly set by the farmers based on the readiness of the crop.

**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Released Variety Test (commercially available varieties), Reid Turner Farm, 912-240-0495, HM: 1723 Reese Road, Baxley, GA 31513, grgtturnerfarms@gmail.com, Appling County, GA.), Plot: Gary Turner Rd, Baxley, GA 31513, (31.604907, -82.280715), Shane Curry, County Extension Agent**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	CC 143	2012 CERT	CC	H	M		R		
2.	CC 1063	2011 CERT	CC	H	M		R		
3.	GL 365	2019 F1 Hybrid	GL	H	R		R		
4.	GL 395	2010 F1 Hybrid	GL	H	M		R		
5.	K 326	1981 McNair 225 ( McNair 30 X NC 95 )	GL	L	L		R		
6.	NC 196	2002 F1 Hybrid	GL	H	M		R		
7.	NC 938	2010 F1 Hybrid	NC	H	M		R		
8.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	PROFIGEN	M	H		M		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus ‘Y’;  
TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted: 4/3/22;



**2022 Flue-Cured Regional Farm Test  
Georgia, North Carolina and Virginia  
Kenneth and Jason Williams Farm, Jeff Davis County, GA, (31.82282°N, 82.61010°W)  
100–140 Eugene Lewis Rd, Hazlehurst, GA 31539 Cell: (912) 253-0524  
Jennifer T. Miller, Jeff Davis County Extension Agent**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	NC 95	1961 (C 139XBel 4-30)x(C 139XHicks)		L	H	M	R		
2.	K 326	1981 McNair 225 (McNair 30 X NC 95) GL		L	L		R		
3.	NCEX 107	N19-583 x N19-584	NC						
4.	RJREX608		RJR	M	H		R		
5.	NCEX 106	N19-579 X N19-580	NC						
6.	PXH 10	F1 Hybrid	PROFIGEN	O/R	M	M	R		TMV, PVY
7.	PXH 53	F1 Hybrid	PROFIGEN	H	M		R		
8.	RJREX609	F1 Hybrid	RJR	M	M		R		
9. **	RJREX603	2019 F1 Hybrid	RJR	H	H		R		
10 **	RJREX607	2021 F1 Hybrid	RJR	M	R		R		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus 'Y';  
TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
ULT-Universal Leaf Tobacco Co

Seeded: 2/3/22; Transplanted 4/20/22;

\*\* - Included for demonstration and observation purposes only

**The University of Georgia Tobacco Team  
acknowledges  
Altria Client Services LLC (Philip Morris USA Inc.)  
for their financial support of this research and extension project.**

**Production of the Regional Farm Test Entries Under a Georgia On-Farm Environment for determination of Physical, Chemical and Smoking Characteristics.**

As a part of the Regional Minimum Standards Program entries which have passed the Regional Small Plot (RSP) are eligible for entry in the **Regional Farm Test (RFT)** for final evaluation of **Physical, Chemical and Smoking Characteristics** of the harvested leaf. These data are used by the Regional Committee to determine if a breeder may release a variety for seed increase and sale in the United States.

The University of Georgia is no longer conducting tobacco research on the research station. By producing the 2022 RFT on a grower farm in Georgia data representative of the Georgia production environment will be included in the final determination of release of new varieties in the US.

The 2022 RFT is being produced on a cooperating grower farm in less than one quarter acre plots of each entry. Cured leaf will be sampled to provide Georgia data to be included for evaluation by the Regional Committee for final determination of release for each entry.

The RFT entries will be sampled at each harvest to provide 125 pounds of cured leaf taken from each entry for chemical sampling and production of cigarettes for smoke/flavor determination.



**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Black Shank Variety Resistance Trial (with Severe TSWV), Ronnie Cook Farm – Lanier County, GA Cell: 229-569-0985, HM: 158 Burkhalter Rd, Nashville, GA 31639-4307, Plot: 158 Burkhalter Rd, Nashville, GA 31639-4307, 31.135888, -83.006896, Kim Post, County Extension Agent**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	GL 365	2019 F1 Hybrid	GL	H	R		R		
2.	K 326	1981 McNair 225 (McNair 30 X NC 95)	GL	L	L		R		
3.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
4.	NC 986	2017 Experimental F1 Hybrid	NC	H	M		R		
5.	NC 991 (NCEX 101)	2020 Experimental F1 Hybrid	NC	H	M		R		
6.	NC 993 (NCEX 103)	2020 Experimental F1 Hybrid Wz gene	NC	H	M		R		
7.	NC 994 (NCEX 104)	---- Experimental F1 Hybrid	NC	H	M		R		
8.	NC 996	2020 Experimental F1 Hybrid	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	ProfiGen	M	H		M		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus ‘Y’;  
TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted 4/11/22;

**The University of Georgia Tobacco Team  
acknowledges  
Altria Client Services LLC (Philip Morris USA Inc.)  
for their financial support of this black shank research and extension project.**

**2022**  
**Ronnie Cook**  
**Black Shank Variety Resistance Trial**  
**Lanier County, GA**  
**Kim Post, County Extension Agent**

304	310	306	308	309	302	301	303	305	307	408	405	407	409	402	404	406	403	410	401	
101	102	103	104	105	106	107	108	109	110	203	210	204	206	201	207	202	208	205	209	



**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Black Shank Variety Resistance Trial , Stanley Corbett Farm (229) 560-3026, Plot: 390 Corbett Ln, Lake Park, GA 31636, 0030.682953, -83.111589, Echols County, Justin Shealey, County Extension Agent**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	GL 365	2019 F1 Hybrid	GL	H	R		R		
2.	K 326	1981 McNair 225 (McNair 30 X NC 95)	GL	L	L		R		
3.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
4.	NC 986	2017 Experimental F1 Hybrid	NC	H	M		R		
5.	NC 991 (NCEX 101)	2020 Experimental F1 Hybrid	NC	H	M		R		
6.	NC 993 (NCEX 103)	2020 Experimental F1 Hybrid Wz gene	NC	H	M		R		
7.	NC 994 (NCEX 104)	---- Experimental F1 Hybrid	NC	H	M		R		
8.	NC 996	2020 Experimental F1 Hybrid	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	ProfiGen	M	H		M		
11	CC 603 (RJREX603)	2020 F1 Hybrid	RJR	H			R		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus ‘Y’;  
TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted 4/19/22;

**The University of Georgia Tobacco Team  
acknowledges  
Altria Client Services LLC (Philip Morris USA Inc.)  
for their financial support of this black shank research and extension project.**

**2022**  
**Stanley Corbett Farm**  
**Black Shank Variety Resistance Trial**  
**Echols County, GA**  
**Justin Shealey, County Extension Agent**

311	304	310	306	308	309	302	301	303	305	307	408	405	407	409	402	404	406	403	410	401	411
111	101	102	103	104	105	106	107	108	109	110	203	210	204	206	201	207	202	208	205	209	211

Field Entrance



**2022**  
**BioFence Pelletized Mustard Meal Trial**  
**Herring Farm**  
**Lowndes Co., GA**  
**Josh Dawson, Fort Valley State University Extension Agent**

East

North

South

Telone II K 326
Telone II K 326
Telone II K 326
Telone II K 326
Telone II K 394
Telone II K 394
Telone II K 394
Telone II K 394
4. Quarter 7.5 oz/50'
4. Full 30 oz/50'
4. CK CK
4. Half 15 oz/50.
3. Quarter 7.5 oz/50'
3. Full 30 oz/50'
3. CK CK
3. Half 15 oz/50'
2. Quarter 7.5 oz/50'
2. Full 30 oz/50'
2. CK CK
2. Half 15 oz/50'
1. Quarter 7.5 oz/50'
1. Full 30 oz/50'
1. CK CK
1. Half 15 oz/50'
Pivot

West

The BioFence Pelletized Mustard Meal trial is being conducted to find alternatives for nematode control in Tobacco. The product used is from Volunteer Ag Products. The trial includes the following: Pelletized Mustard Meal: full rate at 30oz/50 ft., half rate 15oz/50 ft., quarter rate 7.5oz/50 ft, a control with no treatment. This is replicated four times along with the eight rows of the grower standard practice. We will be comparing the control on nematodes by taking nematode soil sample counts and diagnosing plant roots. This will be used to compare the research trial and grower standard during the growing year.

BioFence® is a 100% organic 6-2-0 fertilizer, derived from a specially bred brassica crop and designed to release a spectrum of macro and micronutrients according to the plant's needs and to help naturally rebalance the soil for improved beneficial microbial populations. <http://volunteeragproducts.com/fertilizers/>

Collaborators: Justin Shealey, Echols County Extension; Kim Post, Lanier/Clinch County Extension; Zeb James, Volunteer Ag Products, Herring Farms

Joshua Dawson, Fort Valley State University, Ag and Natural Resources agent  
 Lowndes County Extension, Email: [dawsonj01@fvsu.edu](mailto:dawsonj01@fvsu.edu), Office: (229) 333-5185

**Variety, Pedigree, Sponsor and Disease Resistance of the 2022 Released Variety Test (commercially available varieties), Sidney and Jackson Lord Farm, Suwannee County, FL, (30.14519, 83.16731), 168 Street, Live Oak, FL 32060-5424 cell: 386 362 8503**

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
	PVH 2343								
1.	CC 143	2012 CERT	CC	H	M		R		
2.	CC 1063	2011 CERT	CC	H	M		R		
3.	GL 365	2019 F1 Hybrid	GL	H	R		R		
4.	GL 395	2010 F1 Hybrid	GL	H	M		R		
5.	K 326	1981 McNair 225 (McNair 30 X NC 95 )	GL	L	L		R		
6.	NC 196	2002 F1 Hybrid	GL	H	M		R		
7.	NC 938	2010 F1 Hybrid	NC	H	M		R		
8.	NC 960	2021 F1 Hybrid Wz gene	NC	H	M		R		
9.	NC 1226	2016 F1 Hybrid Wz gene	NC	H	R		R		
10	PVH 1600	2013 F1 Hybrid	PROFIGEN	M	H		M		

<sup>1</sup>Resistance: H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; SU – Susceptible Diseases:  
BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot; R1&3-*Meloidogyne Incognita* Race1 & Race3; Bn. Sp. - Brown spot; TMV - Tobacco Mosaic Virus; PVY - Potato Virus ‘Y’;  
TSWV – Tomato Spotted Wilt Virus; TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus;  
Sponsor: AOI-Alliance One; Clemson-Clemson University; CC-Cross Creek Seed Co; GL-Gold Leaf Seed Company; Gwynn Farms; NCSU-NC State University; ProfiGen – ProfiGen do Brasil;  
RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms;  
ULT-Universal Leaf Tobacco Co

Seeded: 1/18/22; Transplanted 4 11 22;





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development.

### **ATTENTION! PESTICIDE PRECAUTIONS**

1. **Observe all directions, restrictions and precautions on pesticide labels. It is dangerous, wasteful and illegal to do otherwise.**
2. **Store all pesticides in original containers with labels intact and behind locked doors. "KEEP PESTICIDES OUT OF THE REACH OF CHILDREN."**
3. **Use pesticides at correct label dosage and intervals to avoid illegal residues or injury to plants and animals.**
4. **Apply pesticides carefully to avoid drift or contamination of non-target areas.**
5. **Surplus pesticides and containers should be disposed of in accordance with label instructions so that contamination of water and other hazards will not result.**
6. **Follow directions on the pesticide label regarding restrictions as required by State or Federal Laws and Regulations.**
7. **Avoid any action that may threaten an Endangered Species or its habitat. Your county Extension agent can inform you of Endangered Species in your area, help you identify them, and through the Fish and Wildlife Service Field Office identify actions that may threaten Endangered Species or their habitat.**

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**Dr. Nick T. Place, Dean and Director**  
**The University of Georgia College of Agricultural and Environmental Sciences**