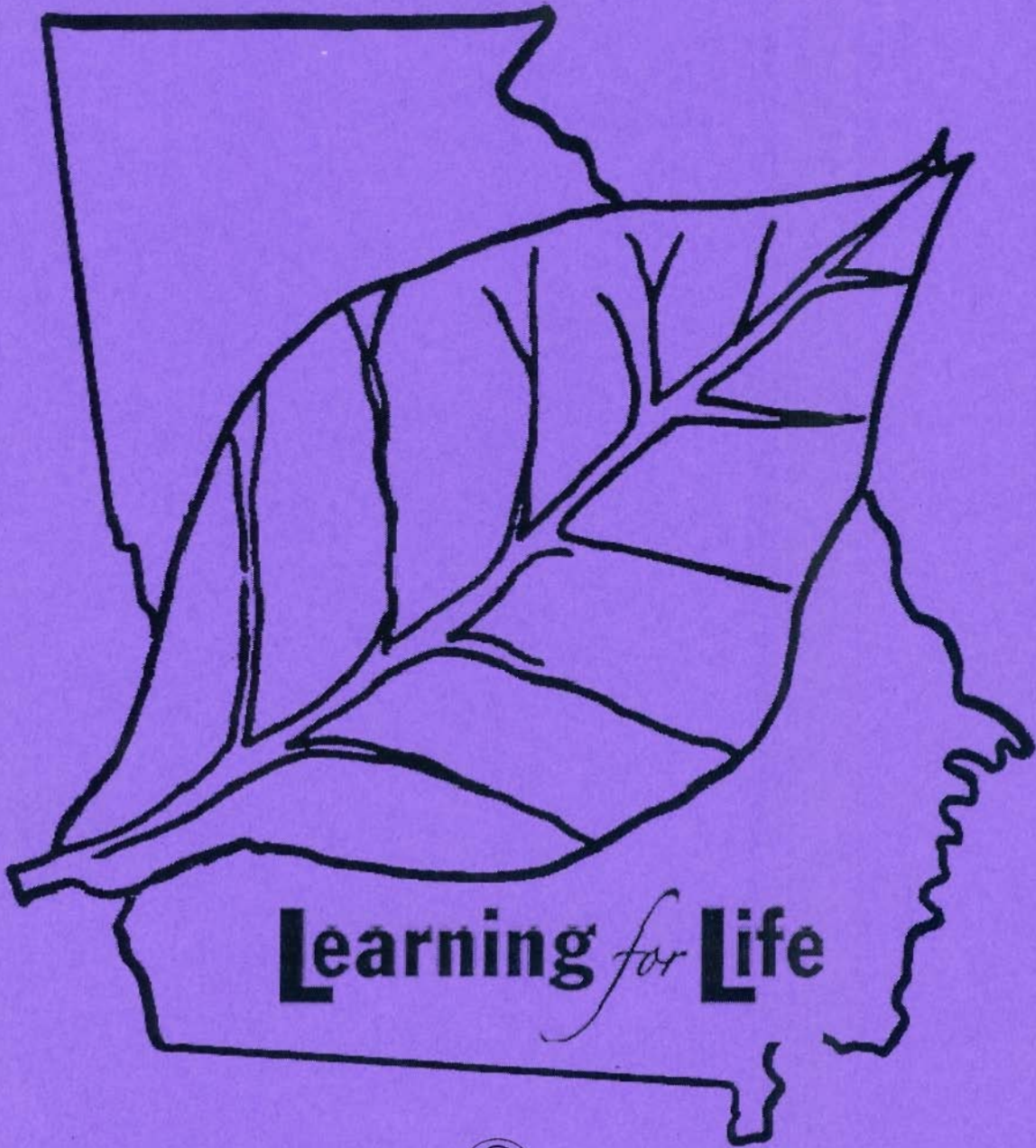


2007

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

<u>County</u>	<u>Phone No.</u>	<u>FAX No.</u>	<u>County</u>	<u>Phone No.</u>	<u>FAX No.</u>
Appling	912-367-8130	912-367-1184	Jeff Davis	912-375-6648	912-379-1091
Atkinson	912-422-3277	912-422-6223	Jenkins	478-982-4408	478-982-5426
Bacon	912-632-5601	912-632-6910	Lanier	229-482-3895	229-482-2654
Ben Hill	229-426-5175	229-426-5176	Laurens	478-272-2277	478-277-2930
Berrien	229-686-5431	229-686-7831	Liberty	912-876-2133	912-368-2589
Brantley	912-462-5724	912-462-5464	Long	912-545-9549	912-545-9556
Brooks	229-263-4103	229-263-5607	Lowndes	229-333-5185	229-333-5188
Bryan	912-653-2231	912-653-2236	Mitchell	229-336-2066	229-336-2068
Bulloch	912-871-6130	912-871-6955	Montgomery	912-583-2240	912-583-2744
Candler	912-685-2408	912-685-6614	Pierce	912-449-2034	912-449-8005
Charlton	912-496-2040	912-496-2364	Tattnall, Reidsville	912-557-6724	912-557-3332
Clinch	912-487-2169	912-487-3432	Tattnall, Glennville	912-654-2593	912-654-9136
Coffee	912-384-1402	912-389-4007	Telfair	912-868-6489	912-868-2773
Colquitt	229-616-7455	229-616-7033	Thomas	229-225-4130	229-225-4183
Cook	229-896-7456	229-896-7457	Tift	229-391-7980	229-391-7999
Decatur	229-248-3033	229-248-3859	Toombs	912-526-3101	912-526-1012
Dodge	478-374-8137	478-374-8139	Treutlen	912-529-3766	912-529-3767
Echols	229-559-5562	229-559-9436	Turner	229-567-3448	229-567-0135
Effingham	912-754-2134	912-754-7632	Ware	912-287-2456	912-287-2499
Emanuel	478-237-1226	478-237-8451	Wayne	912-427-5965	912-427-5967
Evans	912-739-1292	912-739-7831	Wheeler	912-568-7138	912-568-1768
Grady	229-377-1312	229-377-9026	Wilcox	229-365-2323	229-365-2324
Irwin	229-468-7409	229-468-9838	Worth	229-776-8216	229-776-8239
BURLEY COUNTIES					
Towns	706-896-2024	706-896-8523	Union	706-439-6030	706-439-6036

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	229-386-3512	229-386-3440
Paul Sumner, Extension Engineer	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	229-386-3373	229-386-7285
Stephen Mullis, Plant Pathology, CPES, Tifton	229-386-7479	229-386-7285
Bryan Maw, Engineering, CPES, Tifton	229-386-3377	229-386-3958
Bob McPherson, Entomology, CPES, Tifton	229-386-7141	229-386-3086
Steve LaHue, Bowen Farm Technician, CPES, Tifton Office	229-386-3602	229-386-7293
Mike Stephenson, Crop and Soil Sciences, Research Coordinator	229-386-3167	229-386-7293
CPES, BowenFarm	229-386-7053	

Physical / Postal Address: 4604 Research Way, UGA Tifton Campus / P. O.Box 748, Tifton, Georgia, 31793, USA

**THE GEORGIA EXTENSION TOBACCO TEAM EXPRESSES
APPRECIATION TO THE FOLLOWING FINANCIAL SUPPORTERS OF
THE 2007 GEORGIA TOBACCO TOUR**

Agri-Supply of Tifton & Statesboro	Georgia-Pacific / Nitamin
AgGeorgia Farm Credit	Georgia Tobacco Commission
AgSouth Farm Credit	Gold Leaf Seed Co.
Alliance One International	Helena
Bayer Crop Science	Horizon Ag Products
Berrien County Farm Bureau	Leasing Unlimited - Lee Dukes
Carolina Soil Company, Inc.	Makhteshim Agan of North America (MANA)
Chemtura Corporation	Marco Manufacturing Co., LLC
Cross Creek Seeds, Inc.	Powell Manufacturing Co., LLC
Cross Creek Coating	Mosaic USA Inc.
Dixon Farm Supply & Dixon Gin	Philip Morris
Dow AgroSciences	R.J. Reynolds Tobacco Company
Drexel Chemical Company	Syngenta
Fair Products, Inc.	Valent USA
FMC	YARA North America
Ford Brewer/Roger Davis	

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

4604 Research Way, P.O. Box 748, Tifton, GA 31793 PH: 229-386-3006 FAX: 229-386-7308

SCHEDULE - 2007 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 11, 2007

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.

Tuesday, June 12, 2007

7:30 am - Leave Holiday Inn parking lot.

8:15 am - Arrive Burch Farms - Wayne County
(Released Varieties Demonstration & Regional Variety Test)
- Randy Franks, County Extension Coordinator

9:15 am - Arrive Jay Davis Farm - Pierce County
(Comparing Admire Pro, Actigard 50WG, and Nutri-Phite Magnum, for
Suppression of Tomato Spotted Wilt Virus in Flue-Cured Tobacco)
- James Jacobs, County Extension Coordinator

10:20 pm - Arrive Kenneth Williams Farm - Jeff Davis County
(Imidacloprid Source and Actigard 50WG Test)
- Tim Varnedore, Jeff Davis County Extension Coordinator

11:10 pm - Arrive Jerry Wooten Farm - Jeff Davis County
(Admire Pro Rinse-off Water Rates)
- Tim Varnedore, Jeff Davis County Extension Coordinator

12:00 am - SPONSORED LUNCH -

1:15 pm - Leave after lunch

Tuesday, June 12, 2007 (continued)

- 1:30 am - Arrive Nathan Henderson Plot - Coffee County
(Strip-Till Effects on TSWV Incidence)
(Comparison of Small Grains for Strip-Till of Tobacco)
- Eddie McGriff, County Extension Coordinator
- 2:30 am - Arrive Joey Anderson Plot - Coffee County
(Evaluation of Trapping of Splitworm Moths
and Subsequent Chemical Sprays for Control of Tobacco Splitworm)
- Eddie McGriff, County Extension Coordinator
- 4:15 pm - Check-in Holiday Inn, Tifton, GA PH: (229)382-6687
(located off Exit 62 on I-75 and GA Hwy 82)
- 6:30 pm - Social - Location To Be Announced on the Tour
- 6:30 pm - Supper - Location To Be Announced on the Tour

Wednesday, June 13, 2007

- 7:30 am - Leave Holiday Inn parking lot.
- 7:45 am - Arrive Bowen Farm - Coastal Plain Experiment Station
- 7.55 Bob McPherson, Entomologist
 Tobacco Entomology Research Projects
- 8.20 Mike Stephenson, Research Coordinator
 Regional Variety Small Plot Test
 Georgia Official Variety Test
- 8.40 Alex Csinos, Pathologist
 - TSWV Management
- 9.00 J. Michael Moore, Extension Agronomist - Tobacco
 Sidedress Nitrogen Fertilizer Source Demonstration
 Transplant Water Fertilizer Demonstration
 Imidacloprid Source and Actigard 50WG for TSWV Control
- 9.20 Steve Mullis, Virology Lab Technician
- 9.40 Claudia Nischwitz - Postdoctoral Associate
- 10.00 David Riley, Entomologist
 Gina Angelella, Graduate Student
 Effects of Pine Pollen on Thrips
- 10.20 David Ruberson, Entomologist
 Effects of N Fertilization Level on Beneficial Insects

Wednesday, June 13, 2007 (continued)

- 11:30 pm - SPONSORED LUNCH -
Courtesy of the Georgia Tobacco Commission
- Tifton Campus Conference Center
(RDC Rd. off Hwy 41 at I-75, Exit 64)
- 12:30 pm - Leave RDC
- 1:15 pm - Arrive Vickers Farm - Berrien County, GA
(Evaluation of Trapping of Splitworm Moths
and Subsequent Chemical Sprays for Control of Tobacco Splitworm)
- Tim Flanders, County Extension Coordinator
- 2:00 pm - Arrive Paul Folsom Farm - Lanier County
(Regional Variety Test)
- Elvin Andrews, County Extension Coordinator
- 2:45 pm - Arrive Herring Farm - Echols County
(Tri-Max, Provado and Actigard 50WG Application on Bare Root Plants)
(Tri-Max and Provado Application on Bare Root Plants)
- Jake Price, Lowndes County Extension Agent
- 3:30 pm - Arrive Damon & Roger Deas Farm - Hamilton County, FL
- Allen Tyree, Hamilton County Extension Director & Extension Agent
- 4:45 pm - Arrive K. O. Dicks Farms, Inc. - Columbia County, FL
(Florida Tobacco)
- Bill Thomas, Columbia County Extension Agent

**THIS IS THE END OF
THE 2007 GEORGIA-FLORIDA TOBACCO TOUR
HAVE A SAFE TRIP HOME !**





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DIRECTIONS FOR 2007 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 11, 2007

Mileage Directions (* - indicates traffic assistance needed)

To Social and Dinner at Mixon's Pond
* Left out of Holiday Inn onto Hwy 82 West and through Waycross
10.2 Right into Mixon's Pond drive

Tuesday, June 12, 2007

Mileage Directions (* - indicates traffic assistance needed)

* Left out of Holiday Inn onto Hwy 82 West and
 Bare right on US1 / Brunswick Hwy./ Memorial Drive to Hwy 84
 Right on Hwy 84 East / Plant Ave.
27.25 Continue on Hwy 84 through Blackshear, Patterson & Offerman
 Left at Screven onto C.W. Collins Street
 and out of town onto Nine Run Road
3.25 Right at Screven Church of God sign
0.35 Cross at stop sign onto dirt road
0.25 Follow dirt around tobacco field to old barn in 6 acre field of tobacco
Burch Farm Variety Demonstrations

 Back to Screven
3.85 Right onto Hwy 84 West through Offerman, Patterson, Blackshear
18.0 Right at stoplight at McDonalds in Blackshear at Hwy121
0.1 Left onto Hwy 203 / Strickland Ave.
0.4 Right on Hwy 203 N / Hendry Street
2.6 Right at milemarker 3 on Alvin Walker Road
0.7 Right at Jeff Dixon Road
0.6 Right at Pecan Trees
0.2 Demonstration on Right
Jay Davis Actigard 50WG, Admire Pro, Nutri-Phite Demo.

Tuesday, June 12, 2007 (continued)

Mileage Directions (* - indicates traffic assistance needed)

From demonstration travel forward to
0.5 Right on Madge Rd.
0.8 Right on Hwy 203 at stop sign
0.8 Left on Old Alma Road / Blackshear Hwy
5.3 Right onto Radio Station Road
13.5 Right at stop light in Alma onto US 1 North
 Through two stoplights in Alma
6.8 Left on Hwy 23 N
9.7 Left on Zoar Ch Rd/Ira Graham Rd toward Bridgeford Church of God
3.2 Left at Bridgeford Church of God onto Bridgeford Church Road
0.9 Left onto CR 131 dirt road at house with blue shutters
0.4 Left into field with demonstration

Kenneth Williams Imidacloprid Source Demonstration

Back to Bridgeford Church Road
0.4 Right on Bridgeford Church Road
0.9 Stop sign at Bridgeford Church of God
2.4 Left onto Satilla Church Road
1.1 Stop sign at Bell Telephone Road onto Elizabeth Church Road
3.0 Stop sign at 221/135 onto Preston Rd
0.5 Left onto Hazlehurst Hwy/Broxton Hwy
4.0 Right at Snipesville onto Hwy 107
2.8 Left onto W. H. Smith Road
0.9 Demonstration on the right

Jerry Wooten Admire Pro Wash-off Rate Demonstration

Leave plot driving in the same direction
3.7 Right at stop sign onto Hwy 268 West (Broxton Hwy)
7.2 Left at stop light in Broxton onto Hwy 441
7.1 Through stop light at Hwy 206 connector
0.4 Through stop light at McNeil Drive
0.6 stop light at W. Walker St
0.5 stop light at Ward St
0.1 stop light at Ashley St.
0.1 stop light at Bryan St.
0.4 stop light at Hwy 158
0.3 stop light at College Park Rd
0.4 U-Turn after McDonalds
0.2 Right into parking lot at Golden Corral

Tuesday, June 12, 2007 (continued)

Mileage Directions (* - indicates traffic assistance needed)

Lunch @ Golden Corral

From lunch
Right out of parking lot.
0.4 Through stop light at College Park Rd.
0.6 Right onto Hwy 158 / E. Baker St.
1.25 Cross Hwy 221 / 135
5.8 Right on Burl Mill Rd (at blue sign for TMR ATVs & Dirt Bikes)
3.8 Demonstration on Right

Nathan Henderson Strip-Till Tobacco Demonstration

Back to Hwy 158
3.8 Left onto Hwy 158
5.8 Cross Hwy 221 / 135 at light, stay on 158
1.25 Cross 221 Business at stop light
1.38 Cross Bowens Mill Road at stop light on Hwy 158
6.3 Right on Conway Vickers Road
7.1 Cross Youngie Fussell Rd at stop sign onto Aubrey Paulk Road
1.4 plot on left at modular home

Joey Anderson Tobacco Splitworm Trapping and Control Demo

Straight ahead from plot
0.5 Right at stop sign onto Hwy 149
4.4 Left at stop sign onto Hwy 32 W
13.4 through stop light in Ocilla
0.1 through second stop light in Ocilla at Irwin Ave.
0.8 bare left and follow Hwy 319 W to Tifton
17.25 Right at stop sign onto Hwy 82 to Holiday Inn on west side of I-75
2.71 Holiday Inn on left after I-75

Wednesday, June 13, 2007

<u>Mileage</u>	<u>Directions (* - indicates traffic assistance needed)</u>
	Right out of Holiday Inn on Hwy 82 E
.1	Virginia Avenue
0.1	Magnolia Avenue
0.6	Ridge Avenue
0.2	Central Avenue
	Cross RR
0.1	Commerce Avenue
0.2	Main Street
0.1	Tift Avenue
1.3	Left onto Hwy 319 North toward Ocilla (across from Dixie Station)
3.0	Right Goat Rd before Mile Marker 16 at UGA Tobacco Plot Sign
1.5	Left into Bowen Farm Drive.

UGA, Coastal Plain Experiment Station, Bowen Farm

	Right out of Bowen Farm
1.5	Left onto Hwy 319
1.0	Right onto Arnett Mill Rd
0.5	Cross New River Church Road at stop sign
1.0	Left at stop light onto Old Ocilla Road
0.2	Right at stop light onto 20 th St.
0.9	Cross Tift Ave. at stop light
0.9	Right at stop light onto Hwy 41
0.5	Left onto RDC Rd after crossing under I-75
0.1	Left into Tifton Campus Conference Center

Sponsored Lunch-Compliments of The Georgia Tobacco Commission
Tifton Campus Conference Center, Tifton

	* After lunch Right out of RDC drive
0.2	* Right onto RDC Road
0.2	* Right onto Hwy 41
0.2	* Right onto I-75 S at Exit 64
5.0	* Exit 59 at Moultrie Tech onto Whiddon Rd / Southwell Boulevard
	* Left onto Whiddon Rd / Southwell Boulevard
0.1	* Cross Hwy 41 at stop sign
	Cross RR Tracks
0.7	* Right at stop sign onto Hwy 125
21	* Bare left at yield sign
0.2	* Cross at Traffic light in Nashville onto Hwy 76
10.5	Right at stop sign onto Hwy 135

Wednesday, June 13, 2007 (continued)

Mileage Directions (* - indicates traffic assistance needed)

- 0.8 Left onto Gordon Webb Rd at Vickers Farm Drive at sign
- 0.8 Left to Vickers Farm
- 0.25 Left into field with demonstration

Vickers Farm Tobacco Splitworm Trapping and Control

From Vickers Farm Back to Hwy 135

- 1.05 Left onto Hwy 135
- 5.9 * Right onto Hwy 64 (Sam Watson Hwy)
- 4.3 * Left at Teeterville on Teeterville Rd.
- 4.1 * Left into field road at UGA Tobacco Plot Sign
Paul Folsom plot behind curing barns and grain bins.

Paul Folsom Farm, Lanier County

Return to paved road

- * Left onto State Hwy 11 ByPass (Teeterville Rd.)
- 2.3 * Cross Church Street after stop sign
- 0.1 * Left at stop sign onto 37 / 129
- 0.3 * Right onto St Rd 135
Follow St Rd 135 to stop sign
- 9.4 * Cross Hwy 84 / Hwy 38 at Naylor on 135
- 14.76 Right onto 376 East
- 5.2 Right onto Corbett Road
- 0.7 Right into field on Corbett Road

Herring Bed Plant TSWV Demonstrations

Back to Hwy 376

- 0.7 Right onto Hwy 376
- 2.3 Left at stop sign onto Hwy 41S
- 7.25 Right on St Rd 143 in Jennings
cross over I-75
- 3.0 Cross through at caution light at CR 152
- 2.6 * Left onto CR 146
- 1.0 Right at stop sign to Burnham Church
- 1.0 Meet Deas Brothers

Deas Brothers Farm, Hamilton County, Florida

Wednesday, June 13, 2007 (continued)

Mileage Directions (* - indicates traffic assistance needed)

4.25 Right on CR 146
Cross CR 141 at stop sign
3.0 Left onto SR 6
0.2 Right onto I-75 to Lake City Exit, Hwy 90
32 Exit Lake City Exit, Hwy 90
Go east (left) on Highway 90. (stay in Right lane)
Go through following lights
 Brookside Dr.
 Real road
 Basscom Norrin Drive
 Mall Entrance
 SR 247 (Ext office to right here)
 Sisters Welcome Rd
 NW Ridgewood
 FHP Station
2.3 Stay in Rt lane, vere Rt on 10A
 Light at McFarlane
0.8 Rt on US 41 South (W. Main Blvd)
 Lights at St. Margarets St.
 SW Basscom Norris Dr.
 CR 252
7.9 Rt on SW Jim Witt Rd.
0.7 Left into field
(**K. O. Dicks Farms**)

**THIS IS THE END OF
THE 2007 GEORGIA-FLORIDA TOBACCO TOUR
HAVE A SAFE TRIP HOME !**

Learning for Life
Agriculture and Natural Resources * Family and Consumer Sciences * 4-H Youth
An Equal Opportunity /Affirmative Action Institution

**2007 REGIONAL VARIETY FARM TEST
F-M-R BURCH FARMS
WAYNE COUNTY**

Randy Franks, County Extension Coordinator
Mark Frye, County Extension Agent

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

Trt No	VARIETY	PEDIGREE	DISEASE RESISTANCE					
			BS	GW	FW	RKN	BN SP	TMV
1.	NC 2326	(Hicks X 9102)(Hicks) Hicks)Hicks) NCSU	L	SU	M			
2.	NC 95	(C-139 X Bel. 4-30) X (C-139 X Hicks) NCSU	L	H	M	R		
3.	AOV 506	Hybrid AO		R				TMV
4.	RX 576	Hybrid Rickard	R	R		R		
5.	NC EX 04	Hybrid NCSU	R	R		TCN/R		
6.	CC 65	Hybrid CC	R	R		R/M.j.		
7.	GF 52	Hybrid Gwynn Farms	R	R		R		TMV
8.	NC EX 02	Hybrid NCSU	R	R		TCN/R		
9.	RJR 15	Hybrid RJR	R	R		R/M.j.		
10.	ULT 138	NC 55 ms(*) Breeding Line 01511 ULT						PVY
11.	Speight 241	SPT						
12.	ULT 109	Hybrid ULT						TMV
13.	NC TG 146	Hybrid NCSU	R	R		R		PVY/ TEV
14.	RJR 35	Hybrid RJR	R	R		R/M.j.		
15.	CU 37	Spt 168 X PD 474 SC						

Resistance: H - High; M - Moderate; L - Low; R - Resistant; T - Tolerant; S - Susceptible
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RKN - Root Knot Nematodes;
TCN - Tobacco Cyst Nematode; M.j.-Meloidogyne javanica; BNSP - Brown Spot;
TMV- Tobacco Mosaic Virus; TEV-Tobacco Etch Virus; PVY- Potato Virus Y
Sponsor: NCSU-NC State Univ; AO-Alliance One; Rickard-Rickard Seed Co; CC-Cross Creek Seed Co;
Gwynn Farms; RJR- RJ Reynolds Tobacco Company; ULT-Universal Leaf Tobacco Co;
SPT-Speight Seed Farms; SC-South Carolina.

**2007 RELEASED VARIETY DEMONSTRATION
F-M-R BURCH FARMS
WAYNE COUNTY**

Randy Franks, County Extension Coordinator
Mark Frye, County Extension Agent

1	2	3	4	5	6	7	8	9	10	11	12	13
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DISEASE RESISTANCE¹

TRT NO	VARIETY	PEDIGREE	BS	GW	FW	RKN	BNSP	TMV
1.	K 326	McNair 225(McNair30 X NC95) 1981	L	L		R		S
2.	GL 350	F1 Hybrid 2003 GL	R	R				S
3.	NC 102	F1 Hybrid 2001 RICKARD	H	L		TCN/R		PVY/ TMV/ TEV
4.	NC 196	Hybrid 2002 NCSU						
5.	NC 299	F1 Hybrid 2001 CC	R	R		TCN/R		S
6.	NC 291	F1 Hybrid 1997 CC	R	R		TCN/R	PVY/ TEV	S
7.	Spt 225	(SP 168 X K 346)(SPA 95 X SP 168) 2003 SPT	R	R		R		S
8.	Spt 234	(SP 168 X K 346) 2004 SPT	R	R		R		S
9.	CC 37	F1 Hybrid 2006 CC	R	R		TCN/ M.j.		TMV
10.	CC 27	F1 Hybrid 2003 CC						
11.	Spt 227	(SP 151 X K 346) (SP 202 X K 346) 2003 SPT	R	R	R	R		S
12.	NC 71	F1 Hybrid 1995 GL	H	M		R		S
13.	RX 118	F1 Hybrid 2004 RICKARD	R	R				S

¹ Resistance: H - High; M - Moderate; L - Low; R - Resistant; T - Tolerant; S - Susceptible
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RKN - Root Knot Nematodes;
TCN - Tobacco Cyst Nematode; M.j.-Meloidogyne javanica; BNSP - Brown Spot;
TMV- Tobacco Mosaic Virus; TEV-Tobacco Etch Virus; PVY- Potato Virus Y
Sponsor: NCSU-NC State Univ; AO-Alliance One; Rickard-Rickard Seed Co; CC-Cross Creek Seed Co;
Gwynn Farms; RJR- RJ Reynolds Tobacco Company; ULT-Universal Leaf Tobacco Co;
SPT-Speight Seed Farms; SC-South Carolina.

**2007 Pierce County
Evaluation of Combinations of Admire Pro,
Actigard 50WG, and Nutri-Phite Magnum as Greenhouse and Field Treatments
Tomato Spotted Wilt Virus Incidence**

**James Jacobs, County Extension Coordinator
Paul Bertrand, UGA Pathologist (Retired)
Jay Davis, Farmer Cooperator**

GREENHOUSE TREATMENTS:

AP+AC = ADMIRE PRO (0.8 oz/1000) 4/27/07 + ACTIGARD (0.5 oz/50,000) 4/27/07
 AP+NP = ADMIRE PRO (0.8 oz/1000) 4/27/07 + NUTRI-PHITE (1.0 pt/100gal) 4/27/07
 AP = ADMIRE PRO (0.8 oz/1000) 4/27/07
 UT = UNTREATED

Transplanted April 30, 2007

NOTE: PLANT HOUSE TREATMENTS RUN ALL THE WAY THROUGH

NOTE: EACH ROW OF ***** = 2 ROWS OF TOBACCO

AP+AC	*	AC	*****	*	NP	*****	*	CK	*****	*	NP	*****	*	CK	*****	*	AC	*****
AP	**	AC	*****	**	NP	*****	**	CK	*****	**	NP	*****	**	CK	*****	**	AC	*****
AP+NP	*****	AC	**	*****	NP	**	*****	CK	**	*****	NP	**	*****	CK	**	*****	AC	**
UT	*****	AC	*	*****	NP	*	*****	CK	*	*****	NP	*	*****	CK	*	*****	AC	*
AP+AC	*	CK	*****	*	AC	*****	*	NP	*****	*	NP	*****	*	AC	*****	*	CK	*****
AP+NP	**	CK	*****	**	AC	*****	**	NP	*****	**	NP	*****	**	AC	*****	**	CK	*****
AP	*****	CK	**	*****	AC	**	*****	NP	**	*****	NP	**	*****	AC	**	*****	CK	**
UT	*****	CK	*	*****	AC	*	*****	NP	*	*****	NP	*	*****	AC	*	*****	CK	*

[<-100'->]

FIELD SPRAY TREATMENTS (APPLIED TO 8 ROW BLOCKS:

AC = ACTIGARD (1.0 oz/A) applied at 0.5oz/Acre in a band with 10 gallons
of water on May 14th
NP = NUTRI-PHITE (1.0 qt/A) applied in a band at 8 oz/Acre with 10 gallons
of water on May 14th
CK = CHECK (NOT SPRAYED)

Summary of Preliminary Results for TSWV Incidence in Greenhouse Applied Treatments

Date	Untreated	Admire Pro + Nutri-Phite	Admire Pro	Actigard + Admire Pro
	%	%	%	%
May 14,2007	0	0	0	0
May 31, 2007	5.1	2.2	2.1	0.4
June 11,2007				

In-field treatments of Actiard 50WG (Orange) and Nutri-Phite Magnum (Pink) were applied on May 14th and May 31st.

Actigard 50WG was applied at 0.5 oz/A in a band with 10 gallons of water on May 14th and Nutri-Phite Magnum ((2-0-16 in GA / 2-40-16) was applied in a band at 8oz/Acre with 10 gallons of water on May 14th.

Same rates were used on May 31st, however water volume was increased to 15 gallons/Acre.

**UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATION
JEFF DAVIS COUNTY, GEORGIA – 2007**

**David C. Jones, Extension Entomologist (Retired)
J. Michael Moore, Extension Agronomist- Tobacco
Tim Varnedore, County Extension Coordinator
Kenneth & Jason Williams, Farmer Cooperators
Ed Troxell, Ag Extension Technician**

**EVALUATION OF IMIDACLOPRID FORMULATIONS,
THIAMETHOXAM, AND ACTIGARD IN SUPPRESSION OF TOBACCO
HORNWORM AND TOMATO SPOTTED WILT VIRUS
IN FLUE-CURED TOBACCO**

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 150 feet long. Approximately 400 plants per plot. Approximately 7,600 plants per acre. Randomized complete block design with 4 replications per treatment.

Application: No Telone II or Lorsbans 4E was applied to any of the plots. Actigard 50WG was applied to the plants in the greenhouse on April 14. The other greenhouse treatments were applied as tray drenches on April 16.

Variety: Tobacco cultivar NC 299 (greenhouse grown) transplanted April 21.

Table 1. Treatments: Kenneth & Jason Williams Farm, Jeff Davis County GA - 2007

Treatment Number	Treatment Material	Tray Drench* Rate/1000 cells	Company
1	Untreated	-	
2	Admire Pro 4.6SC	0.8 oz.	Bayer Crop Science
3	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz./ 50,000 cells	
4	Alias 2F	1.8 oz.	MANA
5	Alias 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
6	Couraze 2F	1.8 oz.	Cheminova
7	Couraze 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
8	Imida E-AG 2F	1.8 oz.	Etigra
9	Imida E-AG 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
10	Macho 2F	1.8 oz.	Albaugh
11	Macho 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
12	Nuprid 2F	1.8 oz.	NuFarm
13	Nuprid 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
14	Torrent 2F	1.8 oz.	SipCam
15	Torrent 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
16	T-MOXX 2SC / Platinum 2SC	1.3 oz.	Fair Products / Syngenta
17	T-MOXX 2SC / Platinum 2SC + Actigard 50WG	1.3 oz. + 0.5 oz./ 50,000 cells	

- Tray Drench = 10 gallons of solution /100,000 cells

**EVALUATION OF IMIDACLOPRID FORMULATIONS
 THIAMETHOXAM, AND ACTIGARD IN FLUE-CURED TOBACCO
 KENNETH & JASON WILLIAMS FARM – JEFF DAVIS COUNTY, GA – 2007**

Experimental Design:

Treatments:	9	14	7	17	11	3	16	12	2	6	13	5	10	1	4	15	8
Plots →	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417

Treatments:	15	17	10	12	3	13	2	11	4	14	1	16	5	8	7	6	9
Plots →	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317

Treatments:	12	7	10	14	9	2	15	5	1	13	16	3	11	4	17	8	6
Plots →	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217

Treatments:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Plots →	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117

**UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATION
JEFF DAVIS COUNTY, GEORGIA – 2007**

Kenneth & Jason Williams, Farmer Cooperators
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Ed Troxell, Ag Extension Technician

**EVALUATION OF IMIDACLOPRID FORMULATIONS,
THIAMETHOXAM, AND ACTIGARD IN SUPPRESSION OF TOBACCO HORNWORM
AND TOMATO SPOTTED WILT VIRUS
IN FLUE-CURED TOBACCO**

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 150 feet long. Approximately 400 plants per plot. Approximately 7,600 plants per acre. Randomized complete block design with 4 replications per treatment.

Application: No Telone II or Lorsbans 4E was applied to any of the plots. Actigard 50WG was applied to the plants in the greenhouse on April 14. The other greenhouse treatments were applied as a tray drench on April 16.

Variety: Tobacco cultivar NC 299 (greenhouse grown) transplanted April 21.

Table 1. Treatments: Kenneth & Jason Williams Farm, Jeff Davis County GA - 2007

Treatment Number	Treatment Material	Tray Drench* Rate/1000 cells	Company
1	Untreated	-	
2	Admire Pro 4.6SC	0.8 oz.	Bayer Crop Science
3	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz./ 50,000 cells	
4	Alias 2F	1.8 oz.	MANA
5	Alias 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
6	Couraze 2F	1.8 oz.	Cheminova
7	Couraze 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
8	Imida E-AG 2F	1.8 oz.	Etigra
9	Imida E-AG 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
10	Macho 2F	1.8 oz.	Albaugh
11	Macho 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
12	Nuprid 2F	1.8 oz.	NuFarm
13	Nuprid 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
14	Torrent 2F	1.8 oz.	SipCam
15	Torrent 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	
16	T-MOXX 2SC	1.3 oz.	Fair Products
17	T-MOXX 2SC + Actigard 50WG	1.3 oz. + 0.5 oz./ 50,000 cells	

*Tran Drench = 10 gallons of solution/1000,000 cells

**EVALUATION OF IMIDACLOPRID FORMULATIONS
THIAMETHOXAM, AND ACTIGARD IN FLUE-CURED TOBACCO
KENNETH & JASON WILLIAMS FARM – JEFF DAVIS COUNTY, GA – 2007**

Experimental Design:

Treatments:	9	14	7	17	11	3	16	12	2	6	13	5	10	1	4	15	8
Plots →	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417

Treatments:	15	17	10	12	3	13	2	11	4	14	1	16	5	8	7	6	9
Plots →	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317

Treatments:	12	7	10	14	9	2	15	5	1	13	16	3	11	4	17	8	6
Plots →	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217

Treatments:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Plots →	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117

6C

**Table 2. Tobacco Hornworm Suppression in Flue-Cured Tobacco
Kenneth & Jason Williams Farm, Jeff Davis County GA - 2007**

Treatment Number	Treatment Material	Tray Drench* Rate/1000 cells	% Damage** Tobacco Hornworm
1	Untreated	-	9.56
2	Admire Pro 4.6SC	0.8 oz.	8.56
3	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz./ 50,000 cells	9.38
4	Alias 2F	1.8 oz.	6.81
5	Alias 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	7.19
6	Couraze 2F	1.8 oz.	8.31
7	Couraze 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	8.50
8	Imida E-AG 2F	1.8 oz.	7.69
9	Imida E-AG 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	9.06
10	Macho 2F	1.8 oz.	8.75
11	Macho 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	7.31
12	Nuprid 2F	1.8 oz.	8.88
13	Nuprid 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	8.13
14	Torrent 2F	1.8 oz.	7.88
15	Torrent 2F + Actigard 50WG	1.8 oz + 0.5 oz./ 50,000 cells	5.94
16	T-MOXX 2SC	1.3 oz.	5.13
17	T-MOXX 2SC + Actigard 50WG	1.3 oz. + 0.5 oz./ 50,000 cells	5.75

*Tray Drench = 10 gallons of solution /100,000 cells

**Tobacco hornworm damage evaluated on May 18 & 19 and May 25 & 26.

GD

**UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATION
JEFF DAVIS COUNTY, GEORGIA – 2007**

**David C. Jones, Extension Entomologist (Retired)
Tim Varnedore, County Extension Coordinator
Jerry Wooten & Sons, Farmer Cooperators
Herb Young, Technical Service Representative, Bayer CropScience**

**EVALUATION OF ADMIRE PRO 4.6 SC, T-MOXX 2SC, ACTIGARD 50WG, AND
TWO EXPERIMENTAL PRODUCTS FOR SUPPRESSION OF TOBACCO
HORNWORM AND TOMATO SPOTTED WILT VIRUS IN FLUE-CURED TOBACCO**

AND

**COMPARING DIFFERENT WATER RATES USED IN RINSING OFF ADMIRE PRO
4.6 SC TREATED FLUE-CURED TOBACCO IN THE GREENHOUSE**

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 150 feet long. Approximately 400 plants per plot. Approximately 7,600 plants per acre. Randomized complete block design with 4 replications per treatment.

Application: Telone II (7 gals/acre) was injected into each row of all plots on March 23. No Lorsban 4E was applied to any of the plots. The greenhouse treatments were applied, using 10 gals. of spray mix per 100,000 plants, on April 13.

Variety: Tobacco cultivar NC 71 (greenhouse grown) transplanted April 19.

Table 1. Treatments - Jerry Wooten & Sons Farm, Jeff Davis County, GA - 2007

Treatment Number	Treatment Material	Tray Drench Rate/1000 plants	Gallons of rinse water/100,000 plants
1	Untreated	-	None
2	Admire Pro 4.6SC	1.2 oz.	20
3	T-Moxx 2SC	1.3 oz.	20
4	Admire Pro 4.6 SC + Actigard 50WG	0.8 oz. 0.5 oz./50,000 plants	20
5	Admire Pro 4.6SC	0.8 oz.	None
6	Admire Pro 4.6SC	0.8 oz.	5
7	Admire Pro 4.6SC	0.8 oz.	10
8	Admire Pro 4.6SC	0.8 oz.	20
9	Admire Pro 4.6SC	0.8 oz.	40
10	Admire Pro 4.6SC + Experimental #1	0.8 oz. 1 gram/2,300 plants	20
11	Admire Pro 4.6SC + Experimental #2	0.8 oz. 1 gram/2,300 plants	20

**Jerry Wooten & Sons Farm
Jeff Davis County - 2007**

Experimental Design:

Treatments:	9	5	10	8	2	7	4	11	1	3	6	9	3	5	1	8	4	11	10	6	7	2

Plots → 303 301 302 304 305 306 307 308 309 310 311 401 402 403 404 405 406 407 408 409 410 411

Treatments:	1	2	3	4	5	6	7	8	9	10	11	10	9	8	2	3	11	7	4	6	1	5

Plots → 101 102 103 104 105 106 107 108 109 110 111 201 202 203 204 205 206 207 208 209 210 211

**UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATION
JEFF DAVIS COUNTY, GEORGIA – 2007**

Jerry Wooten & Sons, Farmer Cooperators
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**EVALUATION OF ADMIRE PRO 4.6 SC, T-MOXX 2SC, ACTIGARD 50WG, AND
TWO EXPERIMENTAL PRODUCTS FOR SUPPRESSION OF TOBACCO HORNWORM AND
TOMATO SPOTTED WILT VIRUS IN FLUE-CURED TOBACCO**

AND

**COMPARING DIFFERENT WATER RATES USED IN RINSING OFF ADMIRE PRO 4.6 SC
TREATED FLUE-CURED TOBACCO IN THE GREENHOUSE**

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 150 feet long. Approximately 400 plants per plot. Approximately 7,600 plants per acre. Randomized complete block design with 4 replications per treatment.

Application: Telone II (7 gals/acre) was injected into each row of all plots on March 23. No Lorsban 4E was applied to any of the plots. The greenhouse treatments were applied, using 10 gals. of spray mix per 100,000 plants, on April 13.

Variety: Tobacco cultivar NC 71 (greenhouse grown) transplanted April 20.

Table1. Treatments - Jerry Wooten & Sons Farm, Jeff Davis County, GA - 2007

Treatment Number	Treatment Material	Tray Drench Rate/1000 plants	Gallons of rinse water/100,000 plants
1	Untreated	-	None
2	Admire Pro 4.6SC	1.2 oz.	20
3	T-Moxx 2SC	1.3 oz.	20
4	Admire Pro 4.6 SC + Actigard 50WG	0.8 oz. + 0.5 oz./50,000 plants	20
5	Admire Pro 4.6SC	0.8 oz.	None
6	Admire Pro 4.6SC	0.8 oz.	5
7	Admire Pro 4.6SC	0.8 oz.	10
8	Admire Pro 4.6SC	0.8 oz.	20
9	Admire Pro 4.6SC	0.8 oz.	40
10	Admire Pro 4.6SC + Experimental #1	0.8 oz. + 1 gram/2,300 plants	20
11	Admire Pro 4.6SC + Experimental #2	0.8 oz. + 1 gram/2,300 plants	20

**Jerry Wooten & Sons Farm
Jeff Davis County - 2007**

Experimental Design:

Treatments:	9	5	10	8	2	7	4	11	1	3	6	9	3	5	1	8	4	11	10	6	7	2
Plots →	301	302	303	304	305	306	307	308	309	310	311	401	402	403	404	405	406	407	408	409	410	411

9C

Treatments:	1	2	3	4	5	6	7	8	9	10	11	10	9	8	2	3	11	7	4	6	1	5
Plots →	101	102	103	104	105	106	107	108	109	110	111	201	202	203	204	205	206	207	208	209	210	211

**Table 2. Tobacco Hornworm Suppression in Flue-Cured Tobacco
Jerry Wooten & Sons Farm, Jeff Davis County, GA - 2007**

Treatment Number	Treatment Material	Tray Drench Rate/1000 plants	Gallons of rinse water/100,000 plants	% Damage* Tobacco Hornworm
1	Untreated	-	None	7.13
2	Admire Pro 4.6SC	1.2 oz.	20	3.50
3	T-Moxx 2SC	1.3 oz.	20	2.0
4	Admire Pro 4.6 SC + Actigard 50WG	0.8 oz. + 0.5 oz./50,000 plants	20	1.30
5	Admire Pro 4.6SC	0.8 oz.	None	2.88
6	Admire Pro 4.6SC	0.8 oz.	5	2.94
7	Admire Pro 4.6SC	0.8 oz.	10	3.0
8	Admire Pro 4.6SC	0.8 oz.	20	3.31
9	Admire Pro 4.6SC	0.8 oz.	40	3.50
10	Admire Pro 4.6SC + Experimental #1	0.8 oz. + 1 gram/2,300 plants	20	2.56
11	Admire Pro 4.6SC + Experimental #2	0.8 oz. + 1 gram/2,300 plants	20	2.69

*Tobacco hornworm damage evaluated on May 15 & 16 and May 21 & 22.

Table 3. Suppression of Tomato Spotted Wilt Virus in Flue-cured Tobacco. Jerry Wooten & Sons Farm - Jeff Davis County, GA - 2007

Treatment Number	Treatment	Gals. of Rinse Water/1000,000 plants	Percent Tomato Spotted Wilt Virus ¹			
			5/16	5/23	5/30	6/7
1	Untreated	None	3.3	14.9	26.7	36.5
2	Admire Pro 4.6SC (1.2 oz.)	20	0.7	7.5	15.3	22.8
3	T-Moxx 2SC (1.3 oz.)	20	1.1	9.3	19.9	28.1
4	Admire Pro 4.6SC (0.8 oz.) + Actigard 50WG (0.5 oz/50,000 plants)	20	.3	2.4	6.9	13.1
5	Admire Pro 4.6SC (0.8 oz.)	None	1.2	8.8	20.1	27.1
6	Admire Pro 4.6SC (0.8 oz.)	5	0.9	7.6	15.8	22.6
7	Admire Pro 4.6SC (0.8 oz.)	10	0.9	7.3	16.9	24.0
8	Admire Pro 4.6SC (0.8 oz.)	20	0.6	7.6	14.4	22.6
9	Admire Pro 4.6SC (0.8 oz.)	40	0.7	7.5	16.5	24.5
10	Admire Pro 4.6SC (0.8 oz.) + Experimental #1 (1 gram/2,300 plants)	20	0.9	8.8	17.1	24.4
11	Admire Pro 4.6SC (0.8 oz.) + Experimental #2 (1 gram/2,300 plants)	20	0.4	4.8	11.9	19.5

¹TSWV: % Symptomatic Plants – Examined all plants in each plot on each evaluation date.

9E

2007

EVALUATION OF STRIP-TILL TOBACCO FOR TSWV SUPPRESSION

Paul Bertrand, Pathologist (Retired)
Eddie McGriff, Coffee County Extension Coordinator
Mark von Waldner, Atkinson County Extension Coordinator
Nathan Henderson, Farmer Cooperator
Coffee County, Georgia

NORTH -----> SOUTH
EACH ROW OF ***** = 4 ROWS OF TOBACCO

[<----- 750' ----->]

AA *****FIELD CONTINUES: CONV.-TILL *****
AA ***** CONV.-TILL *****
***** CONV.-TILL: MIXED AA+CK *****
AA ***** CONV.-TILL *****
CK ***** CONV.-TILL *****
CK ***** STRIP-TILL ***** OAT *****
AA ***** STRIP-TILL ***** OAT *****
AA ***** CONV.-TILL *****
CK ***** CONV.-TILL *****
AA ***** STRIP-TILL ***** TRITICALE *****
CK ***** STRIP-TILL ***** TRITICALE *****
CK ***** STRIP-TILL ***** WHEAT *****
AA ***** STRIP-TILL ***** WHEAT *****
AA ***** CONV.-TILL *****
CK ***** CONV.-TILL *****
CK ***** STRIP-TILL ***** RYE *****
AA ***** STRIP-TILL ***** RYE *****
CK ***** CONV.-TILL *****
AA ***** CONV.-TILL *****
AA ***** STRIP-TILL ***** RYE *****
CK ***** STRIP-TILL ***** RYE *****
CK ***** STRIP-TILL ***** RYE *****
AA ***** STRIP-TILL ***** RYE *****
AA ***** CONV.-TILL *****
CK ***** CONV.-TILL *****
AA ***** CONV.-TILL *****
CK ***** CONV.-TILL *****
CK ***** STRIP-TILL ***** RYE *****
AA ***** STRIP-TILL ***** RYE *****
CK ***** ***** GUARD ROWS: CONV. TILL *****

----- FARM ROAD -----

NOVEMBER/DECEMBER:

- I. FUMIGATE AS NEEDED & BED
II. BOARD OFF BEDS
III.a. PLANT SMALL GRAIN TO HAVE DENSE STURDY STRAW BY MARCH1)
b. APPLY 25-30 lbs. NITROGEN

JANUARY:

- I. SPRAY ROUND-UP IN A 8-12" BAND IN THE CENTER OF EACH STRIP-TILL BED

MARCH:

- I. SPRAY GRAIN WITH ROUNDUP (DO NOT DISTURBE STUBBLE)
II. STRIP-TILL: LEAVE STUBBLE AS IS & PLANT DOWN THE CENTER HALLWAY
III. CONV.-TILL: RENOVATE BEDS & PLANT: PLOW AS NORMAL

LAYBY: PLOW ALL TREATMENTS

**PRELIMINARY RESULTS FOR
PERCENT FIELD STAND AND PERCENT SPOTTED WILT VIRUS AT LAYBY
IN STRIP-TILL TOBACCO TRIALS CONDUCTED AT FOUR LOCATIONS**

**EFFECT OF TILLAGE SYSTEM ON
PERCENT FIELD STAND AT LAY BY¹**

Tillage System	GRIFFIN ²		BOWEN ²		HENDERSON ²		ALDRIDGE ²	
	A+A ³	CK ⁴	A+A	CK	A+A	CK	A+A	CK
Strip	96.0	92.4	96.5	93.1	93.6	93.3	95.9	89.3
Conventional	97.6	96.6	97.1	95.0	96.7	95.2	95.8	92.7

**EFFECT OF TILLAGE SYSTEM ON
PERCENT SPOTTED WILT AT LAY BY¹**

Tillage System	GRIFFIN ²		BOWEN ²		HENDERSON ²		ALDRIDGE ²	
	A+A ²	CK ³	A+A	CK	A+A	CK	A+A	CK
Strip	7.0	34.6	1.2	5.4	3.7	13.8	4.8	18.9
Conventional	11.7	40.8	3.5	14.5	5.8	22.2	7.1	25.3

¹ Layby is the data collected at 6 weeks after transplanting.

² Transplant dates:

Griffin = 10 April 07;

Bowen = 12 April 07;

Henderson = 18 April 07;

Aldridge = 23 April 07.

Seedlings used in all trials were grown and treated in plant houses at a commercial tobacco transplant production operation in Coffee County.

³ A+A = transplants treated with Actigard @ 1.0oz / 100,000 seedlings 7 days before transplanting plus Admire Pro @ 0.8oz / 1,000 tray cells 2 days before transplanting.

⁴ CK is untreated transplants (no Actigard or Admire Pro).

PRELIMINARY RESULTS OF STRIP-TILL TOBACCO TRIALS CONDUCTED AT FOUR LOCATIONS

EFFECT OF TILLAGE SYSTEM ON % FIELD STAND AT LAY BY¹

Tillage System	GRIFFIN ²		BOWEN ²		HENDERSON ²		ALDRIDGE ²	
	A+A ³	CK ⁴	A+A	CK	A+A	CK	A+A	CK
Strip	96.0	92.4	96.5	93.1	93.6	93.3	95.9	89.3
Conventional	97.6	96.6	97.1	95.0	96.7	95.2	95.8	92.7

EFFECT OF TILLAGE SYSTEM ON % SPOTTED WILT AT LAY BY¹

Tillage System	GRIFFIN ²		BOWEN ²		HENDERSON ²		ALDRIDGE ²	
	A+A ²	CK ³	A+A	CK	A+A	CK	A+A	CK
Strip	7.0	34.6	1.2	5.4	3.7	13.8	4.8	18.9
Conventional	11.7	40.8	3.5	14.5	5.8	22.2	7.1	25.3

¹ Layby is the data collected at 6 weeks after transplanting.

² Transplant dates: Griffin = 10 April 07; Bowen = 12 April 07; Henderson = 18 April 07; Aldridge = 23 April 07. Seedlings used in all trials were grown and treated in plant houses at a commercial tobacco transplant production operation in Coffee County.

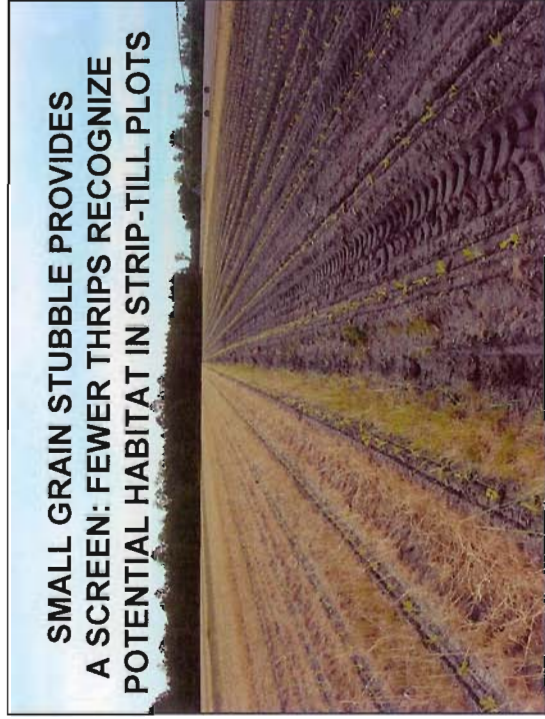
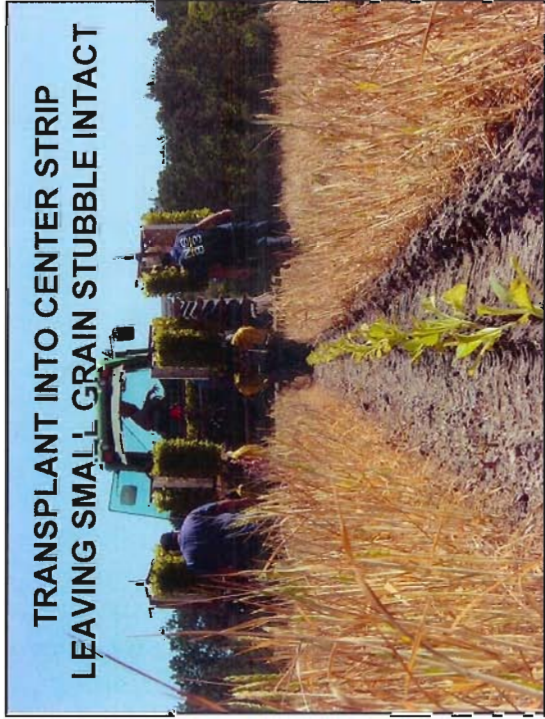
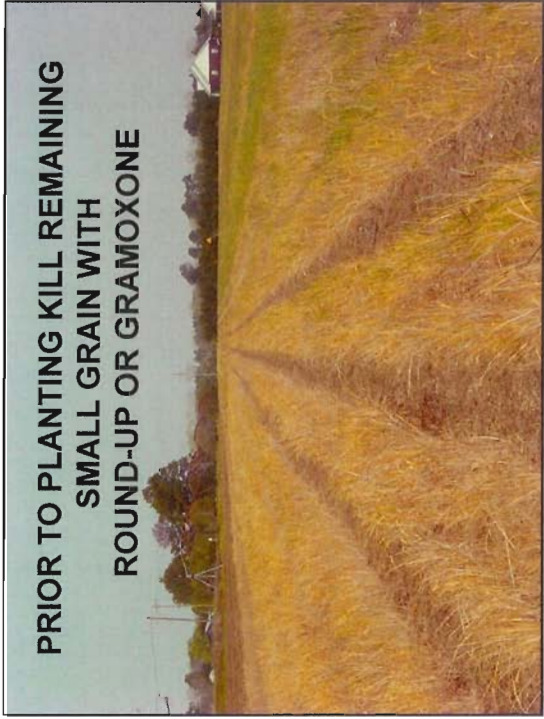
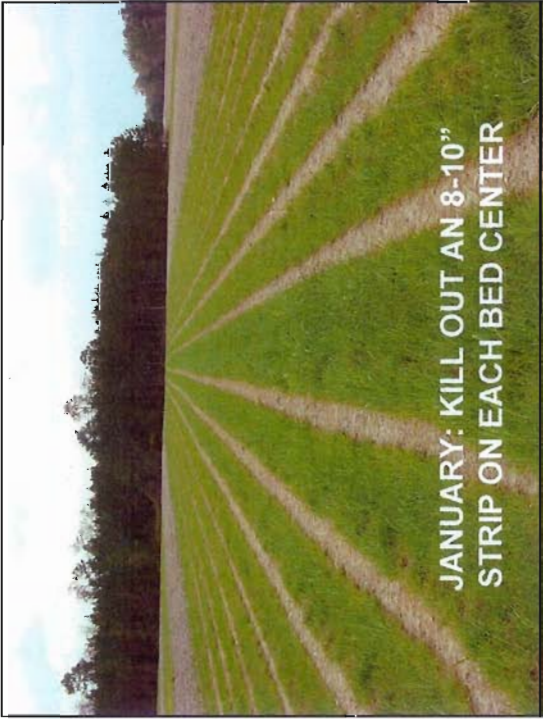
³ A+A is transplants treated with Actigard @ 1.0oz / 100,000 seedlings 7 days before transplanting plus Admire Pro @ 0.8oz / 1,000 tray cells 2 days before transplanting.

⁴ CK is untreated transplants (no Actigard or Admire Pro).

Nathan Henderson Thrips Count (*F. Fusca*)

Date	Strip-Till	Conventional-Till	Ratio
4/19-4/27	40.8	66.5	1.62
4/27-5/04	231.9	395.6	1.71
5/04-5/11	117.5	205.8	1.75
5/11-5/17	170.1	264.3	1.55
5/24-5/31	37.9	36.6	0.97
5/31-6/07	16.4	15.1	0.92

UB



11A

2007 UGA Tobacco Splitworm Protocol

Joey Anderson Farm
Coffee County
Eddie McGriff, County Extension Coordinator

Protocol Tasks

- Install Winged and Bucket traps to monitor moth flights
- Check traps weekly and record number of splitworm moths
- FAX a copy of the record sheet to J. Michael Moore 229 386 7308
- Implement spray protocol when more than 20 moths are found after any one week period.
- Maintain sprays after started.

Treatments

Trt No.	Material	AI (lb)	Form (fl oz)	Notes
A	Untreated Check			
B	Rimon 0.83EC + adjuvant (80:20)	0.78	12 oz	Make applic at 14 day intervals
C	Rimon 0.83EC + adjuvant	0.58	9 oz	Make applic at 14 day intervals
D	Rimon 0.83EC + adjuvant + Warrior	0.78 0.015	12 oz + 1.92 oz	Make applic at 14 day intervals
E	Rimon 0.83EC + adjuvant + Warrior	0.78 0.03	12 oz + 3.84 oz	Make applic at 14 day intervals
F	Warrior	0.03	3.84 oz	Make applic at 14 day intervals
G	Dimilin 2L	0.125	8 oz	Make applic at 14 day intervals
H	Tracer 4SC	0.64	2.0 oz	Make applic at 14 day intervals
I	Orthene	97 PE	0.75 lb	Make applic at 14 day intervals
J	Lannate 2.4LV	0.45	1.5 pts	Make applic at 14 day intervals

- plots = 2 row plots X 20' long, sprayed from the vacant middle on the edge of a set of rows
 - 4 reps (reps may be arranged end to end OR 2 reps on both sides of a skip row rather than stacked as below)

REP 1	A	B	C	D	E	F	G	H	I	J
	1	2	3	4	5	6	7	8	9	10
REP 2	I	G	E	C	A	J	H	F	D	B
	11	12	13	14	15	16	17	18	19	20
REP 3	B	D	F	G	H	A	C	E	J	I
	21	22	23	24	25	26	27	28	29	30
REP 4	J	I	H	G	F	E	D	C	B	A
	31	32	33	34	35	36	37	38	39	40

2007 Tobacco Entomology Research Projects

Robert M. McPherson, Project Leader

Neal Roberson and Del Taylor, Agric. Res. Assist. III

University of Georgia, Tifton Campus

Test 1. Early-season Thrips Suppression with Admire and Orthene

- 2 Transplant treatments x 6 Foliar treatments
- Design: RCBD with split-plot, 4 reps, plots 3 rows x 50 ft.

Test 2. Thrips Control with Tray Drench Insecticides

- 6 Tray drench trts, RCBD, 3 reps, plots 3 rows x 47 ft.
- Count thrips, aphids, and TSWV weekly.

Test 3. Nitrogen Fertility Impact on Insect and TSWV Abundance

- 4 Fertility levels: 30, 60, 90, and 120 lbs. N/acre
- Design: RCBD with 8 reps, plots 5 rows x 30 ft.

Test 4. Impact of TD Insecticide Treatments on TSWV

- 17 TD treatments, RCBD, 5 reps, plots 2 rows x 30 ft.

Test 5. Tobacco Worm and Aphid Control

- 9 Foliar sprays, RCBD, 4 reps, plots 3 rows x 50 ft.

Test 6. Thrips Survey in Tobacco Farmscape

- Collect thrips from weed hosts from Dec. – May
- Collect thrips on tobacco April – June (adults & immatures)
- Collect thrips on sticky traps weekly from Jan – Dec.

Entomology tests supported with funds received from The Georgia Agricultural Commodity Commission for Tobacco, Bayer, Dow AgroScience, DuPont, FMC Corporation, Syngenta, and Valent Agrichemical Companies

Tobacco Entomology Test 1 : Admire Pro Tray Drench Plus Weekly Orthene Sprays
To Suppress TSWV , Bowen Farm - 2007

401	401A	403A	403	405	405A
404	404A	402A	402	406	406A
305	305A	303A	303	304	304A
302	302A	301A	301	306	306A
203	203A	205A	205	201	201A
204	204A	206A	206	202	202A
102	102A	104A	104	103	103A
106	106A	101A	101	105	105A
No Admire	Admire	Admire	No Admire	No Admire	Admire

Plots 3 rows by 50 ft. w/ 6 ft alley. 'K-326' transplanted March 19. Admire TD applied on March 15 in 400 ml/1000 cells.

TREATMENTS :

- (01) Untreated
- (02) Orthene 0.75 AI/a Weeks 1-4 (March 26 - April 16)
- (03) Orthene 0.75 AI/a Weeks 1-6 (March 26 - April 30)
- (04) Orthene 0.75 AI/a Weeks 1-8 (March 26 - May 14)
- (05) Orthene 0.75 AI/a 4 wks after (4) *F. fusca* per trap (April 02 - April 23)
- (06) Orthene 0.75 AI/a 6 wks after (8) *F. fusca* per trap (April 09 - May 14)

Entomology Test 1. Percentage TSWV symptomatic plants in tobacco treated with Admire TD and Orthene foliar sprays, Bowen Farm 2007.

Foliar Treatment	April 24 (5w)		May 8 (7w)		May 21 (9w)	
	Adm.	No Adm.	Adm.	No Adm.	Adm.	No Adm.
Untreated	1.3	8.2	6.3	11.3	8.5	14.8
Orthene W1-4	1.6	3.7	3.2	7.2	5.4	11.9
Orthene W1-6	2.8	5.4	4.5	8.0	5.7	10.9
Orthene W1-8	0.0	4.1	2.5	6.6	3.5	8.1
Orthene W2-5	0.9	5.3	3.2	8.4	5.1	11.2
Orthene W2-7	1.3	4.8	4.4	8.4	5.6	10.9

Entomology Test 1. Cumulative percentage TSWV in tobacco treated with Admire TD and Orthene foliar sprays, Bowen Farm, 2007.

Treatment and duration	% TSWV symptomatic plants (Weeks AT)			
	5 weeks	7 weeks	9 weeks	11 weeks
	Foliar Orthene Effects			
None	4.7a	8.8a	11.6a	
Weeks 1-4	2.6a	5.2ab	8.6ab	
Weeks 1-6	4.1a	6.2ab	8.3ab	
Weeks 1-8	2.0a	4.5b	5.8b	
Weeks 2-5	3.1a	5.8ab	8.1ab	
Weeks 2-7	3.0a	6.4ab	8.3ab	
	Admire TD Effects			
Admire	1.3b	4.0b	5.6b	
No Admire	5.2a	8.3a	11.3a	

K-326 flue-cured tobacco transplanted on 19 March. Tray drench treatments of Admire Pro 1.0 oz / 1000 plants applied on 15 March. Column means with the same letter are not significantly different (DMRT, P=0.05).

Tobacco Entomology Test 2 : Tray Drench Insecticide Evaluations , Bowen Farm - 2007

310	307	311	308	312	309
208	212	209	207	210	211
111	109	108	112	107	110

Plots 3 rows by 47 ft. long w/ 6 ft alley. 'K-326' transplanted March 19. Tray drench treatments applied on March 15 in 400 ml/1000 cells.

<u>Treatments :</u>	<u>Form./ 1000 plants</u>
(07) Untreated	-----
(08) Movento 240 SC	1.3 oz/1000
(09) T-Moxx 2 SC	1.8 oz/1000
(10) Alias 2F	1.8 oz/1000
(11) Expt. R 4 SC	0.9 oz/1000
(12) Admire Pro 4.6 SC	0.8 oz/1000

Tobacco Entomology Test 3 : Effects of Fertility Level on Insect and TSWV Abundance
Bowen Farm - 2007



715	713	716	714	
616	614	613	615	
513	516	515	514	816
415	414	416	413	814
313	316	315	314	813
215	213	216	214	815
113	116	114	115	

Main Field Road

"K-326" tobacco transplanted on 21 March. Plots 5 rows by 30 ft. w/ 6 ft. alley.

TREATMENTS :

	<u>Total N</u>	<u>Application Dates</u>
(13) 500 lbs/a 6-6-18	30	April 27
(14) 1000 lbs/a 6-6-18	60	April 5 + April 27
(15) 1500 lbs/a 6-6-18	90	April 5 + April 27 + May 7
(16) 1500 lbs/a 6-6-18 + 188 #/a 16-0-0	120	April 5 + April 27 + May 7 + May 14

Entomology Test 2. Cumulative percentage TSWV in flue-cured tobacco treated with selected tray drench insecticides, Bowen Farm, 2007.

Treatment and rate / acre	% TSWV symptomatic plants (WAT)				
	3 wk	4 wk	5 wk	7 wk	9 wk
Untreated	4.1ab	7.2a	11.8a	14.9ab	14.9ab
Movento 240 SC 1.3oz	4.9a	6.7ab	12.8a	17.3a	22.1a
T-Moxx 25C 1.8oz	1.8ab	2.7bc	5.4b	11.2abc	15.7ab
Alias 2F 1.8oz	0.0b	1.4c	3.2b	9.4bc	13.9b
Expt. R 4 SC 0.9oz	1.8ab	1.8c	5.7b	14.0abc	19.7ab
Admire Pro 0.8oz	0.4b	0.9c	2.2b	7.5c	12.7b

K-326 flue-cured tobacco transplanted on 19 March. TD treatments applied on 17 March. Column means with the same letter are not significantly different (DMRT, P=0.05).

Entomology Test 3. Effects of nitrogen fertility level on the cumulative percentage TSWV in flue-cured tobacco, Bowen Farm, 2007.

Nitrogen Level	% TSWV symptomatic plants (WAT)					
	3 wk	4 wk	5 wk	6 wk	7 wk	9 wk
30 lbs	4.9a	6.6a	12.5a	21.9a	27.2a	36.2a
60 lbs	3.0a	4.5a	12.7a	21.1a	26.3a	35.0a
90 lbs	4.9a	8.1a	15.3a	27.2a	33.6a	42.3a
120 lbs	2.9a	6.3a	13.3a	20.8a	26.2a	33.8a

K-326 flue-cured tobacco transplanted on 21 March.

Tobacco Entomology Test 4 : TSWV Suppression with Various Imidacloprid Sources with and without Actigard
Bowen Farm - 2007

			M	L	K	J	I	H	G	F	E	D	C	B	A
			529	528	527	526	525	524	523	522	521	520	519	518	517
	P	A	I	E	L	H	N	C	K	B	F	Q	P	O	N
	432	417	425	421	428	424	430	419	427	418	422	533	532	531	530
M	O	M	K	P	H	C	E	F	B	D	Q	O	G	J	
329	331	429	327	332	324	319	321	322	318	420	433	431	423	426	
J	B	C	P	L	D	I	M	A	D	A	Q	I	N	G	L
326	218	219	232	228	220	225	229	217	320	317	333	325	330	323	328
E	K	L	M	N	O	P	Q	J	O	G	K	H	N	Q	F
221	127	128	129	130	131	132	133	226	231	223	227	224	230	233	222
						A	B	C	D	E	F	G	H	I	J
						117	118	119	120	121	122	123	124	125	126

'NC 71' tobacco transplanted on April 19 . Plots 2 rows by 30 ft w/ 6 ft. alley. Tray drench Actigard was applied April 13 and Insecticides applied on April 16.

**Tobacco Entomology Test 4
Treatment List**

Treatment and tray drench rate (formulation / 1000 cells)

Number	Letter	Insecticide	Rate
17	A	Untreated	
18	B	Admire Pro 4.6SC	0.8 oz
19	C	Admire Pro 4.6SC + Actigard 50 WG	0.8
20	D	Alias 2F	1.8 oz
21	E	Alias 2F+ Actigard 50 WG	1.8
22	F	Couraze 2F	1.8 oz
23	G	Couraze 2F+ Actigard 50 WG	1.8
24	H	Imida E-AG 2F	1.8 oz
25	I	Imida E-AG 2F+ Actigard 50 WG	1.8
26	J	Macho 2F	1.8 oz
27	K	Macho 2F+ Actigard 50 WG	1.8
28	L	Nuprid 2F	1.8 oz
29	M	Nuprid 2F+ Actigard 50 WG	1.8
30	N	Torrent 2F	1.8 oz
31	O	Torrent 2F+ Actigard 50 WG	1.8
32	P	T-MOXX 2SC	1.3 oz
33	Q	T-MOXX 2SC+ Actigard 50 WG	1.3

Tray drench applied in 10 gallons / 100,000 cells. Actigard applied at a rate of 0.5 oz / 50,000 cells on April 11. The insecticide products applied on April 13 and the NC71 tobacco was transplanted on April 19.

Test 4. Effects of selected tray drench treatments on the cumulative % TSWV in flue-cured tobacco, Tift Co, Georgia, 2007.

Treatment	% TSWV symptomatic plants (WAT)			
	3 weeks	4 weeks	5 weeks	6 weeks
A. Untreated	1.2a	7.1a	17.7a	28.1a
B. Admire	1.7a	3.9a	11.5ab	19.6a-d
C. Admire + Actigard	0.6a	4.1a	11.3ab	19.5a-d
D. Alias	2.4a	5.4a	9.7ab	20.2a-d
E. Alias + Actigard	1.2a	6.3a	11.5ab	18.9a-d
F. Courage	1.1a	4.7a	9.3ab	20.1a-d
G. Courage + Actigard	1.1a	4.7a	11.5ab	16.7bcd
H. Imida	1.7a	5.8a	12.2ab	23.1abc
I. Imida + Actigard	1.7a	4.5a	10.7ab	21.5a-d
J. Macho	3.6a	4.3a	11.4ab	25.9ab
K. Macho + Actigard	0.6a	4.2a	8.3b	14.6cd
L. Nuprid	3.0a	7.6a	12.3ab	21.2a-d
M. Nuprid + Actigard	0.6a	3.0a	10.8ab	21.1a-d
N. Torrent	3.4a	7.3a	10.0ab	23.1abc
O. Torrent + Actigard	6.5a	7.1a	8.4b	12.8d
P. T-Moxx	1.8a	8.0a	15.8ab	25.6ab
Q. T-Moxx + Actigard	2.2a	2.8a	7.8b	13.6cd

NC-71 flue-cured tobacco transplanted on 19 April. TD Actigard treatments applied on 11 April and insecticide treatments applied on 13 April at a rate of 10 gal / 100,000 cells. Column means with the same letter are not significantly different (DMRT, P=0.05).

Tobacco Entomology Test 5 : Worm and Aphid Control
Bowen Farm - 2007

239	237	235	434	442	438
234	238	242	437	436	440
236	241	240	435	439	441
135	139	134	338	341	336
140	136	141	335	334	342
137	142	138	340	337	339
Thrips		Feeding Trials			

<u>TREATMENTS :</u>	<u>Form./acre</u>	<u>lbs. AI/a</u>
(34) Brigade 2E	4 oz	0.06
(35) Warrior 1EC	4 oz	0.03
(36) Denim 0.16EC	10 oz	0.0125
(37) Lannate 2.4LV	1.5 pt	0.45
(38) Tracer 4SC	2 oz	0.0625
(39) Dipel ES	1 pt.	1 pt.
(40) Phaser 3 EC	1 pt.	0.75
(41) Belt 480SC	3 oz	0.09
(42) Untreated	-----	-----

Table 1. Numbers of thrips collected from different weed hosts in the tobacco farmscape in Tift County, Georgia, 2007.

Plant species	Total number of thrips collected from host			
	<i>F. Fusca</i>	<i>F. Occid</i>	Other spp.	Immatures
Wild Radish	21	43	187	315
Vetch	0	18	59	482
Primrose	6	1	11	3
Henbit	2	0	39	0
Red sorrel	0	0	28	1
Honeysuckle	0	0	501	24
Oats	0	0	3	0
Nutsedge	57	6	9	1
Flowering privet	0	0	1	0
Broomsedge	0	1	767	1
Tobacco foliage	116	4	23	1
Tobacco blooms	12	21	275	1
Florida pursley	1	0	33	4
Oak	0	2	15	0
Morning Glory	1	2	13	95
Wheat / Rye	6	5	601	150
Red Clover	0	0	1	0
Yellow Clover	0	0	1	0
Totals	222	103	2567	1078

Thrips collected from Jan. 2007 thru early June 2007 on weed hosts and from tobacco during early April thru June 2007. *F. occid* is the western flower thrips, *F. occidentalis*. Other spp. include *F. tritici*, *F. bispinosa*, *Haplothrips* spp., *Chirothrips* spp. and *Limothrips cerealium*.

Table 2. Mean thrips captured per yellow sticky trap each month in the tobacco farmscape, Bowen Farm, Tift County, Georgia, 2007.

Month	Mean thrips per sticky trap (both sides)		
	<i>F. fusca</i>	Flower thrips**	Other Spp.
Jan. 07	0.0	0.1	0.3
Feb. 07	0.3	28.2	0.9
Mar. 07	32.3	1020.1	5.0
Apr. 07	82.3	2133.7	11.1
May 07	487.8	1567.7	24.2

** Flower thrips include *F. occidentalis*, *F. tritici*, and *F. bispinosa* combined. Other species include *Haplothrips* spp., *Chirothrips* spp., *Limothrips cerealium*, and others. Column means followed by the same letter are not significantly different (Duncan's multiple range test, P=0.05).

Pollen Question: Does tree pollen shed in the spring affect thrips?

D. G. Riley – UGA

Pollen has been shown to positively affect the growth, fecundity and developmental time of *F. occidentalis*, among several other species of thrips (Holshof et al. 2003, Trichilo and Leigh 1988; Kirk 1985; Leskey et al. 1997). There is variation in the affects of pollen on thrips fecundity depending on the degree of host specialization in the thrips species or on the nutrition of the pollen species. Kirk (1985) showed that though generalist thrips expressed higher rates of oviposition from supplementation of any pollen species offered, specialists significantly increased oviposition rates only with supplementation of pollen from their respective host plant. Species of thrips not associated with flowers may not experience positive affects from pollen supplementation. For example, *Thrips calcaratus* showed no change in fecundity with supplementation of pollen to the host pant (Rieske and Raffa 1996), but our data shows that pine pollen strongly affects western flower thrips and tobacco thrips.

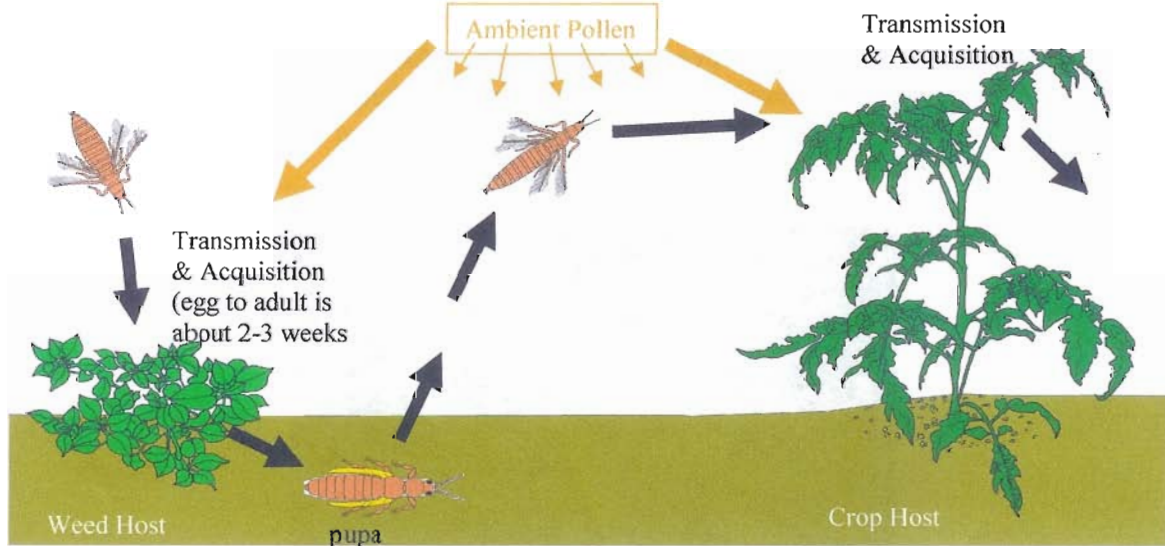
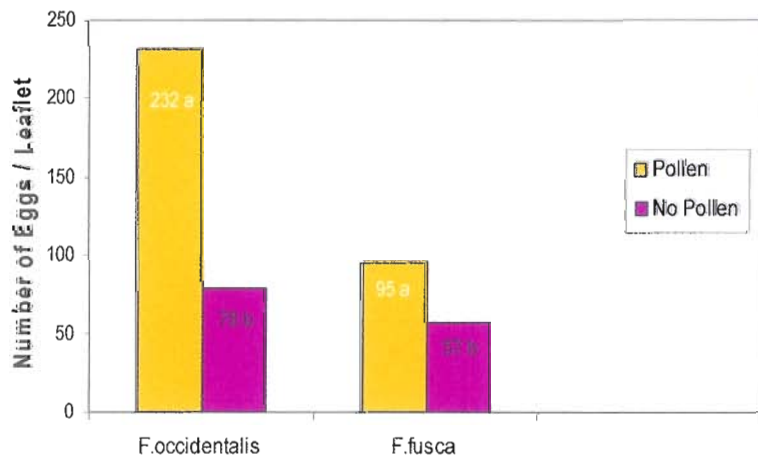


Figure 1. The population dynamics of thrips and the Tospovirus they vector could be influenced by annual tree pollen deposition in the spring.



Thrips feeding on pine pollen (above) and resulting increase in egg lay (right).



Effects of pollen supplementation on thrips fecundity

Objective

We hope to find whether there are changes in *Frankliniella fusca* fecundity resulting from supplementation of pollen on host plant leaves in the field.

Experimental Method

A comparison study was constructed to evaluate *F. fusca* fecundity on tobacco leaves with and without a fine dusting of pine pollen. Sleeve cages were constructed out of a wire frame and pantyhose socks to enclose single tobacco leaves trimmed to approximately equal size. Two leaves per tobacco plant were fitted with a sleeve cage, for a total of 16 cages. On each plant, one enclosed leaf was left untreated and one was lightly dusted with roughly 3 mg loblolly pine pollen. Female *F. fusca* within 2-3 days of synchronized developmental time with each other and adult males of undetermined age were taken from colonies reared on snap beans. Two males and 8 females were placed inside each sleeve cage, and the sleeve cages tied shut. After having remained on the caged leaves for 3 days, the adult thrips were collected and sleeve cages retied around the leaves. The number of emergent thrips immatures in each sleeve cage will be quantified to assess thrips fecundity on treated and untreated leaves.



A sleeve cage is fitted over a single tobacco leaf.

2007
EVALUATION OF STRIP-TILL TOBACCO FOR TSWV SUPPRESSION

Paul Bertrand, Pathologist (Retired)
 UGA Tifton Campus, Bowen Farm, Tifton, Georgia

EAST -----> WEST
 EACH ROW OF ***** = 4 ROWS OF TOBACCO

[<-----150'----->]

CK	*****	STRIP-TILL *****			*****
AA	*****	STRIP-TILL *****			*****
AA	*****	CONV.-TILL *****			*****
CK	*****	CONV.-TILL *****	W		*****
AA	*****	CONV.-TILL *****	A		*****
CK	*****	CONV.-TILL *****	T		*****
CK	*****	STRIP-TILL *****	E		*****
AA	*****	STRIP-TILL *****	R		*****
AA	*****	STRIP-TILL *****			*****
CK	*****	STRIP-TILL *****	L		*****
CK	*****	CONV.-TILL *****	A		*****
AA	*****	CONV.-TILL *****	N		*****
AA	*****	STRIP-TILL *****	E		*****
CK	*****	STRIP-TILL *****			*****
CK	*****	CONV.-TILL *****			*****
AA	*****	CONV.-TILL *****			*****

NOVEMBER/DECEMBER: 64 ROWS X 150' LONG

- I. FUMIGATE AS NEEDED & BED
- II. BOARD OFF BEDS
- III. PLANT WHEAT (ANY SMALL GRAIN TO HAVE DENSE STURDY STRAW BY MARCH1)

JANUARY:

- I. SPRAY ROUND-UP IN A 8-12" BAND IN THE CENTER OF EACH STRIP-TILL BED

MARCH:

- I. SPRAY GRAIN WITH ROUNDUP
- II. RENOVATE OPEN BED CENTER (DO NOT DISTURB STUBBLE)
- III. STRIP-TILL: LEAVE STUBBLE AS IS & PLANT DOWN THE CENTER HALLWAY
- IV. CONV.-TILL: RENOVATE BEDS & PLANT: PLOW AS NORMAL

APRIL:

PRE-EMERGENCE TREATMENT WITH SPARTAN (8 oz/A) + PROWL 3.3EC (1.3 qt/A)
 IRRIGATE PRIOR TO TRANSPLANTING

- I. TRANSPLANT APRIL 12, 2007
- II. POST TRANSPLANT TREATMENT WITH COMMAND (2 pt/A)

MAY

- I. LAYBY: PLOW ALL TREATMENTS

**PRELIMINARY RESULTS FOR
PERCENT FIELD STAND AND PERCENT SPOTTED WILT VIRUS AT LAYBY
IN STRIP-TILL TOBACCO TRIALS CONDUCTED AT FOUR LOCATIONS**

**EFFECT OF TILLAGE SYSTEM ON
PERCENT FIELD STAND AT LAY BY¹**

Tillage System	GRIFFIN ²		BOWEN ²		HENDERSON ²		ALDRIDGE ²	
	A+A ³	CK ⁴	A+A	CK	A+A	CK	A+A	CK
Strip	96.0	92.4	96.5	93.1	93.6	93.3	95.9	89.3
Conventional	97.6	96.6	97.1	95.0	96.7	95.2	95.8	92.7

**EFFECT OF TILLAGE SYSTEM ON
PERCENT SPOTTED WILT AT LAY BY¹**

Tillage System	GRIFFIN ²		BOWEN ²		HENDERSON ²		ALDRIDGE ²	
	A+A ²	CK ³	A+A	CK	A+A	CK	A+A	CK
Strip	7.0	34.6	1.2	5.4	3.7	13.8	4.8	18.9
Conventional	11.7	40.8	3.5	14.5	5.8	22.2	7.1	25.3

¹ Layby is the data collected at 6 weeks after transplanting.

² Transplant dates:

Griffin = 10 April 07;

Bowen = 12 April 07;

Henderson = 18 April 07;

Aldridge = 23 April 07.

Seedlings used in all trials were grown and treated in plant houses at a commercial tobacco transplant production operation in Coffee County.

³ A+A = transplants treated with Actigard @ 1.0oz / 100,000 seedlings 7 days before transplanting plus Admire Pro @ 0.8oz / 1,000 tray cells 2 days before transplanting.

⁴ CK is untreated transplants (no Actigard or Admire Pro).

2007 Tobacco Variety Tests

Regional Farm Test	2. NC 95	Regional Small Plot Test	6. CC 68	Official Variety Test	2. NC 71
1. NC 2326	4. RX 576	5. NC TG 150	8. NC EX 09	1. K 346	4. NC 297
3. AOV 506	6. CC 65	7. RJR 63	10. CU 42	3. NC 72	6. NC 291
5. NC EX 04	8. NC EX 02	9. AOV 405	12. RJR 75	5. NC 55	8. NC 102
7. GF 52	10. ULT 138	11. RX 634	14. RJR 338	7. NC 196	10. GL 350
9. RJR 15	12. ULT 109	13. NC TG 149	16. CC 638	9. NC 299	12. CC 700
11. Speight 241	14. RJR 35	15. CU 67	18. NC EX 06	11. CC 13	14. CC 37
13. NC TG 146	16. NC 71	17. GF 318	20. RX 627	13. CC 27	16. Speight 210
15. CU 37		19. NC EX 07	22. OX 2047	15. Speight H 20	18. Speight 225
		21. CC 305	24. RJR 138	17. Speight 220	20. Speight 234
Regional Small Plot Test		23. NC TG 152	26. NC TG 148	19. Speight 227	22. Speight 236
1. NC 2326	2. NC 95	25. NC EX 08	28. CU 23	21. Speight 168	24. PVF 1409
3. K 326	4. ULT 111	27. CU 65	30. CC 307	23. PVH 1118	26. CH 1
		29. RJR 620	32. NC 71	25. PVH 1452	28. LK 1
		31. CU 347		27. CH 3	

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

Road

Actigard and Admire Pro Application Timing Study
Bowen Farm, Tifton, Georgia 2007

611	606	617	614	601	608	616	603	610	619	604	615	609	620	618	607	613	602	612	605
507	504	519	512	516	503	513	520	506	518	502	511	515	505	510	501	517	509	514	508
410	413	401	406	414	402	411	409	417	415	403	418	407	416	404	412	408	419	405	420
305	309	318	315	304	312	308	316	303	310	307	314	311	302	320	317	319	306	313	301
203	212	220	204	213	209	219	205	214	201	217	206	210	215	207	211	218	208	216	202
101	108	114	102	111	116	103	113	118	104	109	119	105	112	117	106	115	120	110	107

Treatment in greenhouse float

1. Non Treated
2. Actigard & Admire Pro Greenhouse
3. Actigard & Admire Pro Greenhouse
4. Actigard & Admire Pro Greenhouse
5. Actigard & Admire Pro Greenhouse
6. Actigard & Admire Pro Greenhouse
7. Actigard & Admire Pro Greenhouse
8. Actigard & Admire Pro Greenhouse
9. Actigard & Admire Pro Greenhouse
10. Actigard & Admire Pro Greenhouse
11. Actigard & Admire Pro Greenhouse
12. Actigard & Admire Pro Greenhouse
13. Actigard & Admire Pro Greenhouse
14. Actigard & Admire Pro Greenhouse
15. Actigard & Admire Pro Greenhouse
16. Actigard & Admire Pro Greenhouse
17. Actigard & Admire Pro Greenhouse
18. Actigard & Admire Pro Greenhouse
19. Actigard & Admire Pro Greenhouse
20. Transgenic

Actigard Field application after transplanting

- No field treatment
- No field treatment
- + 7 days post transplant (DPT)
- + 14 DPT
- + 21 DPT
- + 28 DPT
- + 35 DPT
- + 42 DPT
- + 49 DPT
- + 1st symptom
- + 1stsymptom + 2 weeks + 2 weeks
- + 2% TSWV
- + 5% TSWV
- + 14 DPT + 2 weeks
- + 1st symptom + 2 weeks
- + 28 D^{PT} + 2 weeks
- + 2% TSWV + 2 weeks
- + 5% TSWV + 2 weeks
- + 21 DPT + 2 weeks
- No field treatment

**Note: All Actigard 50 WG greenhouse @ 2gai/7000 plants; all Admire Pro @ 1 oz/1000 plants. All field applications made at 1/2 oz/A of Actigard 50 WP.*

Spray trigger 1st symptom and % TSWV thereafter is on non-treated control plants

Planting date: 3/26/07

Data to be collected:

1. Stand counts, Infected plants (%)TSWV, dead plants (%)TSWV, TSWV+ plants flagged each week
2. ELISA sampling
3. Plant height at 6 weeks
4. Plant vigor
5. Yield (green weight, pounds)

Evaluation of Alternative Compounds for Control of Tomato Spotted Wilt Virus in Tobacco
Bowen Farm- Tifton, Georgia 2007

513	505	509	506	512	502	514	508	511	501	503	510	504	507
401	411	403	405	410	414	409	406	404	407	412	408	413	402
309	303	313	307	301	308	305	311	302	314	304	306	310	312
202	207	214	210	203	211	213	204	212	206	209	201	205	208
106	110	101	112	108	105	102	109	113	103	107	111	114	104

Planting date: 4/03/07 Tobacco variety: NC71

Plot size: one row, 37 feet each with 10 foot alleys

Plant spacing: 22"

Reps: five, RCB design

Treatments

1. Untreated control Greenhouse --- Field
2. Admire Pro 4.6 SC 0.8 oz/1000 plants Actigard- 1/2oz/A + Admire- 8oz/A at 2 weeks post plant
3. Admire Pro 4.6 SC 0.8 oz/1000 plants No field treatment
Nutri-Phite Magnum 1 pint/100 gal*
4. Admire Pro 4.6 SC 0.8 oz/1000 plants Nutri-Phite-1qt/A broadcast
Nutri-Phite Magnum 1 pint/100 gal* at 2,4,6 wks post transplant
**Spray 1pt/100 gal of Nutri-Phite 4 days prior to transplant to field-Apply good coverage BUT DO NOT SPRAY TO RUNOFF and DO NOT TANK MIX*
5. Admire Pro 4.6 SC 0.8 oz/1000 plants Nutri-Phite-1qt/A banded
Nutri-Phite Magnum 1 pint/100 gal* at 2,4,6 wks post transplant

Evaluation of Alternative Compounds for Control of Tomato Spotted Wilt Virus in Tobacco
Bowen Farm- Tifton, Georgia 2007- continued

6.	Admire Pro 4.6 SC	0.8 oz/1000 plants	<u>TriCard Rescue</u> - 1gal/100gal concentration applied at transplant, 14 days prior to lay-by, at lay-by, and (7) days before topping	**Apply TriCard Rescue at 10-50 gal/A in band adjusted to plant size. Good coverage without runoff
	Nutri-Phite Magnum	8oz/1000 to float water* 30 days post germination <i>No treatment</i>		
	TriCard Rescue			
7.	Admire Pro 4.6 SC	0.8oz/1000 plants	<u>TriCard Rescue</u> -1gal/100gal concentration applied at transplant, 14 days prior to lay-by, at lay-by, and (7) days before topping	
	TriCard Rescue	<i>No treatment</i>		
8.	Admire Pro 4.6 SC	0.8oz/1000 plants	No field treatments	
	Actigard	2gai/7000 plants		
9.	Admire Pro 4.6 SC	0.8oz/1000 plants	<u>Actigard</u> ½ oz/A at first symptom	
	Actigard	2gai/7000 plants		
10.	Admire Pro 4.6 SC	0.8oz/1000 plants	<u>Nutri-Phite</u> 1qt broadcast at 2, 4, 6 weeks post transplant	
	Actigard	2gai/7000 plants		
11.	Admire Pro 4.6 SC	0.8oz/1000 plants	Kaolin applied at 1 st symptom bi-weekly through topping	
	Actigard	2gai/7000 plants		
12.	Admire Pro 4.6 SC	0.8oz/1000 plants	Kaolin applied at 1 st symptom weekly up to 8 weeks	
	Actigard	2gai/7000 plants		
13.	Transgenic	<i>No greenhouse treatment</i>	<i>No field treatment</i>	
14.	Vydate	Actigard and Admire	2 qts at 2, 4, and 6 weeks banded application	

Data to be collected:

- weekly symptomatic plants
- vigor ratings at 2, 4, and 6 weeks
- plant height measurements at 4 & 8 wks
- yield

**Plant Age and Admire-Actigard Treatments
Bowen Farm Tifton, Georgia 2007**

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

Plant date: 3/27/07

Plot Size= two rows, 37 feet each with 10 foot alleys

Replications: five, RCB design

Plant spacing: 22"

Tobacco Variety: NC71 Seeding dates: Jan.9, Jan.24, and Feb.14

Treatments

1. 6 week old transplants
2. 9 week old transplants
3. 12 week old transplants
4. 6 week transplants + (A+A)
5. 9 week transplants + (A+A)
6. 12 week transplants + (A+A)
7. 6 week transplants + (A+A) + (AF)
8. 9 week transplants + (A+A) + (AF)
9. 12 week transplants + (A+A) + (AF)
10. Transgenic

* A+A= Actigard 2gai/7000 plants + Admire Pro 1oz/1000 plants

AF= Actigard ½ oz in the field, narrow band at 1st symptom in control

Data to be collected

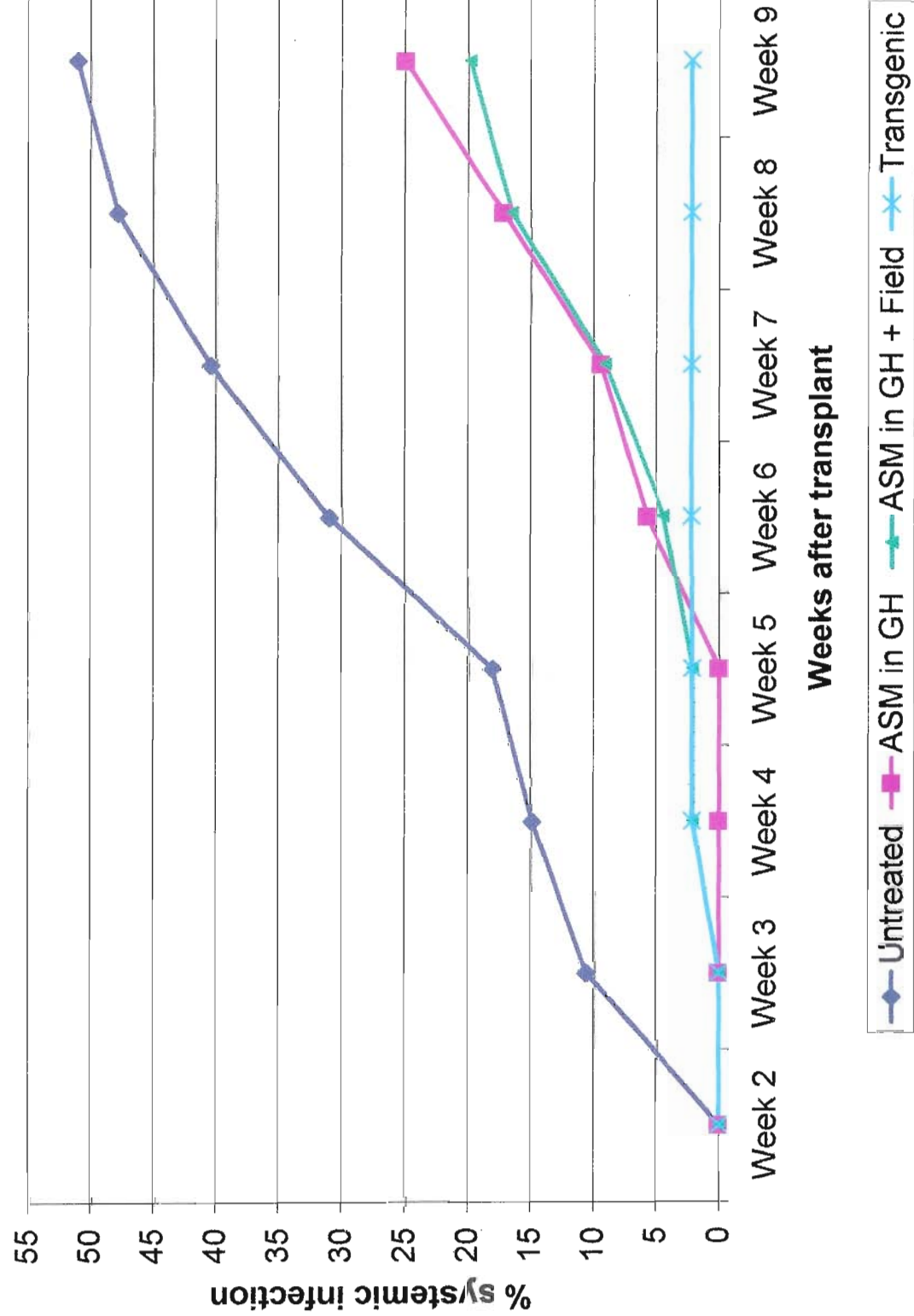
- TSWV symptomatic plants weekly
- Plant height measurements at 8 weeks post plant
- Phyto rating at 2 weeks and 6 weeks post plant
- Vigor ratings at 2 weeks and 6 weeks post plant
- Yield (pounds)

Plant age and Actigard-Admire
treatments

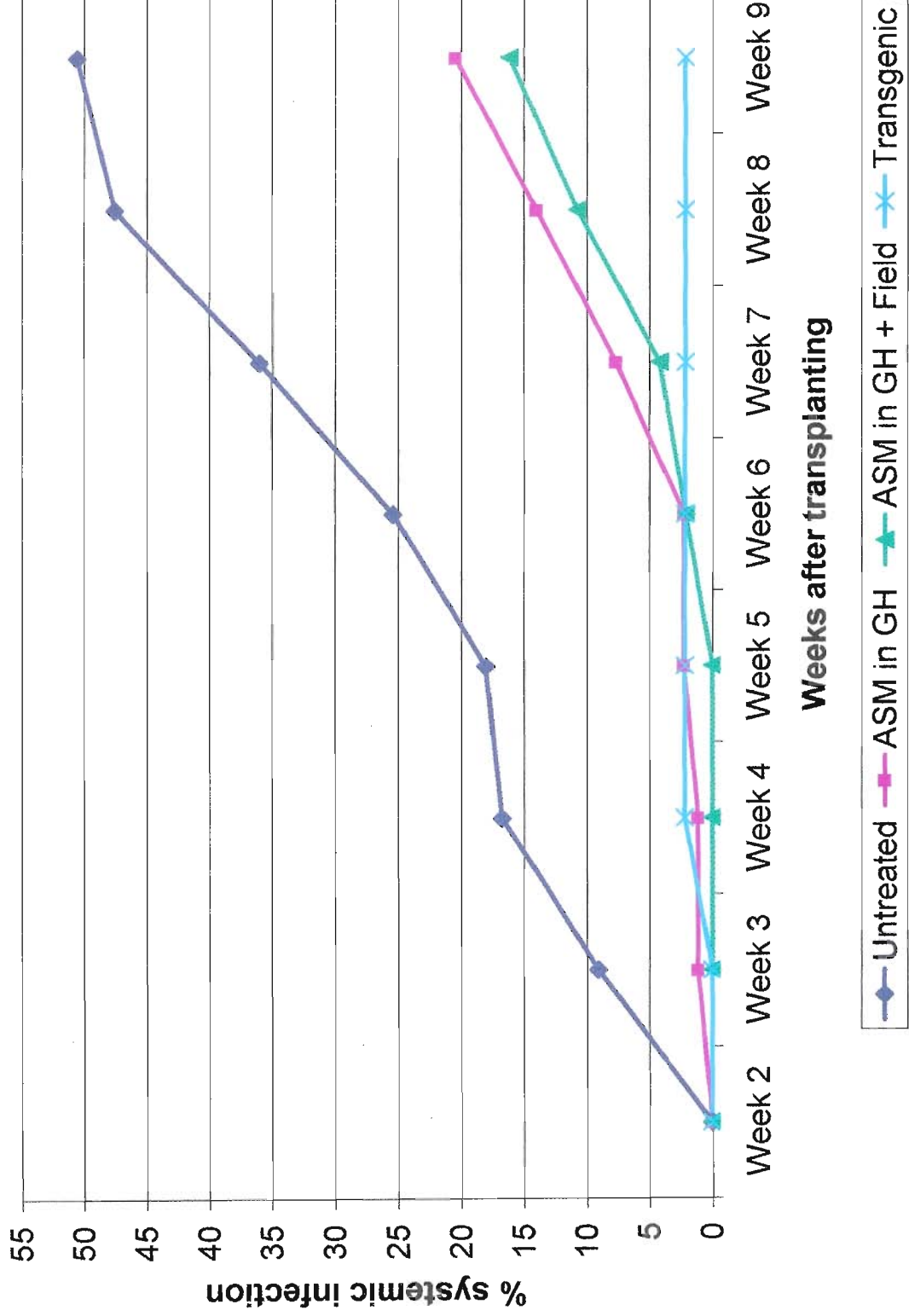
Bowen farm Tifton, Georgia

2007

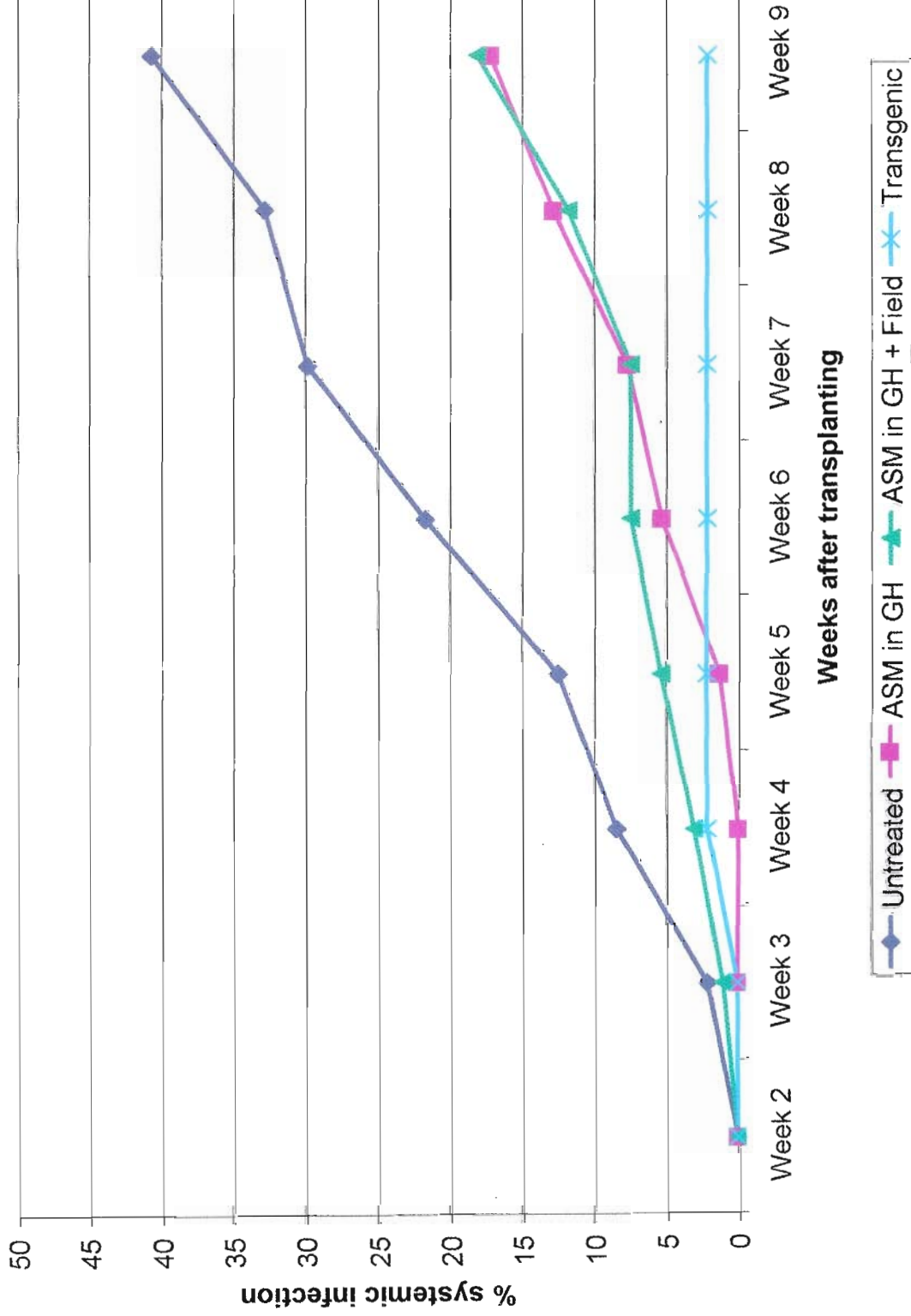
TSWV incidence in 6-week-old NC 71 transplants



TSWV incidence in 9-week-old NC 71 transplants



TSWV incidence in 12-week-old NC 71 transplants



**Transplant Management
Bowen Farm Tifton, Georgia 2007**

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

Planting date: 4/03/07

Plot size= one row 37 feet each with 10-foot alleys

Replications- five, RCB design

Plant spacing- 22"

Tobacco Variety: NC71

Treatments

1. 7-week transplants-clipped
2. 7-week transplants-non clipped
3. 7 week transplants- *Actigard & Admire- clipped + Actigard field spray
4. 7 week transplants- *Actigard & Admire- non clipped + Actigard field spray
5. 10-11 week transplants- multiple clip
6. 10-11 week transplants- multiple clip + *Actigard & Admire + Actigard field spray
7. 10-11 week transplants- non clipped
8. 10-11 week transplants- non clipped + *Actigard & Admire + Actigard field spray
9. 10-11 week transplants- multiple clip + Paraquat
10. 10-11 week transplants with all leaves removed except apical bud
11. 10-12 week transplants all leaves removed except apical bud + *Actigard & Admire + Actigard field spray
12. Transgenic

*Actigard + Admire= Actigard 2gai/7000 plants and Admire Pro 1oz/1000 plants in float house 5-7 days prior to transplant

Data to collected

- TSWV symptomatic plants weekly
- Vigor ratings at 2, 4, 6, & 8 weeks post transplant
- Plant height measurements at 4 and 8 weeks post transplant
- Yield (pounds)

Transplant Management
Percent Tomato Spotted Wilt Infection of Tobacco Plants (results as of 6/12/2007)
University of Georgia Bowen Farm Tifton, Georgia 2007

Treatment #	Treatment List*	# TSWV symptomatic plants	Average % TSWV
1	7-week transplants-clipped	38	35.9ab
2	7-week transplants-non clipped	36	35.9ab
3	7 week transplants- *Actigard & Admire- clipped + Actigard field spray	24	24.5bc
4	7 week transplants- *Actigard & Admire- non clipped + Actigard field spray	16	16.5cd
5	10-11 week transplants - multiple clip	31	30.5abc
6	10-11 week transplants - multiple clip + *Actigard & Admire + Actigard field spray	24	23.3bc
7	10-11 week transplants - non clipped	24	24.1bc
8	10-11 week transplants- non clipped + *Actigard & Admire + Actigard field spray	14	14.7cd
9	10-11 week transplants-multiple clip + Paraquat	24	23.3bc
10	10-11 week transplants with all leaves removed except apical bud	43	44.1a
11	10-12 week transplants all leaves removed except apical bud + *Actigard & Admire + Actigard field spray	15	19.8bcd
12	Transgenic	5	4.9d

*Actigard + Admire = Actigard 2gai/7000 plants and Admire Pro 1oz/1000 plants in float house 5-7 days prior to transplant.

Evaluation of Alternative Compounds for Control of Tomato Spotted Wilt Virus in Tobacco
Bowen Farm- Tifton, Georgia 2007

TRT #	Treatment List	Greenhouse Treatment	Field Application after transplanting	# TSWV symptomatic plants	Average % TSWV
1	Non-treated control	<i>No greenhouse treatment</i>	<i>No greenhouse treatment</i>	25	24.6abc
2	Admire Pro 4.6 SC	0.8 oz/1000 plants	Actigard- 1/2oz/A + Admire- 8oz/A at 2 weeks post plant	27	26.2ab
3	Admire Pro 4.6 SC Nutri-Phite Magnum	0.8 oz/1000 plants 1 pint/100 gal*	No field treatment	32	32.0a
4	Admire Pro 4.6 SC Nutri-Phite Magnum	0.8 oz/1000 plants 1 pint/100 gal*	<u>Nutri-Phite</u> -1qt/A <u>broadcast</u> at 2,4,6 wks post transplant	19	18.3bc
5	Admire Pro 4.6 SC Nutri-Phite Magnum	0.8 oz/1000 plants 1 pint/100 gal*	<u>Nutri-Phite</u> -1qt/A <u>banded</u> at 2,4,6 wks post transplant	18	16.5bcd
6	Admire Pro 4.6 SC Nutri-Phite Magnum TriCard Rescue	0.8 oz/1000 plants 8 oz/1000 gal to float water <i>No treatment</i>	<u>TriCard Rescue</u> -1gal/100gal concentration applied at transplant, 14 days prior to lay-by, at lay-by, and (7) days before topping	20	19.3abc
7	Admire Pro 4.6 SC TriCard Rescue	0.8 oz/1000 plants <i>No treatment</i>	<u>TriCard Rescue</u> -1gal/100gal concentration applied at transplant, 14 days prior to lay-by, at lay-by, and (7) days before topping	20	19.1abc
8	Admire Pro 4.6 SC Actigard	0.8 oz/1000 plants 2gai/7000 plants	No field treatments	16	15.0bcd
9	Admire Pro 4.6 SC Actigard	0.8 oz/1000 plants 2gai/7000 plants	<u>Actigard</u> 1/2 oz/A at first symptom	19	18.4bc
10	Admire Pro 4.6 SC Actigard	0.8 oz/1000 plants 2gai/7000 plants	<u>Nutri-Phite</u> 1qt broadcast at 2, 4, 6 weeks post transplant	18	17.8bcd
11	Admire Pro 4.6 SC Actigard	0.8 oz/1000 plants 2gai/7000 plants	Kaolin applied at 1 st symptom bi-weekly through topping	13	13.0cd
12	Admire Pro 4.6 SC Actigard	0.8 oz/1000 plants 2gai/7000 plants	Actigard and Admire post plant drench	14	13.3bcd
13	Transgenic	<i>No greenhouse treatment</i>	<i>No field treatment</i>	12	11.8d
14	Vydate	Actigard and Admire	2 qts at 2, 4, and 6 weeks banded application	18	18.3bc

Actigard and Admire Application Timing Study
 Percent Tomato Spotted Wilt Infection of Tobacco Plants (results as of 6/12/07)
 University of Georgia- Bowen Farm- Tifton, Georgia

Treatment #	Treatment in greenhouse	Field Application after transplanting	# TSWV symptomatic plants	Average % TSWV per Treatment (all reps)
1	Non Treated Control	No field treatment	27	21.9a
2	Actigard + Admire Pro	No field treatment	19	16.0ab
3	Actigard + Admire Pro	+ 7 days post transplant (DPT)	23	19.4a
4	Actigard + Admire Pro	+ 14 DPT	17	14.2 ab
5	Actigard + Admire Pro	+ 21 DPT	14	12.4abc
6	Actigard + Admire Pro	+ 28 DPT	18	15.0ab
7	Actigard + Admire Pro	+ 35 DPT	14	12.9abc
8	Actigard + Admire Pro	+ 42 DPT	22	19.6a
9	Actigard + Admire Pro	+ 49 DPT	17	14.7ab
10	Actigard + Admire Pro	+ 1 st symptom	21	18.3a
11	Actigard + Admire Pro	+ 1st symptom + 2 weeks + 2 weeks	18	15.4ab
12	Actigard + Admire Pro	+ 2% TSWV	22	19.1a
13	Actigard + Admire Pro	+ 5% TSWV	23	19.9a
14	Actigard + Admire Pro	14 DPT + 2 weeks	18	14.6
15	Actigard + Admire Pro	+ 1 st symptom + 2 weeks	14	11.8abc
16	Actigard + Admire Pro	28 DPT + 2 weeks	7	6.0bc
17	Actigard + Admire Pro	+ 2% TSWV + 2 weeks	15	12.8abc
18	Actigard + Admire Pro	+ 5% TSWV + 2 weeks	16	13.6ab
19	Actigard + Admire Pro	+ 21 DPT + 2 weeks	18	16.2ab
20	Transgenic	No field treatment	2	1.8c

30C

2007 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION TOBACCO ON-FARM DEMONSTRATIONS

**Transplant Water Fertilizer Demonstration on the Bowen Farm
of the Coastal Plain Experiment Station, Tift County, 2007.**

49 P	50 N	51 M	52 L	53 K	54 J	55 I	56 H	57 G	58 F	59 E	60 D	61 C	62 B	63 A	64 O
33 O	34 F	35 H	36 B	37 M	38 K	39 J	40 N	41 L	42 A	43 C	44 E	45 G	46 I	47 D	48 P
17 P	18 B	19 E	20 F	21 H	22 A	23 J	24 L	25 D	26 N	27 G	28 M	29 I	30 C	31 K	32 O
1 O	2 A	3 B	4 C	5 D	6 E	7 F	8 G	9 H	10 I	11 J	12 K	13 L	14 M	15 N	16 P

Trt	Treatments	Rate /A	Amt / 10 gal mix	rep 1	rep 2	rep 3	rep 4	Visual Rating (1-10)	
								5/16/7	6/1/7
A.	Check	----		2	22	42	63	5.13	5.13
B.	SQM (9-45-15)	6 lbs/100 gal	273 g	3	18	36	62	7.44	7.53
C.	SQM (10-52-8)	6 lbs/100 gal	273 g	4	30	43	61	8.19	7.56
D.	Agriliance (10-52-8)	6 lbs/100 gal	228 g	5	25	47	60	8.44	8.0
E.	Jump Start (8-31-4)	4 qts/A	166 g	6	19	44	59	7.47	7.56
F.	PercPlus	8 oz / A	10 ml	7	20	34	58	4.59	6.25
G.	H 9754	1 gal/A	166 ml	8	27	45	57	4.78	6.13
H.	H 9754 + 9-45-15	1 gal/A 6 lbs/100 gal	166 ml 273 g	9	21	35	56	7.63	7.75
I.	H 9947	1 gal/A	166 ml	10	29	46	55	5.41	6.91
J.	H 9947+ 9-45-15	1 gal/A 6 lbs/100 gal	166 ml 273 g	11	23	39	54	7.41	7.69
K.	H 0550	1 qt/A	42 ml	12	31	38	53	4.63	6.09
L.	H 0550 + 9-45-15	1 qt/A 6 lbs/100 gal	42 ml 273 g	13	24	41	52	7.50	7.56
M.	Transplanter Moly	1 gal/A	166 ml	14	28	37	51	6.03	7.38
N.	Transplanter Moly	2 gal/A	332 ml	15	26	40	50	4.97	5.5
O.	PercPlus	32 oz/100 gal	95 ml	1	32	33	64	5.47	6.81
p.	PercPlus	16 oz/100 gal	48 ml	16	17	48	49	5.25	5.88

10 gal mix = 228 gal /A

2007 UNIVERSITY OF GEORGIA
 COOPERATIVE EXTENSION TOBACCO ON-FARM DEMONSTRATIONS
 SIDEDRESS NITROGEN FERTILIZER SOURCE DEMONSTRATION

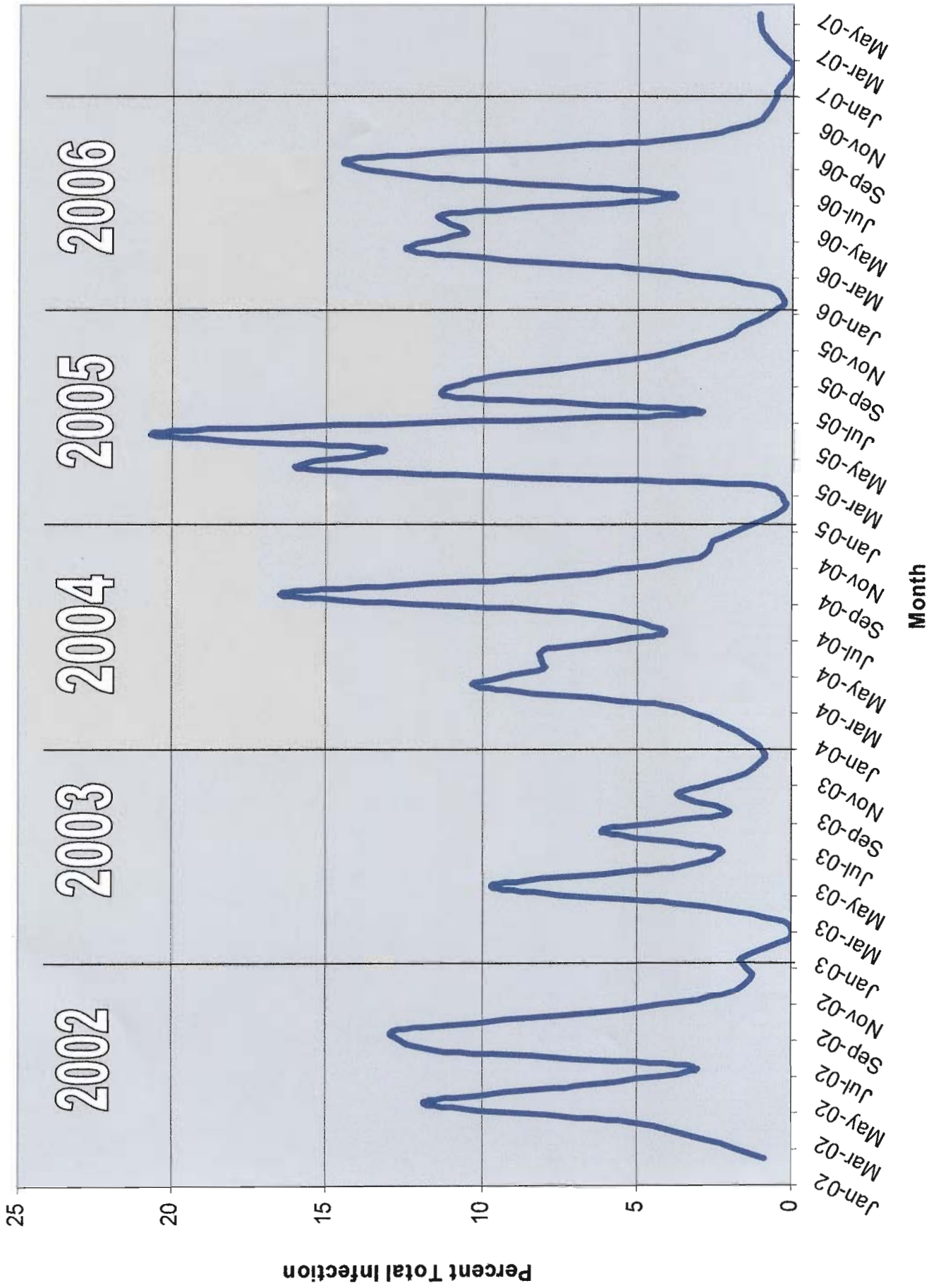
37 L	38 K	39 J	43 F	44 E	45 D	46 C	47 B	48 A
25 J	26 D	27 E	31 H	32 B	33 G	34 A	35 F	36 K
13 K	14 F	15 G	19 J	20 C	21 I	22 D	23 L	24 E
1 A	2 B	3 C	7 G	8 H	9 I	10 J	11 K	12 L

Trt	Analysis	lb/A	(N-P-K)	Analysis	lb/A	(N-P-K)
A.	6-6-18	667	(40-40-120)	15.5-0-0 0-0-22	226 272	(75-40-180)
B.	6-6-18	667	(40-40-120)	13-0-44	269	(75-40-238)
C.	6-6-18	667	(40-40-120)	NH4NO3 0-0-22	103 272	(75-40-180)
D.	6-6-18	667	(40-40-120)	30-0-0 old 0-0-22 (foliar N)	4.85gal 272	(55-40-180)
E.	6-6-18	667	(40-40-120)	30-0-0 old 0-0-22 (foliar N)	11.33gal 272	(75-40-180)
F.	6-6-18	667	(40-40-120)	30-0-0 old 0-0-22 (foliar N)	17.8gal 272	(95-40-180)
G.	6-6-18	667	(40-40-120)	30-0-0 new (521G33)* 0-0-22	4.85gal 272	(55-40-180)
H.	6-6-18	667	(40-40-120)	30-0-0 new (521G33)* 0-0-22	11.33gal 272	(75-40-180)
I.	6-6-18	667	(40-40-120)	30-0-0 new (521G33)* 0-0-22	17.8gal 272	(95-40-180)
J.	13-0-44	307	(40-0-135)	14-0-14 0-0-22	250 113	(75-40-180)
K.	6-6-18 0-0-22 Kmag	334 550	(20-20-180)	15.5-0-0	354	(75-20-180)
L.	6-6-18 0-0-22 Kmag	334 550	(20-20-180)	UCAN 17	27.5 gal	(75-20-180)

*521G33 = new material; soil applied

30-0-0 = old material; foliar treatments = Apply 1/3 of total in each of 3 applications 2 wks apart to supply a total of 15, 35 or 55 lbs N for treatments G, H & I respectively

Overall TSWW in Weeds



32A

2007 UGA Tobacco Splitworm Protocol

**Vickers Farm
Berrien County
Tim Flanders, County Extension Coordinator**

Protocol Tasks

- Install Winged and Bucket traps to monitor moth flights
- Check traps weekly and record number of splitworm moths
- FAX a copy of the record sheet to J. Michael Moore 229 386 7308
- Implement spray protocol when more than 20 moths are found after any one week period.
- Maintain sprays after started.

Treatments

Trt No.	Material	AI (lb)	Form (fl oz)	Notes
A	Untreated Check			
B	Rimon 0.83EC + adjuvant (80:20)	0.78	12 oz	Make applic at 14 day intervals
C	Rimon 0.83EC + adjuvant	0.58	9 oz	Make applic at 14 day intervals
D	Rimon 0.83EC + adjuvant + Warrior	0.78 0.015	12 oz + 1.92 oz	Make applic at 14 day intervals
E	Rimon 0.83EC + adjuvant + Warrior	0.78 0.03	12 oz + 3.84 oz	Make applic at 14 day intervals
F	Warrior	0.03	3.84 oz	Make applic at 14 day intervals
G	Dimilin 2L	0.125	8 oz	Make applic at 14 day intervals
H	Tracer 4SC	0.64	2.0 oz	Make applic at 14 day intervals
I	Orthene	97 PE	0.75 lb	Make applic at 14 day intervals
J	Lannate 2.4LV	0.45	1.5 pts	Make applic at 14 day intervals

- plots = 2 row plots X 20' long, sprayed from the vacant middle on the edge of a set of rows
 - 4 reps (reps may be arranged end to end OR 2 reps on both sides of a skip row rather than stacked as below)

REP 1	A	B	C	D	E	F	G	H	I	J
	1	2	3	4	5	6	7	8	9	10
REP 2	I	G	E	C	A	J	H	F	D	B
	11	12	13	14	15	16	17	18	19	20
REP 3	B	D	F	G	H	A	C	E	J	I
	21	22	23	24	25	26	27	28	29	30
REP 4	J	I	H	G	F	E	D	C	B	A
	31	32	33	34	35	36	37	38	39	40

**2007 REGIONAL VARIETY FARM TEST
PAUL FOLSOM
LANIER COUNTY**

Elvin Andrews, County Extension Coordinator

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Trt No	VARIETY	PEDIGREE	DISEASE RESISTANCE					
			BS	GW	FW	RKN	BN SP	TMV
1.	NC 2326	(Hicks X 9102)(Hicks) Hicks)Hicks) NCSU	L	SU	M			
2.	NC 95	(C-139 X Bel. 4-30) X (C-139 X Hicks) NCSU	L	H	M	R		
3.	AOV 506	Hybrid AO		R				TMV
4.	RX 576	Hybrid Rickard	R	R		R		
5.	NC EX 04	Hybrid NCSU	R	R		TCN/R		
6.	CC 65	Hybrid CC	R	R		R/M.j.		
7.	GF 52	Hybrid Gwynn Farms	R	R		R		TMV
8.	NC EX 02	Hybrid NCSU	R	R		TCN/R		
9.	RJR 15	Hybrid RJR	R	R		R/M.j.		
10.	ULT 138	NC 55 ms(*) Breeding Line 01511 ULT						PVY
11.	Speight 241	SPT						
12.	ULT 109	Hybrid ULT						TMV
13.	NC TG 146	Hybrid NCSU	R	R		R		PVY/ TEV
14.	RJR 35	Hybrid RJR	R	R		R/M.j.		
15.	CU 37	Spt 168 X PD 474 SC						

¹ Resistance: H - High; M - Moderate; L - Low; R - Resistant; T - Tolerant; S - Susceptible
Diseases: BS - Black Shank; GW - Granville Wilt; FW - Fusarium Wilt; RKN - Root Knot Nematodes;
TCN - Tobacco Cyst Nematode; M.j.-Meloidogyne javanica; BNSP - Brown Spot;
TMV- Tobacco Mosaic Virus; TEV-Tobacco Etch Virus; PVY- Potato Virus Y
Sponsor: NCSU-NC State Univ; AO-Alliance One; Rickard-Rickard Seed Co; CC-Cross Creek Seed Co;
Gwynn Farms; RJR- RJ Reynolds Tobacco Company; ULT-Universal Leaf Tobacco Co;
SPT-Speight Seed Farms; SC-South Carolina.

Evaluation of Provado Applied to Plants in Beds, and TriMax Applied in the Transplant Water for Control of TSWV Incidence in Field Bed Produced Flue-Cured Tobacco Transplants

2007
 Herring Farm
 Echols County
 Jake Price, Lowndes County Extension Agent

*****P*****	***A*****	****P+A*****	****U*****
*****P*****	****A*****	****P+A*****	*****U*****
*****P***	*****A*****	****P+A*****	*****U*****
*****P**	*****A*****	****P+A*****	*****U***
P+A**	***P*****	****U*****	***A*****
P+A**	****P*****	****U*****	****A*****
P+A**	****P*****	****U*****	****A*****
P+A**	****P*****	****U*****	****A*****

****U*****	***P+A*****	***A*****	***P*****
*****U*****	***P+A*****	****A*****	****P*****
*****U***	***P+A*****	*****A*****	*****P*****
*****U**	***P+A*****	*****A*****	*****P*****
A**	***U*****	***P*****	***P+A*****
****A*****	****U*****	****P*****	****P+A*****
*****A*****	*****U*****	*****P*****	****P+A*****
*****A*****	*****U*****	*****P*****	****P+A*****

_____ 100 ft _____
 _____ 400 ft _____

Green- Provado
Orange- Admire in transplant water (used TriMax equivalent rate for Admire Pro)
White- Provado + Admire (used TriMax equivalent rate for Admire Pro)
Pink – Untreated
 67 plants needed per 100' row 18" apart
 268 plants needed per 400' row
Provado sprayed prior evening before planting

**Evaluation of Provado Applied to Plants in Beds, and TriMax
Applied in the Transplant Water for Control of
TSWV Incidence in Field Bed Produced
Flue-Cured Tobacco Transplants**

2007
Herring Farm
Echols County
Jake Price, Lowndes County Extension Agent

Flag Color Treatment # plants/plot	Orange (Admire in water) 491 plants		Green (Provado) 491 plants		Pink (Untreated) 501 plants		White (Provado + Admire) 493 plants	
	TSWV Incidence							
	plants		plants		plants		plants	
Week	#	%	#	%	#	%	#	%
2 pencil	3	0.6	4	0.8	14	2.8	3	0.6
4 red	33	7.3	46	10.2	55	13.8	27	6.1
6 black	40	15.5	50	20.4	43	22.4	40	14.2
8								
10								

Goal: To see if Provado will provide a benefit to plants grown in beds in combination with Admire applied at transplant. Provado is applied 12 hours before planting and hopefully will prevent thrip feeding to reduce TSWV in newly planted plants. Admire in transplant water is not immediately able to protect plants until the Admire is absorbed up through the roots. Provado is absorbed through the leaves.

Evaluation of Actigard 50WG, Provado, and TriMax for Control of TSWV Incidence in Field Bed Produced Flue-Cured Tobacco Transplants

2007
Herring Farm
Echols County
Jake Price, Lowndes County Extension Agent

*** A+P*****	*** A*****	** A+A*****	** A+P +Ad***
*** A+P****	**** A*****	*** A+A****	** A+P +Ad***
***** A+P**	***** A*****	**** A+A****	** A+P +Ad***
***** A+P*	***** A*****	***** A+A***	** A+P +Ad***
** A+A*****	** A+P*****	** A+P +Ad***	*** A*****
*** A+A****	*** A+P****	** A+P +Ad***	**** A*****
*** A+A****	**** A+P****	** A+P +Ad***	***** A*****
**** A+A***	***** A+P***	** A+P +Ad***	***** A*****

** A+P +Ad***	** A+A*****	** A*****	** A+P*****
** A+P +Ad***	*** A+A*****	*** A*****	**** A+P****
** A+P +Ad***	**** A+A****	**** A*****	***** A+P**
** A+P +Ad***	***** A+A***	***** A*****	***** A+P*
*** A*****	** A+P +Ad***	** A+P*****	** A+A*****
**** A*****	** A+P +Ad***	*** A+P****	*** A+A*****
***** A*****	** A+P +Ad***	**** A+P****	**** A+A****
***** A*****	** A+P +Ad***	***** A+P***	***** A+A***

_____ 100 ft _____
_____ 400 ft _____

Yellow- Actigard + Provado
Blue- Actigard only
Silver-Actigard + Admire (used TriMax equivalent rate for Admire Pro)
Black- Actigard + Provado + Admire

Actigard applied on April 5. Site planted on April 11.

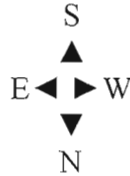
**Evaluation of Actigard 50WG, Provado, and TriMax
for Control of TSWV Incidence in Field Bed Produced
Flue-Cured Tobacco Transplants**

2007
Herring Farm
Echols County
Jake Price, Lowndes County Extension Agent

Flag Color Treatment # plants/plot	Blue (actigard) 487 plants		Black (Act + Prov + Adm) 491 plants		Silver (Actigard + Admire) 492 plants		Yellow (Act. + Prov) 489 plants	
	TSWV Incidence							
	plants		plants		plants		plants	
Week	#	%	#	%	#	%	#	%
2 pencil	2	0.4	1	0.2	3	0.6	3	0.6
4 red	29	6.4	12	2.6	14	3.5	14	3.5
6 black	37	14.0	34	9.6	28	9.1	46	12.9
8								
10								

2007 Florida On-Farm Released Tobacco Variety Trial

K. O. Dicks Farms, Inc.
Lake City, Florida
Columbia County



		Variety starts ~55 feet from front edge of plot			Variety starts ~25 feet from front edge of plot	Variety starts ~70 feet from front edge of plot						
13	12	11	10	9	8	7	6	5	4	3	2	1

-----| Gate |----- fence -----

Transplanted on April 13, 2007

2007 Released Variety Demonstration, Dicks Farm, Columbia County, Florida.

Variety	Pedigree	Year passed committee	Company
1	K 326	McNair 225(McNair30 X NC95)	GL
2	GL 350	Hybrid	GL
3	NC 102	Hybrid	RICKARD
4	NC 196	Hybrid	NCSU
5	NC 299	Hybrid	CC
6	NC 291	Hybrid	CC
7	Spt 225	(SP 168 X K 346) (SPA 95 X SP 168)	SPT
8	Spt 234	(SP 168 X K 346)	SPT
9	CC 37	Hybrid	CC
10	CC 27	Hybrid	CC
11	Spt 227	(SP 151 X K 346) (SP 202 X K 346)	SPT
12	NC 71	Hybrid	GL
13	PVH 1118	Hybrid	RICKARD

GEORGIA COUNTY ESTIMATES TOBACCO --2005-2006

USDA, NASS,
GEORGIA
FIELD OFFICE



Stephens Federal Building, Suite 320
Athens, Georgia 30601
Phone: (706)546-2236
E-mail: nass-ga@nass.usda.gov
Website: <http://www.nass.usda.gov/ga>

Released: June 2007

Tobacco Top Producing Counties 2006

Coffee	3,990,000 lbs
Atkinson	2,800,000 lbs
Wayne	2,061,000 lbs
Appling	1,874,000 lbs
Berrien	1,845,000 lbs
Cook	1,710,000 lbs
Pierce	1,605,000 lbs
Colquitt	1,440,000 lbs
Tift	1,324,000 lbs
Bacon	686,000 lbs
State Total	30,090,000 lbs

TOBACCO 2006

	3,000,000+ lbs
	2,000,000 to 2,999,999 lbs
	300,000 to 1,999,999 lbs
	Less than 300,000 lbs*



* Includes County data not published to avoid disclosing individual operations.

DOUGLAS G. KLEWENO
Director

S. RADLEY EDWARDS & JAMES E. BREWSTER
Agricultural Statisticians

**TOBACCO--Acreage, Yield and Production by County,
Georgia, 2005-2006^{1/}**

County	2005			2006		
	Harvested --Acres--	Yield per Acre ^{2/} --Pounds--	Production	Harvested --Acres--	Yield per Acre ^{2/} --Pounds--	Production
Appling	950	1,595	1,515,000	1,270	1,475	1,874,000
Atkinson	740	1,805	1,334,000	1,400	2,000	2,800,000
Bacon	690	1,380	952,000	770	890	686,000
Berrien	810	1,880	1,521,000	900	2,050	1,845,000
Bulloch	500	1,440	720,000			
Coffee	1,860	1,940	3,612,000	2,100	1,900	3,990,000
Colquitt	1,290	1,655	2,138,000	960	1,500	1,440,000
Cook	850	1,880	1,599,000	900	1,900	1,710,000
Lowndes	510	1,425	726,000			
Pierce	850	2,000	1,699,000	1,070	1,500	1,605,000
Tift	670	1,385	927,000	720	1,840	1,324,000
Ware	640	1,960	1,253,000	560	780	437,000
Wayne				1,120	1,840	2,061,000
Combined Counties	4,940	1,765	8,713,000	3,530	1,920	6,776,000

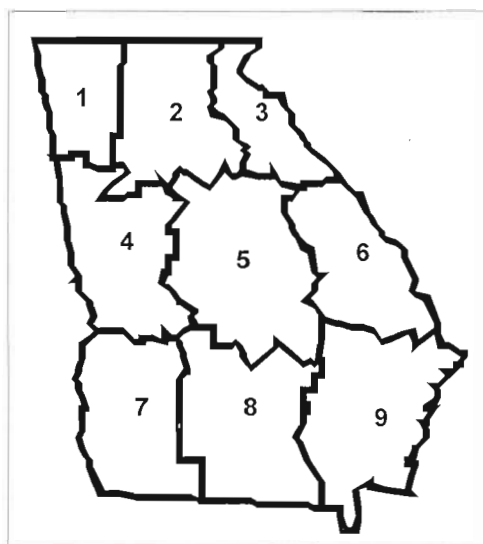
^{1/} County data that are not published to avoid disclosing individual operations are included in Combined Counties. ^{2/} Rounded to nearest 5 pounds.

**TOBACCO--Acreage, Yield and Production by Agricultural Statistics District and State Total,
Georgia, 2005-2006**

District ^{1/}	2005			2006		
	Harvested --Acres--	Yield per Acre ^{2/} --Pounds--	Production	Harvested --Acres--	Yield per Acre ^{2/} --Pounds--	Production
District 6	900	1,485	1,338,000			
District 8	9,100	1,795	16,348,000	9,500	1,890	17,958,000
District 9	5,300	1,700	9,023,000	5,800	1,480	8,590,000
Combined Districts	700	1,500	1,051,000	1,700	2,085	3,542,000
State Total	16,000	1,735	27,760,000	17,000	1,770	30,090,000

^{1/} Districts 1, 2, 3, 4, 5, and 7 not reported. ^{2/} Rounded to the nearest 5 pounds.

Georgia Agricultural Statistics District Outline Map



**THANK YOU FOR YOUR INTEREST IN THE
2007 GEORGIA - FLORIDA TOBACCO TOUR**

**PLAN TO JOIN US FOR THE
2008 GEORGIA - FLORIDA TOBACCO TOUR**

JUNE 9 - 11, 2008



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development.

ATTENTION! PESTICIDE PRECAUTIONS

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

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June 2007

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