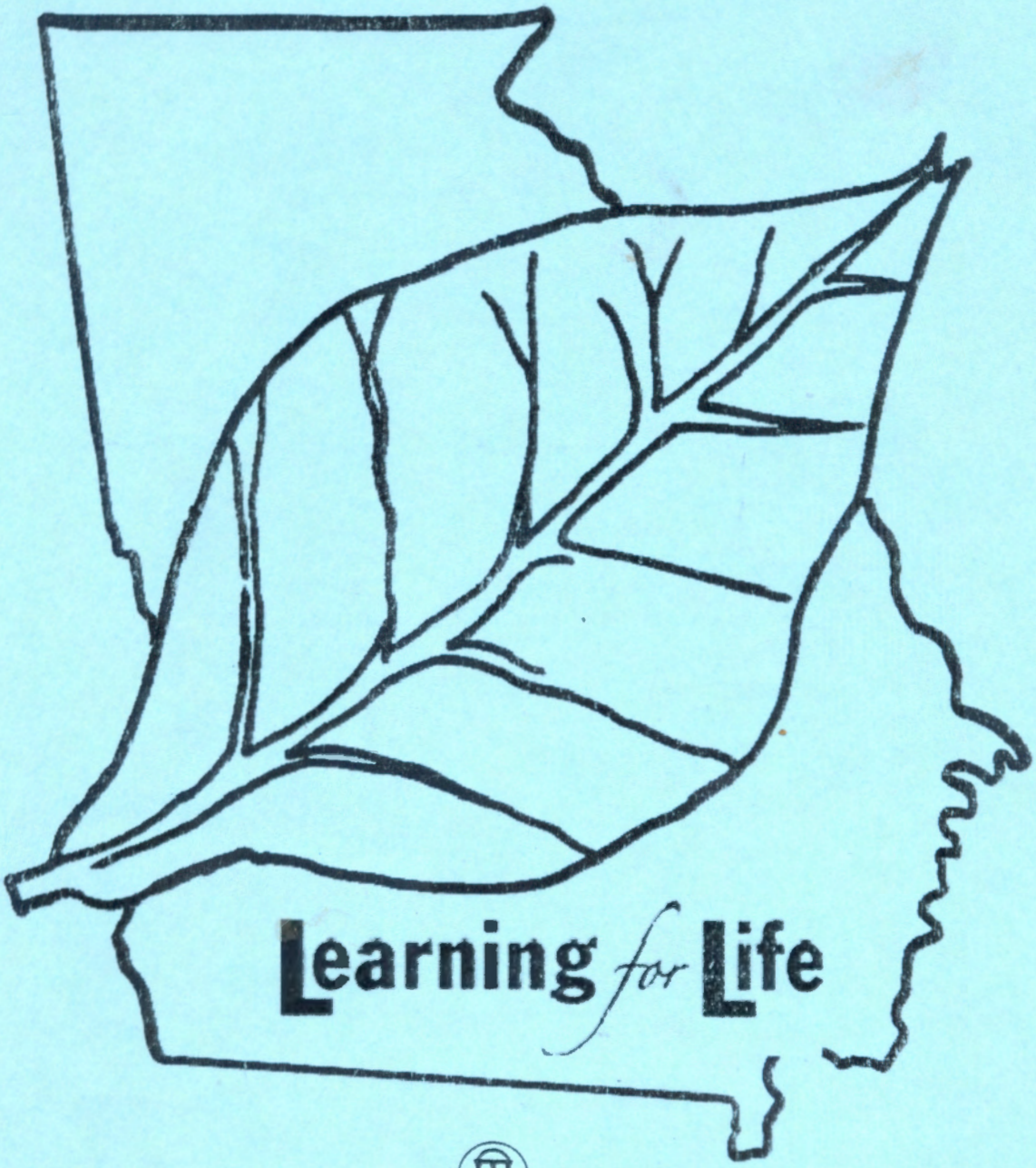
2016
Georgia - Florida Tobacco Tour



The University of Georgia
College of Agricultural & Environmental Sciences

The University of Georgia
College of Agricultural and Environmental Sciences
Cooperative Extension
Tifton, Georgia

EXTENSION OFFICES IN COUNTIES WITH TOBACCO PRODUCTION

County	Phone No.	FAX No.	County	Phone No.	FAX No.
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**

TOBACCO EXTENSION SCIENTISTS (see web site for email addresses)

J. Michael Moore, Extension Agronomist - Tobacco, Editor	229-392-6424	229-386-7308
Paul Bertrand, Extension Pathologist (Retired)	229-520-2019	229-386-7308
Glendon H. Harris, Extension Agronomist - Environmental Soil and Fertilizer	229-386-3194	229-386-7308

TOBACCO RESEARCH SCIENTISTS

Alex Csinos, Plant Pathology, CPES, Tifton (Retired)	229-386-3373	229-386-7285
Rajagopalbabu "Babu" Srinivasan, CPES, Tifton	229-386-3374	229-386-3086
Steve LaHue, Bowen Farm Research Coordinator	229-388-6492	229-386-7293

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

THE UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION
Colleges of Agricultural and Environmental Sciences & Family and Consumer Sciences
2360 Rainwater Rd., Tifton, GA 31793 PH: 229-386-3006 FAX: 229-386-7308 Cell: 229-392-6424

SCHEDULE & DRIVING DIRECTIONS FOR THE 2016 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 13, 2016 http://www.GeorgiaTobacco.com

Travel Mileage Directions

5:00 pm - Check-in **Holiday Inn Hotel & Suites Lake City** **213 SW Commerce Drive**
Lake City, Florida 32025
PH: +1-386 754 1411

7:00 pm - Supper –Directions: From Holiday Inn and Suites to

Ole Times Country Buffet "In The Lake City Mall"
2469 W. US Hwy 90 Suite 106
Lake City, Fl. 32055

	Right out of Holiday Inn onto Commerce Blvd.
0.1	Right on US 90 (stay in Left lane)
0.7	Cross Bascom Norris Dr. at third traffic light
0.1	Left into Lake City Mall between Starbucks and Taco Bell

Tuesday, June 14

Time/Mileage Directions

7:30 am -	**Leave Holiday Inn parking lot.**
	Right out of Holiday Inn onto Commerce Blvd.
0.1	Left on US 90 (stay in left lane)
	Left onto I-75 South
4.7	Right at Exit 423
	Left at bottom of exit 47
0.2	Right onto 242
1.2	Right onto CR 131
4.5	Left into Dicks Farm
7:45 am	**Arrive Roosevelt & Travis Dicks Farm – (Organic Tobacco Production)**
	Roosevelt & Travis Dicks Farm - Columbia County (386-965-1201)
	5821 SW Tustenuggee Ave, Lake City, FL, 32024
	30 °03'00.75"N 82 ° 38'22.55"W
8:05 am	
	Right out of Dicks Farm on Hwy131
1.5	Left onto CR-240
9.6	CR-240 becomes 216th St.
1.0	216th St becomes Market Rd.
0.5	Turn Right on CR-137

Tuesday, June 14

Time/Mileage	Directions
7.3	Turn Left on CR-252
4.0	Cross Hwy 49
4.4	Right onto 249/129
1.2	Left onto CR 252
5.1	Cross CR 349
1.5	Right onto 165th Rd.
2.5	Left onto Hwy 51
0.6	Right into Lord Farm
0.3	Right at Lord home into field
	Plot on right
9:00 am	**Arrive Sidney and Jackson Lord Farm - Suwannee County, FL (386 362 8503)**
	13092 169th Rd, Live Oak, FL 32060-5424
	30 °12'31.69"N 83 ° 05'50.57"W
	(Released Varieties Demonstration)
9:20	
	Left out of field
0.25	Left onto Hwy 51
8.3	Right onto traffic circle
	Right onto 11th Street
0.5	Left onto Hwy 129/51
11.75	Left on Hwy 75
21.0	Right onto Exit 2, Belleville Rd. to Old Staten Road
2.8	Right on Hwy 41
0.1	Left onto Hwy 376, Statenville Road
4.5	Right onto Tince Rd.
0.5	Right onto Corbett Lane
0.1	Left into yard and field. Plot behind pivot.
10:20 am	**Arrive Stanley Corbett Farm – Echols County, GA (229.560.3026)**
	636 Tince Rd., Lake Park, GA 31636
	30°41'33.39N 8306'24.34 °W
	(Black Shank Resistant Varieties Demonstration &
	Black Shank Fungicide Test) - plot next to pivot on Corbett Lane
	- Justin Shealey, Echols County Extension Coordinator
10:45	
	Right onto Corbett Lane
0.1	Left onto Tince Rd.
0.5	Left onto Hwy 376
4.5	Right onto Hwy 41
1.25	Left onto Hwy 376/Lakes Blvd.
1.45	Right onto I-75
59	Right onto Hwy 41 at the UGA Tifton Campus Exit 64
0.05	Left onto Hwy 41
0.1	Left onto RDC Rd
0.05	Left into Tifton Campus Conference Center driveway. Park on side of building.

Tuesday, June 14

Time/Mileage	Directions
12:00 pm	**- SPONSORED LUNCH -** **Tifton Campus Conference Center** **University of Georgia, 15 RDC Road, Tifton, GA** **- lunch Courtesy of: Georgia Tobacco Commission**
1:20 pm	
	Left out of Tifton Campus Conference Center
0	Cross RR Tracks
	Left at stop sign onto Moore Hwy
	Right onto Rainwater Road
0.1	Left onto Entomology Drive, follow drive through fence to Black Shank Nursery
1:30 pm	**Arrive UGA Black Shank Nursery - Rainwater Road, Tifton, GA** **Alex Csinos, Pathologist** **-Evaluation of Tobacco Cultivars and New Fungicides for Management of Tobacco Black Shank** **-Syngenta Tobacco – Black Shank Orondis Gold, 2016**
1:55 pm	
	Right out of Entomology Drive onto Rainwater Road
0.1	Right onto Moore Hwy
0.05	Left onto 20th Street
	Cross RR Tracks
0.9	Cross Tift Avenue at light
0.9	Left at stop light onto Old Omega Road
0.2	Right at light onto Kent Road
1.1	Cross New River Church Road at stop sign onto Arnett Mill Road
0.6	Left onto Hwy 319 toward Omega at the stop sign
1.1	Right onto W. Goat Road (at mile marker 16)
0.6	Left into UGA Bowen Farm
2:10 pm	**Arrive UGA Bowen Farm – 133 W. Goat Rd, Tifton, GA**
2:15 pm	**Rajagopalbab Srinivasan, Entomologist** **Stan Diffie, Entomology Research Coordinator** **Addressing Issues with Thrips and Tomato Spotted Wilt Virus Management in Tobacco**
2:30 pm	**Paul Bertrand, Pathologist** **TSWV vs Transplant Date Trial** **Monitoring Spotted Wilt Incidence with Untreated vs Treated Seedlings** **The 2016 Georgia Blue Mold Epidemic**
2:45 pm	**Alex Csinos, Pathologist** **Evaluation of Cultivars and Nematicides for Root Knot Management** **Evaluation of Experimental Nematicides** **ADAMA – Nimitz Root Knot Nematode on Tobacco**
3:00 pm	**Ron Gitaitis, Pathologist** **Effects of Mineral Elements on Resistance to Tomato Spotted Wilt Virus**

Wednesday, June 15
Time/Mileage Directions

0.8	Right onto Ethridge Lancaster Rd.
0.3	Left onto Avera Cemetery Rd
0.2	Plot on left just past cemetery on right. Road changes to Irene Church Rd.
8:45 pm	**Arrive Brian Lanier Farm - Berrien County (229-507-4042)** **50 Lanier Lane, Nashville, GA 31639 – hm** **(31°09'17.16" N, 83°08'11.27" W) – barns/plot** **(Released Variety Test)** **-Eddie Beasley, County Extension Agent**
9:05	
	Continue on Irene Church Rd to stop sign.
1.0	Left on Empire Church Rd.
0.8	Left onto Sam Watson Hwy Hwy 64
2.7	Left onto Hwy 135
1.6	Right onto Hwy 168
7.3	Right onto Hwy 221/31
9:20 am	**Arrive Ronnie Cook Farm – Lanier County, GA (229-569-0985)** **(Black Shank Resistant Varieties Demonstration,** **Blue Mold Control – Orondis, Presidio)** **- Jeremy Taylor, Lanier County Extension Agent**
9:45	
	Return to stop sign at Hwy 168
2.2	Continue on Hwy 221/31
11.25	Left at stop sign onto Hwy 221/31
2.0	Right at stop sign onto Hwy 82 in Pearson
25.5	Left onto Scapa Rd/U.S. Hwy 1
4.0	Left onto US Hwy 1
2.1	Right onto Johnny Minchew Rd.
3.3	Cross Jamestown Rd. onto Cason Rd.
2.4	Left onto Clifford Loop Rd.
3.0	Cross at stop sign at Big House Rd.
2.3	Right at stop sign onto Sunset Rd
0.1	Bare right at fork
0.1	Right at stop sign onto Old Alma Hwy
0.1	Right into field
10:50 am	**Arrive Scott Strickland Farm, Pierce County, GA 912-449-3179** **Plot: 3514 Old Alma Rd, Blackshear, GA 31516-5734** **31°23'05.77" N, 82°20'37.69" W,** **(Chemical Control of Black Shank w/ Orondis Gold 200, Ridomil Gold & Presidio) & (Black Shank Variety Demonstration)** **-James Jacobs, County Extension Director**
11:10	
	Left out of field, bare right at fork.
0.1	Right at stop sign onto Radio Station Road
5.5	Right onto 10 Mile Church Road
3.0	Left onto Hwy 203

Wednesday, June 15

Time/Mileage	Directions
3.9	Left at stop sign on Hwy 32
0.1	Right on Scuffletown Rd / Hwy 203
0.1	Left on Hwy 203
10.3	Left onto Hwy 15
1.4	Left onto Arnold Rd.
	Demo on left beyond house.

11:45 am **Arrive Danny & Jared Turner Farm, Appling County, GA (912) 367-3858**
8896 GA Highway 121, SE Surrency, GA 31563-3406
31°35.838' N, 82°12.5 20' W
(Released Varieties Demonstration)
-Shane Curry, County Extension Agent

THIS IS THE END OF
THE 2016 GEORGIA-FLORIDA TOBACCO TOUR
HAVE A SAFE TRIP HOME !

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

2016 GEORGIA TOBACCO TOUR

ADAMA

Agri Supply - Statesboro, Tifton, Valdosta

Ag South Farm Credit

Alliance One International

Altria Client Services

Arysta LifeScience

B.F.D. Tobacco Equip Co.

Bayer Crop Sciences

Big Independent Warehouse

Carolina Soil Company

Catalytic Generators

Cureco, Inc.

Dow AgroSciences LLC

Drexel Chemical Co.

Dupont

Fair Products

FMC

F W Rickard Seeds Inc

GoldLeaf Seed Co.

Klasmann-Deilmann Americas, Inc.

Perkins Warehouse

R.J. Reynolds

SQM North America Corp

Syngenta

Universal Leaf, N.A.

U.S. Tobacco Cooperative

Valent

YARA North America

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 sheduled.**

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

Table 1. Variety, Pedigree, Sponsor and Disease Resistance of the 2016 Released Variety Test (commercially available varieties), Sidney and Jackson Lord Farm, Suwannee County, FL, (30°12'31.69"N 83°05'50.57"W), 13092 169th Rd, Live Oak, FL 32060-5424

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	K 326	McNair 225 (McNair 30 X NC95)	Gold Leaf Seed Co	L	L		R		
2.	NC 196	F1 Hybrid	Gold Leaf Seed Co	H	R		R		
3.	GL 395	F1 Hybrid	Gold Leaf Seed Co	M	M		R		
4.	NC 925	F1 Hybrid	GL, RI, CC	H	M		R		
5.	NC 938	F1 Hybrid	GL, RI, CC	H	M		R		
6.	CC 143	F1 Hybrid	Cross Creek Seed	H	R		R		
7.	CC 1063	F1 Hybrid	Cross Creek Seed	H	R		R		
8.	CC 35	F1 Hybrid	Cross Creek Seed	H	L		M.j		
9.	PVH 1118	F1 Hybrid	Rickard	R	M		M.in		
10.	PVH 1600	F1 Hybrid	F.W. Rickard	R	H		M.in		
11.	PVH 2310	F1 Hybrid	F.W. Rickard	L	L	L	M.in M.a		TMV PVY
12.	PVH 1920 (16)	F1 Hybrid	F.W. Rickard	R	R		M.in		

[1]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; RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms; ULT-Universal Leaf Tobacco Co

Seeded: 1/29/16; Transplanted 4/4/16; Admire Pro 1 oz/1000 plts greenhouse drench

ON FARM SCREENING OF SELECTED TOBACCO VARIETIES FOR BLACK SHANK RESISTANCE

A list of eight varieties has been planted in randomized complete blocks at eight locations in Georgia. The varieties chosen for test are four that showed high resistance in 2015 trials plus K-326 as a standard of low resistance and K-346 as a standard of high resistance. The other two (PVH-1118 and PVH-2254) have unknown resistance to black shank. The test varieties are:

CC-1063

NC-606

NC-938

PVH-1118

PVH-1600

PVH-2254

The trials are located as shown in the table below:

COUNTY	CO. AGENT	GROWER
ECHOLS	J. SHEALEY	S. CORBETT
LOWNDES	J. DAWSON	J. HERRING
LANIER	J. TAYLOR	R. COOK
COFFEE	T. BARNES	W. Mc KINNON
COFFEE	M. von WALDNER	B. KIRKLAND
BEN HILL	H. ANDERSON	B. GRIFFIN
BERRIEN	E. BEASLEY	D. HENDLEY
PIERCE	J. JACOBS	S. STRICKLAND

CHEMICAL CONTROL OF BLACK SHANK

Tobacco was subjected to several regimens of chemical treatment for control of black shank. Transplant water treatments of either Ridomil Gold (8.0 oz./acre) or untreated were planted in a randomized complete block with four reps of each treatment. Each rep was four rows of tobacco. Four different layby treatments were laid over this block in a Latin square. This trial is being carried out at three farm locations in Georgia.

LAYBY TREATMENTS:

1. RIDOMIL GOLD @ 16.0 oz./acre
2. PRESIDIO @ 4.0 oz./acre
3. ORONDIS GOLD 200 @ 4.8 oz. + RIDOMIL GOLD @ 8.0 oz./acre
4. NO TREATMENT

FARM LOCATIONS:

COUNTY	CO. AGENT	GROWER
BROOKS	S. HOLLIFIELD	W. ROBINSON
ECHOLS	J. SHEALEY	S. CORBETT
BERRIEN	E. BEASLEY	L. HENDLEY

PLOT MAP FOR 2016 BLACK SHANK CONTROL TRIALS

EACH ROW OF +++++++++++++ = 4 ROWS OF TOBACCO

TRANSPLANT WATER TREATMENTS:

CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++

TRANSPLANT WATER TREATMENTS: LAYBY TREATMENTS .

TPW:	RIDOMIL @ 16 oz	PRESIDIO @ 4 oz	UNTREATED	**ORONDIS[1]**
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++

TPW:	**ORONDIS[1]**	UNTREATED	RIDOMIL @16oz	PRESIDIO @ 4oz
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++

TPW:	UNTREATED	**ORONDIS[1]**	PRESIDIO @ 4oz	RIDOMIL @ 16oz
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++

TPW:	PRESIDIO @ 4oz	RIDOMIL @16oz	**ORONDIS[1]**	UNTREATED
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++

1. ORONDIS LAYBY TREATMENT IS UNDERSTOOD TO BE: ORONDIS GOLD 200 @ 4.8 oz./acre + RIDOMIL GOLD @ 8.0 oz./acre

EVALUATION OF TOBACCO CULTIVARS AND NEW FUNGICIDES FOR MANAGEMENT OF TOBACCO BLACK SHANK, 2016.

502 A	502 B	502 C	502 D	501 A	501 B	501 C	501 D	503 A	503 B	503 C	503 D	504 A	504 B	504 C	504 D
404 A	404 B	404 C	404 D	402 A	402 B	402 C	402 D	401 A	401 B	401 C	401 D	403 A	403 B	403 C	403 D
302 A	302 B	302 C	302 D	301 A	301 B	301 C	301 D	303 A	303 B	303 C	303 D	304 A	304 B	304 C	304 D
203 A	203 B	203 C	203 D	204 A	204 B	204 C	204 D	202 A	202 B	202 C	202 D	201 A	201 B	201 C	201 D
101 A	101 B	101 C	101 D	103 A	103 B	103 C	103 D	104 A	104 B	104 C	104 D	102 A	102 B	102 C	102 D

TREATMENTS:

1. SP-225
2. NC-71
3. K-326
4. NC-196

A = NON-TREATED
B = RIDOMIL GOLD 1/2 PT TPW + 1 PT LAYBY
C = RIDOMIL GOLD + PERSIDIO (1/2 PT TPW + 4 OZ LAYBY)
D = ORANDIS GOLD + PERSIDIO (13.7 OZ tpw + 4 OZ LAYBY)
(A21723)

04/20/2018

Syngenta Tobacco -- Black Shank Orondis Gold. 2016.
Protocol FOP48A3 - 2016 USA

505	507	502	504	506	501	503	508
406	408	407	402	401	404	405	403
302	301	303	305	307	306	308	304
208	203	205	206	204	202	207	201
104	105	108	101	103	107	102	106

	Fl oz/A	
1. Non-treated		
2. A21723	9.8	TPW
Ridomil Gold	8.0	Band Lay By
3. A21723	13.7	TPW
Ridomil Gold	8.0	Band Lay By
4. A21008	4.8	TPW
Ridomil Gold	6.0	TPW
Ridomil Gold	8.0	Band Lay By
5. A21723	9.8	TPW
Ridomil Gold	8.0	1st Cultivation
Ridomil Gold	8.0	Lay By
6. A21723	9.8	TPW
Ridomil Gold	8.0	1st Cultivation
Presidio	4.0	Lay By
7. Ridomil Gold	8.0	TPW
A21723	13.7	1st Cultivation
Presidio	4.0	Lay By
8. A21723	13.7	TPW
Presidio	4.0	Lay By

Plot Size: 1 row - 30 feet (4 feet wide) - 5 replications. RCBD

DATA: Stand Counts, Vigor, Phyto, TSWV, Black Shank, Yield.

24-Mar-16

Addressing issues with thrips and *Tomato spotted wilt virus* management in Tobacco

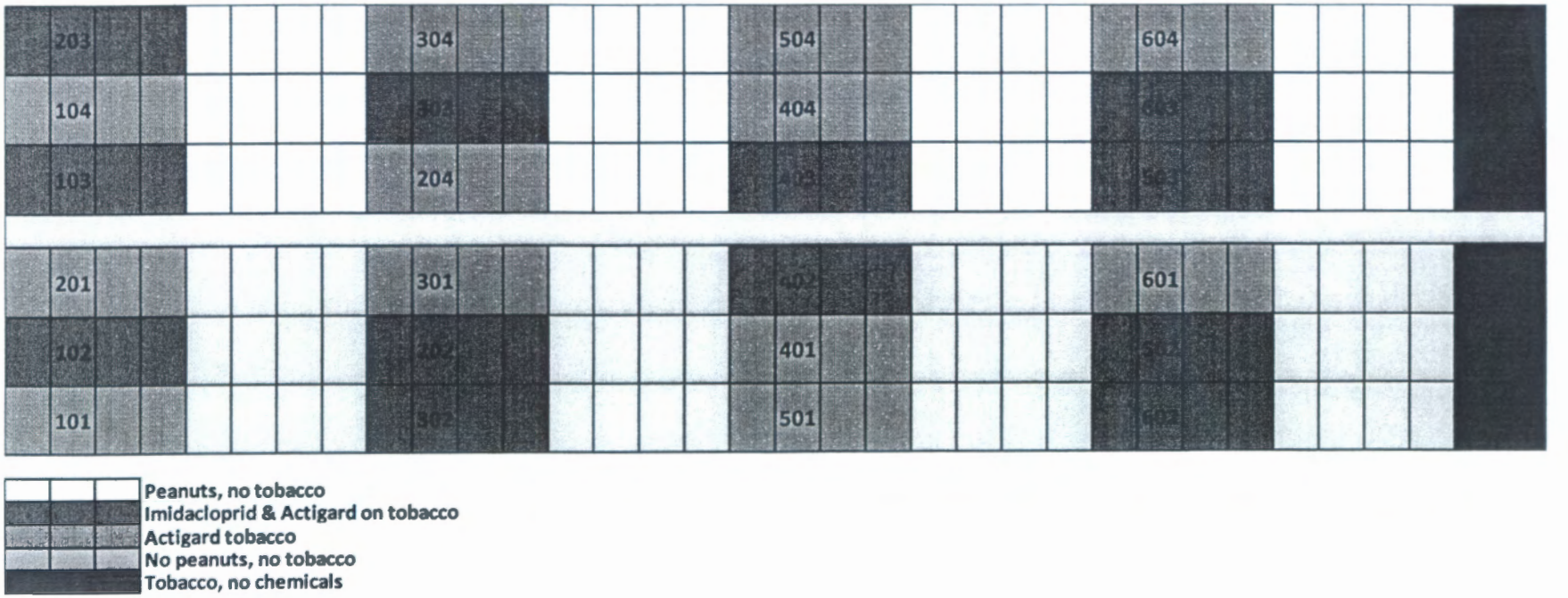
R. Srinivasan[1], S. Diffie[1], and A. Csinos[2]

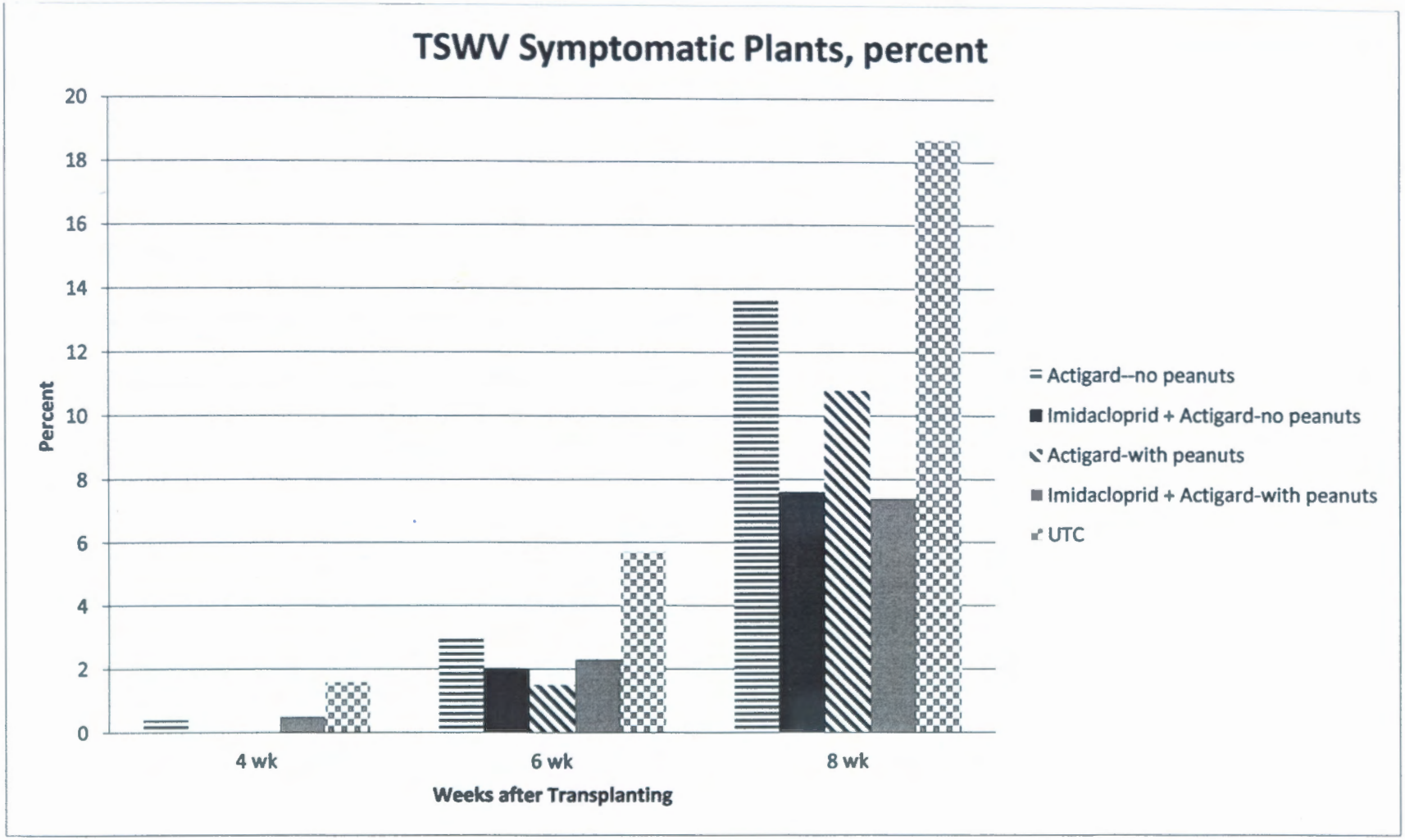
[1]Department of Entomology [2]Department of Plant Pathology, University of Georgia, Tifton Campus

Though not as severe as in the 1990s or early 2000s, *Tomato spotted wilt virus* (TSWV) still remains a concern for tobacco growers in Georgia and in the southeastern United States. Despite the declining trend, percent TSWV infection in some Tifton fields was recorded at 20% in 2014 and between 10 and 15% in 2015. Tobacco, unlike vegetable crops that have resistance to TSWV induced by major genes such as *Sw-5* or *Tsw*, possesses no resistance at all. TSWV infection also leaves severe symptoms on the foliage, thereby posing a threat to leaf quality.

The role of cropping systems is examined in the current study. Previous studies at the Tifton Campus Bowen Farm indicated higher incidence of TSWV in tobacco plots containing volunteer peanut plants. These fields appeared to have 5-10% more TSWV infected plants than fields without volunteer peanuts. The peanuts could have been serving as a host to the thrips population, as well as, to TSWV.

The 2016 study includes two blocks, one containing peanuts and one without peanuts. Within the blocks are two treatments—(1) Actigard applied as a tray drench and (2) Actigard and imidacloprid applied as a tray drench plus imidacloprid sprayed over the top two weeks after transplanting. An adjacent planting of tobacco serves as the untreated control plots. Preliminary data suggests TSWV infection rates will be significant in 2016. Counts taken in the current study two months after transplanting indicate infection rates (number of symptomatic plants per plot) ranging from 7.4% to 18.7%. The two treatments containing imidacloprid provided better control than the Actigard alone at 8 weeks post treatment (7.4 and 7.6% to 10.8 and 13.6%). The untreated control plots had 18.7% infection at this point. The plots containing peanuts did not have a higher infection rate at 4, 6, or 8 weeks post treatment.


203
304
504
604
104
404
103
204
201
301
601
102
401
101
501
Peanuts, no tobacco
Imidacloprid & Actigard on tobacco
Actigard tobacco
No peanuts, no tobacco
Tobacco, no chemicals


TSWV Symptomatic Plants, percent
Percent
20
18
16
14
12
10
8
6
4
2
0
4 wk
6 wk
8 wk
Weeks after Transplanting
Actigard--no peanuts
Imidacloprid + Actigard-no peanuts
Actigard-with peanuts
Imidacloprid + Actigard-with peanuts
UTC

THE EFFECT OF TRANSPLANT DATE ON SPOTTED WILT INCIDENCE AND CONTROL WITH AN ACTIGARD/ADMIRE PRO SEEDLING TREATMENT

Tobacco was transplanted weekly for five weeks in a randomized complete block with four reps. Each rep of each date was split with one row being untreated seedlings and the adjacent row being seedlings treated with Actigard and admire pro. Actigard and Admire Pro treatments were made individually for each transplant date. Actigard was applied as a foliar spray (1.0 oz./100,000) seedlings seven days pre transplant. Admire Pro was applied as a spray on/rinse off tray drench three days pre transplant (1.0 oz./1,000 tray cells).

The transplant dates were:

23 MARCH – GREEN FLAG

30 MARCH – ORANGE FLAG

06 APRIL – WHITE FLAG

13 APRIL – YELLOW FLAG

20 APRIL – BLUE FLAG

% TSWV AT 6 WEEKS[1]

TP DATE	CK[2]	A+A[3]
23 MARCH	6.6	2.1
30 MARCH	9.8	3.2
06 APRIL	10.4	1.1
13 APRIL	11.4	2.2
20 APRIL	19.1	2.6

1. % TSWV at 6 weeks is the spotted wilt incidence at 6 weeks after transplant for each transplant date
2. CK is % Spotted wilt in plants grown from untreated seedlings
3. A+A is % spotted wilt in plants grown from seedlings treated with a foliar spray of Actigard 50WG @ 1.0 oz./100,000 seedlings followed by a spray on/rinse off tray drench of Admire Pro @ 1.0 oz./1,000 tray cells

2016 BOWEN FARM TRANSPLANT TRIAL

TP5 20 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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TP1 23 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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TP2 30 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

……

TP3 06 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP3 06 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP1 23 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP2 30 MARCH -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP5 20 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -CK XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TP4 13 APRIL -AA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

MONITORING SPOTTED WILT INCIDENCE WITH UNTREATED vs TREATED SEEDLINGS

Recommended treatments for spotted wilt management are being evaluated at 7 locations in and around Coffee County Georgia. Each test consists of 4 trays of untreated seedlings planted among treated seedlings on 7 farms. Treatment may be Actigard and imidacloprid or imidacloprid alone as each cooperator chooses. Spotted wilt evaluations are done on the entire contents of each untreated tray and an adjacent treated tray every two weeks beginning two weeks after transplant and continuing until 12 weeks after transplant.

%TSWV AT 6 WEEKS AFTER TRANSPLANT

GROWER	CK[1]	AD[2]	A+A[3]
TA	34.1	18.9	
NH2	9.5	5.7	
JC	14.3		4.6
WM	26.7		16.1
KW	31.2		14.4
RS	32.6		23.6
NH1	48.1		32.8

1. % Spotted wilt in plants grown from untreated seedlings
2. % spotted wilt in plants grown from seedlings treated with a spray on/rinse off tray drench of Admire Pro @ 0.8-1.0 oz./1,000 tray cells
3. % spotted wilt in plants grown from seedlings treated with a foliar spray of Actigard 50WG @ 1.0 oz./100,000 seedlings followed by a spray on/rinse off tray drench of Admire Pro @ 0.8-1.0 oz./1,000 tray cells

THE 2016 RHIZOCTONIA STEM ROT SITUATION

Several farms experienced moderate to severe stand loss due to Rhizoctonia stem rot in 2016. In all cases the tobacco was following a 2015 peanut crop. Fields showed a high incidence of volunteer peanuts and numerous whole non germinated peanuts on the soil surface. In most cases the field soil was wet at transplant or wetted shortly after with irrigation. Means of control are being discussed.

THE 2016 GEORGIA BLUE MOLD EPIDEMIC

Blue mold was discovered in coffee county plant houses Easter weekend of 2016. Blue mold was last reported in Georgia in 2003. Growers were advised as to best options. Actigard 50WG was applied to seedlings large enough to withstand treatment at several locations. (200-300 trays with necrotic seedlings and seedlings showing systemic blue mold were discarded. The weather turned dry and spread in the plant houses appeared to halt. At transplanting the seedlings looked fairly good and were set in fields. By early to mid-May blue mold begin to show up in fields where these plants had been set. Spray programs were recommended and appeared to be effective where applied. Warm (mid 80's to low 90's) dry weather developed and by late May most of the lesions were no longer active, however detailed looking could find a few active lesions on a number of farms. As of 2 June blue mold activity continues to decline, however it may remain active to some degree in wetter/shaded row ends. Formerly active lesions are becoming necrotic and in some cases leaves that will become lugs will have significant loss. Loss in the mid- and upper stalk is expected to be minimal at this time.

Evaluation of Tobacco Cultivars and Nematicides for Root Knot Manaement. 2016.

Skip Row									Skip Row
	601-A	601-B	603-B	603-A	602-A	602-B	604-B	604-A	
	503-A	503-B	504-B	504-A	501-A	501-B	502-B	502-A	
	404-A	404-B	401-B	401-A	402-A	402-B	403-B	403-A	
	302-A	302-B	304-B	304-A	303-A	303-B	301-B	301-A	
	201-A	201-B	203-B	203-A	202-A	202-B	204-B	204-A	
	103-A	103-B	102-B	102-A	104-A	104-B	101-B	101-A	

Treatment

1-A. NC-196
2-A. K-326
3-A. K-394
4-A. CC-35

1-B. NC-196 + Velum Total
2-B. K-326 + Velum Total
3-B. K-394 + Velum Total
4-B. CC-35 + Velum Total

Plots 30 ft long, 15 ft ally ways, single row with 20 plants, 6 replications -- paired plot trial.

02/22/2016

Evaluation of Experimental Nematicides. 2016. Planted April 13

604	605	601	602	603
502	501	505	503	504
401	404	403	405	402
303	302	304	301	305
205	203	202	204	201
104	105	101	103	102

1. K-394
2. K-394 + Velum Privledge + Admire (6.5 oz + 4.0 oz) at Plant TPW
   + 6.5 oz + 4.0 oz (2-3 wks)
3. K-394 + Nimitz TPW 0.5 pt + 0.5 pt (2-3 wks)
4. K-394 + Telone 6 gal/A in row 2 wks PPI - Applied March 22
5. K-394 + Nimitz 1 1/4 pt 12" band PPI

Single row plots, 30 ft long, 15 ft ally, replicated 6 times.

6/7/2016

ADAMA - Nimitz Root Knot Nematode on Tobacco. 2016

506	507	502	505	504	501	503
402	405	407	401	406	403	404
304	307	306	303	302	305	301
205	204	201	207	203	202	206
101	106	103	102	105	104	107

TREATMENT	RATE/A	SPRAY INTERVAL	APPL. CODE
1. Nimitz	1.75 pt	7-14 days before transplant	A-PPI braodcast
2. Nimitz	2.50 pt	7-14 days before transplant	A-PPI broadcast
3. Nimitz	3.50 pt	7-14 days before transplant	A-PPI boadcast
4. Nimitz	0.875 pt	7-14 days before transplant	B-PPI 12" banded
5. Nimitz	1.25 pt	7-14 days before transplant	B-PPI 12" banded
6. Nimitz	1.75 pt	7-14 days before transplant	B-PPI 12" banded
7. Telone II	6 gal	21 days before transplant	Fumigation
8. Untreated			

(Rates are already adjusted to 48 inch beds.) Effective rates: 3.5 - 7 pt/acre.

A=Broadcast, cultivate in 6-8 inch deep, then form the beds. Adjust broadcast rate down to "treated acre" based upon bed width.
B=If applying in a band, use proportionally less product. For example use 1/4 of broadcast rate when treating a 12 inch band where the row spacing is 48 inch. Applications should be made as customary for the crop. Do not concentrate treated soil into beds when rows are being formed. Cultivate 6-8 inches deep.
SUPPLEMENTAL IRRIGATION: All application methods require supplemental irrigation 3-5 days after the application, 0.5 inch-1 inch of irrigation is desired.
PRE-PLANT INTERVAL: 7-14 days.

Crop: Tobacco

Crop Destruct: Yes

Pest: Root Knot Nematode

Replication: 5

Experimental Design: RCBD

Plot Size: 1 row X 30 ft

2016 Tobacco Variety Tests
Field 6632

Regional Small Plot Test

1. NC 95
2. K 326
3. XHN 66
4. NCEX 82
5. CU 147
6. NCEX 81
7. NCEX 83
8. CU 224
9. NCEX 85
10. PXH 24
11. CU 223
12. CU 193
13. NCEX 80
14. NCEX 84
15. PXH 23
16. CU 200
17. PXH 22
18. CU 225
19. CU 227
20. CU 222

Official Variety Test

1. K 346
2. K 730
3. K NC 71
4. NC 72
5. NC 196
6. NC 606
7. NC 925
8. NC 938
9. NC 940
10. CC 13
11. CC 27
12. CC 35
13. CC 37
14. CC 143
15. CC 700
16. CC 1063
17. PVH 1015
18. PVH 1118
19. PVH 1452
20. PVH 1600
21. PVH 1920
22. PVH 2110
23. PVH 2254
24. PVH 2275
25. PVH 2310
26. SP 225
27. GF 318
28. GL 394
29. GL 395
30. GL 398
31. NC 970
32. XHN 60
33. GL 976
34. CU 201
35. NC 971
36. NC 972

Rep 3	19	3	7	16	14	20	9	4	12	1	14	31	22	10	24	13	33	9	27	16	2	8	21	35	23	1	19	3
	15	5	8	11	13	18	2	10	6	17	6	17	5	28	30	32	11	34	36	4	18	12	15	26	7	29	25	20
Rep 2	7	9	14	17	19	3	12	6	13	18	23	29	16	20	33	27	19	30	25	1	34	24	18	31	12	3	14	36
	5	2	11	15	4	10	1	20	8	16	11	8	2	5	17	21	35	7	32	15	10	4	26	6	28	9	22	13
Rep 1	20	19	18	17	16	15	14	13	12	11	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Road

2016 Regional Farm Test
Field 6632

1. NC 95
2. K 326
3. ULT 115
4. NCEX 78
5. CU 218
6. NCEX 79
7. XHN 65
8. CU 206
9. ULT 123
10. XHN 58
11. CU 220
12. CU 213
13. GLEX 365
14. NCEX 73
15. CU 219
16. CU 214

Rep 3&6	312	612	310	610	304	604	316	616	308	608	303	603	306	606	311	611
	314	614	309	609	301	601	307	607	313	613	302	602	315	615	305	605
Rep 2&5	206	506	204	504	215	515	210	510	216	516	208	508	212	512	203	503
	213	513	207	507	205	505	209	509	202	502	214	514	211	511	201	501
Rep 1&4	116	416	115	415	114	414	113	413	112	412	111	411	110	410	109	409
	101	401	102	402	103	403	104	404	105	405	106	406	107	407	108	408

Road

2016 FLUE-CURED REGIONAL SMALL PLOT										
GEORGIA, SOUTH CAROLINA, NORTH CAROLINA, AND VIRGINIA										
Trt. No	Variety or Line	Generation or Year of Release	Pedigree	BS	GW	FW	RK	Bn. Sp.	Virus	Sponsor
1	NC 95	1961	(C-139XBel.4-30)x(C-139XHicks)	L	H	M	R			NC
2	K 326	1981	McNair 225 (McNair 30 X NC95)	L	L		R			GL
3	XHN 66	F1	Hybrid							Rickard
4	NCEX82	F1	Hybrid							NC
5	CU 147	F1	Hybrid							SC
6	NCEX81	F1	Hybrid							NC
7	NCEX83	F1	Hybrid							NC
8	CU 224	F1	Hybrid							SC
9	NCEX85	F1	Hybrid							NC
10	PXH 24	F1	Hybrid							Rickard
11	CU 223	F1	Hybrid							SC
12	CU 193	F1	Hybrid							SC
13	NCEX81	F1	Hybrid							NC
14	NCEX84	F1	Hybrid							NC
15	PXH 23	F1	Hybrid		H		M.incog.		TMV	Rickard
16	CU 200	F1	Hybrid							SC
17	PXH 22	F1	Hybrid	R	H		M.incog.		TMV	Rickard
18	CU 225	F1	Hybrid							SC
19	CU 227	F1	Hybrid							SC
20	CU 222	F1	Hybrid							SC

[1]Resistance; H - High; M - Moderate; L - Low; R - Resistance; T - Tolerant; Su - Susceptable
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Know; Bn. Sp. - Brown Spot;
TMV - Tobacco Mosaic Virus; PVY - Potato Vius 'y'; TSMV - Tomato Spotted Wilt Virus;
TCN - Tobacoo Cyst Nematode; TEV - Tobacco Etch Virus; M.j. - Meloidogyne javanica

2016 FLUE-CURED REGIONAL FARM TEST										
GEORGIA, SOUTH CAROLINA, NORTH CAROLINA, AND VIRGINIA										
Trt. No	Variety or Line	Generation or Year of Release	Pedigree	BS	GW	FW	RK	Bn. Sp.	Virus	Sponsor
1	NC 95	1961	(C-139 X Bel. 4-30)X(C-139 X Hicks)	L	H	M	R			NC
2	K 326	1981	McNair 225(McNair 30 X NC 95)	L	L		R			GL
3	ULT 115	F1	Hybrid						TMV	Universal
4	NCEX78	F1	Hybrid							NC
5	CU 218	F1	Hybrid							SC
6	NCEX79	F1	Hybrid							NC
7	XHN 65	F1	Hybrid							Rickard
8	CU 206	F1	Hybrid							SC
9	ULT 123	F1	Hybrid						TMV	Universal
10	XHN 58	F1	Hybrid	R		R	M.inco	M.ar	PVY/TMV	Rickard
11	CU 220	F1	Hybrid							SC
12	CU 213	F1	Hybrid							SC
13	GLEX 365	F1	Hybrid							GL
14	NCEX73	F1	Hybrid							NC
15	CU 219	F1	Hybrid							SC
16	CU 214	F1	Hybrid							SC

[1]Resistance; H - High; M - Moderate; L - Low; R - Resistance; T - Tolerant; Su - Susceptable
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Know; Bn. Sp. - Brown Spot;
TMV - Tobacco Mosaic Virus; PVY - Potato Virus 'y'; TSMV - Tomato Spotted Wilt Virus;
TCN - Tobacoo Cyst Nematode; TEV - Tobacco Etch Virus; M.j. - Meloidogyne javanica

2016 NORTH CAROLINA FLUE-CURED TOBACCO OFFICIAL VARIETY TEST

Commercial Varieties

Trt. No	Variety or Line	Generation or Year of Release	Pedigree	BS	GW	FW	RK	Bn. Sp.	Virus	Sponsor
1	NC 471	2003	Hybrid	R	R				TMV	Raynor
2	CC 35	2007	Hybrid	R	R		M.j/R			CC
3	PVH 1600	2013	Hybrid	R	H		M.incog/R			Rickard
4	GL 398	2013	Hybrid	R	R		R			GL
5	PVH 1920	2014	Hybrid	R	R		M.incog/R			Rickard
6	CC 143	2012	Hybrid	R	R		R			CC
7	PVH 2254	2011	Hybrid		H		M.incog/R		TMV	Rickard
8	K 346	1988	McNair 926x80241	H	M		R			Rickard
9	NC 299	2001	Hybrid	R	R		TCN/R			CC
10	CC 13	2005	Hybrid	R	R		M.j/R			CC
11	CU 144	2012	Hybrid							SC
12	NC 71	1995	Hybrid	H	L		M.incog/R			NC
13	PVH 1452	2006	Hybrid	R	M		M.incog/R			Rickard
14	PVH 2110	2005	Hybrid		M		M.incog/R			Rickard
15	CC 27	2003	Hybrid	R	R		TCN/R		TMV	CC
16	NC 925	2010	N/A	H	M		R			Rickard
17	NC 606	1998	NC 729 X NC 82	R	R		R			Raynor
18	PVH 2275	2010	Hybrid	R		M	M.ico	M.a	PVY/TMV	Rickard
19	CC 700	2005	Hybrid	R	R		TCN/R			CC
20	NC 72	1996	Hybrid	H	L		R			Rickard
21	GF 318	2008	Hybrid	R	R		R			Raynor
22	NC 940	2014	Hybrid				R			NC
23	NC 196	2002	Hybrid	H	M		R			GL
24	CC 37	2006	Hybrid	R	R		TCN/R	M.j/R	TMV	CC
25	PVH 1118	2004	Hybrid	R	M		M.incog/R			Rickard
26	PVH 1015	2014	Hybrid	R	M		M.incog/R			Rickard
27	PVH 2310	2013	Hybrid	R	M	L	M.inco	M.ar	PVY/TMV	Rickard
28	CU 159	2013	Hybrid							SC
29	CC 67	2008	Hybrid	R	R		TCN/R		TMV	CC
30	K 326	1981	McNair 225 (McNair 30 x NC 95)	L	L		R			GL
31	CU 204	2014	Hybrid							SC
32	NC 938	2012	Hybrid	R	R		R		TMV	NC
33	GL 394	2014	Hybrid							GL
34	CC 33	2008	Hybrid	R	R		M.j/R			CC
35	GL 395	2010	Hybrid	M	M		R			GL
36	GL 309	2014	Hybrid							GL
37	CC 1063	2011	Hybrid	R	R		R			CC
38	K 730	1989	McNair 926 x 80241	H	M		R			GL
39	NC 970	2015	Hybrid							NC
40	PVH 2360	2015	Hybrid	R	R	R	M.incog	M.ar	TMV	Rickard
41	GL 976	2015	Hybrid							GL
42	CU 201	2015	Hybrid							SC
43	NC 971	2015	Hybrid							NC
44	NC 972	2015	Hybrid							NC
45	CU 183	2015	Hybrid							SC
46	GL 328	2015	Hybrid						TMV	GL

[1]Resistance; H - High; M - Moderate; L - Low; R - Resistance; T - Tolerant; Su - Susceptable
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Know; Bn. Sp. - Brown Spot;
TMV - Tobacco Mosaic Virus; PVY - Potato Vius 'y'; TSMV - Tomato Spotted Wilt Virus;
TCN - Tobacoo Cyst Nematode; TEV - Tobacco Etch Virus; M.j. - Meloidogyne javanica

Revised 5-23-2016

2016 Regional Sucker Control Test

407	406	405	404	403	402	401
305	303	307	302	306	301	304
203	205	201	206	204	207	202
101	102	103	104	105	106	107
Road						

Treatments:

1.) 0.5 gal flumetralin + 2.0 gal MH (tankmix before 1st harvest)

2.) 0.5 gal flumetralin + 1.5 gal MH (tankmix before 1st harvest)

3.) 0.5 gal flumetralin + 1.0 gal MH (tankmix before 1st harvest)

4.) 0.5 gal flumetralin (before 1st harvest) + 2.0 gal MH (after 1st harvest)

5.) 0.5 gal flumetralin (before 1st harvest) + 1.5 gal MH (after 1st harvest)

6.) 0.5 gal flumetralin (before 1st harvest) + 1.0 gal MH (after 1st harvest)

7.) Non-treated

Notes:

-All treatments except 7(non-treated) receive 2 contacts at 4% then 5% per recommendations.

-MH rates reflect 1.5 lb ai/gal formulation.

-Monitor/record hourly rainfall up to three days after MH application

-Monitor/record daily rainfall from first MH application through final harvest

-Sample one pound of whole cured leaf from each stalk position in each plot

-Grind each sample of cured tobacco, collect 100 grams of ground leaf for residue analysis

-MH residues will be analyzed by stalk position within each plot

-Flumetralin residues analyzed from treatments 2 and 5 only

-Collect sucker control data from 10 plants/plot (total sucker number and total sucker wt)

Bowen Farm Transplant Water Fertilizer Test - 2016

J. Michael Moore, Extension Agronomist - Tobacco

Stevan LaHue, Research Coordinator

	Treatment	Per 100 gal TPW / A	Per 5 gal mix	Visual Ratings 1-5, 5 = best 4/25/2016	5/5/2016
1	Non-Treated			1	1
2	Ultrasol 9-45-15	13.3 lb	181 g in 3 gal	3.8	3.25
3	Ultrasol 9-45-15	20 lb	271 g in 3 gal	4.75	4
4	Chem-Start 7-20-0	1.5 gal/A	283 ml	4	3
5	Chem-Start 7-20-0	2.0 gal/A	377 ml	3.5	3.75
6	Quick Kicker Plus 6-2(	1.5 gal/A	283 ml	3.75	3
7	Quick Kicker Plus 6-2(	2.0 gal/A	377 ml	3.75	3.25
8	Black Label 6 20 0	1.5 gal/A	283 ml	4	3.5
9	Black Label 6 20 0	2.0 gal/A	377 ml	4.25	3.75
10	10 34 0	1.25 gal/A	236 ml	4.25	3.75
11	10 34 0	1.75 gal/A	330 ml	4.5	4.25
12	Nachurs 9 18 9	1.0 gal/A	188 ml	3.25	3.5
13	Nachurs 9 18 9	1.5 gal/A	283 ml	4.75	4.75
14	Ultrasol 9-45-15	8 lb	181 g	4	3
15	Ultrasol 9-45-15	12 lb	271 g	4.5	3.5

Plot stake is in the left row.
Plot Numbers: First digit = rep. number, Third digit = treatment number

Row Length: 59' (30 plants) X 1 rows X 4 reps = 0.01988 A/Trt
Tranplanted: 4/18/16
Variety: K 326; Transplant water:100 gpa
Admire Pro 1.0 oz/1000 plts
Coragen; 7.0 oz/A
Visual Ratings: 1- 5; lowest - greatest
4 25 16
5 5 16

2016 Bowen Farm Transplant Water Fertilizer Test

	413		412		411		410		409		408		407		406		405		404		403		402		401		415		414
	307		314		312		313		302		311		301		304		309		305		310		308		306		315		303
	206		205		208		201		210		212		214		213		202		211		207		209		204		203		215
	101		102		103		104		105		106		107		108		109		110		111		112		113		115		114

First row on North is next to first treated row of variety test.

N <-> S

2016 Bowen Farm Orondis, Presidio, Ridomil Gold Rates Test

J. Michael Moore, Extension Agronomist - Tobacco

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

Border row on North is next to grassed alley.

N <-> S

Trt No	Product	Appl Rate Rate Unit
1	Untreated Check	
2	Presidio	2 fl oz/a
3	Orondis Gold 200	2.4 fl oz/a
	Ridomil Gold SL	4 fl oz/a
4	Presidio	4 fl oz/a
5	Orondis Gold 200	4.8 fl oz/a
	Ridomil Gold SL	8 fl oz/a
6	Presidio	6 fl oz/a
7	Orondis Gold 200	9.6 fl oz/a
	Ridomil Gold SL	16 fl oz/a
8	Presidio	8 fl oz/a
9	Orondis Gold 200	9.6 fl oz/a

Transplanted: April 22, 2016
Variety: K 326
Admire Pro 1 oz/1000 plts greenhouse drench
Phytotoxicity observations:
Blue Mold observations:

2016 Foliar Tobacco Budworm Insecticide Test

University of Georgia, Tifton Campus Bowen Farm
133 W. Goat Road, Tifton, GA 31794
J. Michael Moore, Extension Agronomist - Tobacco
Stevan LaHue, Bowen Farm Senior Agricultural Specialist

Trt	Material	Formulation	Rate	Application Method	% Control 7 DAT	% Control 10 DAT
1	Dipel	DF	0.5 lb/A	Foliar	73	88
2	Dipel	DF	1 lb/A	Foliar	48	83
3	Coragen	SC 1.67	3 oz/A	Foliar	80	84
4	Coragen	SC 1.67	5 oz/A	Foliar	75	94
5	Belt	SC 4.0	2 oz/A	Foliar	79	91
6	Belt	SC 4.0	3 oz/A	Foliar	56	81
7	Blackhawk		2.2 oz/A (wt)	Foliar	65	84
8	Blackhawk		2.8 oz/A (wt)	Foliar	87	94
9	Brigade	2 EC	4.0 oz/A	Foliar	55	70
10	Check				46	75

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

2 row plots (50' x 44"); 4 reps no borders 35 gpa 4 gallon mix 3 x TX-18 nozzles	Treat 2 plot rows. Count TBW 5-31-16 Treatment Date: 5-31-16 7 DAT: 6-7-16 10 DAT: 6-10-16

CHEMICAL CONTROL OF BLACK SHANK

Tobacco was subjected to several regimens of chemical treatment for control of black shank. Transplant water treatments of either Ridomil Gold (8.0 oz./acre) or untreated were planted in a randomized complete block with four reps of each treatment. Each rep was four rows of tobacco. Four different layby treatments were laid over this block in a Latin square. This trial is being carried out at three farm locations in Georgia.

LAYBY TREATMENTS:

1. RIDOMIL GOLD @ 16.0 oz./acre
2. PRESIDIO @ 4.0 oz./acre
3. ORONDIS GOLD 200 @ 4.8 oz. + RIDOMIL GOLD @ 8.0 oz./acre
4. NO TREATMENT

FARM LOCATIONS:

COUNTY	CO. AGENT	GROWER
BROOKS	S. HOLLIFIELD	W. ROBINSON
ECHOLS	J. SHEALEY	S. CORBETT
BERRIEN	E. BEASLEY	L. HENDLEY

PLOT MAP FOR 2016 BLACK SHANK CONTROL TRIALS

EACH ROW OF ++++++++++++ = 4 ROWS OF TOBACCO

TRANSPLANT WATER TREATMENTS:

CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
CHECK	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++
RIDOMIL (8oz/acre)	++++++++++++++	++++++++++++++++	++++++++++++++	++++++++++++++++

TRANSPLANT WATER TREATMENTS:	LAYBY TREATMENTS			
TPW:	RIDOMIL @ 16 oz	PRESIDIO @ 4 oz	UNTREATED	**ORONDIS[1]**
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
TPW:	**ORONDIS[1]**	UNTREATED	RIDOMIL @16oz	PRESIDIO @ 4oz
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
TPW:	UNTREATED	**ORONDIS[1]**	PRESIDIO @ 4oz	RIDOMIL @ 16oz
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
TPW:	PRESIDIO @ 4oz	RIDOMIL @16oz	**ORONDIS[1]**	UNTREATED
CHECK	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++
RIDOMIL (8 oz/acre)	+++++++++++++++	+++++++++++++++	+++++++++++++++	++++++++++++++++

1. **ORONDIS LAYBY TREATMENT IS UNDERSTOOD TO BE: ORONDIS GOLD 200 @ 4.8 oz./acre + RIDOMIL GOLD @ 8.0 oz./acre**

Table 1. Variety, Pedigree, Sponsor and Disease Resistance of the 2016 Released Variety Test (commercially available varieties), Brian Lanier Farm, Berrien County, GA. (31°09'17.16" N, 83°08'11.27" W), 5361 Mudd Creek Rd, Nashville, GA – home/plot, Eddie Beasley, County Extension Agent

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	K 326	McNair 225 (McNair 30 X NC95)	Gold Leaf Seed Co	L	L		R		
2.	NC 196	F1 Hybrid	Gold Leaf Seed Co	H	R		R		
3.	GL 395	F1 Hybrid	Gold Leaf Seed Co	M	M		R		
4.	NC 925	F1 Hybrid	GL, RI, CC	H	M		R		
5.	NC 938	F1 Hybrid	GL, RI, CC	H	M		R		
6.	CC 143	F1 Hybrid	Cross Creek Seed	H	R		R		
7.	CC 1063	F1 Hybrid	Cross Creek Seed	H	R		R		
8.	CC 35	F1 Hybrid	Cross Creek Seed	H	L		M.j		
9.	PVH 1118	F1 Hybrid	Rickard	R	M		M.in		
10.	PVH 1600	F1 Hybrid	F.W. Rickard	R	H		M.in		
11.	PVH 2310	F1 Hybrid	F.W. Rickard	L	M	L	M.in M.a		TMV PVY
12.	PVH 1920 (16)	F1 Hybrid	F.W. Rickard	R	R		M.in		

[1]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; RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms; ULT-Universal Leaf Tobacco Co

Seeded: 1/29/16; Transplanted 4/11/16;

ON FARM SCREENING OF SELECTED TOBACCO VARIETIES FOR BLACK SHANK RESISTANCE

A list of eight varieties has been planted in randomized complete blocks at eight locations in Georgia. The varieties chosen for test are four that showed high resistance in 2015 trials plus K-326 as a standard of low resistance and K-346 as a standard of high resistance. The other two (PVH-1118 and PVH-2254) have unknown resistance to black shank. The test varieties are:

CC-1063

NC-606

NC-938

PVH-1118

PVH-1600

PVH-2254

The trials are located as shown in the table below:

COUNTY	CO. AGENT	GROWER
ECHOLS	J. SHEALEY	S. CORBETT
LOWNDES	J. DAWSON	J. HERRING
LANIER	J. TAYLOR	R. COOK
COFFEE	T. BARNES	W. Mc KINNON
COFFEE	M. von WALDNER	B. KIRKLAND
BEN HILL	H. ANDERSON	B. GRIFFIN
BERRIEN	E. BEASLEY	D. HENDLEY
PIERCE	J. JACOBS	S. STRICKLAND

Syngenta

```
 Country Region Use  Disc. Seq. Year
 US      SI     0    F     211  2016 USSI0F2112016
Title:  Oxathiapiprolin + mefenoxam premix (A21723E; Orondis Gold) efficacy on tobacco black shank

       Protocol Id.: FOP480A3-2016US      FPLS Protocol Creation Date:
Master Protocol Id.:                   FPLS Protocol Last Change Date:
     Revision Date: FEB 07                                     GEP: N
      Trial Origin: C       Cooperator trial                Licensee: Henry McLean
```

Reps: 4 Plots: 7.66 by 100 feet
Spray vol: 107 gal/ac Mix size: 10 gallons (calculated mix size 7.5264)

Trt	TAG	Seq	Check Flag	Trt/Product Name	Form Variant	Form. Type	Form. Conc.	Form. Conc. Unit	Product/AI Rate	Product/AI Rate Unit	Converted Rate	Converted Rate Unit	Appl. Code	Appl. Method	Appl. Placement	Appl. Timing	MAF1 Code	MAF1 Level	Amt Product to Measure	Rep 1	2	3	4
1	1	1	C	Untreated Check	-															104	207	303	405
2	1	1		A21723	E	DC	280.0	GA/L	200.0	ga/ha	9.8	floz pr/a	A	INCORP	TRAWAT	TRANSP			27.01 ml/mx	105	202	302	406
	2	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	C	INCORP	BANDIR	LAPOCR	APPTIM	Layby	22.06 ml/mx				
3	1	1		A21723	E	DC	280.0	GA/L	280.0	ga/ha	13.7	floz pr/a	A	INCORP	TRAWAT	TRANSP			37.82 ml/mx	102	201	304	401
	2	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	C	INCORP	BANDIR	LAPOCR	APPTIM	Layby	22.06 ml/mx				
4	1	1		A21008	A	SC	200.0	GA/L	70.0	ga/ha	4.8	floz pr/a	A	INCORP	TRAWAT	TRANSP			13.24 ml/mx	107	204	305	407
	1	2		Ridomil Gold 480 SL	-	SL	480.0	GA/L	210.0	ga/ha	6.0	floz pr/a	A	INCORP	TRAWAT	TRANSP			16.55 ml/mx				
	2	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	C	INCORP	BANDIR	LAPOCR	APPTIM	Layby	22.06 ml/mx				
5	1	1		A21723	E	DC	280.0	GA/L	200.0	ga/ha	9.8	floz pr/a	A	INCORP	TRAWAT	TRANSP			27.01 ml/mx	101	206	307	403
	2	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	B	INCORP	BANDIR	POSTTR	APPTIM	1st Cultivation	22.06 ml/mx				
	3	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	C	INCORP	BANDIR	LAPOCR	APPTIM	Layby	22.06 ml/mx				
6	1	1		A21723	E	DC	280.0	GA/L	200.0	ga/ha	9.8	floz pr/a	A	INCORP	TRAWAT	TRANSP			27.01 ml/mx	103	205	301	404
	2	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	B	INCORP	BANDIR	POSTTR	APPTIM	1st Cultivation	22.06 ml/mx				
	3	1		Presidio 4 SC	-	SC	480.0	GA/L	140.0	ga/ha	4.0	floz pr/a	C	INCORP	BANDIR	LAPOCR	APPTIM	Layby	11.03 ml/mx				
7	1	1		Ridomil Gold 480 SL	-	SL	480.0	GA/L	280.0	ga/ha	8.0	floz pr/a	A	INCORP	TRAWAT	TRANSP			22.06 ml/mx	106	203	306	402
	2	1		A21723	E	DC	280.0	GA/L	280.0	ga/ha	13.7	floz pr/a	B	INCORP	BANDIR	POSTTR	APPTIM	1st Cultivation	37.82 ml/mx				
	3	1		Presidio 4 SC	-	SC	480.0	GA/L	140.0	ga/ha	4.0	floz pr/a	C	INCORP	BANDIR	LAPOCR	APPTIM	Layby	11.03 ml/mx				

Sort Order: Treatment

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment/Product Display [DSP]	Form. Conc.	Form. Type	Batch/Lot Number
156.686	ml	A21723 [E;UN]	280	DC	
170.982	ml	Ridomil Gold 480 SL [-;UN]	480	SL	
13.237	ml	A21008 [A;UN]	200	SC	
22.062	ml	Presidio 4 SC [-;US]	480	SC	

* 'Per area' calculations based on spray volume= 107 gal/ac, mix size= 10 gallons (mix size basis).
* Adjusted for number of applications in treatment list.

Table 1. Variety, Pedigree, Sponsor and Disease Resistance of the 2016 Released Variety Test (commercially available varieties), Danny and Jared Turner Farm, Appling County, GA. 31°35.838' N, 82°12.5 20' W, Arnold Rd off Hwy 15, Baxley, GA 31513, Shane Curry, County Extension Agent.

Trt	VARIETY	PEDIGREE	SPONSOR	Disease Resistance					
				BS	GW	FW	RK	BSp	Virus
1.	K 326	McNair 225 (McNair 30 X NC95)	Gold Leaf Seed Co	L	L		R		
2.	NC 196	F1 Hybrid	Gold Leaf Seed Co	H	R		R		
3.	GL 395	F1 Hybrid	Gold Leaf Seed Co	M	M		R		
4.	NC 925	F1 Hybrid	GL, RI, CC	H	M		R		
5.	NC 938	F1 Hybrid	GL, RI, CC	H	M		R		
6.	CC 143	F1 Hybrid	Cross Creek Seed	H	R		R		
7.	CC 1063	F1 Hybrid	Cross Creek Seed	H	R		R		
8.	CC 35	F1 Hybrid	Cross Creek Seed	H	L		M.j		
9.	PVH 1118	F1 Hybrid	Rickard	R	M		M.in		
10.	PVH 1600	F1 Hybrid	F.W. Rickard	R	H		M.in		
11.	PVH 2310	F1 Hybrid	F.W. Rickard	L	M	L	M.in M.a		TMV PVY
12.	PVH 1920 (16)	F1 Hybrid	F.W. Rickard	R	R		M.in		

[1]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; RJR- RJ Reynolds Tobacco Company; Rickard-F.W. Rickard Seed Co; SPT-Speight Seed Farms; ULT-Universal Leaf Tobacco Co

Seeded: 1/29/16; Transplanted 4/8/16;


GEORGIA
grown
Courtesy of the
Georgia Tobacco Commission


Quality Leaf
from
FLORIDA

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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.**

Crop & Soil Sciences

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Dr. Sam Pardue, Dean and Director
The University of Georgia College of Agricultural and Environmental Sciences