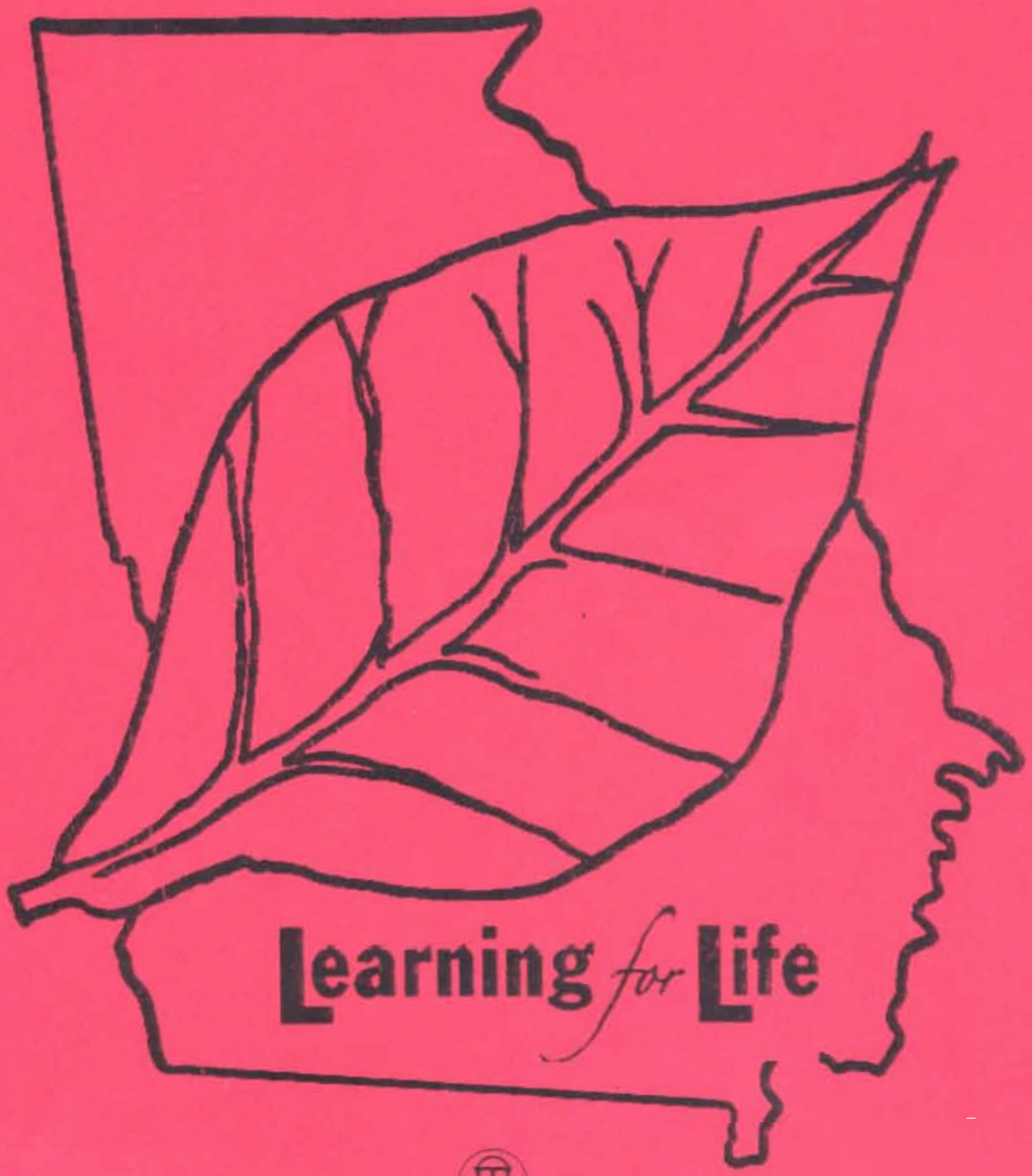
# 2012
# Georgia - Florida Tobacco Tour




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 | Jeff Davis | 912-375-6648 | 912-379-1091 |
| Atkinson | 912-422-3277 | 912-422-6223 | Lanier | 229-482-3895 | 229-482-2654 |
| Bacon | 912-632-5601 | 912-632-6910 | Lowndes | 229-333-5185 | 229-333-5188 |
| Ben Hill | 229-426-5175 | 229-426-5176 | Pierce | 912-449-2034 | 912-449-8005 |
| Berrien | 229-686-5431 | 229-686-7831 | Tattnall | 912-557-6724 | 912-557-3332 |
| Brantley | 912-462-5724 | 912-462-5464 | Telfair | 912-868-6489 | 912-868-2773 |
| Brooks | 229-263-4103 | 229-263-5607 | Thomas | 229-225-4130 | 229-225-4183 |
| Candler | 912-685-2408 | 912-685-6614 | Tift | 229-391-7980 | 229-391-7999 |
| Coffee | 912-384-1402 | 912-389-4007 | Toombs | 912-526-3101 | 912-526-1012 |
| Colquitt | 229-616-7455 | 229-616-7033 | Treutlen | 912-529-3766 | 912-529-3767 |
| Cook | 229-896-7456 | 229-896-7457 | Ware | 912-287-2456 | 912-287-2499 |
| Echols | 229-559-5562 | 229-559-9436 | Wayne | 912-427-5965 | 912-427-5967 |
| Irwin | 229-468-7409 | 229-468-9838 | 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 | 229-386-3006 | 229-386-7308 |
| Paul Bertrand, Extension Pathologist (Retired) | 229-386-7495 | 229-386-7415 |
| David Jones, Extension Entomologist (Retired) | 912-681-5639 | 912-681-0376 |
| William D. Givan, Extension Agricultural Economist (Retired) | 706-542-2632 | 706-542-4131 |
| Keith D. Kightlinger, Extension Economist - Farm Management (Retired) | 229-386-3512 | 229-386-3440 |
| Paul Sumner, Extension Engineer (Retired) | 229-386-3442 | 229-386-3448 |
| 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 |
| Bob McPherson, Entomology, CPES, Tifton (Retired) | 229-386-7141 | 229-386-3086 |
| Steve LaHue, Bowen Farm Research Coordinator | 229-388-6492 | 229-386-7293 |
| Stephen Mullis, Plant Pathology, CPES, Tifton | 229-386-7479 | 229-386-7285 |
| Lara Lee Hickman, Plant Pathology, CPES, Tifton | 229 386 3163 | 229-386-7285 |
| Ed Troxell, Bowen Farm Supervisor | 229-387-4917 | 229-386-7293 |
| CPES, Bowen Farm | 229-386-7053 | |

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

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

## 2012 GEORGIA TOBACCO TOUR

Agri Supply-Statesboro, Tifton & Valdosta

Ag South Crop Insurance

Alliance One International

Bayer Crop Science

Berrien County Farm Bureau

BFD Tobacco Equipment

Carolina Soil Company

Chemtura AgroSolutions

Cross Creek Seed, Inc.

Cureco Inc.

Dow AgroSciences

Drexel Chemical Co.

DuPont Crop Production

FMC

F.W. Rickard Seeds, Inc.

Georgia Tobacco Commission

Gold Leaf Seed Co.

Helena

SQM

Syngenta

Universal Leaf N.A.

U.S. Tobacco Cooperative

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!!!**

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 - 2012 GEORGIA-FLORIDA TOBACCO TOUR

**Monday, June 11, 2012** **http://www.GeorgiaTobacco.com**

5:00 pm - Check-in Holiday Inn, 213 S.W. Commerce Drive Blvd, Lake City, FL
PH: 386-754-1411

6:30 pm - Social - Columbia County Extension Office - Lake City, FL
164 SW Mary Ethel Lane, Lake City, FL 32025
386.965.0880 Cell: Jacque Bremen, Co. Agent

7:00 pm - Supper - Columbia County Extension Office, Lake City, FL

**Directions: Columbia County Extension Office, Lake City, FL**
From I-75, take the exit for Highway 90. Go east on 90 to the fourth traffic light (Walgreens will be on the right). Turn right at this intersection onto Highway 247 (Branford Highway). Go approximately 1/4 of a mile and turn right onto Mary Ethel Lane (first road on the right). Turn into the second gate on the left to enter the Columbia County Fairgrounds. The Extension Service office is the long concrete block building on the right as you enter the parking lot. Phone: (386) 752-5384

**Tuesday, June 12, 2012**

7:30 am - Leave Holiday Inn parking lot.

7:50 am - Arrive Roosevelt & Travis Dicks Farm - Columbia County (386-965-1201)
5821 SW Tustenuggee Ave, Lake City, FL, 32024
30.05775, -82.63896
(Released Varieties Demonstration)
- Jacque Bremen, County Extension Agent

8:55 am - Arrive Kenneth and Kevin Dasher Farm - Suwannee County (386-364-8806)
8763 CR 252, Live Oak, FL 32060
30.159492, -82.927605
- Elena Tores, County Extension Coordinator

10:35 am - Arrive Danny and Joey Herring Farm - Lowndes County (229-316-3403)
6322 Bradford Rd So., Lake Park, GA 31636
30.699604, -83.170967
(TSWV Treatment vs Non-Treated Plot)
- Jake Price, County Extension Coordinator
- Paul Bertrand, Pathologist

**Tuesday, June 12, 2012**

**12:00 pm** **- SPONSORED LUNCH -**
**Tifton Campus Conference Center**
**University of Georgia, RDC Road, Tifton, GA**

- lunch Courtesy of: Georgia Tobacco Commission
(Celebrating the 50th Anniversary of the Tobacco Commisson's Service to Georgia Tobacco Growers)

1:30 pm - Leave **UGA Tifton Campus Conference Center,** 15 RDC Rd, Tifton, GA

1:45 pm - Arrive UGA Black Shank Nursery - Rainwater Road, Tifton, GA
- Eddie Beasley, UGA Plant Pathology Graduate Research Assistant
Tobacco Black Shank Variety Trial

2:20 pm - Arrive UGA Bowen Farm - 133 Goat Rd, Tifton, GA

Alex Csinos, Pathologist
Lara Lee Hickman, Research Professional
Nematicides for Control of Root Knot nematode in Tobacco

Eddie Beasley, UGA Plant Pathology Graduate Research Assistant
Nematode Variety Test

Paul Bertrand, Pathologist
Greenhouse Treatment Effects on TSWV Incidence
Timing Actigard Field Sprays

Rajagopalbabu Srinivasan (Babu), Entomologist
Tobacco Entomology Research Projects

Steve LaHue, Research Coordinator
Regional Variety Small Plot Test
Georgia Official Variety Test
Regional Sucker Control Test

J. Michael Moore, Extension Agronomist - Tobacco
Sidedress Nitrogen Fertilizer Source Demonstration
Transplant Water Fertilizer Demonstration
Tobacco Budworm Foliar Control Demonstration
Tobacco Budworm & Sucking Insect Control Demonstrations

4:30 pm - Arrive Brian Lanier Farm - Berrien County (229-507-4042)
50 Lanier Lane, Nashville, GA 31639
(Released Variety Test)
- Tim Flanders, County Extension Coordinator

**Tuesday, June 12, 2012 (continued)**

5:05 pm - Arrive David Hendley Farm - Berrien County
(TSWV Treatment vs Non-Treated Plot)
- Tim Flanders, County Extension Coordinator
- Paul Bertrand, Pathologist

5:00 pm - Check-in Holiday Inn, Waycross PH: 912-283-4490

6:30 pm - Social - Mixon's Pond - Hwy. 82, Waresboro, Ware Co.

7:00 pm - Supper - Mixon's Pond - Hwy. 82, Waresboro, Ware Co.

**Wednesday, June 13, 2012**

7:30 am - Leave Holiday Inn parking lot.

8:15 am – Arrive Daniel Johnson Farm – Pierce County (912 288 7435)
2747 Daniel Rd., Alma, GA 31516
- James Jacobs, Pierce County Extension Coordinator

10:00 am - Arrive Jerry Wooten Farm - Jeff Davis County 912 240 4964
508 Mount Pleasant Ch. Rd, Denton, GA 31532
Denton, GA 31532-3318
(Tobacco Budworm and Splitworm Control Demonstration,
Evaluation of Regalia and Agro-Mos for TSWV Control)
- Tim Varnedore, Jeff Davis County Extension Coordinator
- David Jones, Extension Entomologist Tobacco – Retired

11:00 am - Arrive Joey Anderson Farm - Coffee County, (229) 389-0688
4228 GA Highway 149, Ambrose, GA 31512
(TSWV Treated vs Non-Treated Demonstration)
336 Aubrey Paulk Rd, Ambrose, GA
- Eddie McGriff, Coffee County Extension Coordinator
- Mark von Waldner, Atkinson County Extension Coordinator

**THIS IS THE END OF**
**THE 2012 GEORGIA-FLORIDA TOBACCO TOUR**
**HAVE A SAFE TRIP HOME !**

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2360 Rainwater Rd., Tifton, GA 31793 PH: 229-386-3006 FAX: 229-386-7308 Cell: 229-392-6424

# DIRECTIONS FOR 2012 GEORGIA-FLORIDA TOBACCO TOUR

**Monday, June 11**

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

**Directions: Columbia County Extension Office, Lake City, FL**
From I-75, take the exit for Highway 90. Go east on 90 to the fourth traffic light (Walgreens will be on the right). Turn right at this intersection onto Highway 247 (Branford Highway). Go approximately 1/4 of a mile and turn right onto Mary Ethel Lane (first road on the right). Turn into the second gate on the left to enter the Columbia County Fairgrounds. The Extension Service office is the long concrete block building on the right as you enter the parking lot.
Office Phone: (386) 752-5384 164 SW Mary Ethel Lane, Lake City, FL 32025
386.965.0880 Cell: Jacque Bremen, Co. Agent

**Tuesday, June 12**

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

| | |
|---|---|
| * | 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 on 47 |
| 0.2 | Right onto 242 |
| 1.2 | Right onto 131 |
| 4.5 | Left into Dicks Farm |

**Roosevelt & Travis Dicks Farm – (Released Varieties Demonstration)**
Arrive Roosevelt & Travis Dicks Farm - Columbia County (386-965-1201)
5821 SW Tustenuggee Ave, Lake City, FL, 32024
30.05775, -82.63896

| | |
|---|---|
| | Right out of Dicks Farm on 131 |
| 0.9 | 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 |
| 7.3 | Turn Left on CR-252 |
| 6.1 | Arrive 8763 Co Rd 252, Live Oak, FL |

**Arrive Kenneth and Kevin Dasher Farm - Suwannee County (386-364-8806)**
**8763 CR 252, Live Oak, FL 32060**
**30.159492, -82.927605**

**Tuesday, June 12 (continued)**

| Mileage | Directions (* - indicates traffic assistance needed) |
|---|---|
| | (Kenneth Dasher will lead to field across 252 from this address). |
| | Turn Left (west) onto Co. Rd 252 toward Live Oak, FL |
| 2.3 | Turn right onto US-129/SR-249 and travel through Live Oak on US-129 |
| 21.4 | Merge onto I-75 N via the ramp on the Left toward Jennings |
| 24 | Take the Belleville Rd exit, EXIT 5 toward Lake Park |
| 0.1 | Turn Right onto Belleville Rd |
| 2.7 | Cross RR tracks |
| 0.1 | Right onto Hwy 41 East |
| 0.06 | Left onto 376 X N. East St. |
| 0.6 | Left onto Bradford Rd (dirt) |
| 0.5 | Left after bulk barns and back to field |
| | **Arrive Danny and Joey Herring Farm - Lowndes County (229-316-3403)** |
| | **6322 Bradford Rd So., Lake Park, GA 31636** |
| | **30.699604, -83.170967** |
| | Leaving Herring Farm |
| | Right onto Bradford Rd. |
| 0.5 | Right onto 376 X N. East St. |
| 0.6 | Right onto 41 |
| 1.25 | Left onto Lakes Blvd |
| 1.50 | Right onto I-75 North |
| 59 | Take the US-41 exit, EXIT 64, toward ABAC/RDC |
| | Turn Left onto US-41 |
| 0.1 | Turn Left onto RDC Rd. |
| 0.1 | Turn Left into Tifton Campus Conference Center (park in front to enter Banquet D) |
| | **- SPONSORED LUNCH -** |
| | **Tifton Campus Conference Center** |
| | **University of Georgia, RDC Road, Tifton, GA** |
| | - lunch Courtesy of: Georgia Tobacco Commission |
| | (Celebrating the 50th Anniversary of the Tobacco Commisson's Service to Georgia Tobacco Growers) |
| | Left out of Tifton Campus Conference Center |
| 0.1 | Cross RR Tracks |
| | Left at stop sign onto Moore Hwy |
| 0.1 | Right onto Rainwater Road |
| 0.1 | Left onto Entomology Drive, follow drive through fence to Black Shank Nursery |
| | **- Arrive UGA Black Shank Nursery - Rainwater Road, Tifton, GA** |
| | - Eddie Beasley, UGA Plant Pathology Graduate Research Assistant |
| | Tobacco Black Shank Variety Trial |
| | Right out of Entomology Drive onto Rainwater Road |
| 0.1 | Right onto Moore Hwy |
| 0.05 | Left onto 20th Street |
| | Cross RR Tracks |

**Tuesday, June 15 (continued)**

| Mileage | | Directions (* - indicates traffic assistance needed) |
|---|---|---|
| 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 Goat Road |
| 0.6 | | Left into UGA Bowen Farm |
| | | **- Arrive UGA Bowen Farm - 133 Goat Rd, Tifton, GA** |
| | | Right out of Bowen Farm |
| 0.6 | | Left onto Hwy 319 |
| 1.9 | | Left onto New River Church Road |
| 1.2 | | Left onto Hwy 82 |
| | | Right onto Hwy 135 in Willacochee |
| 13.3 | | Right onto Hwy 168 |
| 1.5 | | Left onto Co. Rd. 23 |
| 0.6 | | Right onto Mudd Creek Rd. |
| | | **- Arrive Brian Lanier Farm - Berrien County (229-507-4042)** |
| | | **50 Lanier Lane, Nashville, GA 31639** |
| | | Leaving Lanier Farm turn left onto Co. Rd. 23 |
| 0.6 | | Right onto Hwy 168 |
| 1.5 | | Left onto Hwy 135 |
| 7.8 | | Right onto Canopy Rd. (dirt) |
| 0.6 | | Left at stop sign, |
| | | Right along end of tobacco field before reaching barns |
| 0.2 | | **- Arrive David Hendley Farm - Berrien County** |
| | | **(TSWV Treatment vs Non-Treated Plot)** |
| | | Leaving Hendley Farm |
| | | Left to Canopy Rd. |
| | | Right onto Canopy Rd. |
| 0.6 | | Right onto Hwy 135 |
| 5.5 | | Right onto Hwy 82 East |
| 44 | | Hwy 82 X US 1, Holiday Inn - Waycross |
| | | To **Social and Dinner at Mixon's Pond** |
| | * | Left out of Holiday Inn onto Hwy 82 West and through Waycross |
| 8.2 | | Right onto Harley Mixon Road into Mixon's Pond Drive |

**Wednesday, June 13**

| Mileage | | Directions (* - indicates traffic assistance needed) |
|---|---|---|
| | * | Left out of Holiday Inn onto Hwy 82 West and bare right on MEMORIAL DR/US-1 N/US-23 N/GA-4 N toward US-82/GA-520/ CORRIDOR Z/S GEORGIA PKWY. Continue to follow MEMORIAL DR. |
| 1.3 | | Turn RIGHT onto PLANT AVE/US-1 BR/US-84/GA-38. Continue to follow US-84/GA-38. |
| 9.4 | | Turn LEFT onto GA-121/GA-15/GORDON ST. in Blackshear |
| 0.1 | | Turn LEFT onto GA-203/BLACKSHEAR HWY |
| 0.4 | | Turn RIGHT onto GA-203/BLACKSHEAR HWY/HENDRY ST. Start out going NORTHWEST on GA-203/BLACKSHEAR HWY/HENDRY ST toward MARION ST. |
| 3.3 | | Bear LEFT at Jot'em Down Store Continue to follow BLACKSHEAR HWY. |
| 5.2 | | Turn RIGHT to stay on BLACKSHEAR HWY at stop sign. |
| 1.9 | | Turn LEFT onto MILLBRANCH RD. |
| 1.5 | | Right onto Daniel Rd |
| | | **– Arrive Daniel Johnson Farm – Pierce County (912 288 7435)** **2747 Daniel Rd., Alma, GA 31516** |
| | | Leaving Johnson Farm Right out of farm north on Daniel Rd. |
| 0.6 | | Right at stop sign onto Smart Rd |
| 0.6 | | Left on to Blackshear Hwy which changes to Radio Station Rd. |
| 10 | | Right onto US 1; US-23 in Alma |
| 0.6 | | Left onto GA-4 Alt. |
| 0.5 | | Left onto GA-32 |
| 3.6 | | Right on Old Dixie School Rd. |
| 10.5 | | Left onto Post Rd |
| 8.1 | | Right onto US-221/GA-135 |
| 2.7 | | Left onto W. Georgia Ave./Snipesville Rd. |
| 3.5 | | Left onto GA 107/Denton-Fitzgerald Rd. |
| 0.1 | | Continue on GA 107 to W. H. Smith Rd. |
| 2.9 | | Left onto W. H. Smith Rd. |
| 3.0 | | Right onto Mt. Pleasant Church Rd |
| 2.0 | | Left into Wooten Farm |
| | | **- Arrive Jerry Wooten Farm - Jeff Davis County 912 240 4964** **508 Mount Pleasant Ch. Rd, Denton, GA 31532** **Denton, GA 31532-3318** |
| | | Leaving Wooten Farm Left onto Mt. Pleasant Church Rd. |
| 2.3 | | Left at stop sign onto Old River Rd. |
| 4.8 | | Right onto Hwy 268 |
| 3.4 | | Right at traffic light in Broxton onto Hwy 441 |
| 0.4 | | Left onto Hwy 268/GA-268 |
| 9.7 | | Hwy 268/GA-268 becomes GA 149 |
| 4.6 | | Left onto Aubrey Paulk Rd. |
| | | **Joey Anderson Farm - Coffee County, (229) 389-0688** **336 Aubrey Paulk Rd, Ambrose, GA** |

# THIS IS THE END OF
# THE 2012 GEORGIA-FLORIDA TOBACCO TOUR
# HAVE A SAFE TRIP HOME !

2012
UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: RELEASED TOBACCO VARIETY DEMONSTRATION

Farmer Name/Address: Roosevelt and Travis Dicks,(386-965-1201) 5821 SW Tustenuggee Ave, Lake City, FL, 32024 30.05775, -82.63896

Extension Agent Responsible: Jacque Bremen, Columbia County, Florida Extension Agent

Extension Specialist Responsible: J. Michael Moore, Extension Agronomist - Tobacco

Plot Size: 2 (46') rows X 1270' long

Variety: as per treatment Soil Type: SL Date Transplanted: (3-29-2012)

Crop History: 2010: Peanut 2011: Fallow

Herbicide/Rate: PPI; PROWL 3.3 @ 2 pt/A
Preplant; SPARTAN @ 4 oz/A

Fungicides/Rate: RIDOMIL 8 oz PPI Nematicides/Rate: TELONE II 12 gal/A

Soil Insecticide/Rate: LORSBAN 2 qt/A; CORAGEN @ 8 oz/A in transplant water

| Foliar Insecticide/Rate: | | Irrigation | | | Rain |
|---|---|---|---|---|---|
| 5-1-12 | Acephate, Lannate & Dithane | 3-26-12 | 0.6 | 3-31-12 | 2.6 |
| 5-11-12 | Acephate & Dithane | 3-28-12 | 0.4 | 4-5-12 | .25 |
| 5-19-12 | Lannate, Acephate & Dithane | 3-29-12 | 0.4 | 4-21-12 | 1.5 |
| 5-26-12 | Brigade & Dithane | 4-3-12 | 0.4 | 5-28-12 | 7.3 |
| 6-2-12 | Acephate & Dithane | 4-8-12 | 0.4 | 6-7-12 | 1.8 |
| | | 4-15-12 | 0.5 | | |
| | | 5-21-12 | 1.0 | | |
| | | 6-4-12 | 0.5 | | |

| Date: | Fertility Program: |
|---|---|
| 4-12-12 | 1200 lbs/acre 4-8-12 |
| 4-27-12 | 1200 lbs/acre 4-8-12 |

Topping: Date; Average No. Leaves Per Plant;

Sucker Control:
Material; Rate/Acre; Date;
Material; Rate/Acre; Date;
Material; Rate/Acre; Date;

**Table 1. Variety, Pedigree, Sponsor and Disease Resistance of the 2012 Released Variety Test (commercially available varieties), Roosevelt & Travis Dicks Farm, Columbia County, Florida. N 31o 30' 4.4" W 83o 31' 11.1"**

| Trt No | VARIETY | PEDIGREE | SPONSOR | Disease Resistance | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | BS | GW | FW | RK | BSp | Virus |
| 1. | NC 71 | F1 Hybrid | F.W. Rickard | H | R | | R | | |
| 2. | CC 13 | F1 Hybrid | Cross Creek Seed | R | R | | MjR | | |
| 3. | NC 92 | F1 Hybrid | F.W. Rickard | R | R | | TCN /R | | |
| 4. | GF 318 | F1 Hybrid | Raynor | R | R | | R | | |
| 5. | CC 27 | F1 Hybrid | Cross Creek Seed | R | R | | TCN /R | | TMV |
| 6. | NC 196 | F1 Hybrid | Gold Leaf Seed Co | R | L | | R | | |
| 7. | PVH 1452 | F1 Hybrid | F.W. Rickard | R | R | | TCN /R | | |
| 8. | GL 338 | F1 Hybrid | Gold Leaf Seed Co | R | R | | | | |
| 9. | NC 299 | F1 Hybrid | Cross Creek Seed | R | R | | TCN /R | | |
| 10. | K 326 | McNair 225(McNair 30 X NC 95) | Gold Leaf Seed Co | L | L | | R | | |
| 11. | CC 700 | F1 Hybrid | Cross Creek Seed | R | R | | TCN /R | | |
| 12. | GL 395 | F1 Hybrid | Gold Leaf Seed Co | R | R | | R | | |

[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: 1/29/12

2012
UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: EFFECT OF RECOMMENDED TREATMENTS APPLIED AT DIFFERENT SOURCES FOR CONTROL OF SPOTTED WILT

Farmer Name/Address: DANNY & JOEY HERRING, (229-316-3403)
6322 Bradford Rd So., Lake Park, GA 31636
30.699604, -83.170967

Extension Agent Responsible: JAKE PRICE, Lowndes County, Georgia Extension Agent

Extension Specialist Responsible: PAUL BERTRAND, Extension Pathologist

Plot Size: Untreated plants = 1 (46') row X 200+ plants long with 7 rows of Treated plants

Variety: NC 196 in untreated, NC 71 in treated Soil Type: SL Date Transplanted: (4-10-2012)

Crop History: 2010: 2011: Tobacco

Herbicide/Rate: PPI; PROWL 3.3 @ 2 pt/A
Post Plant; Poast two weeks ago

Fungicides/Rate: Nematicides/Rate: TELONE II 12 gal/A

Soil Insecticide/Rate: ADMIRE PRO 0.8 oz/1000 plants as a drench in the greenhouse
ACTIGARD 1 oz/100,000 plants as a foliar spray in greenhouse

CORAGEN @ 8 oz/A in transplant water;
ADMIRE PRO @ 0.5 oz/1000 plts in transplant water (50 gal water/A)

| Fertility: | 6-6-18 | 750 lbs |
|---|---|---|
| | 6-6-18 | 750 lbs |
| | 6-6-18 | 400 lbs |
| | Total | 1900lbs. |

Foliar Insecticide/Rate: Irrigation Rain

Denim 8 oz/A two weeks ago

Topping: Date; Average No. Leaves Per Plant;

Sucker Control:
Material; Rate/Acre; Date;
Material; Rate/Acre; Date;

**Incidence of spotted wilt at layby in plants grown from treated and untreated seedlings at various locations.**

| Location | County | TP Date | % Spotted Wilt | |
|---|---|---|---|---|
| | | | CK | Treated[1] |
| DH #1 | Berrien | 02 April | 14.0 | 2.2 |
| RT #1 | Berrien | 02 April | 8.6 | 1.9 |
| VF #1 | Berrien | 03 April | 13.8 | 2.5 |
| BF #1 | Tift | 04 April | 14.9 | 2.8 |
| TH | Berrien | 04 April | 23.7 | 7.0 |
| BS #1 | Coffee | 05 April | 22.6 | 6.6 |
| JA #1 | Coffee | 05 April | 24.7 | 8.1 |
| BG | Ben Hill | 06 April | 19.2 | 5.4 |
| RS | Coffee | 09 April | 11.0 | 1.6 |
| FW #1 | Lowndes | 09 April | 2.0 | 1.4* |
| JA #2 | Coffee | 10 April | 27.6 | 9.0 |
| WM | Coffee | 10 April | 23.7 | 3.5 |
| TA | Coffee | 10 April | 4.8 | 1.7 |
| HF #1 | Lowndes | 10 April | 4.0 | 0.5 |
| JW | Jeff Davis | 11 April | 15.6 | 3.7 |
| DS #1 | Coffee | 12 April | 21.1 | 5.2 |
| BF #2 | Tift | 12 April | 23.1 | 8.1 |
| VF #2 | Berrien | 13 April | 3.7 | 1.6 |
| DH #2 | Berrien | 16 April | 3.2 | 0.6* |
| BF #3 | Tift | 17 April | 8.7 | 1.4 |
| RT #2 | Berrien | 18 April | 3.2 | 2.0 |
| KW | Jeff Davis | 19 April | 15.1 | 4.1 |
| FW #2 | Lowndes | 19 April | 7.1 | 1.1* |
| HF #2 | Lowndes | 20 April | 1.5 | 0.1 |
| DS #2 | Coffee | 20 April | 8.0 | 1.4 |

[1] Treated with Actigard at 1.0 oz/100,000 + imidacloprid except those marked * which received imidacloprid only. The imidacloprid at different plant farms is applied at various rates and schedules.

Tobacco Black Shank Variety Trial
2012 Black Shank Nursery 3/6/12

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

Plots will be 35 in length. Band 6 inches at plant as well as first cultivation.
6 replications.

| Variety | Treatment List | At Plant | 1st Cultivation | Layby |
|---|---|---|---|---|
| 1.K- 326 | Ridomil 2.65 | 3pt | 3 pt | 3pt |
| 2.K-326 | Ridomil Gold | 1pt | 1pt | 1pt |
| 3.K- 326 | QgU42 | 19.2 fl.oz | 19.2 fl.oz. | 19.2 fl.oz. |
| 4.K-326 | QgU42+Presidio | 19.2 fl.oz. | Presidio 4oz | 19.2fl.oz. |
| 5.K-326 | | | | |
| 6.K-346 | | | | |
| 7.NC 810 | | | | |
| 8.SP 225 | | | | |
| 9.SP 227 | | | | |
| 10.SP 234 | | | | |
| 11.SP 236 | | | | |
| 12.NC 71 | | | | |
| 13.PXH 14 | | | | |
| 14.CC 65 | | | | |
| 15.CC 35 | | | | |

Data to be collected: - Base stand count
Black shank counts bi-weekly
TSWV incidence counts bi-weekly
Phytotoxicity rating
Plant height measurements(cm) 4 and 8wks post plant
Vigor rating at 2, 4, and 6wks.

Black Shank Variety Test( Blackshank Mortality Total)

| | 1 | 2 | 3 | 4 | 5 | 6 | Total | |
|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 33.33 | 0 | 25 | 15.38 | 0 | 12.285 | Ridomil |
| 2 | 10.5 | 0 | 0 | 23.81 | 0 | 0 | 5.718333 | R Gold |
| 3 | 20 | 23.53 | 0 | 9.52 | 4.76 | 12.5 | 11.71833 | DX |
| 4 | 8.33 | 5.55 | 18.75 | 23.81 | 4.55 | 25 | 14.33167 | Dx+Per. |
| 5 | 66.7 | 60 | 23.81 | 53.34 | 68.18 | 70 | 57.005 | UC |
| 6 | 35.29 | 42.86 | 0 | 22.73 | 31.81 | 13.04 | 24.28833 | K346 |
| 7 | 47.05 | 9.09 | 16.67 | 10.53 | 10 | 27.27 | 20.10167 | NC810 |
| 8 | 5.55 | 10 | 0 | 0 | 0 | 0 | 2.591667 | SP225 |
| 9 | 15.78 | 14.29 | 23.53 | 15.79 | 19.05 | 9.09 | 16.255 | SP227 |
| 10 | 57.89 | 30.43 | 28 | 10.53 | 28 | 52.38 | 34.53833 | SP234 |
| 11 | 21.05 | 25 | 15 | 16.67 | 0 | 5 | 13.78667 | SP236 |
| 12 | 19.04 | 35 | 50 | 23.08 | 22.22 | 33.34 | 30.44667 | NC71 |
| 13 | 13.65 | 26.09 | 23.81 | 0 | 28.57 | 27.73 | 19.975 | PXH14 |
| 14 | 84.35 | 94.45 | 86.36 | 86.36 | 78.26 | 95 | 87.46333 | CC65 |
| 15 | 82.35 | 85 | 80.95 | 89.47 | 56 | 78.26 | 78.67167 | CC35 |

**Nematicides for Control of Root Knot nematode in Tobacco**
**Georgia Ag Commodity Commission for Tobacco**
**2012 Bowen Farm**

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

Tobacco variety:K394 Number of replications: six

| | Treatment List | Rate | Application Schedule |
|---|---|---|---|
| 1. | Non-treated Control | N/A | N/A |
| 2. | Telone II | 6gal/A | Pre-plant Incorporated (2-3 weeks pre-plant) |
| 3. | Temik (aldicarb) | 20lb/A | Pre-plant Incorporated |
| 4. | Devgen | 6qt/A | Pre-plant Incorporated |
| 5. | MCW-2 480EC | 6.25 liters/ha | Pre-plant Incorporated |
| 6. | Vapam | 37.5gal/A | Pre-plant Incorporated (2-3 weeks pre-plant) |
| 7. | D-NEM-EXP | 1.0qt/A<br>1.0qt/A | Pre-plant Incorporated<br>At 1st cultivation |
| 8. | D-NEM-EXP | 2.0qt/A | Pre-plant Incorporated |

**Data Collection**

- Base Stand count
- Pre-planting soil samples and At final harvest soil samples
- TSWV incidence
- Midseason root gall Rating, At first harvest root gall rating, At final harvest root gall rating
- Yield

## 2010 Tobacco Commission nematicide Trial

| Treatment[1] | Rate/Application Schedule | Root Gall Ratings[2] (Zecks Scale 0-10) |
|---|---|---|
| | | Mid season |
| 1. Non-treated | N/A | 0.6 a |
| 2. Telone II | 6 gal/A | 0.2 b |
| 3. Devgen | 1 qt/A | 0.4 ab |
| 4. Temik | 20 lb/A | 0.3 ab |
| 5. MANA | 3.31 lbs/A | 0.2 ab |
| 6. VAPAM | 37.5 gal/A | 0.2 b |
| 7. D-EXP | 0.5 lba.i./A | 0.2 ab |
| 8. Melocon (Certis) | 1 lb/7000 plants<br>4 lb/A<br>4 lb/A | 0.5 ab |

## 2011 Tobacco commission Nematicide Trial

| Treatment[1] | Rate/Application Schedule | Root Gall Ratings[2] (Zecks Scale 0-10) |
|---|---|---|
| | | Mid season |
| 1. Non-treated | N/A | 3.1 ab |
| 2. Telone II | 6 gal/A | 0.3 d |
| 3. Devgen | 2 qt/A +<br>2qt/A 2wks PP +<br>2qt/A 4wks PP | 4.0 a |
| 4. Temik | 20 lb/A | 1.6 cd |
| 5. MANA | 3.31 lbs/A | 2.8 ab |
| 6. VAPAM | 37.5 gal/A | 1.0 d |
| 7. D-EXP | 0.75 lba.i./A PPI +<br>0.75lbai/A 3wksPP | 2.2 bc |
| 8. D-EXP | 0.75 lba.i./A PPI | 3.3 ab |

## 2012 Tobacco Commission Nematicide Trial

| | Treatment List | Rate | Root Gall Index (Zeck's Scale 0-10) |
|---|---|---|---|
| 1. | Non-treated Control | N/A | 2.72 |
| 2. | Telone II | 6gal/A | 0.6 |
| 3. | Temik (aldicarb) | 20lb/A | 1.4 |
| 4. | Devgen | 6qt/A | 2.8 |
| 5. | MCW-2 480EC | 6.25 liters/ha | 2.06 |
| 6. | Vapam | 37.5gal/A | 3.14 |
| 7. | D-NEM-EXP | 1.0qt/A<br>1.0qt/A | 1.32 |
| 8. | D-NEM-EXP | 2.0qt/A | 2.38 |

Nematode Variety Test- 2012 Bowen Farm Tifton, Ga 3/6/12

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 506 | 508 | 503 | 509 | 505 | 507 | 511 | 502 | 512 | 501 | 510 | 504 |
| 410 | 404 | 401 | 412 | 406 | 402 | 405 | 407 | 409 | 403 | 408 | 411 |
| 308 | 306 | 302 | 311 | 303 | 301 | 312 | 304 | 310 | 305 | 309 | 307 |
| 211 | 210 | 209 | 201 | 204 | 206 | 207 | 208 | 202 | 212 | 203 | 205 |
| 101 | 103 | 111 | 102 | 107 | 112 | 108 | 110 | 105 | 104 | 106 | 109 |

Plot size: 35' x 44" rows Replication: 5

Variety Treatment

1. CC 13

2. CC 27

3. CC33

4. CC35

5. CC67

6. CC 700

7. CC 65

8. PXH10

9. PVH 2340

10.XHN 54

11.NC- 71

12. NC -71 Telone

Data to be collected:

- stand counts
- Plant height(cm) at 6 and 8 weeks
- Soil samples before plant, pre treatment, and final harvest
- Vigor rating at 2, 4, and 6 weeks
- Root gall ratings mid season(4-6wks post plant/ 5 plants per plot) Final harvest( evaluate using Zack's scale)
- Yield

Nematode Variety Test 6/8/2012

Root Gall Rating

| | 1 | 2 | 3 | Avg |
|---|---|---|---|---|
| 101 | 2 | 1 | 3 | 2 |
| 102 | 2 | 5 | 5 | 4 |
| 103 | 1 | 1 | 0 | 0.666667 |
| 104 | 0 | 0 | 1 | 0.333333 |
| 105 | 2 | 2 | 1 | 1.666667 |
| 106 | 3 | 2 | 0 | 1.666667 |
| 107 | 1 | 0 | 0 | 0.333333 |
| 108 | 6 | 8 | 3 | 5.666667 |
| 109 | 9 | 7 | 7 | 7.666667 |
| 110 | 5 | 3 | 0 | 2.666667 |
| 111 | 4 | 6 | 4 | 4.666667 |
| 112 | 0 | 1 | 1 | 0.666667 |
| 201 | 3 | 1 | 1 | 1.666667 |
| 202 | 1 | 4 | 0 | 1.666667 |
| 203 | 3 | 3 | 6 | 4 |
| 204 | 0 | 0 | 0 | 0 |
| 205 | 3 | 1 | 1 | 1.666667 |
| 206 | 2 | 1 | 2 | 1.666667 |
| 207 | 4 | 4 | 3 | 3.666667 |
| 208 | 1 | 1 | 1 | 1 |
| 209 | 2 | 0 | 1 | 1 |
| 210 | 2 | 1 | 1 | 1.333333 |
| 211 | 5 | 1 | 3 | 3 |
| 212 | 2 | 1 | 2 | 1.666667 |
| 301 | 3 | 4 | 4 | 3.666667 |
| 302 | 3 | 3 | 3 | 3 |
| 303 | 0 | 1 | 1 | 0.666667 |
| 304 | 2 | 2 | 4 | 2.666667 |
| 305 | 3 | 3 | 6 | 4 |
| 306 | 5 | 4 | 4 | 4.333333 |
| 307 | 2 | 1 | 2 | 1.666667 |
| 308 | 1 | 3 | 2 | 2 |
| 309 | 1 | 1 | 0 | 0.666667 |
| 310 | 0 | 0 | 1 | 0.333333 |
| 311 | 7 | 2 | 2 | 3.666667 |
| 312 | 0 | 0 | 0 | 0 |
| 401 | 4 | 3 | 3 | 3.333333 |
| 402 | 8 | 6 | 5 | 6.333333 |
| 403 | 0 | 1 | 0 | 0.333333 |
| 404 | 0 | 0 | 0 | 0 |
| 405 | 1 | 1 | 2 | 1.333333 |
| 406 | 5 | 4 | 6 | 5 |
| 407 | 3 | 9 | 9 | 7 |
| 408 | 2 | 5 | 4 | 3.666667 |

| | | | | |
|---|---|---|---|---|
| 409 | 1 | 0 | 0 | 0.333333 |
| 410 | 3 | 3 | 1 | 2.333333 |
| 411 | 5 | 2 | 3 | 3.333333 |
| 412 | 1 | 1 | 0 | 0.666667 |
| 501 | 1 | 2 | 1 | 1.333333 |
| 502 | 2 | 3 | 6 | 3.666667 |
| 503 | 0 | 0 | 0 | 0 |
| 504 | 1 | 2 | 1 | 1.333333 |
| 505 | 9 | 7 | 6 | 7.333333 |
| 506 | 5 | 3 | 3 | 3.666667 |
| 507 | 1 | 1 | 2 | 1.333333 |
| 508 | 4 | 4 | 4 | 4 |
| 509 | 1 | 1 | 1 | 1 |
| 510 | 0 | 1 | 0 | 0.333333 |
| 511 | 7 | 8 | 8 | 7.666667 |
| 512 | 0 | 0 | 0 | 0 |

## 2012 Tobacco Variety Tests

Field 6611

**Official Variety Test**

| | |
|---|---|
| 1. K 346 | 2. K 399 |
| 3. NC 71 | 4. NC 72 |
| 5. NC 92 | 6. NC 196 |
| 7. NC 925 | 8. NC 297 |
| 9. CC 27 | 10. CC 33 |
| 11. CC 35 | 12. CC 37 |
| 13. CC 65 | 14. CC 67 |
| 15. CC 700 | 16. CC 1063 |
| 17. PVH 1452 | 18. PVH 2110 |
| 19. PVH 2254 | 20. PVH 2275 |
| 21. Speight 168 | 22. GL 338 |
| 23. GL 395 | 24. GF 157 |
| 25. GF 318 | 26. RJR 901 |

**Regional Small Plot Test**

| | |
|---|---|
| 1. NC 2326 | 2. NC 95 |
| 3. K 326 | 4. NC EX 47 |
| 5. GL EX 365 | 6. CU 171 |
| 7. GL EX 331 | 8. PXH 10 |
| 9. PXH 14 | 10. NC EX 42 |
| 11. GL EX 398 | 12. NC EX 51 |
| 13. CU 176 | 14. NC EX 44 |
| 15. NC EX 50 | 16. AOV 212 |
| 17. GL EX 372 | 18. PXH 12 |
| 19. CU 201 | 20. PXH 7 |
| 21. NC EX 45 | 22. CU 186 |
| 23. PXH 13 | 24. CU 159 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rep 3 | 14 | 1 | 22 | 10 | 24 | 13 | 23 | 9 | 16 | 26 | 2 | 8 | 21 | 3 | 19 | 21 | 7 | 16 | 14 | 20 | 9 | 23 | 4 | 12 | 1 |
| | 6 | 17 | 5 | 19 | 25 | 7 | 11 | 3 | 20 | 4 | 18 | 12 | 15 | 10 | 24 | 15 | 5 | 8 | 11 | 13 | 18 | 2 | 22 | 6 | 17 |
| Rep 2 | 23 | 9 | 16 | 20 | 3 | 6 | 19 | 10 | 25 | 1 | 14 | 24 | 18 | 16 | 21 | 7 | 9 | 14 | 17 | 19 | 3 | 12 | 6 | 13 | 18 |
| | 11 | 8 | 2 | 5 | 17 | 21 | 13 | 7 | 12 | 15 | 22 | 4 | 26 | 8 | 5 | 24 | 2 | 11 | 15 | 4 | 23 | 10 | 1 | 20 | 22 |
| Rep 1 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

**2012 Regional Farm Test**
Field 6611

| | |
|---|---|
| 1. NC 2326 | 2. NC 95 |
| 3. K 326 | 4. CU 124 |
| 5. ULT 143 | 6. PXH 1 |
| 7. GLEX 362 | 8. NCEX 39 |
| 9. GLEX 328 | 10. CC 143 |
| 11. PXH 9 | 12. NCEX 24 |
| 13. ULT 113 | 14. CU 144 |
| 15. ULT 123 | 16. NCEX 38 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rep 3&6 | 12 | 12 | 10 | 10 | 4 | 4 | 16 | 16 | 8 | 8 | 3 | 3 | 6 | 6 | 11 | 11 |
| | 14 | 14 | 9 | 9 | 1 | 1 | 7 | 7 | 13 | 13 | 2 | 2 | 15 | 15 | 5 | 5 |
| Rep 2&5 | 6 | 6 | 4 | 4 | 15 | 15 | 10 | 10 | 16 | 16 | 8 | 8 | 12 | 12 | 3 | 3 |
| | | | | | | | | | | | | | | | | |
| | 13 | 13 | 7 | 7 | 5 | 5 | 9 | 9 | 2 | 2 | 14 | 14 | 11 | 11 | 1 | 1 |
| Rep 1&4 | 16 | 16 | 15 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 |
| | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |

Road

| 2012 NORTH CAROLINA FLUE-CURED TOBACCO VARIETY TEST<br>Commercial Varieties | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Trt. No | Variety or Line | Generation or Year of Release | Pedigree | BS | GW | FW | RK | Bn. Sp. | Virus | Sponsor |
| 1 | GL 368 | 2009 | Hybrid | R | R | | | | | GL |
| 2 | K 326 | 1981 | McNair 225 (McNair 30 X NC 95) | L | L | | R | | | CL,CC,RA |
| 3 | CC 65 | 2007 | Hybrid | R | R | | M.j/R | | | CC |
| 4 | CC 67 | 2008 | Hybrid | R | R | | TCN/R | | TMV | CC |
| 5 | PVH 1452 | 2006 | Hybrid | R | R | | TCN/R | | | Rickard |
| 6 | NC 102 | 2001 | Hybrid | R | R | | | | TMV/PVY | Rickard |
| 7 | NC 606 | 1998 | NC 729 X NC 82 | R | R | | R | | | Raynor |
| 8 | Speight 220 | 2002 | (K-346 X Sp 117)(SP 116 X K 346) | R | R | | R | | | SPT |
| 9 | GF 318 | 2008 | Hybrid | R | R | | R | | | Raynor |
| 10 | CC 304 | 2010 | Hybrid | R | R | | R | | TMV | CC |
| 11 | CC 27 | 2003 | Hybrid | R | R | | TCN/R | | TMV | CC |
| 12 | NC 299 | 2001 | Hybrid | R | R | | TCN/R | | | CC |
| 13 | GL 338 | 2009 | Hybrid | R | R | | | | | GL |
| 14 | CC 13 | 2005 | Hybrid | R | R | | M.j/R | | | CC |
| 15 | Speight 227 | 2003 | (SP 151 X K 346)(SP 202 X K 346) | R | R | | R | | | SPT |
| 16 | NC 196 | 2002 | Hybrid | R | L | | R | | | GL |
| 17 | CC 33 | 2008 | Hybrid | R | R | | M.j/R | | | CC |
| 18 | NC 925 | 2010 | Hybrid | R | | | R | | | NC |
| 19 | PVH 1118 | 2004 | Hybrid | R | R | | TCN/R | | | Rickard |
| 20 | Speight 225 | 2003 | (SP 168X K 346)(SPA-95XSP 168) | R | R | | R | | | SPT |
| 21 | Speight 236 | 2005 | (SP 168 X SP 196)(SP 179 X SP 177) | R | R | | R | | | SPT |
| 22 | PVH 2110 | 2005 | Hybrid | | | | | | | Rickard |
| 23 | NC 92 | 2007 | Hybrid | R | R | | TCN/R | | | Rickard |
| 24 | PVH 2275 | 2010 | Hybrid | | R | | R1 | | PVY/TEV | Rickard |
| 25 | NC 72 | 1996 | Hybrid | H | L | | R | | | Rickard |
| 26 | GL 939 | 1992 | McN 926 X 80241 | R | R | | R | | | GL |
| 27 | NC 297 | 1998 | Hybrid | R | R | | R | | TMV | GL |
| 28 | NC 71 | 1995 | Hybrid | H | M | | R | | | Rickard |
| 29 | NC 55 | 1994 | (K 346 X DH 1220)X(K326 X Coker 371-Gold) | L | L | | R | | PVY/TEV | GL |
| 30 | PVH 2248 | 2010 | Hybrid | | R | | R1 | | | Rickard |
| 31 | CC 35 | 2007 | Hybrid | R | R | | M.j/R | | | CC |
| 32 | K 346 | 1988 | McNair 926 X 80241 | H | H | | R | | | GL |
| 33 | CC 700 | 2005 | Hybrid | R | R | | TCN/R | | | CC |
| 34 | Speight 168 | 1996 | Coker 371G X Spt. G 118 | H | H | | R | | | SPT |
| 35 | GL 395 | 2010 | Hybrid | R | R | | R | | | GL |
| 36 | NC 471 | 2003 | Hybrid | R | R | | | | TMV | Raynor |
| 37 | CC 37 | 2006 | Hybrid | R | R | | TCN/R | M.j/R | TMV | CC |
| 38 | K 399 | 1979 | (C-139 X C-139) X NC 95 | | | | | | | GL |
| 39 | NC 291 | 1997 | Hybrid | R | R | | TCN/R | | PVY/TEV | CC |
| 40 | PVH 2254 | 2011 | Hybrid | R | R | | | | TMV | Rickard |
| 41 | RJR 901 | 2011 | Hybrid | R | R | | R | | | RJR |
| 42 | CC 1063 | 2011 | Hybrid | R | R | | R | | | CC |
| 43 | GF 157 | 2011 | Hybrid | R | R | | R | | | GF |
| 44 | NC2326 | 1965 | (HicksX9012)(Hicks)Hicks)Hicks | L | Su | M | | | | NC |
| 45 | NC 95 | 1961 | (C-139XBel.4-30)X(C-139XHicks | L | H | M | | | | NC |

[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

| 2012 FLUE-CURED REGIONAL SMALL PLOT 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 2326 | 1965 | (Hicks X 9102)(Hicks)Hicks)Hicks) | L | Su | M | | | | NC |
| 2 | NC 95 | 1961 | (C-139XBel.4-30)XC-139xHicks) | L | H | M | R | | | NC |
| 3 | K 326 | 1981 | McNair 225 (McNair 30 X NC95) | L | L | | R | | | GL |
| 4 | NCEX47 | F1 | Hybrid | R | R | | R | | | NC |
| 5 | GLEX 365 | F1 | Hybrid | R | R | | R | | | GL |
| 6 | CU 171 | F1 | Hybrid | | | | | | | SC |
| 7 | GLEX 331 | F1 | Hybrid | R | R | | R | | | GL |
| 8 | PXH 10 | F1 | Hybrid | R | | R | M.incog./ M.aren | | TMV/ PVY | Rickard |
| 9 | PXH 14 | F1 | Hybrid | R | R | | M.incog. | | | Rickard |
| 10 | NCEX42 | F1 | Hybrid | R | R | | R | | | NC |
| 11 | GLEX 398 | F1 | Hybrid | R | R | | R | | | GL |
| 12 | NCEX51 | Advanced | | R | R | | R | | | NC |
| 13 | CU 176 | F1 | Hybrid | | | | | | | SC |
| 14 | NCEX44 | F1 | Hybrid | R | R | | R | | | NC |
| 15 | NCEX50 | Advanced | | R | R | | R | | | NC |
| 16 | AOV 212 | F1 | Hybrid | R | | | | | TMV | AO |
| 17 | GLEX 372 | F1 | Hybrid | R | R | | R | | | GL |
| 18 | PXH 12 | F1 | Hybrid | R | R | | M.incog. | | TMV | Rickard |
| 19 | CU 201 | F1 | Hybrid | | | | | | | SC |
| 20 | PXH 7 | F1 | Hybrid | R | | R | M.incog./ M.aren | | TMV/ PVY | Rickard |
| 21 | NCEX45 | F1 | Hybrid | R | R | | TCN/R | | | NC |
| 22 | CU 186 | F1 | Hybrid | | | | | | | SC |
| 23 | PXH 13 | F1 | Hybrid | R | R | | M.incog. | | | Rickard |
| 24 | CU 159 | 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

| 2012 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 2326 | 1965 | (Hicks X 9102)(Hicks)(Hicks)Hicks) | L | Su | M | | | | NC |
| 2 | NC 95 | 1961 | (C-139 X Bel. 4-30)X(C-139 X Hicks) | L | H | M | R | | | NC |
| 3 | K 326 | 1981 | McNair 225(McNair 30 X NC 95) | L | L | | R | | | GL |
| 4 | CU 124 | F1 | Hybrid | | | | | | | SC |
| 5 | ULT 143 | F1 | Hybrid | | | | | | PVY | ULT |
| 6 | PXH 1 | F1 | Hybrid | R | R | | | | | Rickard |
| 7 | GLEX 362 | F1 | Hybrid | R | R | | R | | PVY | GL |
| 8 | NCEX39 | F1 | Hybrid | R | R | | TCN/R | | | NC |
| 9 | GLEX 328 | F1 | Hybrid | R | R | | R | | TMV | GL |
| 10 | CC 143 | F1 | Hybrid | R | R | | R | | | CC |
| 11 | PXH 9 | F1 | Hybrid | R | R | | R | | | Rickard |
| 12 | NCEX24 | F1 | Hybrid | R | R | | TCN/R | | | NC |
| 13 | ULT 113 | F1 | Hybrid | | | | | | TMV/PVY | ULT |
| 14 | CU 144 | F1 | Hybrid | | | | | | | SC |
| 15 | ULT 123 | F1 | Hybrid | | | | | | TMV | ULT |
| 16 | NCEX38 | F1 | Hybrid | R | R | | R | | TMV | NC |

[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

# 2012 Regional Tobacco Growth Regulator Test

**Steven LaHue, Bowen Farm Research Coordinator**

**J. Michael Moore, Extension Agronomist - Tobacco**

**Ed Troxell, Bowen Farm Supervisor**

## Treatment List

| Trt. | 1st | 2nd and 3rd | Systemic | After 1st Harv. |
|---|---|---|---|---|
| 1 | Topped Not Suckered | | | --- |
| 2 | FA 4% | FA 5% | Fair Plus & Prime+ 1.5 gal & 2 qt/ac | --- |
| 3 | FA 4% | FA 5% | Prime+2 qt/ac w/conveyors | Fair Plus 1.5 gal/ac w/conveyors |
| 4 | FA 4% | FA 5% | Prime+2 qt/ac | Fair Plus 1.5 gal/ac |
| 5 | FA 4% | FA 5% | Prime+2 qt/ac w/conveyors | Fair Plus 1.0 gal/ac w/conveyors |
| 6 | FA 4% | FA 5% | Prime+2 qt/ac | Fair Plus 1.0 gal/ac |
| 7 | FA 4% | FA 5% | Prime+2 qt/ac w/conveyors | Fair Plus 0.5 gal/ac w/conveyors |
| 8 | FA 4% | FA 5% | Prime+2 qt/ac | Fair Plus 0.5 gal/ac |
| 9 | FA 4% | FA 5% | Fair Plus & Prime+ 0.5 gal & 2 qt /ac w/conveyors | Prime+1 qt/ac w/conveyors |
| 10 | FA 4% | FA 5% | Fair Plus & Prime+ 0.5 gal & 2 qt /ac | Prime+1 qt/ac |
| 11 | FA 4% | FA 5% | Prime+2 qt/ac w/conveyors | Prime+1 qt/ac w/conveyors |
| 12 | FA 4% | FA 5% | Prime+2 qt/ac | Prime+1 qt/ac |
| 13 | FA 4% | FA 5% | Prime+2 qt/ac w/conveyors | Butralin 1 qt/ac w/conveyors |
| 14 | FA 4% | FA 5% | Prime+2 qt/ac | Butralin 1 qt/ac |

Contact fatty alcohol = Fair-85
1st application at 30 to 40% flower
2nd application 3 to 5 days after 1st
3rd application 5 to 7 days after 2nd

2012 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title: SIDEDRESS NITROGEN FERTILIZER SOURCE DEMONSTRATION

Farmer Name/Address: CPES - BOWEN FARM County: TIFT

Extension Specialist Responsible: J. MICHAEL MOORE

Plot Size: 2 (44") ROWS X 58.5', 10' Alleys

Variety: K 326 Soil Type: SL Date Transplanted: (3-28-12)

Crop History: 2010; Peanuts 2011; Fallow

Herbicide/Rate: PPI; PROWL 3.3: 2 pt Post Plant;

Fungicides/Rate: ACTIGARD 1.0 oz / 100,000 cells Nematicides/Rate: TELONE II, 10 gals (fall 11)

Soil Insecticide/Rate: LORSBAN 1 QT/A; CORAGEN 7 oz/A in TRSP Water (200 gal/A)
ADMIRE PRO tray drench in GH 0.8 oz/1000
Foliar Insecticide/Rate:

Fertility Program: AS PER TREATMENTS Date: 4/19/12; 5/2/12

Rainfall: March; April; May; June; July; August;

Topping: Date; Average No. Leaves Per Plant;
Sucker Control:
Material; Rate/Acre; Date;

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 22 G | 23 F | 24 E | 25 D | 26 C | 27 B | 28 A | 58.5' |
| 15 F | 16 A | 17 G | 18 B | 19 D | 20 C | 21 E | 58.5' |
| 8 E | 9 F | 10 D | 11 G | 12 A | 13 B | 14 C | 58.5' |
| 1 A | 2 B | 3 C | 4 D | 5 E | 6 F | 7 G | 58.5' |

| Trt | Analysis | lb/A | lb/row | g/row | (N-P-K) | Analysis | lb/A | lb/row | g/row | (N-P-K) |
|---|---|---|---|---|---|---|---|---|---|---|
| A. | 6-6-18 | 667 | 3.28 | 1489 | (40-40-120) | 15.5-0-0 | 226 | 1.1 | 31.2 | (75-40-180) |
| | | | | | | 0-0-22 | 272 | 1.3 | 36.9 | |
| B. | 6-6-18 | 667 | 3.28 | 1489 | (40-40-120) | 13-0-44 | 269 | 1.3 | 36.9 | (75-40-238) |
| C. | 6-6-18 | 667 | 3.28 | 1489 | (40-40-120) | NH4NO3 | 103 | 0.50 | 14.2 | (75-40-180) |
| | | | | | | 0-0-22 | 272 | 1.3 | 36.9 | |
| D. | 15.5-0-0 | 258 | 1.27 | 576 | (40-0-0) | 15.5-0-0 | 226 | 1.1 | 31.2 | (75-40-175) |
| | 0-0-22 | 520 | 2.7 | 1226 | (0-0-120) | 0-0-22 | 272 | 1.3 | 36.9 | |
| | | | | | [40-0-120] | | | | | |
| E. | 34-0-0 | 118 | 0.58 | 263 | (40-0-0) | 15.5-0-0 | 226 | 1.1 | 31.2 | (75-40-175) |
| | 0-0-22 | 520 | 2.7 | 1226 | (0-0-120) | 0-0-22 | 272 | 1.3 | 36.9 | |
| | | | | | [40-0-120] | | | | | |
| F. | 6-6-18 | 334 | 1.6 | 726 | (20-20-180) | 15.5-0-0 | 354 | 1.7 | 48.2 | (75-20-180) |
| | 0-0-22 Kmag | 550 | 2.7 | 1226 | | | | | | |
| G. | 6-6-18 | 334 | 1.6 | 726 | (40-20-180) | 15.5-0-0 | 354 | 1.7 | 48.2 | (95-20-180) |
| | 0-0-22 Kmag | 550 | 2.7 | 1226 | | | | | | |
| | 34-0-0 | 59 | 0.29 | 131 | | | | | | |

Updated 4/17/12

# 2012 ACTIGARD FIELD SPRAY TRIAL

SEEDLING TREATMENT: GROWN & TREATED BY CLAUDE CARVER
BLACK = AA = ACTIGARD @ 1.0 oz/100,000 (09 APRIL) + ADMIRE PRO @ 0.8 oz/1000 (13 APRIL)
GREY = CK = UNTREATED

FIELD SPRAY TREATMENTS
1. = WHITE = UNTREATED CHECK
2. = PINK = ACTIGARD 50WG @ 0.5 oz/acre EVERY 7 DAYS; BEGIN AT TRANSPLANT (6 APPS)
3. = ORANGE = ACTIGARD 50WG @ 0.5 oz/acre WHEN TSWV FIRST SEEN IN CK PLANTS (2 APPS)
4. = GREEN = ACTIGARD 50WG @ 0.5 oz/acre @1700 DEGREE DAYS FROM 1NOV. 2011 (2 APPS)

IN THE MAP EACH ROW OF ***** FOR AA & CK = 4 ROWS OF TOBACCO
EACH ROW OF ***** FOR GUARD ROWS = 2 ROWS
---------- WEST ---------->

| | | | | |
|---|---|---|---|---|
| GUARD | ********** | ********** | ********** | ********** |
| (AA) | ****** 1 ****** | ****** 2 ****** | ****** 3 ****** | ****** 4 ****** |
| (CK) | ****** 1 ****** | ****** 2 ****** | ****** 3 ****** | ****** 4 ****** |
| GUARD | ********** | ********** | ********** | ********** |
| (AA) | ****** 3 ****** | ****** 1 ****** | ****** 4 ****** | ****** 2 ****** |
| (CK) | ****** 3 ****** | ****** 1 ****** | ****** 4 ****** | ****** 2 ****** |
| GUARD | ********** | ********** | ********** | ********** |
| (CK) | ****** 2 ****** | ****** 4 ****** | ****** 1 ****** | ****** 3 ****** |
| (AA) | ****** 2 ****** | ****** 4 ****** | ****** 1 ****** | ****** 3 ****** |
| GUARD | ********** | ********** | ********** | ********** |
| (AA) | ****** 4 ****** | ****** 3 ****** | ****** 2 ****** | ****** 1 ****** |
| (CK) | ****** 4 ****** | ****** 3 ****** | ****** 2 ****** | ****** 1 ****** |

NOTE 1. VARIETY: CC-13 (TOLERANT TO PEANUT ROOT-KNOT NEMATODE)
NOTE 2. TOBACCO TRANSPLANTED 17 APRIL
NOTE 3. FIRST TSWV IN CK PLANTS SEEN 2 WEEKS POST TRANSPLANT
NOTE 4. 1300 DEGREE DAYS REACHED 1 WEEK PRE TRANSPLANT
1700 DEGREE DAYS REACHED 2 WEEKS AFTER TRANSPLANT
NOTE 5. SINCE THE TIMING TRIGGER FOR BOTH TREATMENTS 3 & 4 TRIPPED
2 WEEKS AFTER TRANSPLANT:
TREATMENT 3 WILL RECEIVE 3 ACTIGARD SPRAYS
TREATMENT 4 WILL RECEIVE 2 ACTIGARD SPRAYS

**Effect of Actigard field sprays for control of spotted wilt.**

| | % Spotted Wilt [1] | |
|---|---|---|
| Treatment[2] | A+A[3] | CK [4] |
| Unsprayed | 1.3 | 9.1 |
| Sprayed transplant to layby. (6 apps) | 1.4 | 6.4 |
| Sprayed at 1st TSWV (3 apps) | 1.3 | 8.8 |
| Sprayed at 1st TSWV (2 apps) | 1.5 | 10.3 |

[1] Based on counts 6 weeks after transplant.
[2] Actigard applied at 1.0oz/Acre every 7 days during treatment series.
[3] Tobacco grown from seedlings treated with Actigard at 1.0oz/100,000 + Admire Pro at 0.8 oz/1,000 in plant house.
[4] Tobacco grown from untreated seedlings.

2012 TSWV CONTROL TRIAL BOWEN FARM SET:04 APRIL

IN THE MAP EACH ROW OF ***** = 2 ROWS OF TOBACCO

---------- WEST ---------->

```
    TR ****** 09 ******    ****** 07 ******    ****** 08 ******    ****** 06 ******
    CK ****** 01 ******    ****** 02 ******    ****** 03 ******    ****** 04 ******
    TR ****** 10 ******    ****** 05 ******    ****** 11 ******    ****** 12 ******
A+A 13 ************************************  ************************************
    TR ****** 12 ******    ****** 05 ******    ****** 09 ******    ****** 07 ******
    CK ****** 03 ******    ****** 01 ******    ****** 04 ******    ****** 02 ******
    TR ****** 11 ******    ****** 10 ******    ****** 08 ******    ****** 06 ******
A+A 13 ************************************  ************************************
    TR ****** 05 ******    ****** 12 ******    ****** 06 ******    ****** 08 ******
    CK ****** 04 ******    ****** 03 ******    ****** 02 ******    ****** 01 ******
    TR ****** 10 ******    ****** 11 ******    ****** 09 ******    ****** 07 ******
A+A 13 ************************************  ************************************
    TR ****** 07 ******    ****** 09 ******    ****** 12 ******    ****** 05 ******
    CK ****** 02 ******    ****** 04 ******    ****** 01 ******    ****** 03 ******
    TR ****** 08 ******    ****** 06 ******    ****** 10 ******    ****** 11 ******
```

VARIETY = NC-71 (KW = NC-196)

CK = UNTREATED  TR = TREATED

01 = JD
02 = CC
03 = FW
04 = UGA
05 = MM

06 = JD ADPRO @ 1.0 oz/1,000
07 = FW ADPRO @ 0.8 oz/1,000
08 = CC ADPRO @ 0.8 oz/1,000
09 = UGA ADPRO @ 0.8 oz/1,000
10 = KW ALIAS @ 1.5 oz/1,000
11 = CC ACTIGARD @1.0 oz/100,000 + ADPRO @ 0.8 oz/1,000
12 = UGA ACTIGARD @1.0 oz/100,000 + ADPRO @ 0.8 oz/1,000
13 = MM ACTIGARD @1.0 oz/100,000 + ADPRO @ 1.6 oz/1,000
(2 APPLICATIONS OF 0.8 oz EACH)

**Effect of recommended treatments applied at different sources for control of spotted wilt.**

| Treatment | No. Sources | % Spotted Wilt [1] |
|---|---|---|
| Untreated | 5 | 14.9 |
| Imidacloprid | 5 | 5.1 |
| Actigard + imidacloprid | 3 | 2.8 |

[1] From counts 6 weeks after transplant.

## 2012 PREDICTING SPOTTED WILT

Research work in North Carolina suggests spotted wilt incidence can be predicted. Annual variation in mean disease incidence in untreated plants in UGA trials from 1999-2011 was correlated with annual variation in January degree days (base 51$^0$F), $R^2$=0.70). Sentinel plots of four trays/rows of untreated plants and adjacent imidacloprid or actigard + imidacloprid treated plants are being evaluated at 25 locations to continue this work.

## Evaluation of new management options for thrips and *Tomato spotted wilt virus* in Tobacco

**R. Srinivasan[1], S. Diffie[1], A. Csinos[2], and S. Mullis[2]**
[1]Department of Entomology, [1]Department of Plant Pathology, University of Georgia, Tifton Campus

Thrips transmit *Tomato spotted wilt virus* (TSWV) to tobacco plants. Both tobacco thrips and western flower thrips can efficiently transmit TSWV to tobacco in the southeastern United States. Unlike other crops, cultivated tobacco has no genetic resistance against thrips and/or TSWV. Growers typically rely on one insecticide (imidacloprid) and a resistance-boosting chemical (Actigard®) for thrips and spotted wilt management. Although these chemicals have been useful in substantially reducing TSWV incidence in tobacco, it should be brought to attention that thrips have an extraordinary ability to develop resistance against insecticides. In fact, the western flower thrips has already developed resistance to several insecticides. Thus, it is critical to identify alternatives to imidacloprid usage and provide flexibility to growers.

The goal of our research is to identify such alternatives. We are currently evaluating four new insecticides, acetamiprid, spinetoram, dinotefuran, and cyanotraniliprole against thrips and TSWV. These insecticides have already been identified to possess efficacy against thrips, but not in tobacco. The trial is currently in progress at the Bowen Farm, University of Georgia, Tifton Campus, but some preliminary findings are provided below. We will also be conducting these evaluations in the greenhouse after the completion of the field season as well as monitor the insecticide resistance status of thrips.

Preliminary findings indicate that these new insecticides can potentially suppress thrips and TSWV incidence. The new insecticides could also be useful as an alternative to imidacloprid usage. However, more experiments need to be conducted before any concrete conclusions can be made.

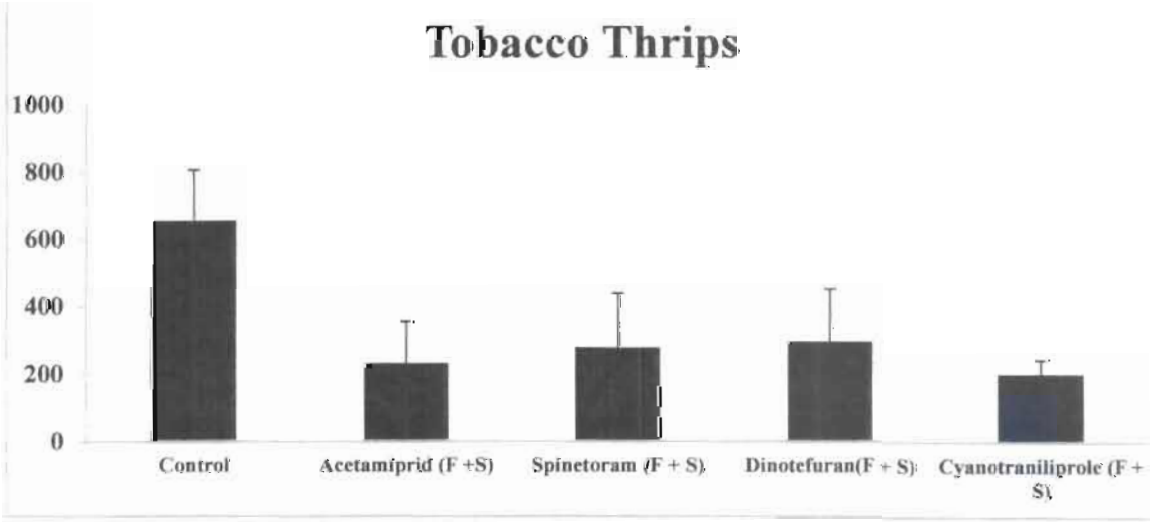


**Fig. 1. Effect of various insecticides against tobacco thrips**

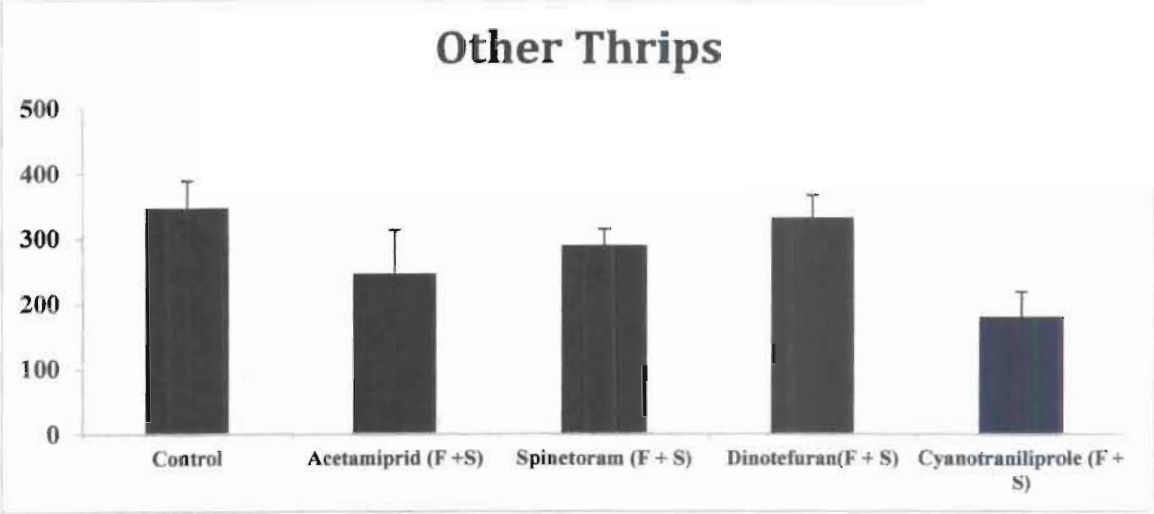


**Fig. 2. Effect of various insecticides against other thrips**

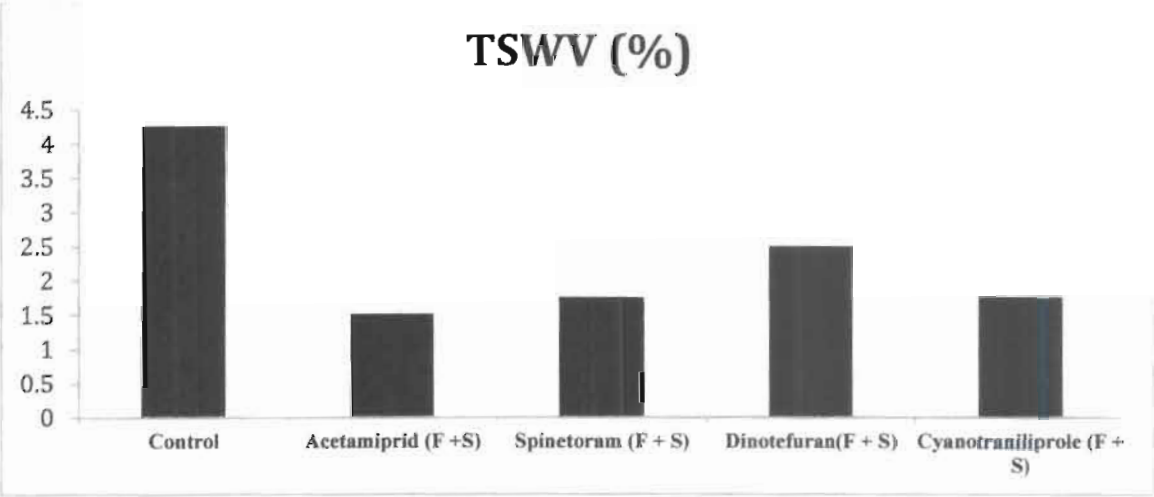


**Fig. 3. Effect of various insecticides against TSWV**

F+S – indicates float and spray applications of an insecticide.

## Bowen Farm Transplant Water Fertilizer Test - 2012

**J. Michael Moore, Extension Agronomist - Tobacco**
**Steven LaHue, Bowen Farm Research Coordinator**
**Ed Troxell, Bowen Farm Supervisor**

| Trt No. | Treatment | Per 200 gal TPW / A |
|---|---|---|
| 1 | Non-Treated | |
| 2 | 9-45-15 | 8 lb |
| 3 | 9-45-15 | 12 lb |
| 4 | 8-32-5 | 2 qt. |
| 5 | 8-32-5 | 4 qt. |
| 6 | 10-52-8 | 8 lb |

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

Row Length: 33' (20 plants) X 2 rows X 4 reps
Treated: 4/13/12; Tranplanted: 4/17/12
Variety: K 326; Transplant water: 200 gpa

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 406 | 405 | 404 | 403 | 402 | 401 | |
| | | | | | | | |
| | 302 | 301 | 305 | 306 | 304 | 303 | |
| | | | | | | | |
| | 204 | 203 | 206 | 205 | 202 | 201 | |
| | | | | | | | |
| | 101 | 102 | 103 | 104 | 105 | 106 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B | T | T | T | T | T | T | B |

N <-> S

## Foliar Insecticide Test, Bowen Farm, 2012

**J. Michael Moore, Extension Agronomist - Tobacco**
**Steven LaHue, Bowen Farm Research Coordinator**
**Ed Troxell, Bowen Farm Supervisor**

| Trt | Material | Formulatic | Rate | Application Method |
|---|---|---|---|---|
| 1 | Dipel | DF | 1 lb/A | Foliar |
| 2 | Denim | EC 0.16 | 8 oz/A | Foliar |
| 3 | Coragen | SC 1.67 | 3 oz/A | Foliar |
| 4 | Coragen | SC 1.67 | 5 oz/A | Foliar |
| 5 | Belt | SC 4.0 | 2 oz/A | Foliar |
| 6 | Belt | SC 4.0 | 3 oz/A | Foliar |
| 7 | Blackhawk | | 2.2 oz/A (wt) | Foliar |
| 8 | Blackhawk | | 2.8 oz/A (wt) | Foliar |
| 9 | Tracer | 4.0 lb/gal | 2 oz/A | Foliar |
| 10 | Check | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 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 |

Treatments applied on 5/31/12
Plants flagged with live worms evaluated for live worms 4, 7 & 8 days after treatment

## EFFECTS OF DUPONT PRODUCTS ON

## EARLY SEASON PESTS AND IMPACT ON TSWV

| TRT | | | TREATMENT COMPONENT | LOT NUMBER | FORMULATION | RATE | UNIT | TIMING |
|---|---|---|---|---|---|---|---|---|
| 1 | | 11 | HGW86 20SC 6.75 ZMA floathouse fb Cora | | | | | |
| 1 | A | | >DPX-HGW86 20 SC | | SC 200.00 GL | 0.088 | LAA | FLOATHOUSE |
| | B | | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | TRANSPLANT WATER |
| 2 | | 12 | HGW86 20SC 10.2 ZMA floathouse fb Cora | | | | | |
| 2 | A | | >DPX-HGW86 20 SC | | SC 200.00 GL | 0.134 | LAA | FLOATHOUSE |
| | B | | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 500% | ZMA | TRANSPLANT WATER |
| 3 | | 13 | HGW86 20SC 13.5 ZMA floathouse fb Coa | | | | | |
| 3 | A | | >DPX-HGW86 20 SC | | SC 200.00 GL | 0.176 | LAA | FLOATHOUSE |
| | B | | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | TRANSPLANT WATER |
| 4 | | 14 | HGW86 20SC 13.5 ZMA + Admire Pro | | | | | |
| 4 | A | | >DPX-HGW86 20 SC | | SC 200.00 GL | 0.176 | LAA | FLOATHOUSE |
| | B | | ADMIRE PRO (4.6SC) | | SC 4.60 LG | 10 | ZMA | FLOATHOUSE |
| 5 | | 15 | HGW86 20SC 13.5 + Admire fb Coragen | | | | | |
| 5 | A | | >DPX-HGW86 20 SC | | SC 200.00 GL | 0.176 | LAA | FLOATHOUSE |
| | B | | ADMIRE PRO (4.6SC) | | SC 4.60 LG | 10 | ZMA | FLOATHOUSE |
| | C | | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | TRANSPLANT WATER |
| 999 | | 16 | UTC | | | | | |
| 6 | A | | UNTREATED CHECK | | NA 0.00 NA | 0 | NA | UNTREATED |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 416 | | 415 | | 414 | | 413 | | 412 | | 411 |
| | | | | | | | | | | |
| 314 | | 311 | | 316 | | 315 | | 313 | | 312 |
| | | | | | | | | | | |
| 212 | | 216 | | 213 | | 211 | | 214 | | 215 |
| | | | | | | | | | | |
| 111 | | 112 | | 113 | | 114 | | 115 | | 116 |
| T | B | T | B | T | B | T | B | T | B | T |

**Dupont Cyazypyr(TM) FOLIAR control of early season pests (flea beetles, thrips, aphids, leps) and TSWV suppression in tobacco and TSWV suppression in tobacco**

| | TREATMENT COMPONENT | LOT NUMBER | FORMULATION | RATE | UNIT | TIMING |
|---|---|---|---|---|---|---|
| 17 | HGW86 10SE 10.1 fl oz/ac | | | | | |
| A | ADMIRE PRO (4.6SC) | | SC 4.60 LG | 10 | ZMA | FLOATHOUSE TRSPLANT |
| B | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | WATER |
| C | >HGW86 (OD 100 GL) | | OD 100.00 GL | 0.066 | LAA | FOLIAR |
| 18 | HGW86 10SE 13.5 fl oz/ac | | | | | |
| A | ADMIRE PRO (4.6SC) | | SC 4.60 LG | 10 | ZMA | FLOATHOUSE TRSPLANT |
| B | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | WATER |
| C | >HGW86 (OD 100 GL) | | OD 100.00 GL | 0.088 | LAA | FOLIAR |
| 19 | HGW86 10SE 20.5 fl oz/ac | | | | | |
| A | ADMIRE PRO (4.6SC) | | SC 4.60 LG | 10 | ZMA | FLOATHOUSE TRSPLANT |
| B | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | WATER |
| C | >HGW86 (OD 100 GL) | | OD 100.00 GL | 0.134 | LAA | FOLIAR |
| 20 | Admire + Coragen soil no foliar sprays | | | | | |
| A | ADMIRE PRO (4.6SC) | | SC 4.60 LG | 10 | ZMA | FLOATHOUSE TRSPLANT |
| B | >CORAGEN (SC 1.67 LG) | | SC 1.67 LG | 5 | ZMA | WATER |
| 21 | UTC | | | | | |
| A | UNTREATED CHECK | | NA 0.00 NA | 0 | NA | UNTREATED |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 421 | | 420 | | 419 | | 418 | | 417 |
| | | | | | | | | |
| 318 | | 317 | | 320 | | 321 | | 319 |
| | | | | | | | | |
| 220 | | 219 | | 221 | | 217 | | 218 |
| | | | | | | | | |
| 117 | | 118 | | 119 | | 120 | | 121 |
| T | B | T | B | T | B | T | B | T |

## Regalia, Agro-Mos, Actigard/Admire Pro TSWV Test - Bowen Farm, 2012

**J. Michael Moore, Extension Agronomist - Tobacco**
**Steven LaHue, Bowen Farm Research Coordinator**
**Ed Troxell, Bowen Farm Supervisor**

| Trt No. | Treatment | Rate | Applic | Target |
|---|---|---|---|---|
| 1 | Regalia | 8 oz/A (8.0 ml/tray) | drench | TSWV |
| 2 | Regalia | 16 oz/A (16.0 ml/tray) | drench | TSWV |
| 3 | Agro-mos | 8 oz/A (8.0 ml/tray) | drench | TSWV |
| 4 | Agro-mos | 16 oz/A (16.0 ml/tray) | drench | TSWV |
| 5 | Actigard Admire Pro | 0.07 g/tray (10.04 ml/tray) | | TSWV |
| 6 | Non-Treated | | | TSWV |

Plot stake is in the left plot row .
Plot Numbers: First digit = rep. number, Third digit = treatment number
TSWV counts to be made every two weeks .
Row Length: 33' (20 plants) X 2 rows X 4 reps
Treated: 4/7/12; Tranplanted: 4/10/12
Variety: K326; Transplant water: 200 gpa

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 406 | 405 | 404 | 403 | 402 | 401 | |
| | | | | | | | |
| | 302 | 301 | 305 | 306 | 304 | 303 | |
| | | | | | | | |
| | 204 | 203 | 206 | 205 | 202 | 201 | |
| | | | | | | | |
| | 101 | 102 | 103 | 104 | 105 | 106 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| B | T | T | T | T | T | T | B |

N <-> S

SYNGENTA TREATMENTS FOR INSECT CONTROL AND TSWV CONTROL - UGA BOWEN FARM - 2012

J. Michael Moore, Extension Agronomist - Tobacco
Steven LaHue, Bowen Farm Research Coordinator

| Trt | Trt/Product | Form | Form. | Form. | Form. | Product/AI | Product/AI | Converted | Converted | Appl. | Appl. | Appl. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Name | Variant | Type | Conc. | Conc. Unit | Rate | Rate Unit | Rate | Rate Unit | Code | Method | Placement |
| 221 | Check Untreated | - | | | | | | | | | | |
| 232 | A18351 | B | SC | 112.5 | GA/L | 180 | gai/ha | 22 | flozpr/a | A | DRENCH | PLANT |
| 243 | A18351 | B | SC | 112.5 | GA/L | 90 | gai/ha | 11 | flozpr/a | A | DRENCH | PLANT |
| 254 | A16971 | B | WG | 40 | %AW/W | 80 | gai/ha | 2.86 | ozwtpr/a | A | DRENCH | PLANT |
| 265 | A9180 | A | WG | 50 | %AW/W | 10 | gai/ha | 0.286 | ozwtpr/a | A | DRENCH | PLANT |
| 276 | A18351 | B | SC | 112.5 | GA/L | 180 | gai/ha | 22 | flozpr/a | BCD | SPRAY | FOLIAR |
| 287 | A16971 | B | WG | 40 | %AW/W | 160 | gai/ha | 5.7 | ozwtpr/a | BCD | SPRAY | FOLIAR |
| 298 | A9180 | A | WG | 50 | %AW/W | 160 | gai/ha | 0.57 | ozwtpr/a | BCD | SPRAY | FOLIAR |
| 302a | A18351 | B | SC | 112.5 | GA/L | 169 | gai/ha | 20.6 | flozpr/a | A | DRENCH | PLANT |
| 313a | A18351 | B | SC | 112.5 | GA/L | 225 | gai/ha | 27.4 | flozpr/a | A | DRENCH | PLANT |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 427 | 423 | 422 | 430 | 425 | 428 | 424 | 431 | 426 | 429 | | | |
| 323 | 326 | 330 | 325 | 327 | 329 | 324 | 322 | 328 | 331 | | | |
| 229 | 226 | 231 | 224 | 228 | 230 | 222 | 225 | 223 | 227 | | | |
| 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | | | |

2012
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COOPERATIVE EXTENSION
TOBACCO ON-FARM DEMONSTRATION

Title of Demonstration: RELEASED VARIETY TEST

Farmer Name/Address: BRIAN LANIER, 50 Lanier Lane, Nashville, GA 31639-8067
229 356 0710

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: TIM FLANDERS; 229 445 5962

Plot Size: 2 (46") ROWS X 500'

Variety: AS PER PLOT Soil Type: Fuquay SL Date Transplanted: 4/30/2012

Crop History: 2010: COTTON 2011: TOBACCO

Herbicide/Rate: PROWL 1 qt/A, SPARTAN 8 oz/A

Fungicides/Rate: Nematicides/Rate:

Soil Insecticide/Rate: LORSBAN 2 qt/A, CORAGEN 7 oz/A trsplt water, ADMIRE drench

Foliar Insecticide/Rate:

Fertility Program: 6-6-18 500 lb/A; 6-6-18 900 lb/A;

| | March | April | May | June | July | August |
|---|---|---|---|---|---|---|
| Rainfall: | | | | | | |
| Irrigation: | | | | | | |

Topping: Date: _____ Average No. Leaves Per Plant: _____

Sucker Control:
Material: _____ Rate/Acre: _____ Date: _____
Material: _____ Rate/Acre: _____ Date: _____
Material: _____ Rate/Acre: _____ Date: _____

**Table 1. Variety, Pedigree, Sponsor and Disease Resistance of the 2012 Released Variety Test (commercially available varieties), Brian Lanier Farm, Berrien County, Georgia.**

| Trt No | VARIETY | PEDIGREE | SPONSOR | Disease Resistance | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | BS | GW | FW | RK | BSp | Virus |
| 1. | NC 71 | F1 Hybrid | F.W. Rickard | H | R | | R | | |
| 2. | CC 13 | F1 Hybrid | Cross Creek Seed | R | R | | MjR | | |
| 3. | NC 92 | F1 Hybrid | F.W. Rickard | R | R | | TCN /R | | |
| 4. | GF 318 | F1 Hybrid | Raynor | R | R | | R | | |
| 5. | CC 27 | F1 Hybrid | Cross Creek Seed | R | R | | TCN /R | | TMV |
| 6. | NC 196 | F1 Hybrid | Gold Leaf Seed Co | R | L | | R | | |
| 7. | PVH 1452 | F1 Hybrid | F.W. Rickard | R | R | | TCN /R | | |
| 8. | GL 338 | F1 Hybrid | Gold Leaf Seed Co | R | R | | | | |
| 9. | NC 299 | F1 Hybrid | Cross Creek Seed | R | R | | TCN /R | | |
| 10. | K 326 | McNair 225(McNair 30 X NC 95) | Gold Leaf Seed Co | L | L | | R | | |
| 11. | CC 700 | F1 Hybrid | Cross Creek Seed | R | R | | TCN /R | | |
| 12. | GL 395 | F1 Hybrid | Gold Leaf Seed Co | R | R | | R | | |

[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: 1/29/12

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TOBACCO ON-FARM DEMONSTRATION

Title of Demonstration: EFFECT OF RECOMMENDED TREATMENTS APPLIED AT DIFFERENT SOURCES FOR CONTROL OF SPOTTED WILT

Farmer Name/Address: DAVID HENDLEY, 8090 Hwy 76E, Nashville, GA 31639
229 686 4081

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: TIM FLANDERS; 229 445 5962

Plot Size: 4 (46") ROWS X 800' (200+ Untreated Plants, separated by 7 rows of Treated Plants)

Variety: NC 71 from Hendley GH Soil Type: Fuquay SL Date Transplanted: 4/2/2012

Crop History: 2010: TOBACCO 2011: COTTON

Herbicide/Rate: PROWL 42 oz/A, COMMAND 1 qt/A

Fungicides/Rate: Nematicides/Rate: TELONE II 6 gal/A

Soil Insecticide/Rate: CORAGEN 7 oz/A trsplt water, ADMIRE PRO + ACTIGARD gh drench

Foliar Insecticide/Rate: BELT 3 oz/A

Fertility Program: 6-6-18 600 lb/A; 6-6-18 600 lb/A;

| | March | April | May | June | July | August |
|---|---|---|---|---|---|---|
| Rainfall: | | | | | | |
| Irrigation: | | | | | | |

Topping: Date: _____ Average No. Leaves Per Plant: _____

Sucker Control:

Material: _____ Rate/Acre: _____ Date: _____
Material: _____ Rate/Acre: _____ Date: _____
Material: _____ Rate/Acre: _____ Date: _____

**Incidence of spotted wilt at layby in plants grown from treated and untreated seedlings at various locations.**

| Location | County | TP Date | % Spotted Wilt | |
|---|---|---|---|---|
| | | | CK | Treated[1] |
| DH #1 | Berrien | 02 April | 14.0 | 2.2 |
| RT #1 | Berrien | 02 April | 8.6 | 1.9 |
| VF #1 | Berrien | 03 April | 13.8 | 2.5 |
| BF #1 | Tift | 04 April | 14.9 | 2.8 |
| TH | Berrien | 04 April | 23.7 | 7.0 |
| BS #1 | Coffee | 05 April | 22.6 | 6.6 |
| JA #1 | Coffee | 05 April | 24.7 | 8.1 |
| BG | Ben Hill | 06 April | 19.2 | 5.4 |
| RS | Coffee | 09 April | 11.0 | 1.6 |
| FW #1 | Lowndes | 09 April | 2.0 | 1.4* |
| JA #2 | Coffee | 10 April | 27.6 | 9.0 |
| WM | Coffee | 10 April | 23.7 | 3.5 |
| TA | Coffee | 10 April | 4.8 | 1.7 |
| HF #1 | Lowndes | 10 April | 4.0 | 0.5 |
| JW | Jeff Davis | 11 April | 15.6 | 3.7 |
| DS #1 | Coffee | 12 April | 21.1 | 5.2 |
| BF #2 | Tift | 12 April | 23.1 | 8.1 |
| VF #2 | Berrien | 13 April | 3.7 | 1.6 |
| DH #2 | Berrien | 16 April | 3.2 | 0.6* |
| BF #3 | Tift | 17 April | 8.7 | 1.4 |
| RT #2 | Berrien | 18 April | 3.2 | 2.0 |
| KW | Jeff Davis | 19 April | 15.1 | 4.1 |
| FW #2 | Lowndes | 19 April | 7.1 | 1.1* |
| HF #2 | Lowndes | 20 April | 1.5 | 0.1 |
| DS #2 | Coffee | 20 April | 8.0 | 1.4 |

[1] Treated with Actigard at 1.0 oz/100,000 + imidacloprid except those marked * which received imidacloprid only. The imidacloprid at different plant farms is applied at various rates and schedules.

**An unusual occurrence of TMV. All plants are NC-71 from the same green house. Transplanted 2 April 2012.**

| | % of TMV[1] | | |
|---|---|---|---|
| REP | CK[2] | Next 100 (A+A)[3] | Adjacent (A+A)[4] |
| 1 | 32.6 | 6.0 | 0.4 |
| 2 | 58.2 | 29.0 | 2.0 |
| 3 | 80.2 | 31.0 | 0.0 |
| 4 | 42.9 | 13.0 | 0.0 |

[1] TMV incidence 8 weeks after transplant.
[2] Trays of untreated seedlings.
[3] Next 100 plants after the untreated tray is used up. These plants were treated with Actigard + Admire Pro.
[4] Actigard + Admire Pro treated plants in the row adjacent to the untreated plants.

NOTE: Plants from the same house also NC71 set 16 April 2012 show only traces of TMV (<1%) at 6 weeks after transplant. These plants received Admire Pro but no Actigard.

**UNIVERSITY OF GEORGIA**
**COOPERATIVE EXTENSION**
**TOBACCO ON-FARM DEMONSTRATION**
**JEFF DAVIS COUNTY, GEORGIA – 2012**

Jerry, Jerry, Jr., and Kelvin Wooten, Farmer Cooperators
Dr. J. Michael Moore, Agronomist-Tobacco
Tim Varnedore, County Extension Coordinator
David C. Jones, Extension Entomologist (Retired)

## Control of Tobacco Splitworm, Tobacco Budworm and Suppression of Tomato Spotted Wilt Virus in Flue-Cured Tobacco - 2012

### Experimental Design:

| **Treatments:** | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 13 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Plots →** | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 |

| **Treatments:** | 5 | 4 | 10 | 1 | 8 | 2 | 3 | 7 | 6 | 9 | 12 | 13 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Plots →** | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 |

| **Treatments:** | 10 | 1 | 5 | 2 | 3 | 9 | 8 | 6 | 4 | 7 | 13 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Plots →** | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 |

| **Treatments:** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Plots →** | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 |

**Note: Treatments 1 through 10**

(1) All plots 4 rows x 100 ft. long. RCB design, 4 replications/treatment
(2) 264 plants/plot
(3) All plants treated with Actigard 50WG ( 0.5 oz./50,000 cells) + Alias 2F (2.6 ozs./1,000 cells) in greenhouse on April 15, 2012.
(4) Tobacco variety K-326 transplanted on April 10, 2012, using 150 gals. water/acre

**Note: Treatments 11 through 13**

(1) Treatments 11, 12, and 13 were divided into 2 row plots x 100 ft. long, RCB design, 2 to 4 replications/treatment (designated in Tables 5 & 6)
(2) 132 plants/plot
(3) Tobacco variety K-326 transplanted on April 10, 2012, using 150 gals. water/acre

**Note: Table abbreviations:** TD = Tray Drench in the Greenhouse, TPW = Transplant Water Treatment in the Field, F = Foliar Treatment in the Field

**Table 1. Tobacco Splitworm Damage in Flue-Cured Tobacco Jerry Wooten Farm, Jeff Davis County, GA - 2012**

| Treatment Number | Treatment | Rate/Acre | % Damage[1] | | | |
|---|---|---|---|---|---|---|
| | | | 5/4 | 5/10 | 5/16 | 5/24 |
| 1 | Coragen 1.67 SC | 7 ozs. TPW | 0 | 0 | 0 | 0 |
| 2 | Coragen 1.67 SC + Acephate 97S | 7 ozs. TPW + 0.75 lbs. TPW | 0.1 | 0.1 | 1.1 | 1.1 |
| 3 | Acephate 97S | 0.75 lbs. TPW | 28.1 | 41.9 | 49.8 | 52.9 |
| 10 | Untreated | - | 34.2 | 35.9 | 56.3 | 64.2 |

[1]Examined all plants in each plot on each evaluation date.

## Will a foliar spray of Coragen 1.67 SC suppress tobacco splitworm damage in flue-cured tobacco?

**Table 2. Change in Tobacco Splitworm Damage in Flue-Cured Tobacco Jerry Wooten Farm, Jeff Davis County, GA - 2012**

| Plot Number | Treatment[1] No. 4 | Rate/Acre | % Damage 5/17[2] | % Damage 5/24[2] | % Change |
|---|---|---|---|---|---|
| 104 | Coragen 1.67 SC + DyneAmic | 5 ozs. F + 1 pt./100 gal. | 37.5 | 41.7 | 11.2 |
| 209 | Coragen 1.67 SC + DyneAmic | 5 ozs. F + 1 pt./100 gal. | 55.3 | 58.3 | 5.4 |
| 302 | Coragen 1.67 SC + DyneAmic | 5 ozs. F + 1 pt./100 gal. | 53.8 | 53.8 | 0 |
| 407 | Coragen 1.67 SC + DyneAmic | 5 ozs. F + 1 pt./100 gal. | 50.0 | 50.0 | 0 |
| | | | | | Average % Change = 4.2 |

[1]Sprayed Coragen 1.67 SC on 5/17/12.
[2]Examined all plants in each plot on each evaluation date.

**Table 3. Change in Tobacco Splitworm Damage in Flue-Cured Tobacco Jerry Wooten Farm, Jeff Davis County, GA - 2012**

| Plot Number | Treatment No. 3 | Rate/Acre | % Damage 5/16[1] | % Damage 5/24[1] | % Change |
|---|---|---|---|---|---|
| 103 | Acephate 97S | 0.75 lbs. TPW | 40.2 | 46.2 | 14.9 |
| 205 | Acephate 97S | 0.75 lbs. TPW | 50.0 | 50.8 | 1.6 |
| 307 | Acephate 97S | 0.75 lbs. TPW | 50.0 | 53 | 6.0 |
| 408 | Acephate 97S | 0.75 lbs. TPW | 59.1 | 61.4 | 3.9 |
| | | | | | Average % Change = 6.6 |

[1]Examined all plants in each plot on each evaluation date.

**Table 4. Change in Tobacco Splitworm Damage in Flue-Cured Tobacco Jerry Wooten Farm, Jeff Davis County, GA - 2012**

| Plot Number | Treatment No. 10 | Rate/Acre | % Damage 5/16[1] | % Damage 5/24[1] | % Change |
|---|---|---|---|---|---|
| 110 | Untreated | - | 48.9 | 63.6 | 30.1 |
| 201 | Untreated | - | 47.0 | 51.5 | 9.6 |
| 303 | Untreated | - | 63.6 | 66.7 | 4.9 |
| 401 | Untreated | - | 65.5 | 75.0 | 14.5 |
| | | | | | Average % Change = 14.8 |

[1]Examined all plants in each plot on each evaluation date.

**Table 5. Tobacco Splitworm Damage in Flue-Cured Tobacco Jerry Wooten Farm, Jeff Davis County, GA - 2012**

| Treatment Number | Treatment | Rate/Acre | % Damage | | |
|---|---|---|---|---|---|
| | | | 5/10 | 5/16 | 5/26 |
| 11a[1] | Regalia | 4 qts. TPW[3] | 1.7 | 7.6 | 13.3 |
| 11b[1] | Regalia + Regalia | 4 qts. TPW[3] + 2 qts. F[3] | 2.9 | 3.0 | 7.6 |
| 12a[1] | Agro-mos | 8 ozs. TD[4] | 39.4 | 62.3 | 62.3 |
| 12b[2] | Agro-mos + Agro-mos | 8 ozs. TD[4] + 4 ozs. F[5] | 68.2 | 68.2 | 68.2 |
| 12c[2] | Agro-mos + Agro-mos | 8 ozs. TD[4] + 8 ozs. F[5] | 32.2 | 48.1 | 48.1 |
| 13a[2] | Untreated | - | 69.7 | 69.7 | 69.7 |
| 13b[2] | Untreated + Agro-mos | - + 4 ozs. F[5] | 62.1 | 67.4 | 72.8 |
| 13c[2] | Untreated + Agro-mos | - + 8 ozs. F[5] | 53.8 | 58.7 | 59.1 |
| 13d[2] | Untreated + Regalia | - + 2 qts. F[5] | 49.6 | 49.6 | 49.6 |
| 10a[1] | Alias 2F + Actigard 50WG | 2.6 ozs./ 1,000 cells[6] + 0.5 oz./ 50,000 cells[6] | 41.9 | 52.3 | 62.1 |

[1]Four replications per treatment
[2]Two replications per treatment
[3]Transplanted on 4/10/12
[4]Tray drench applied in greenhouse on 4/7/12
[5]Foliar treatments applied in field on 4/27/12
[6]Tray drench applied in the greenhouse on 4/5/12

**Table 6. Tomato Spotted Wilt Suppression in Flue-Cured Tobacco Jerry Wooten Farm, Jeff Davis County, GA - 2012**

| Treatment Number | Treatment | Rate/Acre | % Suppression 5/18 | 5/26 |
|---|---|---|---|---|
| 11a[1] | Regalia | 4 qts. TPW[3] | 14.4 | 18.2 |
| 11b[1] | Regalia + Regalia | 4 qts. TPW[3] + 2 qts. F[3] | 15.5 | 19.0 |
| 12a[1] | Agro-mos | 8 ozs. TD[4] | 10.5 | 13.1 |
| 12b[2] | Agro-mos + Agro-mos | 8 ozs. TD[4] + 4 ozs. F[5] | 9.1 | 12.9 |
| 12c[2] | Agro-mos + Agro-mos | 8 ozs. TD[4] + 8 ozs. F[5] | 10.2 | 16.7 |
| 13a[2] | Untreated | - | 9.5 | 14.0 |
| 13b[2] | Untreated + Agro-mos | - + 4 ozs. F[5] | 11.4 | 19.0 |
| 13c[2] | Untreated + Agro-mos | - + 8 ozs. F[5] | 15.9 | 20.5 |
| 13d[2] | Untreated + Regalia | - + 2 qts. F[5] | 16.3 | 20.8 |
| 10a[1] | Alias 2F + Actigard 50WG | 2.6 ozs./ 1,000 cells[6] + 0.5 oz./ 50,000 cells[6] | 1.5 | 2.8 |

[1]Four replications per treatment
[2]Two replications per treatment
[3]Transplanted on 4/10/12
[4]Tray drench applied in greenhouse on 4/7/12
[5]Foliar treatments applied in field on 4/27/12
[6]Tray drench applied in the greenhouse on 4/5/12

**Table 7. Comparing Various Foliar Insecticides for Control of Tobacco Budworm in Flue-Cured Tobacco. Jerry Wooten Farm, Jeff Davis County - 2012**

| | | | | Average % Control | | |
|---|---|---|---|---|---|---|
| **Treatment Number** | **Treatments[4]** | **Rate/Acre** | **% Infestation 6/1/12[5]** | **3 DAT[6]** | **4 DAT[6]** | **6 DAT[6]** |
| 1[1] | Dipel DF | 1 lb. | 9.5 | 26.0 | 48 | 66 |
| 2[2] | Denim 0.16 EC | 8 ozs. | 10.2 | 76.9 | 88.0 | 95.4 |
| 3[3] | Coragen 1.67 SC | 3 ozs. | 15.6 | 64.8 | 72.7 | 83.6 |
| 5 | Coragen 1.67 SC | 5 ozs. | 13.6 | 77.8 | 83.3 | 91.0 |
| 6 | Belt 4.0 SC | 2 ozs. | 12.8 | 80.7 | 87.4 | 91.9 |
| 7 | Belt 4.0 SC | 3 ozs. | 12.3 | 80.8 | 87.7 | 92.3 |
| 8 | Blackhawk | 2.2 ozs. | 12.4 | 88.5 | 93.9 | 95.4 |
| 9 | Blackhawk | 2.8 ozs. | 9.9 | 79.0 | 85.7 | 94.3 |
| 10 | Tracer 4 SC | 2 ozs. | 12.5 | 73.5 | 78.8 | 86.4 |

[1]Coragen 1.67 SC (7 ozs./A) applied in transplant water (150 gals./A) on April 10.
[2]Coragen 1.67 SC (7 ozs./A) + Acephate 97S (0.75 lb./A) applied in transplant water (150 gals./A) on April 10.
[3]Acephate 97S (0.75 lb./A) applied in transplant water (150 gals./A) on April 10.
[4]Applied all treatments using 3 TX 18 nozzles per row at 45 PSI in 35 gals. water/acre.
[5]Flagged all plants with live tobacco budworms in each plot on May 31 and June 1 and evaluated the percent live tobacco budworms for percent control 3, 4 and 6 days after treatment.
[6]Examined all plants in each plot on each evaluation date.

**Table 8. Comparing Various Foliar Insecticides for Control of Tobacco Budworm in Flue-Cured Tobacco. Jerry Wooten Farm, Jeff Davis County - 2012**

| | | | % Infestation | | | |
|---|---|---|---|---|---|---|
| **Treatment Number** | **Treatments[4]** | **Rate/Acre** | **6/1/12[5]** | **3 DAT[6]** | **4 DAT[6]** | **6 DAT[6]** |
| 1[1] | Dipel DF | 1 lb. | 9.5 | 9.0 | 4.9 | 3.2 |
| 2[2] | Denim 0.16 EC | 8 ozs. | 10.2 | 2.4 | 1.2 | 0.5 |
| 3[3] | Coragen 1.67 SC | 3 ozs. | 15.6 | 5.9 | 4.3 | 2.6 |
| 5 | Coragen 1.67 SC | 5 ozs. | 13.6 | 3.0 | 2.3 | 1.2 |
| 6 | Belt 4.0 SC | 2 ozs. | 12.8 | 2.5 | 1.6 | 1.0 |
| 7 | Belt 4.0 SC | 3 ozs. | 12.3 | 2.4 | 1.5 | 0.9 |
| 8 | Blackhawk | 2.2 ozs. | 12.4 | 1.4 | 0.8 | 0.6 |
| 9 | Blackhawk | 2.8 ozs. | 9.9 | 2.1 | 1.4 | 0.6 |
| 10 | Tracer 4 SC | 2 ozs. | 12.5 | 3.3 | 2.7 | 1.7 |
| 4 | Coragen 1.67 SC + DyneAmic | 5 ozs. + 1 pt./100 gals. | 0 | 5.6 | 4.5 | 3.2 |

[1]Coragen 1.67 SC (7 ozs./A) applied in transplant water (150 gals./A) on April 10.
[2]Coragen 1.67 SC (7 ozs./A) + Acephate 97S (0.75 lb./A) applied in transplant water (150 gals./A) on April 10.
[3]Acephate 97S (0.75 lb./A) applied in transplant water (150 gals./A) on April 10.
[4]Applied all treatments using 3 TX 18 nozzles per row at 45 PSI in 35 gals. water/acre.
[5]Flagged all plants with live tobacco budworms in each plot on May 31 and June 1 and evaluated the percent live tobacco budworms infestations 3, 4 and 6 days after treatment.
[6] Examined all plants in each plot on each evaluation date.

2012
UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION
TOBACCO ON-FARM DEMONSTRATION

Title of Demonstration: EFFECT OF RECOMMENDED TREATMENTS APPLIED AT DIFFERENT SOURCES FOR CONTROL OF SPOTTED WILT

Farmer Name/Address: JOEY ANDERSON (229) 389-0688
4228 GA Highway 149, Ambrose, GA 31512

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: EDDIE MCGRIFF; 912 384 1402

Plot Size: 4 (46") ROWS X 800' (200+ Untreated Plants, separated by 7 rows of Treated Plants)

Variety: Soil Type: Date Transplanted:

Crop History: 2010: 2011:

Herbicide/Rate:

Fungicides/Rate: Nematicides/Rate: TELONE II 6 gal/A

Soil Insecticide/Rate:

Foliar Insecticide/Rate:

Fertility Program:

| | March | April | May | June | July | August |
|---|---|---|---|---|---|---|
| Rainfall: | | | | | | |
| Irrigation: | | | | | | |

Topping: Date: _____ Average No. Leaves Per Plant: _____

Sucker Control:

Material: _____ Rate/Acre: _____ Date: _____
Material: _____ Rate/Acre: _____ Date: _____
Material: _____ Rate/Acre: _____ Date: _____

**Incidence of spotted wilt at layby in plants grown from treated and untreated seedlings at various locations.**

| Location | County | TP Date | % Spotted Wilt | |
|---|---|---|---|---|
| | | | CK | Treated[1] |
| DH #1 | Berrien | 02 April | 14.0 | 2.2 |
| RT #1 | Berrien | 02 April | 8.6 | 1.9 |
| VF #1 | Berrien | 03 April | 13.8 | 2.5 |
| BF #1 | Tift | 04 April | 14.9 | 2.8 |
| TH | Berrien | 04 April | 23.7 | 7.0 |
| BS #1 | Coffee | 05 April | 22.6 | 6.6 |
| JA #1 | Coffee | 05 April | 24.7 | 8.1 |
| BG | Ben Hill | 06 April | 19.2 | 5.4 |
| RS | Coffee | 09 April | 11.0 | 1.6 |
| FW #1 | Lowndes | 09 April | 2.0 | 1.4* |
| JA #2 | Coffee | 10 April | 27.6 | 9.0 |
| WM | Coffee | 10 April | 23.7 | 3.5 |
| TA | Coffee | 10 April | 4.8 | 1.7 |
| HF #1 | Lowndes | 10 April | 4.0 | 0.5 |
| JW | Jeff Davis | 11 April | 15.6 | 3.7 |
| DS #1 | Coffee | 12 April | 21.1 | 5.2 |
| BF #2 | Tift | 12 April | 23.1 | 8.1 |
| VF #2 | Berrien | 13 April | 3.7 | 1.6 |
| DH #2 | Berrien | 16 April | 3.2 | 0.6* |
| BF #3 | Tift | 17 April | 8.7 | 1.4 |
| RT #2 | Berrien | 18 April | 3.2 | 2.0 |
| KW | Jeff Davis | 19 April | 15.1 | 4.1 |
| FW #2 | Lowndes | 19 April | 7.1 | 1.1* |
| HF #2 | Lowndes | 20 April | 1.5 | 0.1 |
| DS #2 | Coffee | 20 April | 8.0 | 1.4 |

[1] Treated with Actigard at 1.0 oz/100,000 + imidacloprid except those marked * which received imidacloprid only. The imidacloprid at different plant farms is applied at various rates and schedules.

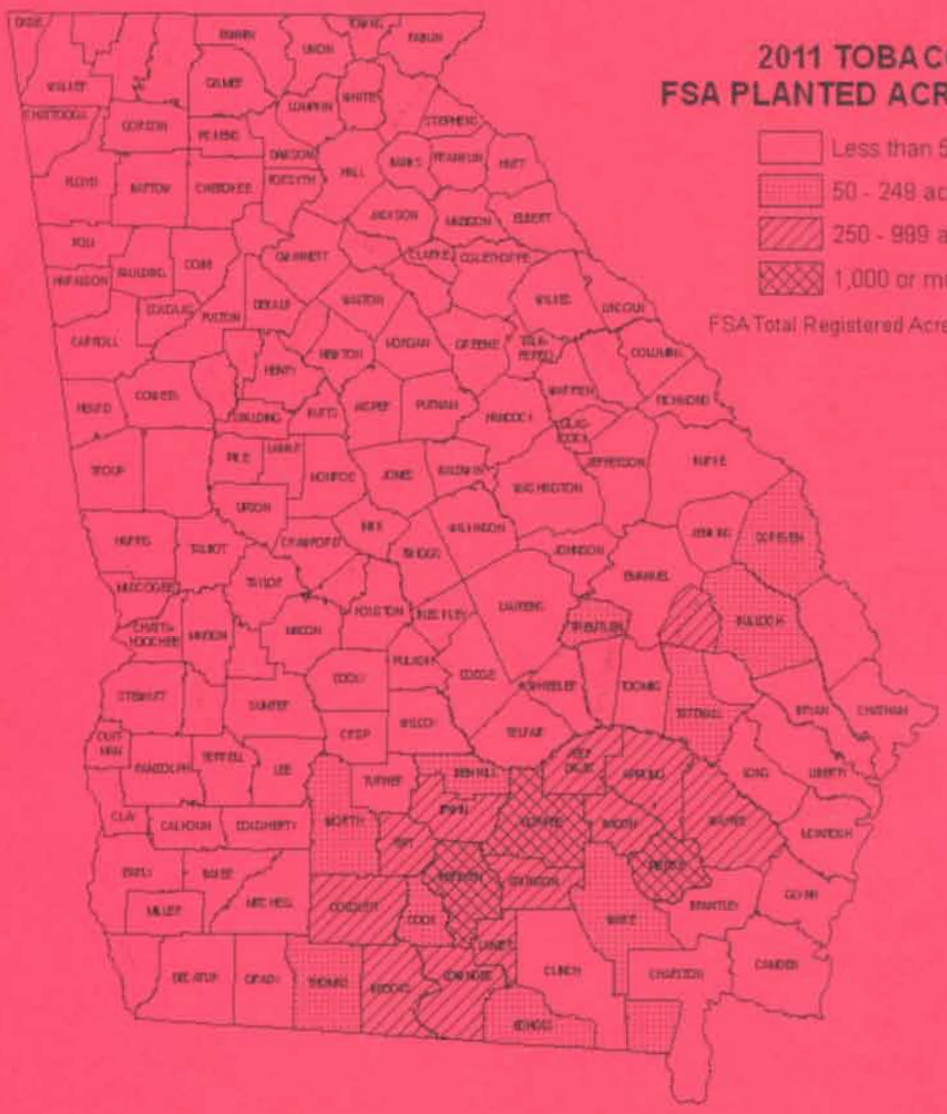
THANK YOU FOR YOUR INTEREST IN THE

2012 GEORGIA - FLORIDA TOBACCO TOUR

PLAN TO JOIN US FOR THE

2013 GEORGIA - FLORIDA TOBACCO TOUR

# JUNE 10-12, 2013




Source: USDA Farm Service Agency (FSA)
http://www.fsa.usda.gov/FSA/webapp?area=newsroom&subject=landing&topic=foi-er-fn-cad

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**NASS 2011 Tobacco Estimates**

**Acres Harvested: 11,900**

**Yield per Acre: 2,250 bu.**

**Total Production: 26,775,000**

Source: Crop Production Report released May 10, 2012

http://usda01.library.cornell.edu/usda/current/CropProd/CropProd-05-10-2012.pdf

When you have a question . . .
Call or visit your local office of The University of Georgia's Cooperative Extension Service.

You'll find a friendly, well-trained staff ready to help you with information, advice and free publications covering agriculture and natural resources, home economics, 4-H and youth development and resource 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.



Crop & Soil Sciences

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Dr. Scott Angle, Dean and Director
The University of Georgia College of Agricultural and Environmental Sciences