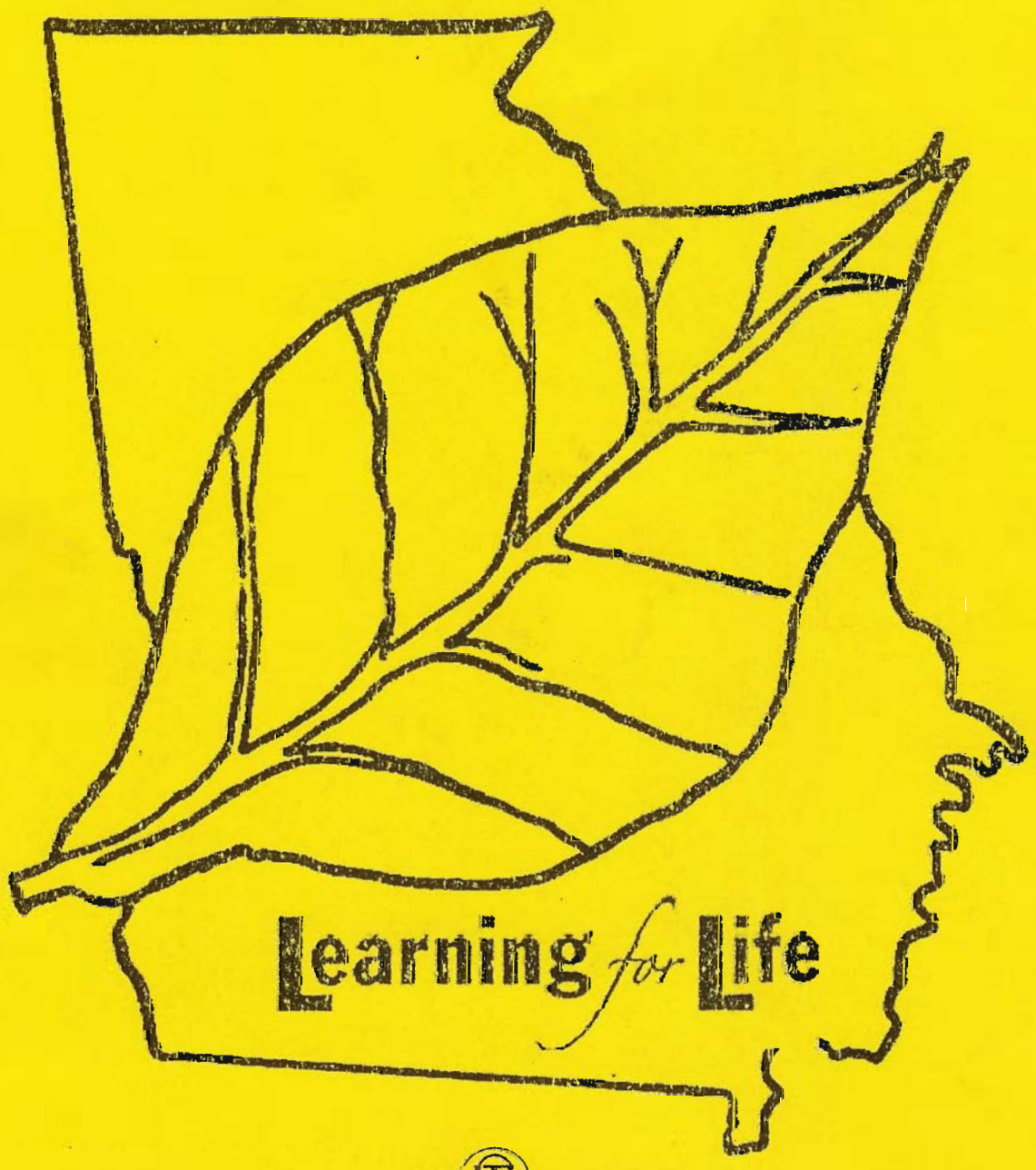
2006
Georgia - Florida Tobacco Tour



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	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	912-764-6101	912-489-6990	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	912-487-2169	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	912-529-4872
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	912-365-2324
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)	912-583-2588	912-583-2744
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
Claudia Nischwitz, Plant Pathology, CPES, Tifton	229-386-3187	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	

15 RDC Road, Hwy 41 & I-75, Post Office Box 1209, Rural Development Center, Tifton, Georgia, 31793, USA


TIFT
COFFEE
Douglas
Tifton
BERRIEN
ATKINSON
COOK
LANIER
WARE
CLINCH
Valdosta
LOWNDES
ECHOLS
MADISON
HAMILTON
COLUMBIA
SUWANNEE
Nashville
Adel
Lakeland
Homerville
Quitman
Madison
Jasper
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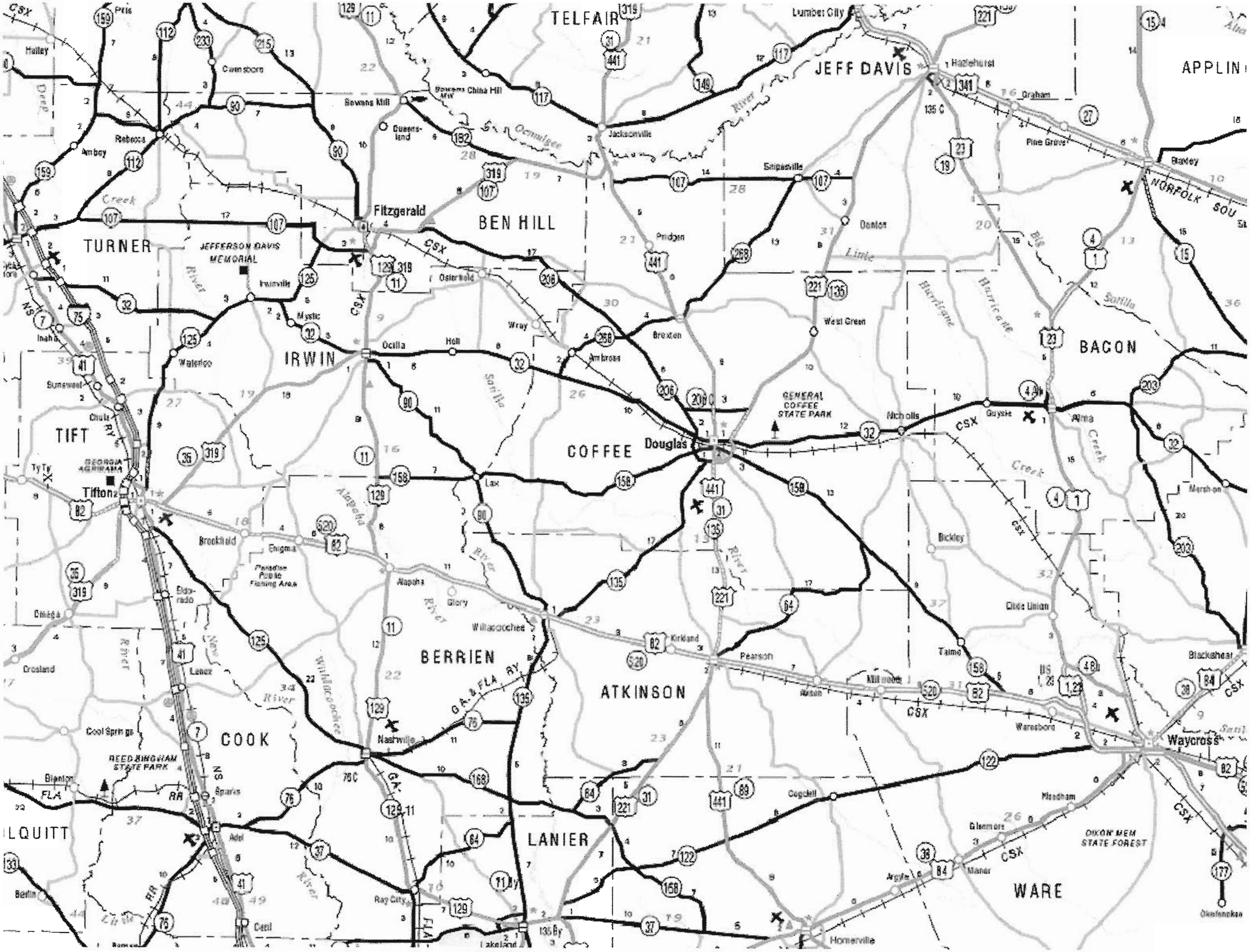
TELFAIR
JEFF DAVIS
APPLING
TURNER
BEN HILL
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Willacoochee
Alapaha
Enigma
Brookfield
Lax
Nicholls
Broxton
Ambrose
Sparks
Ray City
Sumner
JEFFERSON DAVIS MEMORIAL
GENERAL COFFEE STATE PARK
REED BINGHAM STATE PARK
DIXON MEM STATE FOREST
GEORGIA AGRIRAMA

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

2006 GEORGIA TOBACCO TOUR

Agri Supply of Tifton & Statesboro

Ag South Farm Credit

Bayer Crop Science

Big Indepentdent Warehouses

Carolina Soil Company, Inc.

Chemtura Corporation

Cross Creek Seeds, Inc.

Dow AgroSciences

Drexel Chemical Company

Georgia-Pacific / Nitamin

Georgia Tobacco Commission

Gold Leaf Seed Co.

Helena

Horizon Ag Products

Leasing Unlimited - Lee Dukes

Marco Manufacturing Co., LLC

Powell Manufacturing Co., LLC

Profigen / F.W. Rickard Seeds

Quality Tobacco Exchange, Inc.

Royster Clark / Rainbow

Speight Seed Farm, Inc.

Syngenta

Valent USA

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
P.O. Box 1209, Tifton, GA 31793-1209 PH: 229-386-3006 FAX: 229-386-7308

SCHEDULE - 2006 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 12, 2006

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

6:30 pm - Social - Columbia County Extension Office - Lake City, FL

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 13, 2006

7:30 am - Leave Holiday Inn parking lot.

7:50 am - Arrive K. O. Dicks Farm - Columbia County
(Released Varieties Demonstration)
- Bill Thomas, County Extension Agent

9:00 am - Arrive Kenneth Dasher Farm - Suwannee County

9:40 am - Arrive Sidney and Jack Lord Farm - Suwannee County

11.00 am - Arrive Deas Brothers Farm - Hamilton County
- Allen Tyree, County Extension Director

11:30 am -SPONSORED LUNCH -
Deas Pond House
- lunch Courtesy of: Reed & Ryan Moore, Big Independent Warehouses

12:45 pm - Leave **Deas Pond House**

Tuesday, June 13, 2006 (continued)

1:10 pm - Arrive Herring Plots - Lowndes County
(Provado 1.6 F / Admire Pro 4.6SC on Bed Plants)
(Provado 1.6 F / Admire Pro 4.6SC Actigard WG on Bed Plants)
- Mickey Fourakers, County Extension Coordinator
- Jake Price, County Extension Agent

2:15 pm - Arrive Paul Folsom Plot - Lanier County
(Regional Variety Farm Test)
- Elvin Andrews, County Extension Coordinator

3:00 pm - Arrive David Hendley Plot - Berrien County
(Imidacloprid Formulation For TSWV Suppression)
- Elvin Andrews, Lanier County Extension Coordinator

3:50 pm - Arrive Wayne McKinnon Plot - Coffee County
(Effect of Rate of Admire Pro on Spotted Wilt)
- Eddie McGriff, Coffee County Extension Coordinator

5:00 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 - Rural Development Center, University of Georgia,
Tifton Campus, (RDC Rd. off Hwy 41 at I-75, Exit 64).

- SPONSORED DINNER -
Courtesy of the Georgia Tobacco Commission

7:00 pm - Supper - Rural Development Center, University of Georgia,
Tifton Campus, (RDC Rd. off Hwy 41 at I-75, Exit 64).

Wednesday, June 14, 2006

7:30 am - Leave Holiday Inn parking lot.

7:45 am - arrive Black Shank Nursery - Coastal Plain Experiment Station
- Alex Csinos, Pathologist
- Lewis Mullis, Research Technician

8: 30 pm - arrive Bowen Farm - Coastal Plain Experiment Station

Bob McPherson,
- Entomologist
Tobacco Entomology Research Projects

Alex Csinos,
- Pathologist
TSWV Management

Claudia Nischwitz
- Postdoctoral Associate

Steve Mullis,
- Virology Lab Technician

Mike Stephenson,
- Research Coordinator
Regional Variety Small Plot Test
Georgia Official Variety Test

Bryan Maw,
- Engineer
Near Infrared as a Diagnostic Tool for Tomato Spotted Wilt Virus

J. Michael Moore,
- Extension Agronomist - Tobacco
Sidedress Nitrogen Fertilizer Source Demonstration
Transplant Water Fertilizer Demonstration

11:30 pm - SPONSORED LUNCH -

12:30 pm - Leave CASE Farm and Ocilla

1:30 pm - Arrive James & Keith Harrell Farm - Coffee County
(Timing Field Applications of Actigard)
- Eddie McGriff, County Extension Coordinator

2:30 pm - Arrive Jerry Wooten Farm - Jeff Davis County
(Imidicloprid Source and Rates Test)
- Tim Varnedore, Jeff Davis County Extension Coordinator

Wednesday, June 14, 2006 (continued)

3:15 pm - Arrive Kenneth Williams Farm - Jeff Davis County
(Imidicloprid source and rates test; Imidicloprid Rinse-off rates)
- Tim Varnedore, Jeff Davis County Extension Coordinator

4:15 pm - Arrive David Lee Farm - Bacon County
(Regional Tobacco Variety Farm Test)
- Danny Stanaland, Bacon County Extension Coordinator

5:00 pm - Arrive Mixon Farm - Ware County
(Released Tobacco Variety Test)
- James Jacobs, Ware County Extension Coordinator

5:30 pm - Check-in Holiday Inn, Waycross, GA 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.

THIS IS THE END OF
THE 2006 GEORGIA-FLORIDA TOBACCO TOUR
HAVE A SAFE TRIP HOME !

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COOPERATIVE EXTENSION
Colleges of Agricultural and Environmental Sciences & Family and Consumer Sciences
P.O. Box 1209, Tifton, GA 31793-1209 PH: 229-386-3006 FAX: 229-386-7308

DIRECTIONS FOR 2006 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 12

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.
Phone: (386) 752-5384

Tuesday, June 13

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

	*	Right out of Holiday Inn onto Commerce Blvd.
0.1		Right on US 90 (stay in Rt 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		Rt into field
		(K. O. Dicks Farms)

Tuesday, June 13

Mileage	Directions (* - indicates traffic assistance needed)
0.9	Rt on SW Jim Witt Rd (Leaving K. O. Dicks Farm)
1.4	Rt on CR 240
	Overpass I-75
	Cross Tustenuggee Ave. (CR 131)
4.4	Cross SR 47
5.8	Cross SR 247 (Flashing Light)
1.7	Rt on CR 137
7.2	Left on CR 252 (Blinking Light)
3.9	Cross CR 49
2.1	Tobacco on left at 87th Rd.
	Kenneth Dasher Farm
2.4	Right on 252 at stop sign
1.2	Left onto 252
5.0	Cross 349
1.5	Right on 165th Rd
1.7	Right into field at end of tobacco
	(Sidney & Jack Lord Farm)
	Right out of Lord Farm on 165th Road
0.1	Right onto Hwy 51
8	Right on 135/51
	Left on 129/10A
	Left on US 90
	Right on 705
	Right on 6
	Left onto 146 at the S & S
	Cross CR 141
	Right at sharp curve
	Pond House on the Right
	Deas Brothers Farm

Tuesday, June 13 (continued)

Mileage		Directions (* - indicates traffic assistance needed)
		Right on CR 146
0.2		Left at intersection on CR 146
1.75		Right at stop sign on CR 143
		Cross CR 152 at caution light
6.0		Left onto I-75 North
4.0		Right off I-75 at Exit 2 on Lakes Blvd
2.9		Right onto 41 South to 376 East
0.1		Left on 376 E
2.2		Left onto Corbett Rd (dirt)
0.7		**Left into field (Herring Farm TSWV Plots)**
		Right out of field onto Corbett Road
0.7		Left onto 376 East
5.0		Left onto GA Hwy 135
12.3	*	Cross Hwy 84 / Hwy 38 at Naylor
9.4	*	Left at stop sign in Lakeland on onto 37 / 129
0.3		Right on Hwy 11 ByPass
0.1		Cross Church Street
2.3		Right into field road at UGA Tobacco Plot Sign
		Paul Folsom Test (Regional Variety Farm Test)
		Right out of field road onto State Hwy 11 ByPass
4.1		Right at Teeterville onto S.R. 64
5		Left onto 135
2		Cross Hwy 168
8		Right onto Canopy Rd (dirt)
0.5		Left onto Riverside Road (dirt)
0.2		Right onto Lacy Gaskins Road
0.2		**David Hendley Plot on the left (TSWV products demo)**
		Return in opposite direction on Lacy Gaskins Road
		to Bannockburn on Riverside Road
1		Right onto 135 to Peterson Street in Willacochee
5		Right onto Hwy 82 in Willacochee
1		Left onto Hwy 135 toward Douglas
15		Right onto Harvey Vickers Rd
1		Left onto Hwy 441
0.5		Left across from the Chevy Dealer onto a dirt road at the church
0.25		Between chicken houses to plot
		Wayne McKinnon Farm (TSWV plot)

Tuesday, June 13 (continued)

Mileage	Directions (* - indicates traffic assistance needed)
	Return to Hwy 441 from plot
	Right on Hwy 441
	Right onto Harvey Vickers Rd
	Left onto Hwy 135
	Right onto Hwy 82
	Cross Hwy 41 in downtown Tifton
	Under I-75
	Left into Holiday Inn of Tifton

Wednesday, June 14

Mileage	Directions (* - indicates traffic assistance needed)
	* Left out of Holiday Inn onto Hwy 82 West
	* Right onto Carpenter Rd
	Cross King Street at light
	Cross at Whiddon Mill Road at light
	Right at Rainwater Road
	Right on Entomology Drive to back of horticulture plot area to
	UGA Black Shank Nursery
	Left out of Entomology Drive onto Rainwater Road
	Cross Thornhill Drive
	Left onto Carpenter Road
	Cross at Whiddon Mill light
	Cross at King Street light
	Left onto Hwy 82 East
	Go through Tifton on Hwy 82 East through traffic lights at
0.1	WalMart
0.1	CR 326
0.2	Southbound I-75
0.2	Northbound I-75
0.2	Virginia Avenue
0.1	Magnolia Avenue
0.6	Ridge Avenue
0.2	Central Avenue
	Cross RR
0.1	Commerce Avenue
0.2	Main Street

Wednesday, June 14 (continued)

Mileage		Directions (* - indicates traffic assistance needed)
0.1		Tift Avenue
1.3		Left onto Hwy 319 North toward Ocilla (acrosss 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		Right onto Hwy 319
9.8		Right at light in Ocilla onto Hwy 129 South
0.6	*	Left onto Hwy 90 tooward Lax across from Ocilla Community House
		Right onto CR 6 to CASE Farm at Irwin County High School
		Left at CASE Farm sign
		Right into CASE Farm drive
		LUNCH
		Right out of CASE Farm onto CR 6
		Right at Stop sign to 90 to LAX
11.5		Left at LAX onto Hwy 158
18.0		Cross 206 and go through Douglas
2.0		Left on Hwy 221
1		Cross RRX
1.0		Right onto Hwy 32 toward Nichols
12		Left at light in Nichols onto Hwy 64 (Somerset Rd)
6.3		Right between house and barn
		Harrell Farm (TSWV Plot)
		Right out of barn yard onto Hwy 64/ (Somerset Rd)
1.8		Right onto John Moore Rd
0.6		Left on Moore Rd to West Green
2.9		Right at stop sign in West Green onto 221/135
7.7		Left onto Alabama Street across from blue Denton Deli
4.8		Cross 268 East
1.7		**Jerry Wooten Farm (TSWV Plot on Right)**

Wednesday, June 14 (continued)

Mileage		Directions (* - indicates traffic assistance needed)
0.3		From Wooten Plot, Right onto W.H. Smith Rd
1.7		Right onto Hwy 107
2.9		Left ontoHazelhust Road
11.4		Cross Tallahassee St at light in Hazlehurst
		Cross through second stop light
1.9		Right onto Tobacco Road (dirt)
1.6		Left into Kenneth Williams house drive at UGA Tobacco Plot sign
		Kenneth Williams Farm (TSWV Plot)
		Left out of drive
2.0		Cross dirt road onto paved road
0.3		Right onto Alma Hwy
13.5		Right onto US 1 at stop sign
		Cross through three stop signs
		Right onto Floyd Steet
0.4		Left onto Hwy 64
2.7		Right into David Lee Farm drive (across from blueberry packing shed)
		David Lee Farm (Regional Variety Farm Test)
		Left out of field drive
2.7		Right onto Floyd Street to stop sign
0.3		Right onto US 1 toward Waycross
15		Right at Pebble Hill onto Scapa Dryer Rd, 1/23/4
3.7		Left onto Hwy 82
2		Right onto Hwy122
3.4	*	Left onto South O.E. McDonald Rd.
0.9		**Mixon Farms Plot on Left (Released Varieties Demonstration)**
		Return to Hwy 122
0.9		Right onto Hwy 122
3.4		Right onto Hwy 82 West and through Waycross
3.7	*	Right into Holiday Inn off Hwy 82 at US 1
		Check-in Holiday Inn
		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

THIS IS THE END OF
THE 2006 GEORGIA-FLORIDA TOBACCO TOUR
HAVE A SAFE TRIP HOME !

Released Tobacco Variety Demo Trial – 2006

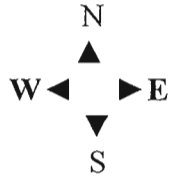
K.O. Dicks Farm

Lake City, Florida

Bill Thomas, Columbia County Extension Agent

12	11	10	9	8	7		6	5	4	3	2	1
SPT. 234	**SPT. 210**	**RX 118**	**CC 27**	**NC 299**	**NC 291**		**GL 350**	**NC 102**	**NC 297**	**NC 471**	**K 326**	**NC 71**
10%	7%	5%	6%	12%	8%		17%	11%	12%	7%	7%	9%

Tomato Spotted Wilt Virus Infection Rate – May 30, 2006.



Transplanted: **April 7, 2006**

Plot Size: **Two rows per Variety**

The first 30 feet of Variety Number 1. (NC 71) was substituted with K 326.

2006

THE EFFECT OF IMIDACLOPRID FORMULATION AND APPLICATION METHOD ON SPOTTED WILT; PROVADO 1.6 F / ADMIRE PRO 4.6SC ON BED PLANTS

HERRING FARM
LOWNDES COUNTY, GEORGIA

MICKEY FOURAKERS AND JAKE PRICE, COUNTY EXTENSION AGENTS

1. = **PROVADO 1.6 F** (6.5 oz/10,000 PLANTS) Sprayed on Bed 12 Hrs Before Transplant
2. = **ADMIRE PRO** (1.1 oz/1,000 PLANTS) Mixed in Transplant Water
3. = **PROVADO + ADMIRE PRO**
4. = **UNTREATED CHECK**

IN THE MAP EACH ROW OF ***** = 4 ROWS OF TOBACCO

[<---------- ~400'---------->]
[<--- ~100'-->]
********** 4 GUARD ROWS **********

****** 1 ****** ****** 2 ****** ****** 3 ****** ****** 4 ******
****** 3 ****** ****** 1 ****** ****** 4 ****** ****** 2 ******

****** 4 ****** ****** 3 ****** ****** 2 ****** ****** 1 ******
****** 2 ****** ****** 4 ****** ****** 1 ****** ****** 3 ******

********** 4 GUARD ROWS **********

	% SPOTTED WILT (WEEKS AFTER TRANSPLANT)				
TREATMENT	**2**	**4**	**6**	**8**	**10**
1. Provado on Beds Pink 482 plants	1	12.2	17.4	20	
2. Admire Pro in Trnsplnt Water Blue 492 plants	0	10	19	23	
3. Provado on Beds + **Admire Pro in Trnsplnt Water** Yellow473 plants	0.42	7.4	12	15	
4. Untreated Green 482 plants	1.03	15.8	27	29	

2006

THE EFFECT OF IMIDACLOPRID FORMULATION AND APPLICATION METHOD ON SPOTTED WILT; PROVADO 1.6 F / ADMIRE PRO 4.6SC / ACTIGARD WG ON BED PLANTS

HERRING FARM
LOWNDES COUNTY, GEORGIA

MICKEY FOURAKERS AND JAKE PRICE, COUNTY EXTENSION AGENTS

1. = **ACTIGARD 50 WG** (1.0 oz/100,000 PLANTS) on beds
2. = **ACTIGARD 50 WG** on beds + **ADMIRE PRO** (1.1 oz/1,000 PLANTS) in Transplant Water
3. = **CHECK PROVADO 1.6 F** (6.5 oz/10,000 PLANTS) + **ADMIRE PRO** (1.1 oz/1,000 PLANTS)
4. = **UNTREATED**

IN THE MAP EACH ROW OF ***** = 4 ROWS OF TOBACCO

[<---------- ~400'---------->]
[<--- ~100'-->]
********** 4 GUARD ROWS **********

****** 1 ****** ****** 3 ****** ****** 2 ****** ****** 4 ******
****** 2 ****** ****** 1 ****** ****** 4 ****** ****** 3 ******
****** 4 ****** ****** 2 ****** ****** 3 ****** ****** 1 ******
****** 3 ****** ****** 4 ****** ****** 1 ****** ****** 2 ******

********** 4 GUARD ROWS **********

	% SPOTTED WILT (WEEKS AFTER TRANSPLANT)				
TREATMENT	**2**	**4**	**6**	**8**	**10**
1. Actigard on Beds Pink 493 plants	1.4	16	25	29	
2. Actigard on Beds + **Admire in Transplant Water** Blue 493 plants	0.6	9	17	22	
3. Provado on Beds + **Admire in Transplant Water** Yellow 510 plants	0.6	9	15	19	
4. Untreated Green 505 plants	1.0	13	21	27	

UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
2006 TOBACCO ON-FARM DEMONSTRATION

Title of Demonstration: REGIONAL VARIETY FARM TEST

Farmer Name/Address: PAUL FOLSOM
LAKELAND, GA PH: 229 482 3340 County: LANIER

Specialist Responsible: J. MICHAEL MOORE

Agent: ELVIN ANDREWS Plot Size: 4 (46") ROWS X 710"

Variety: AS PER TREATMENTS Soil Type: TIFTON Date Transplanted: 4/22/5

Crop History: 2004; COTTON 2003; TOBACCO

Herbicide/Rate: PPI; 1QT PROWL/A

Fungicides/Rate: Nematicides/Rate: MOCAP 1.75 GAL/A

Soil Insecticide/Rate: LORSBAN; 1.25 QT/A, ACTIGARD; 1 OZ/120,000 PLTS
ADMIRE; 1.8 OZ/1000 PLANTS IN PLANT HOUSE
ADMIRE: 7 OZ/A IN TRANSPLANT WATER
ORTHENE 97S: 0.75 LB IN TRANSPLANT WATER

Foliar Insecticide/Rate:

Date: 5/5/05	Insect: BUDWORMS	Insecticide: ORTHENE	Rate: 0.75 LB/A
Date: 5/11/05	Insect: BUDWORMS	Insecticide: ORTHENE	Rate: 1.0 LB/A
Date: 6/2/05	Insect: BUDWORMS	Insecticide: TRACER	Rate: 2 OZ/A

Fertility Program: AT PLANTING 5 LB/A 12-48-8 IN TRANSPLANT WATER

Post Plant:	Analysis: 6-6-18	lb/A: 675	Date: 5/11/05
Post Plant:	Analysis: 6-6-18	lb/A: 340	Date: 5/26/05

Rainfall: April: 1.1" May: June:

Irrigation: Amount; April: 0.8" May: June:

Sucker Control:
Material; Rate/Acre; Date;

2006 REGIONAL VARIETY FARM TEST
PAUL FOLSOM
LANIER COUNTY

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

			DISEASE RESISTANCE					
Trt No	**VARIETY**	**PEDIGREE**	**BS**	**GW**	**FW**	**RKN**	**BN SP**	**TMV**
1.	NC 2326	(Hicks X 9102)(Hicks) Hicks)Hicks)	L	SU	M			
2.	NC 95	(C-139 X Bel. 4-30) X (C-139 X Hicks)	L	H	M	R		
3.	OX 1117	(K 326 X OX 2022)	R	R		R		
4.	NC TG 138	Hybrid	R	R		TCN/R		
5.	CU 87	(SPT 168 X PD 474)						
6.	RX 409	Hybrid	R	R		TCN/R		
7.	RX 452	Hybrid	R	R		TCN/R		
8.	Spt 240	(SP 168 X SP 190)(SP 168 X SP 117)	R	R		R		
9.	ULT 219							
10.	RJR 37	Hybrid	R	R		TCN/R		TMV
11.	Spt 229	(K 149 X SP 117)(K 149 X SP 151)	R	R	R	R		
12.	XP 257	Hybrid	R			R		
13.	XP 201	Hybrid	R	R		R		
14.	CU 105	SPT 68 X PD 474						

[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; BNSP - Brown Spot; TMV- Tobacco Mosaic Virus; TEV-Tobacco Etch Virus; PVY- Potato Virus Y

2006

IMIDACLOPRID FORMULATION FOR TSWV SUPPRESSION

DAVID HENDLEY - WILLACOOCHEE (BERRIEN CO.)

FORREST CONNELLY, BERRIEN COUNTY EXTENSION COORDINATOR

338 CELLS/TRAY X 12 TRAYS = 4056 TRAY CELLS/TREATMENT
TREATED: 28 MARCH 2006
SET: 30 MARCH 2006

DO NOT APPLY ACTIGARD TO TEST PLANTS
TREATMENTS: (APPLIED AS A SPRAY-ON/RINSE-OFF TRAY DRENCH)
1. = BLUE = ADMIRE PRO (4.6 lb/gallon) @ 0.66 oz = 19.5 ml / 1,000 TRAY CELLS
2. = PINk = TRIMAX (4 lb/gallon) @ 0.75 oz = 22.2 ml /1,000 TRAY CELLS
3. = WHITE = ALIAS 2F (2 lb/gallon) @ 1.5 oz = 44.3 ml / 1,000 TRAY CELLS
4. = GREEN = UNTREATED CHECK

IN THE MAP EACH ROW OF ***** = 4 ROWS OF TOBACCO

[<---------- 400'---------->]
[<----100'--->]
********** FIELD CONTINUES **********

****** 1 ****** ****** 2 ****** ****** 3 ****** ****** 4 ******
****** 3 ****** ****** 1 ****** ****** 4 ****** ****** 2 ******

****** 4 ****** ****** 3 ****** ****** 2 ****** ****** 1 ******
****** 2 ****** ****** 4 ****** ****** 1 ****** ****** 3 ******

********** FIELD CONTINUES **********

2006

THE EFFECT OF IMIDACLOPRID FORMULATION ON SPOTTED WILT

FORREST CONNELLY, BERRIEN COUNTY EXTENSION COORDINATOR

	% SPOTTED WILT (WEEKS AFTER TRANSPLANT)				
TREATMENT[1]	2	4	6	8	10
UNTREATED	0.4	6.8	26.9	46.8	49.4
TRI-MAX 4F	0.2	2.4	12.1	31.3	34.2
ALIAS 2F	0.2	2.3	15.9	31.5	34.0
ADMIRE PRO 4.6 F	0.0	1.3	13.2	27.7	31.5

[1] All treatments were applied as a spray-on/rinse-off tray drench with 10.6 grams a.i. imidacloprid/1,000 tray cells.

2006 ADMIRE PRO 4.6SC RATE TRIALS
EDDIE MCGRIFF, COFFEE COUNTY EXTENSION COORDINATOR
WAYNE McKINNON
242 CELLS/TRAY X 12 TRAYS = 2904 TRAY CELLS/TREATMENT
TREATED: 10 APRIL 2006, (VAR. = NC-71)
SET: 11 APRIL 2006 (4lb/a 12-48-8 POP-UP IN TPW)

1. = Bk = ADMIRE TRAY DRENCH (0.22 oz = 6.5 ml/1000 CELLS)
2. = Or = ADMIRE TRAY DRENCH (0.44 oz = 13.0 ml/1000 CELLS)
3. = Wt = ADMIRE TRAY DRENCH (0.66 oz = 19.5 ml/1000 CELLS)
4. = Si = ADMIRE TRAY DRENCH (0.88 oz = 26.0 ml/1000 CELLS)
5. = Gr = ADMIRE TRAY DRENCH (1.10 oz = 32.5 ml/1000 CELLS)
6. = Yw = CK = UNTREATED

IN THE MAP EACH ROW OF ***** = 4 ROWS OF TOBACCO

[<---------- 940'---------->]
[<- ~120'->]30'[
********** FIELD CONTINUES**********
*** 0.22 *** *** 0.44 *** *** 0.66 *** *** 0.88 *** *** 1.10 *** **** CK ***
*** CK **** *** 0.88 *** *** 0.22 *** *** 1.10 *** *** 0.66 *** *** 0.44 ***
*** 0.66 *** *** 1.10 *** **** CK *** *** 0.44 *** *** 0.88 *** *** 0.22 ***
*** 0.88 *** **** CK *** *** 0.44 *** *** 0.66 *** *** 0.22 *** *** 1.10 ***
*** 1.10 *** *** 0.22 *** *** 0.88 *** **** CK *** *** 0.44 *** *** 0.66 ***
*** 0.44 *** *** 0.66 *** *** 1.10 *** *** 0.22 *** **** CK **** *** 0.88 ***
********** 4 GUARD ROWS**********

NOTE: ACROSS THE PIVOT LANE (EAST SIDE OF PLOT) ARE SEVERAL ACRES OF BURNED DOWN MIXED VEGETATION. THE ROUND-UP WAS APPLIED TWO EXACTLY WEEKS (30 MARCH) BEFORE THE PLOT WAS TRANSPLANTED. NUMEROUS VOLUNTEER PEANUTS HAVE DEVELOPED IN THE PLOT DURING THE TWO WEEKS SINCE TRANSPLANT.

EFFECT OF RATE OF ADMIRE PRO ON SPOTTED WILT

TREATMENT (OZ/1,000 TRAY CELLS)	McKINNON FARM[1]		ALDRIDGE FARM[2]	
	% STAND	% SPOTTED WILT (AT 8 WEEKS)	% STAND	% SPOTTED WILT (AT 8 WEEKS)
CHECK (0.00)	93.2	60.8	88.5	71.5
0.22	96.4	48.9	91.4	63.2
0.44	96.0	43.2	90.2	55.5
0.66[3]	**96.4**	**38.7**	**88.1**	**51.8**
0.88[3]	**95.3**	**36.4**	**88.6**	**46.8**
1.10	96.8	36.2	87.7	49.3

[1] Plants treated 10 April 06 and transplanted 11 April 06.
[2] Plants treated 7 April 06 and transplanted 11 April 06.
[3] These are the recommended rates at Admire Pro.

Vol. 6 June 9, 2006

The Tobacco Patch

A NEWSLETTER FOR TOBACCO FARMERS

The University of Georgia
Cooperative Extension Service
College of Agricultural and
Environmental Sciences

In This Issue

This newsletter published by:
Coffee and Atkinson County Extension Offices
709 E. Ward St.
Douglas, GA 31533
(912) 384-1402

Putting Knowledge to Work

D. Eddie McGriff
Coffee Co. Extension Coordinator

Mark von Waldner
Atkinson Co. Extension Coordinator

STRIP-TILL TOBACCO AT NATHAN HENDERSON'S

STRIP-TILL TOBACCO MAY BE THE KEY TO REDUCING TOMATO SPOTTED WILT VIRUS IN TOBACCO

We have been working closely with Dr. Paul Bertrand, UGA Extension tobacco pathologist, at Nathan Henderson's on the effects of strip tillage tobacco in reducing tomato spotted wilt virus (TSWV). The results this year are impressive in the reduction of TSWV in the strip-till tobacco compared to the conventional tillage plots. The plots where the transplants were treated in the greenhouse with Actigard + Admire and planted in conventional tillage had 15 % TSWV compared to just 2.2% in the Actigard + Admire treated transplants in strip-tillage. The tobacco plants not treated with Actigard + Admire in the greenhouse had 28.8% TSWV in the conventional tillage plots compared to 8% TSWV in the plants not treated with Actigard + Admire in the strip-till plots. In these plots strip tillage had more of an impact in reducing TSWV than Actigard + Admire (15% TSWV in the conventional plots treated with Actigard + Admire compared to 8% TSWV in the untreated strip-till plots).

In 2004 we had similar results in the strip-till plots at Nathan's. The transplants treated with Admire in the greenhouse and planted in conventional tillage had 28.7% TSWV compared to 20.2% in the strip tillage with the Admire

treated plants. The untreated plants had 53.5 % TSWV in the conventional tillage compared to 26.9% in the strip tillage. We did not conduct this research in 2005 due to the uncertainty of tobacco production because of the elimination of the tobacco program and uncertainty of tobacco contracts.

Research has shown there is a dramatic reduction in the number of thrips in conservation tillage peanuts and cotton compared to conventional tillage and a reduction in TSWV in strip-till peanuts compared to conventional tillage peanuts. Researchers believe the cover in conservation tillage disrupts the thrips ability to find the plants compared to plants planted in bare ground.

We will be working with Nathan Henderson, Dr. Bertrand and Paul Sumner, UGA Extension engineer, and conservation equipment makers this fall in refining cultural practices and equipment for conservation tillage tobacco. We would like to thank Nathan for all his hard work and knowledge in this research. We wouldn't be as far along in strip tillage if it wasn't for him being willing to try an unproven method of tobacco production . We have learned much, such as it being critical to pre-water before transplanting in strip tillage (our stands were not suitable watering after transplanting). **Anyone interested in having a strip tillage versus conventional tillage tobacco trial next year should contact our office at 912-384-1402.**

BURNDOWN SPRAYS MAY HAVE AN IMPACT ON TSWV INCIDENSE IN TOBACCO

Dr. George Kennedy's, North Carolina State entomologist, research has shown that the timing of burndown sprays has an impact on the dispersal of thrips from weeds to crops. Thrips are always leaving winter weeds in small numbers. His research has shown that when weeds are sprayed with glyphosate (Roundup) thrips continue to leave the weeds in small numbers for 7-10 days until about the time the tips of the weeds start to go limp and the weeds start to yellow. At this time the number of thrips leaving increases tremendously and stays high for 2-3 weeks. The reason this occurs is the adults begin to leave immediately once the weeds start to wilt but as the thrips eggs hatch and the juvenile thrips develop there is enough nutrition in the dying weeds for the young thrips to become adults and develop wings and leave. There will be no third generation of thrips as these weeds die and few thrips eggs are laid on the dying weeds. What few eggs are laid, the juvenile thrips will have nothing to feed on.

Growers need to keep in mind that if they are going to plant tobacco in the first weeks of April nearby fields need to be burned down no later than the first week of March to prevent high numbers of thrips migrating from these fields to newly transplanted tobacco fields. The higher the number of thrips migrating to a tobacco field the greater the probability of TSWV severity.

FOLIAR ACTIGARD SPRAYS SHOWING LITTLE BENEFIT

There has been no significant difference in the foliar sprays of Actigard sprays so far this year (latest rating taken at lay-by) at the Harrell and Metts farms in Coffee County. At the Harrell farm the transplants treated in the greenhouse with Actigard + Admire in the greenhouse and then foliar sprayed with Actigard two weeks after transplanting had 24% TSWV compared to the 28% TSWV in Actigard + Admire treated transplants with no foliar Actigard spray. The transplants that were not treated with Actigard + Admire in the greenhouse had 70% TSWV with the foliar Actigard spray compared to 75% TSWV with no foliar Actigard spray. At the Metts farm the transplants treated with Actigard +Admire in the greenhouse and then foliar sprayed with Actigard two weeks later had 12.5% TSWV compared to 15.4% TSWV in Actigard + Admire treated transplants and no foliar Actigard spray.

Tobacco Rotation Study, 2005
Blackshank Nursery
2005 Fall*, 2006 Spring, AND 2006 Fall

Rep IV	403A	403B	401A	401B	SKIP ROW	406B	406A	404B	404A	SKIP ROW	402A	402B	405A	405B
	25' ALLEY					25' ALLEY					25' ALLEY			
Rep III	305B	305A	304B	304A		303A	303B	301A	301B		306B	306A	302B	302A
	25' ALLEY					25' ALLEY					25' ALLEY			
Rep II	204B	204A	206B	206A		201A	201B	205A	205B		203B	203A	202A	202B
	25' ALLEY					25' ALLEY					25' ALLEY			
Rep I	101A	101B	105A	105B		103A	103B	102B	102A		104B	104A	106B	106A

Plot size = 32ft X four rows with four replications, 25ft alley

Treat	2005 Fall	2006 Spring*	2006 Fall
1	Grain (Wheat)	Tobacco	
2	Brassica (Mustard)	Tobacco	
3	Grain (Wheat)	Tobacco	
4	Brassica (Mustard)	Tobacco	
5	Grain (Wheat)	Tobacco	
6	Brassica (Mustard)	Tobacco	

Each treatment plot is four rows split into two 2 row sub-plots, (2 rows non-treated(A) and 2 rows Ridomil treated(B) in 2005 Tobacco)

Tobacco Rotation Study, 2005
Blackshank Nursery
2005 Fall*, 2006 Spring, AND 2006 Fall

Rep IV	403A	403B	401A	401B	SKIP ROW	406B	406A	404B	404A	SKIP ROW	402A	402B	405A	405B
	25' ALLEY					25' ALLEY					25' ALLEY			
Rep III	305B	305A	304B	304A		303A	303B	301A	301B		306B	306A	302B	302A
	25' ALLEY					25' ALLEY					25' ALLEY			
Rep II	204B	204A	206B	206A		201A	201B	205A	205B		203B	203A	202A	202B
	25' ALLEY					25' ALLEY					25' ALLEY			
Rep I	101A	101B	105A	105B		103A	103B	102B	102A		104B	104A	106B	106A

Plot size = 32ft X four rows with four replications, 25ft alley

Treat	2005 Fall	2006 Spring*	2006 Fall
1	Grain (Wheat)	Tobacco	
2	Brassica (Mustard)	Tobacco	
3	Grain (Wheat)	Tobacco	
4	Brassica (Mustard)	Tobacco	
5	Grain (Wheat)	Tobacco	
6	Brassica (Mustard)	Tobacco	

Each treatment plot is four rows split into two 2 row sub-plots, (2 rows non-treated(A) and 2 rows Ridomil treated(B) in 2005 Tobacco)

Regional Small Plot Test, 2006
Black Shank Farm, Block 1240, Tifton, GA

SKIP ROW	REP I									SKIP ROW	REP II									SKIP ROW	SKIP ROW	REP III								
	139	117	123	113	134	129	107	125	x		204	216	226	223	212	219	202	209	x			304	324	318	310	340	306	302	336	x
	10' ALLEY										10' ALLEY											10' ALLEY								
	110	128	106	120	138	103	132	109	x		211	228	208	239	236	232	225	206	x			314	330	308	329	315	320	326	312	x
	10' ALLEY										10' ALLEY											10' ALLEY								
	131	140	124	101	102	122	111	119	x		221	214	231	241	205	222	218	229	x			327	332	334	305	337	322	317	341	x
	10' ALLEY										10' ALLEY											10' ALLEY								
	104	136	126	118	133	114	141	105	x		237	201	233	235	240	238	213	215	x			307	338	301	328	319	339	303	333	x
	10' ALLEY										10' ALLEY											10' ALLEY								
	121	108	130	112	135	127	116	137	115		207	224	220	230	210	217	227	234	203			316	321	311	309	325	331	313	323	335

Plot Size; 32 ft. X One Row Date Planted :

Regional Small Plot Varieties

1. NC 2326
2. NC 95
3. K 326
4. CU 34
5. RJR 35
6. RX 568
7. CC 67
8. CU 37
9. RJR 38
10. RX 566
11. RJR 18
12. NC TG 144
13. RX 493
14. NC TG 146
15. NC EX 03
16. NC EX 02
17. CC 33
18. XP 632
19. GF 52
20. NC EX 05
21. RX 576
22. NC TG 145
23. XP 259
24. ULT 138
25. RX 596
26. ULT 109
27. RJR 15
28. NC TG 143
29. RJR 65
30. XP 269
31. NC EX 09
32. CU 98
33. XP 267
34. CU 96
35. CU 6
36. XP 268
37. NC EX 04
38. AOV-301
39. AOV-506
40. 1071
41. K346

X = Fill-in

Revised 02-20-06

Black Shank Race Identification Method,
Black Shank Farm, UGA CPES, Tifton, Ga.

A.S.Csinos, Plant Pathologist-UGA
L.L.Hickman, Plant Pathology- UGA
L.Mullis, Plant Pathology- UGA

Introduction

Tobacco Black Shank continues to be a serious soil borne disease on tobacco in Georgia. The management of this disease is complicated by the fact that we have a shift in Black Shank races, from race 0 to race 1, as new cultivars with race 0 resistance is being planted. Race 1 will kill all commercial varieties. This study examines the race structure in a disease nursery and on some farms in Southern Georgia.

Materials and Methods

The test site was located at the Black Shank Farm, CPES, Tifton, GA in a field with a history of tobacco, peanuts, and assorted vegetables. Each plot was 500 feet in length with two replications Five different test cultivars were planted; K326, 1071, NC71, Coker 371 Gold and KY14xL8 for a total of ten rows.

Tobacco cultivars were seeded in the greenhouse 02 March. On 08 March 2005 the test area was prepared using all current University of Georgia Extension Service recommendations. On 14 March, a 4-8-12 fertilizer was broadcast at a rate of 500 lbs/A. On 22 March, Prowl 3.3 (2.1pts/A), Lorsban 4E (3qts/A), Nemacur 3 (1 gal/A), and Mocap 6E (1 gal/A) was applied to test area and tilled in. The area was sub soiled and bedded on 25 April. Greenhouse float plants were treated with Admire 2F (2.8) floz/1000 plants) and Actigard 50WG 4 grams of material (2g ai/7000 plants) on 20 April and then transplanted on 27 April on 48-inch rows with an 18-inch plant spacing.

Plots were cultivated and side dressed with 4-8-12 fertilizer at 500 lbs/A on 03 and 27 May and 10 June. Calcium nitrate 15.5-0-0 was side dressed at 120 lbs/A on 13 May,
90 lbs/A on 27 May, 200 lbs/A on 10 June. A hand application at 150 lbs/A was made on 20 July.

Insecticides were applied as follows: Orthene 97 (90.773 lbs/A) on 12 May, 15 June, 06 July, 03 August. Avaunt (3.5 dryoz/A) on 02 June, 13 and 19 July.

Samples were submitted by County Extension Agents on behalf of local southern growers. The samples were received, recorded and a sub-sample piece of tissue was removed from the infected stalk. The tissue was then floated in sterile water for 12 to 24 hours to promote the growth of sporangia for visual identification with a microscope. The sample tissue was transported to the test site where it was aseptically inserted into the young tender sucker at the tip of the test plants. The suckers were split, a tissue sample was inserted, the stalk was wrapped in parafilm lab wax, and finally wrapped in vinyl tape and labeled.

All five test cultivars were inoculated three times each for a total of fifteen tissue samples per submission. Within three to seven days of inoculation, test plants were rated for a positive or negative reaction. Race was determined by the infection or non-infection of the test cultivars.

Summary

Differential cultivars were used to determine the race identity of isolates from samples taken from fields at CPES and from samples submitted from grower's fields. Many of the results suggest that race 1 dominates the experimental nursery area. Several trials were voided, primarily due to hot, dry conditions. Very few race 0 samples were detected. There were several samples that did not type as to race 0 or race 1, and those results will be investigated.

Acknowledgments

The authors would like to thank Philip Morris and The Georgia Agricultural Commodity Commission for Tobacco for funding. Thanks are also extended to Mary McMichael and Crystal Samataro for their excellent technical assistance.

2006 Georgia Tobacco Tour

Entomology Trials, Bowen Farm
R. M. McPherson, N. Roberson, D. Taylor

Stop 1 Early tobacco

*Welcome and Review Entomology Tests in 2006
*Thank Sponsors & Collaborators
*Test 1- Protocol and Results
*Test 8- Results & Compare to Exclusion Cages
*Sticky Traps for Monitoring Thrips presence (trts. 5 & 6 Test 1)

Stop 2 Pivot

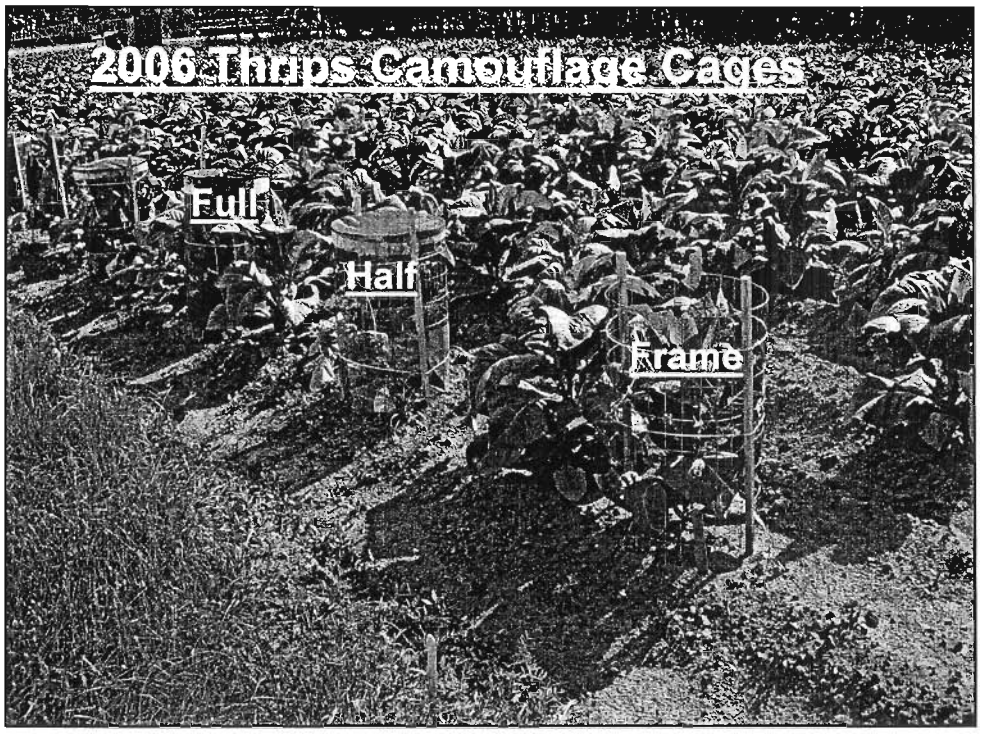
*Show Tobacco Insect Displays
*Test 4 Results
*Test 9 Monitoring thrips on tobacco foliage and weeds (immatures & adults)
*Test 3 Results
*Entomology questions

Test 1. % TSWV symptomatic plants,2006

Foliar treatment	April 18		May 16		May 30	
	Admire	No Admire	Admire	No Admire	Admire	No Admire
No Orthene	4.6	8.0	16.5	26.9	23.9	37.2
Orthene 4wk	2.5	7.2	15.5	21.5	26.7	34.0
Orthene 6wk	1.5	3.8	12.5	16.4	18.2	21.8
Orthene 8 wk	2.0	3.7	14.0	12.3	19.9	18.3
Orthene 4w/trap-4	3.0	9.8	13.2	21.3	22.7	28.3
Orthene 8w/trap-8	2.5	6.6	13.7	18.6	18.8	23.4

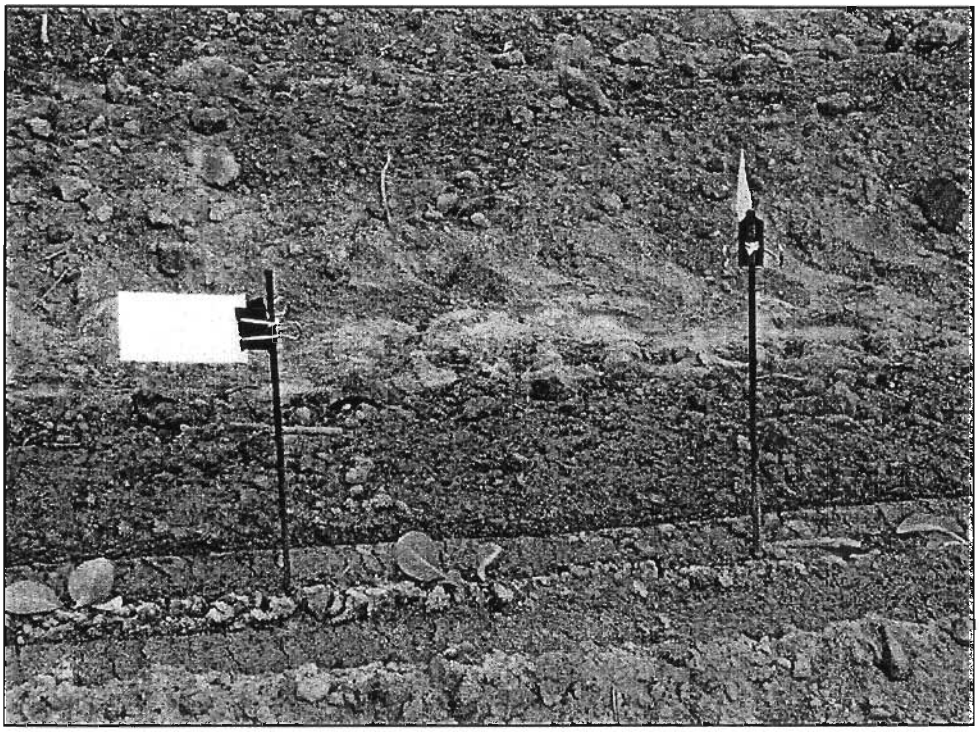
Test 1. Incidence of TSWV on flue-cured tobacco with or without Admire TD and Orthene foliar sprays, 2006

	Cumulative percent TSWV (Weeks After Transplanting)				
Treatment and Duration	4 weeks	6 weeks	8 weeks	9 weeks	10 weeks
	Foliar Orthene Effects (0.75 lbs. AI/acre)				
None	6.3a	10.5a	21.7a	27.8a	30.6a
4 weeks	4.8a	8.7ab	18.5ab	27.4a	30.3a
6 weeks	2.7b	6.0ab	14.5ab	18.7b	20.0b
8 weeks	2.9b	5.3b	13.1b	17.3b	19.1b
4 wk@4Ff	6.4a	9.7ab	17.2ab	23.2ab	25.5ab
8 wk@8Ff	4.6ab	7.9ab	16.1ab	19.4ab	21.1b
Admire TD Effects (1.0 oz./1000 transplants)					
Admire	2.7b	5.7b	14.2b	19.6b	21.7b
No Admire	6.5a	10.4a	19.5a	25.0a	27.2a

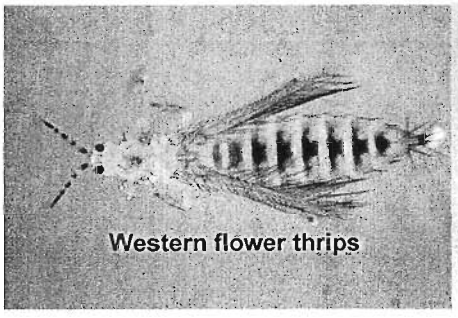


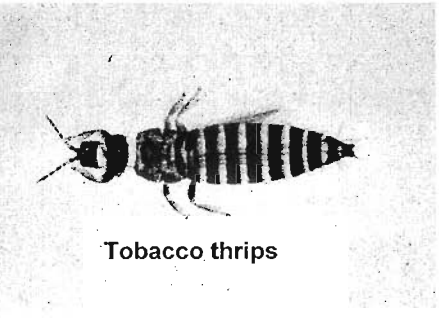
Test 8. TSWV - Thrips Camouflage Cages, 2006

Cage type	Percent TSWV symptomatic plants			
	12 April	1 May	23 May	29 May
Uncaged (n =118)	5.9	37.7	41.5	43.2
Frame (n=19)	10.5	26.3	42.1	42.1
Half screen (n=20)	0.0	35.0	50.0	50.0
Full screen (n=18)	11.1	22.2	33.3	38.9



Thrips on tobacco



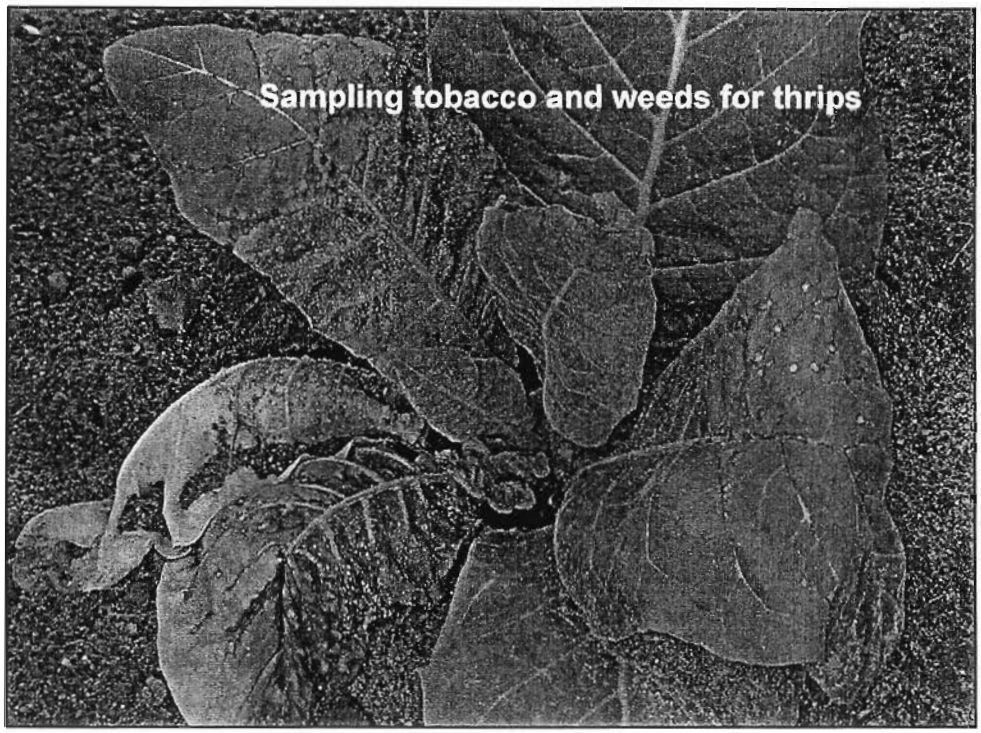


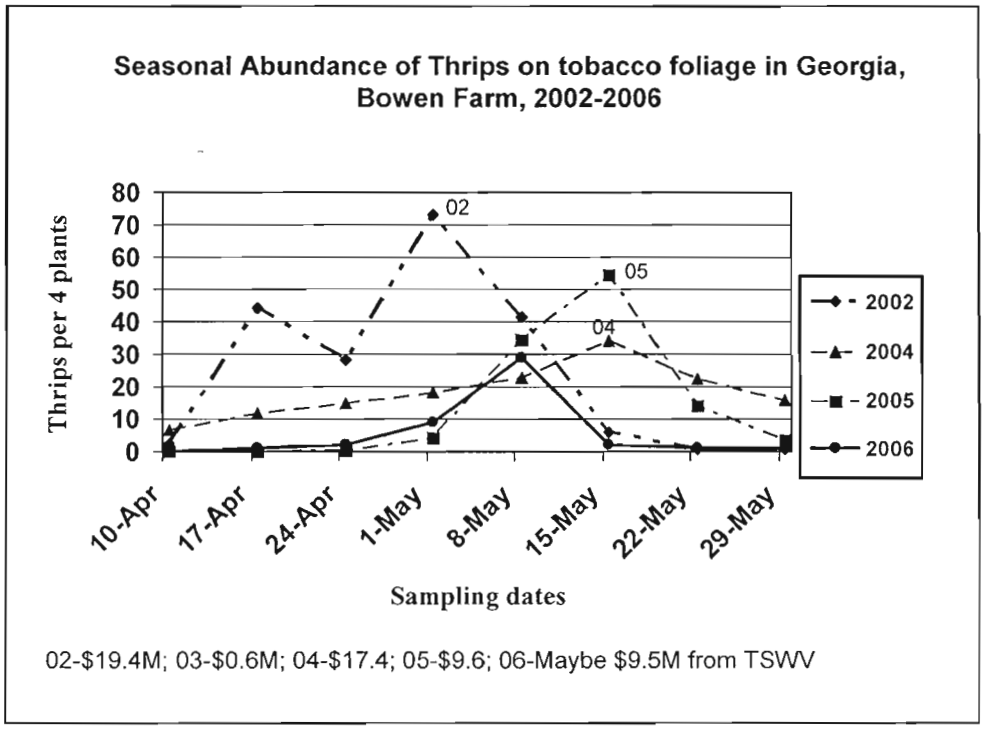
Test 4. % TSWV symptomatic plants, 2006

Tray drench Treatments	Percent TSW symptomatic plants May 2	May 11	May 23	June 6
Admire Pro 4.6 0.8 oz/1000 plants	2.7b	10.1b	33.8b	40.8bc
Alias 2F 1.8 oz/1000 plants	3.2ab	9.0b	31.8b	38.0c
T-Moxx 2SC 1.8 oz/1000 plants	1.6b	7.8b	35.3b	44.3bc
T-Moxx 2SC 1.3 oz/1000 plants	2.7b	12.8b	40.1b	47.2b
Expt. R 4SC 0.72 oz/1000 plants	2.4b	9.4b	35.7b	42.7bc
Untreated	7.2a	25.7a	51.8a	58.9a

Test 3. Fertility level and % TSWV, 2006

Fertility lbs N/acre	Percent TSWV symptomatic plants 12 April	11 May	23 May	29 May
No Nitrogen	1.9a	23.1a	46.4a	52.9a
30 lbs N 500lbs 6-6-18	2.5a	27.3a	48.4a	56.7a
60 lbs N 1000 lbs 6-6-18	1.3a	27.9a	50.0a	56.7a
120 lbs N 1000 lbs 6-6-18 375 lbs 16-0-0	2.9a	27.7a	52.0a	60.1a





02-$19.4M; 03-$0.6M; 04-$17.4; 05-$9.6; 06-Maybe $9.5M from TSWV

2006 Tobacco Entomology Research Projects

Robert M. McPherson, Project Leader
Del Taylor and Neal Roberson, 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 60 ft.

Test 2. Thrips Control with Tray Drench Imidacloprid
- 4Tray drench trts, RCBD, 5 reps, plots row x 37 ft.
- Count thrips and aphids weekly from mid-April to late May

Test 3. Fertility Level Impact on Insect and TSWV Abundance
- 4 Fertility levels: 0, 30, 60, and 120 lbs. N/acre
- Design: RCBD with 5 reps, plots 5 rows x 50 ft.

Test 4. Impact of TD Insecticide Treatments on TSWV
- 5 TD treatments, RCBD, 5 reps, plots 2 rows x 50 ft.

Test 5. Tobacco Budworm/Hornworm Control on Tobacco
- 5 Foliar sprays, RCBD, 4 reps, plots 3 rows x 40 ft.

Test 6. Aphid Control on Tobacco
- 6 Foliar sprays, RCBD, 5 reps, plots 3 rows x 40 ft.

Test 7. Tobacco Budworm/Hornworm Control on Tobacco
- 7 Foliar sprays, RCBD, 3 reps, plots 3 rows x 40 ft.

Test 8. Thrips Camouflage Cages
- Tobacco caged for 8 weeks after transplanting
- Full screen, half screen, frame, or no cage

Test 9. Thrips Survey in Tobacco Farmscape
- Collect thrips from weed hosts from Dec. - May
- Collect thrips on tobacco April - June (adults & immatures)
- Identify and test thrips & plants with ELISA

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 :
Impact of Early-Season Thrips Suppression on TSWV Symptoms
Bowen Farm , 2006

404	404A	401	401A	405A	405
406	406A	403	403A	402A	402
301	301A	305	305A	303A	303
304	304A	302	302A	306A	306
206	206A	204	204A	202A	202
203	203A	205	205A	201A	201
102	102A	106	106A	103A	103
105	105A	101	101A	104A	104
4 rows	3 rows	3 rows	3 rows	3 rows	4 rows

'K-326' flue-cured tobacco transplanted on March 20. Plots 60 ft. long w/ 6 ft alley.
A= Admire Pro 4.6 applied on 13 March, as a tray drench, at a rate of 1.0 fl. oz/1000 transplants.
Orthene applied foliarly at a rate of 0.75 lbs AI/a.

TREATMENTS :

(01) No Orthene
(02) Orthene Weekly 4W
(03) Orthene Weekly 6W
(04) Orthene Weekly 8W
(05) Orthene Weekly 4W when traps avg. 4 *F.fusca* / trap
(06) Orthene Weekly 8W when traps avg. 8 *F.fusca* / trap

Tobacco Entomology Test 2 : Thrips and Aphid Control
with Imidacloprid
Bowen Farm , 2006

Treatments	Tray drench amount	Count (# / 4 plants)
1. Untreated	------	Thrips and aphids
2. Admire Pro 4.6 SC	0.8 oz/ 1000 plants	in each plot weekly
10. Nu Farm 2 SC	1.84 oz/ 1000plants	from mid-April to
13. Transgenic	No tray drench	late May

'K-326' tobacco transplanted in early April.
Plots 1 row x 37 feet , RCBD with 5 reps.
For plot plan, see the Plant Pathlogy test "Admire and Actigard for Management of TSWV 2006" in the 2006 Georgia Tobacco Tour Guide.

Rep5	13 treatments but only treatments
Rep4	1,2,10, and 13 sampled weekly for
Rep3	thrips and aphids
Rep2	
Rep1	

Tobacco Entomology Test 3 : Fertility Level and Insect / TSWV Abundance
Bowen Farm , 2006

E
N

408	409	407	410	509	507	508	510
310	307	308	309	Test - 4			
207	210	209	208				
109	108	110	107				

Main Field Road

"K-326" tobacco transplanted on 13 April. Plots 5 rows by 50 ft. w/ 6 ft. alley.

TREATMENTS :	Total N	Application Dates
(7) No Fertilizer	0	
(8) 500 lbs/a 6-6-18	30	27 April
(9) 1000 lbs/a 6-6-18	60	27 April + mid-May
(10) 1000 lbs/a 6-6-18 + 375 #/a 16-0-0	120	27 April + mid-May + late May

Tobacco Entomology Test 4 : TD Insecticide Treatments
Bowen Farm , 2006

E

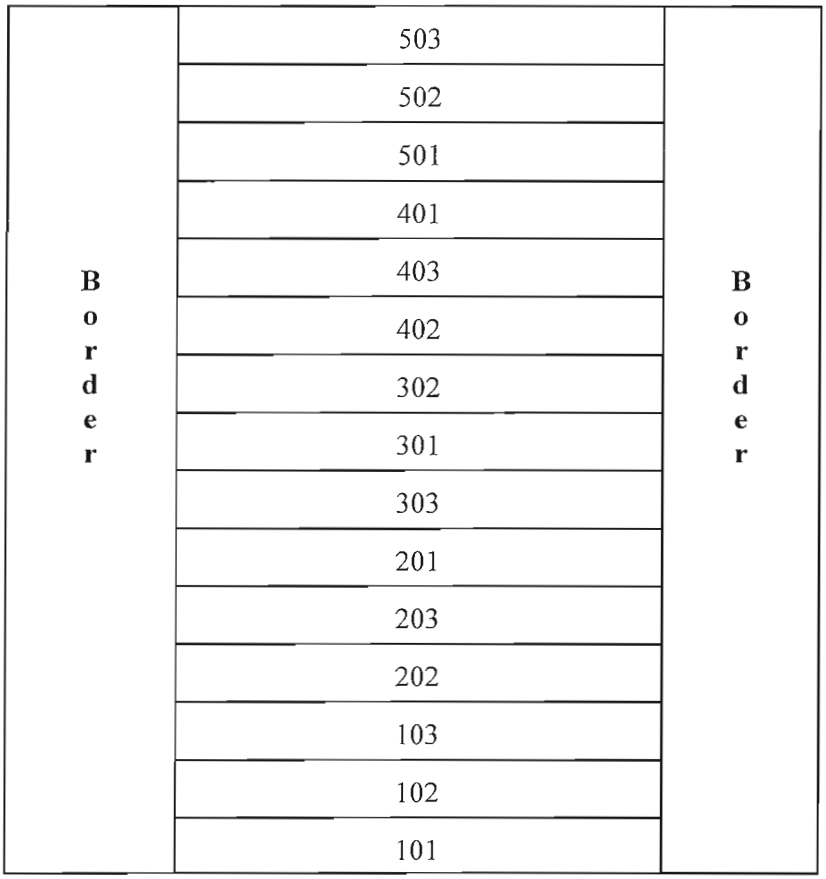
114	**113**	**215**	**214**	**312**	**316**	**416**	**415**	**514**	**511**
116	**111**	**212**	**213**	**313**	**315**	**411**	**414**	**512**	**513**
112	**115**	**211**	**216**	**314**	**311**	**412**	**413**	**516**	**515**

Main Field Road

"K-326" tobacco transplanted on April 13 . Tray drench treatments applied on April 11.
Plots 2 rows by 50 ft. w. 6 ft. alley.

TREATMENTS :	Form. / 1000 transplants
(11) Admire Pro 4.6	0.8 oz
(12) Alias 2F	1.8 oz
(13) T-Moxx 2 SC	1.8 oz
(14) T-Moxx 2 SC	1.3 oz
(15) Expt. R 4 SC	0.72 oz
(16) Untreated	----------

Location Study- Site 1- Bowen Farm 2006



Treatments:

1. Non-treated control
2. Greenhouse treatment with Actigard (2gai/7000) + Admire (2.8 oz/1000)
3. Treatment "2" plus field treatment

Evaluation:

- Plants: float tray seeded K-326
- Plot size 30 ft x 10 rows (approx. 20 plants per row)
- Replications: 5
- Weekly
- DAS-ELISA sampling of root tissue for TSWV; Eight rows for sampling and two interior rows for end of season harvest
- Each week, 8 plants from each rep will be collected for screening (120 plants per week)
- Projected sampling length: 13 weeks (1560 total plants collected from this location)

Data to be collected: Weekly stand counts, TSWV symptomatic %, root infection levels, Yield, yeild infection levels

Revised 3/23/06

Location Study-Site 2- Bowen Farm 2006

501	502	503
10 ft. alley		
402	403	401
10 ft. alley		
303	301	302
10 ft. alley		
202	203	201
10 ft. alley		
101	102	103

Treatments:

1. Non-treated control
2. Greenhouse treatment with Actigard (2gai/7000) + Admire (2.8 oz/1000)
3. Treatment "2" plus field treatment

Evaluation:

- Plants: float tray seeded K-326
- Plot size 30 ft x 10 rows (approx. 20 plants per row)
- Replications: 5
- Weekly
- DAS-ELISA sampling of root tissue for TSWV; Eight rows for sampling and two interior rows for end of season harvest
- Each week, 8 plants from each rep will be collected for screening (120 plants per week)
- Projected sampling length: 13 weeks (1560 total plants collected from this location)

Data to be collected:

- Weekly stand counts
- TSWV symptomatic %
- root infection levels
- Yield
- yeild infection levels

Revised 3/23/06

Admire and Actigard for Management of TSWV 2006
Bowen Farm, Tifton, GA

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

Cultivar = K 326 Replications = 5 Planting Date: March 28, 2006
Plot Size= One row 37 FT. Each with 10 FT. Alleys - Plant Spacing = 22" - Treatments -13

Admire and Actigard for Management of TSWV 2006
Bowen Farm, Tifton, GA

Treatment #	Greenhouse House	Field [a]
1. Non-treated control	*No greenhouse treatment*	*No field treatment*
2. Admire Pro 4.6SC	0.8oz/1000 plants	*No field treatment*
3. Admire Pro 4.6SC	0.8oz/1000 plants	Admire 4.6SC 5.2oz/A*
4. Admire Pro 4.6SC	0.8oz/1000 plants	Admire 4.6SC 5.2oz/A + Silwet-77 1%
5. Admire Pro 4.6SC + Actigard 50WP	0.8oz/1000 plants + 2g ai/7000 plants	Actigard 50WP ½ oz/A (1st symptom)**
6. Admire Pro 4.6SC + Actigard 50WP	0.8oz/1000 plants + 2g ai/7000 plants	*No field treatment*
7. Admire Pro 4.6SC + Actigard 50WP	0.8oz/1000 plants + 2g ai/7000 plants	Admire 4.6SC 5.2oz/A+ Silwett-77 1%
8. Admire Pro 4.6SC	0.8oz/1000 plants	Actigard 50WP ½ oz/A (1st symptom)**
9. Admire Pro 4.6SC	0.8oz/1000 plants	Admire 4.6SC 5.2oz/A + Silwett-77 1% +Actigard 50WP ½ oz/A (1st symptom)**
10. NuFarm 2.SC (imidicloprid)	1.84oz/1000 plants *treatment*	*No field*
11. NuFarm 2.SC (imidicloprid)	1.84oz/1000 plants 10pts/A (1st symptom)**	Phostrol
12. NutriPhyte	1pt/100 gal (spray to runoff)	NutriPhyte 1qt/A at 2, 4, and 6 weeks post plant
13. Transgenic	Admire Pro 4.6SC 0.8oz/1000 plants *No greenhouse treatment*	*No field treatment*

**** Based on 6500 plants per acre*** *****1st Symptom in non-treated control***

Data: -Symptomatic plants on a weekly basis -% symptomatic plants
-Plant height at mid-season -Yield (green weight) converted to dry weight
-ELISA at end of harvest -Plant vigor- early and late season

Revised 03/23/06

Actigard Admire Evaluation of Age of Tobacco Transplants
Bowen Farm, UGA-CPES, Tifton GA 2006

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

Plant date: April 7, 2006

Plot Size= Two Rows 37 FT. Each with 10 FT. Alleys.

Replications- 5
Plant Spacing- 22"

1. K326 (Young Transplants = 6 -7 weeks old)
2. NC71 (Young Transplants = 6 -7 weeks old)
3. K326 (Old Transplants =10-12 weeks old)
4. NC71 (Old Transplants =10-12 weeks old)
5. K326 + Actigard and Admire (Young transplants = 6 -7 weeks old)
6. NC71 + Actigard and Admire (Young transplants = 6 -7 weeks old)
7. K326 + Actigard and Admire (Old transplants =10-12 weeks old)
8. NC71 + Actigard and Admire (Old transplants =10-12 weeks old)
9. Transgenic (Mike Stephenson)

Actigard = 2g ai/7000 plants
Admire Pro 4.6SC= 1 oz/1000 plants

Data collected:
Stand counts;
Infected plants (%) by TSWV
Dead plants (%) by TSWV
TSWV-will be counted and flagged each week
ELISA testing of 2 outside rows
Plant Height at 6 weeks
Plant Vigor
Yield (green weight)

06-07-06

Actigard and Admire Pro Application Timing Study 2006
Bowen Farm, Tifton, Ga.

206	218	215	213	204
203	209	212	210	202
220	205	201	214	219
211	217	216	207	208

314	317	309	303	310
319	308	307	313	301
306	311	315	304	316
320	318	302	312	305

620	608	611	619	612
604	616	614	605	618
602	609	617	607	610
606	615	613	603	601

101	107	104	115	114
105	120	119	117	113
108	116	109	118	110
102	112	111	106	103

417	413	410	411	420
403	416	401	408	415
405	402	412	414	406
409	407	404	419	418

519	505	512	516	509
507	518	506	510	502
511	503	504	520	513
501	514	508	515	517

Planting date: March 28, 2006

Treatment in greenhouse float	**Field application after transplanting**
1. Non Treated	No field treatment
2. Actigard & Admire Pro Greenhouse	No field treatment
3. Actigard & Admire Pro Greenhouse	+ 7 days post transplant (DPT)
4. Actigard & Admire Pro Greenhouse	+ 14 DPT
5. Actigard & Admire Pro Greenhouse	+ 21 DPT
6. Actigard & Admire Pro Greenhouse	+ 28 DPT
7. Actigard & Admire Pro Greenhouse	+ 35 DPT
8. Actigard & Admire Pro Greenhouse	+ 42 DPT
9. Actigard & Admire Pro Greenhouse	+ 49 DPT
10. Actigard & Admire Pro Greenhouse	+ 1st symptom
11. Actigard & Admire Pro Greenhouse	+ 1stsymptom + 2 weeks + 2 weeks
12. Actigard & Admire Pro Greenhouse	+ 2% TSWV
13. Actigard & Admire Pro Greenhouse	+ 5% TSWV
14. Actigard & Admire Pro Greenhouse	+ 10% TSWV
15. Actigard & Admire Pro Greenhouse	+ 1st symptom + 2 weeks
16. Actigard & Admire Pro Greenhouse	+ 1st symptom + 2 weeks +2 weeks + 2weeks
17. Actigard & Admire Pro Greenhouse	+ 2% TSWV + 2 weeks
18. Actigard & Admire Pro Greenhouse	+ 5% TSWV + 2 weeks
19. Actigard & Admire Pro Greenhouse	+ 10% TSWV + 2 weeks
20. Transgenic	No field treatment

***Note**: All Actigard 50 WP greenhouse @ 2g ai/7000 plants; all Admire Pro @ 1 oz/1000 plants. All field applications made at ½ oz/A of Actigard 50 WP. 1st symptom and % TSWV thereafter is on non-treated control plants.*

Data to be collected: Stand counts, Infected plants (%) by TSWV, Dead plants (%) by TSWV, TSWV-+ plants will be flagged each week, ELISA sampling, Plant height at 6 weeks, Plant vigor, Yield (green weight) **2/17/06**

2006 TOBACCO VARIETY TESTS

1	14	1		13	10	8
2	13	14		3	2	3
3	12	7		12	11	13
4	11	11		9	1	12
5	10	10		4	14	5
6	9	8		6	9	7
7	8	5		2	6	4
1	40	28		23	12	34
2	39	1		14	7	39
3	38	7		18	2	28
4	37	25		22	21	40
5	36	29		31	27	29
6	35	4		15	23	24
7	34	17		36	38	14
8	33	32		27	35	6
9	32	35		40	19	10
10	31	39		34	17	32
11	30	24		9	31	33
12	29	3		37	26	13
13	28	13		20	18	16
14	27	16		5	25	11
15	26	2		30	36	15
16	25	11		21	3	1
17	24	26		33	22	5
18	23	8		6	4	20
19	22	12		10	37	9
20	21	38		19	8	30
1	40	20		16	23	38
2	39	5		28	7	35
3	38	19		4	24	16
4	37	33		3	3	29
5	36	29		22	33	12
6	35	34		13	6	31
7	34	7		30	18	32
8	33	6		14	8	13
9	32	10		9	26	27
10	31	40		39	15	34
11	30	36		18	11	19
12	29	25		12	5	21
13	28	24		38	22	39
14	27	11		1	40	4
15	26	37		31	37	9
16	25	26		27	36	25
17	24	17		35	20	17
18	23	15		8	2	10
19	22	21		2	14	30
20	21	32		23	28	1

REGIONAL FARM TEST

1. NC 2326
2. NC 95
3. OX 1117
4. NC TG 138
5. CU 87
6. RX 409
7. RX 452
8. Speight 240
9. ULT 219
10. RJR 37
11. Speight 229
12. XP 257
13. XP 201
14. CU 105

REGIONAL SMALL PLOT

1. NC 2326
2. NC 95
3. K 326
4. CU 34
5. RJR 35
6. RX 568
7. CC 67
8. CU 37
9. RJR 38
10. RX 566
11. RJR 18
12. NC TG 144
13. RX 493
14. NC TG 146
15. NC EX 03
16. NC EX 02
17. CC 33
18. XP 632
19. GF 52
20. NC EX 05
21. RX 576
22. NC TG 145
23. XP 259
24. ULT 138
25. RX 596
26. ULT 109
27. RJR 15
28. NC TG 143
29. RJR 65
30. XP 269
31. NC EX 01
32. CU 98
33. XP 267
34. CU 96
35. CU 6
36. XP 268
37. NC EX 04
38. AOV 301
39. AOV 506
40. NC 71

OFFICIAL VARIETY TEST

1. C 371 G
2. K 326 GL
3. K 326 CC
4. K 326 R
5. K 730
6. NC 71
7. NC 72
8. NC 297
9. NC 810
10. NC 55
11. NC 291
12. NC 299
13. NC 196
14. NC 102
15. NC 471
16. GL 350
17. GL 939
18. GL 390
19. GL 330
20. CC 13
21. CC 700
22. CC 27
23. RX 118
24. RX 116
25. RX 123
26. Speight H20
27. Speight 210
28. Speight 179
29. Speight 235
30. Speight 225
31. Speight 227
32. Speight 234
33. Speight 236
34. Speight 168
35. Speight 220
36. Speight H12
37. Speight H10
38. Speight H9
39. CH 1
40. CH 3

2006 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: TRANSPLANT WATER FERTILIZER DEMONSTRATION

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

Extension Specialist Responsible: J. MICHAEL MOORE

Plot Size: 1 (44") ROWS X 58.5', 10' Alleys

Variety: K 326 Soil Type: SL Date Transplanted: (4/06/6)

Crop History: 2004: Peanuts 2005: Fallow

Herbicide/Rate: PPI; PROWL 3.3: 2 pt, Post Plant;
SPARTAN SURFACE APPLIED PRIOR TO TRANSPLANTING
8 oz/A

Fungicides/Rate: Nematicides/Rate: Telone II, 10 gal/A

Soil Insecticide/Rate: Admire in greenhouse according to treatments

Foliar Insecticide/Rate:

Date: Fertility Program: AS PER TREATMENTS

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

Topping: Date; Average No. Leaves Per Plant;

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

25 H	26 G	27 F	28 E	29 D	30 C	31 B	32 A
17 G	18 E	19 C	20 A	21 H	22 F	23 D	24 B
9 B	10 D	11 F	12 H	13 A	14 C	15 E	16 G
1 A	2 B	3 C	4 D	5 E	6 F	7 G	8 H

Table 1. Yield, Value, Price Index and Grade Index of Cured Leaf From the Transplant Water Fertilizer Demonstration on the Bowen Farm of the Coastal Plain Experiment Station, Tift County, 2006.

Trt	Treatments	Rate /A	Amt /15 gal mix	rep 1	rep 2	rep 3	rep 4	Visual Rating (1-10)
A.	Check	----		1	13	20	32	2.75
B.	SQM (9-45-15)	6 lbs/100 gal	14.15 oz	2	9	24	31	6.75
C.	SQM (10-52-8)	6 lbs/100 gal	14.15 oz	3	14	19	30	8.25
D.	Jump Start (8-31-4)	4 qts/A	12.8 oz	4	10	23	29	7.5
E.	Jump Start (8-31-4)	6 qts/A	19.2 oz	5	15	18	28	6.5
F.	Pop-Up (10-34-0)	12 gal/A	7.56 oz	6	11	22	27	6.0
G.	Calcium Nitrate (soda flo)	90 lb/A	199 g/row	7	16	17	26	4.0
H.	Soda 16-0-0 (soda flo)	90 lb/A	199 g/row	8	12	21	25	4.0
LSD								

15 gal mix = 5% of 228 gal /A
Visual ratings - 4-23-6; 1= worst, 10 = best.

2006 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: HORIZON TRANSPLANT WATER MATERIAL DEMONSTRATION

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

Extension Specialist Responsible: J. MICHAEL MOORE

Plot Size: 1 (44") ROWS X 58.5', 10' Alleys

Variety: K 326 Soil Type: SL Date Transplanted: (4/19/6)

Crop History: 2004: PEANUTS 2005: FALLOW

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

Fungicides/Rate: Nematicides/Rate: NEMACUR 1 gal
MOCAP 1 gal

Soil Insecticide/Rate: Admire in greenhouse according to treatments

Foliar Insecticide/Rate:

Date: Fertility Program: AS PER TREATMENTS

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

Topping: Date; Average No. Leaves Per Plant;

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

FIELD RD.

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

TRT #	TREATMENTS	RATE	RATE UNIT	APPL DATE(S)	APPLICATION TIMING NOTES	VISUAL RATING 1-10 (5/9/6)
A	UTC				0.00	2.9
B	HM9754	1.0	gal/A	4/19/6	Mix and apply with transplant water at-planting	3.9
C	SQM 9-45-15	6.0	lb/100 gal	4/19/6	Mix and apply with transplant water at-planting	6.8
D	HM9754	1.0	gal/A	4/19/6	Mix and apply with transplant water at-planting	6.45
+	SQM 9-45-15	6.0	lb/100 gal			
E	HM9947	1.0	gal/A	4/19/6	Mix and apply with transplant water at-planting	3.0
F	HM9947	1.0	gal/A	4/19/6	Mix and apply with transplant water at-planting	5.75
+	SQM 9-45-15	6.0	lb/100 gal			

2006 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: (3-20-06)

Crop History: 2004; Peanuts 2005; Fallow

Herbicide/Rate: PPI; PROWL 3.3: 2 pt Post Plant;
SPARTAN SURFACE APPLIED PRIOR TO TRANSPLANTING 8 OZ/A
Fungicides/Rate: Nematicides/Rate: Telone II, 10 gals

Soil Insecticide/Rate:

Foliar Insecticide/Rate:

Fertility Program: AS PER TREATMENTS Date: 4/5/6, 4/31/6

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

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

37 L	38 K	39 J	40 I	41 H	42 G	43 F	44 E	45 D	46 C	47 B	48 A	58.5'
25 J	26 D	27 E	28 L	29 I	30 C	31 H	32 B	33 G	34 A	35 F	36 K	58.5'
13 K	14 F	15 G	16 A	17 H	18 B	19 J	20 C	21 I	22 D	23 L	24 E	58.5'
1 A	2 B	3 C	4 D	5 E	6 F	7 G	8 H	9 I	10 J	11 K	12 L	58.5'

Trt	Analysis	lb/A	lb/row	(N-P-K)	Analysis	lb/A	lb/row	(N-P-K)
A.	6-6-18	667	3.28	(40-40-120)	15.5-0-0 0-0-22	226 272	1.1 1.3	(75-40-180)
B.	6-6-18	667	3.28	(40-40-120)	13-0-44	269	1.3	(75-40-238)
C.	6-6-18	667	3.28	(40-40-120)	NH4NO3 0-0-22	103 272	0.50 1.3	(75-40-180)
D.	6-6-18	667	3.28	(40-40-120)	43-0-0 0-0-22	34.9 272	78.1g 1.3	(55-40-180)
E.	6-6-18	667	3.28	(40-40-120)	43-0-0 0-0-22	81.2 272	182.1g 1.3	(75-40-180)
F.	6-6-18	667	3.28	(40-40-120)	43-0-0 0-0-22	127. 9 272	286g 1.3	(95-40-180)
G.	6-6-18	667	3.28	(40-40-120)	30-0-0 0-0-22	4.85 gal 272	91ml 1.3	(55-40-180)
H.	6-6-18	667	3.28	(40-40-120)	30-0-0 0-0-22	11.3 3gal 272	212ml 1.3	(75-40-180)
I.	6-6-18	667	3.28	(40-40-120)	30-0-0 0-0-22	17.8 gal 272	333ml 1.3	(95-40-180)
J.	13-0-44	307	1.5	(40-0-135)	14-0-14 0-0-22	250 113	1.23 0.57	(75-40-180)
K.	6-6-18 0-0-22 Kmag	334 550	1.6 2.7	(20-20-180)	15.5-0-0	354	1.7	(75-20-180)
L.	6-6-18 0-0-22 Kmag	334 550	1.6 2.7	(20-20-180)	16-0-0	344	1.65	(75-20-180)

2006
BOWEN FARM SUCKER CONTROL DEMONSTRATION

J. MICHAEL MOORE, EXTENSION AGRONOMIST - TOBACCO
ED TROXELL, EXTENSION TECHNICIAN

						37 H	38 G	39 F	40 E	41 D	42 C	43 B	44 A	58'
23 I	24 F	25 A	26 J	27 G	28 D	29 K	30 B	31 E	32 H	33 C	34 K	35 J	36 I	58'
						15 B	16 C	17 F	18 A	19 H	20 I	21 D	22 K	58'
1 A	2 B	3 C	4 D	5 E	6 F	7 G	8 H	9 I	10 J	11 K	12 E	13 J	14 G	58'

pathway

Table 1 . Bowen Farm Sucker Control Treatments

Trt	Time of Application			
	Button 6/2	5-7 d 6/8	5-7 days 6/15	5-7 days 6/21
A	TNS	TNS	TNS	Topped Not Suckered
B	OST. 1.5 gal 3%	OST 2.0 gal 4%	OST 2.5 gal 5%	[OST 5% + RMH- Xtra + FluPro] (2.5 gal + 1.0 gal + 2 qt) {5% + 2.25 lbs ai + 0.6 lbs ai}
C	SP 1.5 gal 3%	SP 2.0 gal 4%	SP 2.5 gal 5%	[OST 5% + Sucker Stuff + Prime+] (2.5 gal + 1.0 gal + 2 qt) {5% + 2.25 lbs ai + 0.6 lbs ai}
D	RTac 1.5 gal 3%	RTac 2.0 gal 4%	Butralin (1.0 gal) [3.0 lb ai}	Flupro] (1.0 gal) {1.2 lbs ai}
E	RTac 1.5 gal 3%	RTac 2.0 gal 4%	RTac 2.5 gal 5%	[RTac + FluPro] (2 gal + 1.0 gal) {4% +1.2 lbs ai}
F	RTac 1.5 gal 3%	RTac 2.0 gal 4%	RTac 2.5 gal 5%	[FluPro] (1.0 gal) {1.0 lbs ai}
G	RTac 1.5 gal 3%	RTac 2.0 gal 4%	RTac 2.5 gal 5%	[RMH- Xtra] (1.0 gal) {2.25 lbs ai}
H.	RTac 1.5 gal 3%	RTac 2.0 gal 4%	RTac 2.5 gal 5%	[RMH- Xtra + FluPro] (1.0 gal + 2 qt) {2.25 lbs ai + 0.6 lbs ai}
I.	RTac 1.5 gal 3%	RTac 2.0 gal 4%	RTac 2.5 gal 5%	[Rtac + RMH- Xtra + FluPro] (2.5 gal + 1.0 gal + 2 qt) {5% + 2.25 lbs ai + 0.6 lbs ai}
J	F85 1.5 gal 3%	F85 2.0 gal 4%	F85 2.5 gal 5%	[F85 + Fair 30 + Prime+] (2.5 gal + 1.0 gal + 2 qt) {5% + 2.25 lbs ai + 0.6 lbs ai}
K	F85 1.5 gal 3%	F85 2.0 gal 4%	F85 2.5 gal 5%	[FST-7 + Prime+] (3.0 gal+ 2 qt) {5% + 2.0 lbs ai + 0.6 lbs ai}

TNS = Topped Not Suckered, OST = Off-Shoot T, Rtac = Royaltac - M, F85 = Fair 85, SP = Sucker Plucker, RMH Xtra = Royal MH Xtra, Sucker Stuff = Sucker Stuff, Fair 30 = Fair 30, FluPro = FluPro, Prime+ = Prime+, FST-7 = FST-7,

[ ] = Tankmixed, ( ) = Formulation, { } = Active Ingredient

[MH + FluPro], and [MH + Prime+] solutions were applied in 50 gallons of solution per acre at 20 psi.

Three TG-3's used with MH only solutions at 25 psi.

Two TG-3's and one TG-5 used with contacts, Prime+ and FluPro solutions.

Table 1. 2006 Sasal Regional Sucker Control Test: two-row plots; 4 replications

	Formulated chemical (ml/1000 ml) (applications)				Spray method(applications)			
TREATMENTS	1st	2nd	3rd	4th	1st	2nd	3rd	4th
1.[FAIR 85] [FAIR 85] [FAIR 85] 2.0 gpa/2.5 gpa/2.5 gpa	40	50	50	-	OT	OT+3 -5D	OT+ 7D	-
2.[C810/12 LE] [C810/12 LE] [C810/12 LE] 2.0 gpa/2.5 gpa/2.5 gpa	40	50	50	-	OT	OT+3 -5D	OT+ 7D	-
3.[C810E2/DA-1] [C810E2/DA-1] [C810E2/DA-1] 2.0 gpa/2.5 gpa/2.5 gpa	40	50	50	-	OT	OT+3 -5D	OT+ 7D	-
4.[C810E2/DA-2] [C810E2/DA-2] [C810E2/DA-2] 2.0 gpa/2.5 gpa/2.5 gpa	40	50	50	-	OT	OT+3 -5D	OT+ 7D	-
5.[FAIR 85] [FAIR 85] [FAIR 85] [RMH-30] 2.0 gpa/2.5 gpa/2.5 gpa/1.5 gpa	40	50	50	30	OT	OT+ 3-5	OT+ 7D	OT+ 7D
6.[C810/12 LE] [C810/12 LE] [C810/12 LE] [RMH-30] 2.0 gpa/2.5 gpa/2.5 gpa/1.5 gpa	40	50	50	30	OT	OT+3 -5D	OT+ 7D	OT+ 7D
7.[C810E2/DA-1] [C810E2/DA-1] [C810E2/DA-1] [RMH-30] 2.0 gpa/2.5 gpa/2.5 gpa/1.5 gpa	40	50	50	30	OT	OT+3 -5D	OT+ 7D	OT+ 7D
8.[C810E2/DA-2] [C810E2/DA-2] [C810E2/DA-2] [RMH-30] 2.0 gpa/2.5 gpa/2.5 gpa/1.5 gpa	40	50	50	30	OT	OT+3 -5D	OT+ 7D	OT+ 7D

GPA = gallons per acre; Equivalents based on 6000 plants/acre;

OT = over-the-top as 30 ml/plant early button stage; OT@3-5D = 3-5 days after 1st appl.; OT@7D = 7 days after 2nd appl.; OT@7D = 7 days after 3rd appl.

Fair 85 = Fair Products, Inc. RMH-30 = Chemtura Chemical; C810/12 LE; C810E2/DA-1; C810E2/DA-2 = Sasol North America

RMH-30 = 1.5 lb ai/gal; Fair 85 = 6.01 lb ai/gal; Sasol products = 6.01 lb ai/gal

Table 2. 2006 MH Residue or MH Free Regional Sucker Control Test: two-row plots; 4 replications

	Formulated chemical (ml/1000 ml) (applications)					Spray method (applications)				
TREATMENTS	1st	2nd	3rd	4th	5th	1st	2nd	3rd	4th	5th
1. TOPPED AND NOT SUCKERED	-	-	-	-	-	-	-	-	-	-
2.FAIR 85/FAIR 85/(RMH-30 & PRIME+) 2.0 gpa/2.5 gpa/(1.5 gpa & 0.5 gpa)	40	50	(30+10)	-	-	OT	OT+ 3-5D	OT+7 D	-	-
3 FAIR 85/FAIR 85/FST-7 2.0 gpa/2.5 gpa/3.0 gpa	40	50	60	-	-	OT	OT+ 3-5D	OT+7 D	-	-
4.FAIR 85/FAIR 85/(Prime+ & FST-7) 2.0 gpa/2.5 gpa/(0.5 gpa & 3.0 gpa)	40	50	(10+60)	-	-	OT	OT+ 3-5D	OT+7 D	-	-
5. FAIR 85/FAIR 85/ RMH-30 2.0 gpa/2.5 gpa/1.5 gpa	40	50	30	-	-	OT	OT+ 3-5D	OT+7 D	-	-
6. FAIR 85/FAIR 85/PRIME+/PRIME+ 2.0 gpa/2.5 gpa/0.25 gpa/0.25 gpa	40	50	5	5	-	OT	OT+ 3-5	OT+7 D	OT+7 D	-
7. FAIR 85/FAIR 85/PRIME+/RMH-30 2.0 gpa/2.5 gpa/0.5 gpa/1.5 gpa AFTER 1ST HARVEST	40	50	10	30	-	OT	OT+ 3-5D	OT+7 D	OT+2 WK Delay	-
8. FAIR 85/FAIR 85/PRIME+/PRIME+/ PRIME+ 2.0 gpa/2.5 gpa/0.25 gpa/0.25 gpa/ 0.25 gpa	40	50	5	5	5	OT	OT+ 3-5D	OT+7 D	OT+7 D	OT+7 D
9. FAIR 85/FAIR 85/PRIME+/BUTRALIN 2.0 gpa/2.05 gpa/0.25 gpa/0.375 gpa	40	50	5	22	-	OT	OT+ 3-5D	OT+7 D	OT+7 D	-
10. FAIR 85/FAIR 85/PRIME+/ (RMH-30 &PRIME+) 2.0 gpa/2.5 gpa/0.25 gpa/ (0.75 gpa & 0.25 gpa)	40	50	5	(15+5)	-	OT	OT+ 3-5D	OT+7 D	OT+7 D	-
11. FAIR 85/FAIR 85/PRIME+/ (RMH-30 & PRIME+)/PRIME+ 2.0 gpa/2.5 gpa/0.25 gpa/ (0.75 gpa & 0.25 gpa)/0.25 gpa	40	50	5	(15+5)	5	OT	OT+ 3-5D	OT+7 D	OT+7 D	OT+7 D
12. FAIR 85/FAIR 85/PRIME+/ (RMH-30 & BUTRALIN) 2.0 gpa/2.5 gpa/0.25 gpa/ (0.75 gpa & 0.375 gpa)	40	50	5	(15+22)	-	OT	OT+ 3-5D	OT+7 D	OT+7 D	-

GPA = gallons per acre; Equivalents based on 6000 plants/acre;

OT = over-the-top as 30 ml/plant early button stage; OT@3-5D = 3-5 days after 1st appl.; OT@7D = 7 days after 2nd appl.; OT@7D = 7 days after 3rd appl.; OT@7D = 7 days after 4th appl.

Fair 85 = Fair Products, Inc. RMH-30 & Butralin = Chemtura Chemical; PRIME+ = Sygenta Corporation

RMH-30 = 1.5 lb ai/gal; Fair 85 = 6.01 lb ai/gal; Prime+ = 1.2 lb ai/gal; Butralin = 3.0 lb ai/gal

TIMING ACTIGARD FIELD SPRAY WITH FIRST TSWV IN UNTREATED PLANTS

KEITH HARRELL- SET 17 APRIL 2006
EDDIE MCGRIFF, COFFEE COUNTY EXTENSION COORDINATOR

PLANT TREATMENTS:
1. ADMIRE + ACTIGARD
2. UNTREATED

FIELD TREATMENT:
3. ACTIGARD (@ 0.5 oz/ACRE) AT FIRST TSWV IN UNTREATED ROWS
4. NO ACTGARD SPRAY

PLOT MAP: EACH ROW OF ******* = 4 ROWS OF TOBACCO
[<---------- 200'---------->]

A+A **********
A+A **********
CHECK **********
GREEN SPRAY
A+A **********
A+A **********
NO SPRAY
CHECK **********
A+A **********
GREEN SPRAY
A+A **********
CHECK **********
NO SPRAY
A+A **********
CHECK **********
GREEN SPRAY
A+A **********
CHECK **********
NO SPRAY
A+A **********
A+A **********
GREEN SPRAY
CHECK **********
A+A **********
NO SPRAY
A+A ********** FIELD CONTINUES **********

Timing Field Applications Of Actigard Based On First Symptoms Of Disease In Untreated Plants

James and Keith Harrell Farm, Coffee County, GA.

Conducted and Counted by Paul Bertrand, Extension Pathologist, UGA

	% SPOTTED WILT		% SPOTTED WILT AT LAYBY (WK6)	
Plant Treatment	**Week 1[1]**	**Week 2[1]**	**NO Actigard field spray**	**Actigard field spray[2]**
Actigard + Admire Pro in the Greenhouse[3]	0	0.7	30.0	21.2
NO Actigard + Admire Pro in the Greenhouse	0	16.2	79.4	71.0

[1] Weeks after transplant.

[2] Actigard field spray applied at week 2.

[3] Treated with Actigard at 1.0 oz/100,000 tray cells and Admire Pro at 0.8 oz/1,000 tray cells.

UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATION
JEFF DAVIS COUNTY, GEORGIA – 2006

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

COMPARING BAYER CROPSCIENCE'S NEW FORMULATION OF IMIDACLOPRID (ADMIRE PRO 4.6SC) TO PLATINUM 2SC IN CONTROLLING MOLE CRICKETS AND SUPPRESSION OF CUTWORMS, TOBACCO SPLITWORM AND TOMATO SPOTTED WILT VIRUS IN FLUE-CURED TOBACCO

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 200 feet long. Approximately 532 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 28. **No Lorsban 4E** was applied to any of the plots. The greenhouse treatments were applied on April 12. The Admire Pro 4.6 SC transplant water treatment was applied in 250 gallons of water per acre on April 19.

Variety: Tobacco cultivar K-326 (greenhouse grown) transplanted April 19.

Jerry Wooten & Sons Farm
Tobacco: K-326 (Greenhouse Grown)
Transplanted April 19, 2006

Treatments:		**Gallons of rinse water used in the greenhouse/100,000 plants:**
1.	Untreated	None
2.	Admire Pro 4.6SC (0.4oz/1000 plants) – GH	10 gals.
3.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH	10 gals.
4.	Admire Pro 4.6SC (1.0 oz/1000 plants) – GH	10 gals.
5.	Admire Pro 4.6SC (1.2 oz/1000 plants) – GH	10 gals.
6	Admire Pro 4.6SC (0.4 oz/1000 plants) – GH + Admire Pro 4.6SC (0.8 oz/1000 plants) - TPW	10 gals.
7.	Platinum 2SC (1.3 oz/1000 plants) – GH	10 gals.
8.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH + Actigard 50WG (0.5 oz/50,000 plants) – GH	10 gals. 10 gals.

*GH – Greenhouse treatment

*TPW – Transplant water treatment

Jerry Wooten & Sons Farm
Jeff Davis County - 2006

Experimental Design:

Treatments:	4	6	5	1	8	3	7	2
Plots →	401	402	403	404	405	406	407	408

Treatments:	5	2	7	6	8	1	4	3
Plots →	301	302	303	304	305	306	307	308

Treatments:	7	3	5	1	6	8	2	4
Plots →	201	202	203	204	205	206	207	208

Treatments:	1	2	3	4	5	6	7	8
Plots →	101	102	103	104	105	106	107	108

Table 1. Control of Mole Crickets and Suppression of Cutworms and Tobacco Splitworm in Flue Cured Tobacco. Jerry Wooten & Sons Farm Jeff Davis County GA - 2006

Treatment Number	Treatment	Rate/1000 plants	% Damage Mole Crickets	% Damage Cutworms	% Damage Tobacco Splitworm
1	Untreated	-	1.6	10.9	5.2
2	Admire Pro 4.6SC	0.4 oz	0.6	6.5	1.5
3	Admire Pro 4.6SC	0.8 oz	0.5	4.7	1.1
4	Admire Pro 4.6SC	1.0 oz	0.2	5.1	1.1
5	Admire Pro 4.6SC	1.2 oz	0.2	5.9	0.9
6	Admire Pro 4.6SC + Admire Pro 4.6SC	0.4 oz. + 0.8 oz	0.2	4.8	1.1
7	Platinum 2SC/ T-MOXX	1.3 oz	0.6	4.2	2.6
8	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz/ 50,000 plants	0.3	6.4	1.1

Mole cricket, cutworm (granulate cutworm, beet armyworm & southern armyworm) damage was evaluated on May 3, 9, & 11, 2006

Table 2. Suppression of Tomato Spotted Wilt Virus in Flue-cured Tobacco.
Jerry Wooten & Sons Farm - Jeff Davis County, GA - 2006

			Tomato Spotted Wilt Virus (% Symptomatic Plants[1])								
Treatment Number	**Treatments**	**Rate/1000 plants**	**5/5**	**5/9**	**5/17**	**5/25**	**6/1**	**6/9**			
1	Untreated	-	1.7	8.1	34.8	47.4	50.9	55.7			
2	Admire Pro 4.6SC	0.4 oz	1.3	6.7	27.4	36.0	40.1	45.1			
3	Admire Pro 4.6SC	0.8 oz	0.6	4.4	20.4	32.8	37.5	42.5			
4	Admire Pro 4.6SC	1.0 oz	0.5	3.7	20.0	31.8	35.7	39.8			
5	Admire Pro 4.6SC	1.2 oz	0.4	3.5	18.3	29.3	33.0	37.1			
6	Admire Pro 4.6SC + Admire Pro 4.6SC	0.4 oz + 0.8 oz	0.7	4.2	20.2	30.3	34.5	40.2			
7	Platinum 2SC/ T-MOXX 2SC	1.3 oz	0.8	4.6	32.7	41.9	45.8	51.3			
8	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz/ (50,000 plants)	0.1	0.4	9.5	18.9	21.5	26.6			

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

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COMPARING BAYER CROPSCIENCE'S NEW FORMULATION OF IMIDACLOPRID (ADMIRE PRO 4.6SC) TO PLATINUM 2SC IN CONTROLLING MOLE CRICKETS AND SUPPRESSION OF TOMATO SPOTTED WILT VIRUS IN FLUE-CURED TOBACCO

AND

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

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 200 feet long. Approximately 532 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. The greenhouse treatments were applied on April 18. The Admire Pro 4.6 SC transplant water treatment was applied in 230 gallons of water per acre on April 24.

Variety: Tobacco cultivar Speight G-70 (greenhouse grown) transplanted April 24.

Kenneth Williams & Son Farm
Tobacco: Speight G-70 (Greenhouse Grown)
Transplanted April 24, 2006

	Treatments:	**Gallons of rinse water used in the greenhouse/1000,000 plants:**
1.	Untreated	None
2.	Admire Pro 4.6SC (0.4oz/1000 plants) – GH	10 gals.
3.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH	10 gals.
4.	Admire Pro 4.6SC (1.0 oz/1000 plants) – GH	10 gals.
5.	Admire Pro 4.6SC (1.2 oz/1000 plants) – GH	10 gals.
6.	Admire Pro 4.6SC (0.4 oz/1000 plants) – GH + Admire Pro 4.6SC (0.8 oz/1000 plants) - TPW	10 gals.
7.	Platinum 2SC (1.3 oz/1000 plants) – GH	10 gals.
8.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH + Actigard 50WG (0.5 oz/50,000 plants) – GH	10 gals.
9.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH	None
10.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH	2.5 gals.
11.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH	5 gals.
12.	Admire Pro 4.6SC (0.8 oz/1000 plants) – GH	20 gals.

*GH – Greenhouse treatment

*TPW – Transplant water treatment

Kenneth Williams & Son
Jeff Davis County - 2006

Experimental Design:

Treatments:	3	10	5	11	8	7	4	12	1	2	9	6	2	1	8	4	11	7	9	6	12	10	3	5
Plots →	301	302	303	304	305	306	307	308	309	310	311	312	401	402	403	404	405	406	407	408	409	410	411	412

Treatments:	1	2	3	4	5	6	7	8	9	10	11	12	10	5	11	8	1	3	9	6	2	12	4	7
Plots →	101	102	103	104	105	106	107	108	109	110	111	112	201	202	203	204	205	206	207	208	209	210	211	212

Table 1. **Control of Mole Crickets in Flue-cured Tobacco.**
Kenneth Williams & Son, Jeff Davis County, GA - 2006

Treatment Number	Treatment	Rate/1000 plants	Gals. of rinse water/ 100,000 plants	% Damage Mole Crickets[1]
1	Untreated	-	None	3.2
2	Admire Pro 4.6SC	0.4 oz	10	0.7
3	Admire Pro 4.6SC	0.8 oz	10	0.2
4	Admire Pro 4.6SC	1.0 oz	10	0.2
5	Admire Pro 4.6SC	1.2 oz	10	0.1
6	Admire Pro 4.6SC + Admire Pro 4.6SC	0.4 oz. + 0.8 oz	10	0.3
7	Platinum 2SC/ T-MOXX	1.3 oz	10	0.7
8	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz/ 50,000 plants	10	0.3

[1] Mole cricket damage evaluated on May 5 & 8, 2006

Table 2. **Comparing different water rates used in rinsing off Admire Pro 4.6SC treated flue-cured tobacco transplants in the greenhouse. Kenneth Williams & Son Farm Jeff Davis County, GA - 2006**

Treatment Number	Treatment	Rate/1000 plants	Gals. of rinse water/ 100,000 plants	% Damage Mole Crickets[1]
1	Untreated	-	-	3.2
9	Admire Pro 4.6SC	0.8 oz	None	0.2
10	Admire Pro 4.6SC	0.8 oz	2.5	0.1
11	Admire Pro 4.6SC	0.8 oz	5	0.1
3	Admire Pro 4.6SC	0.8 oz	10	0.2
12	Admire Pro 4.6 SC	0.8 oz	20	0.2

[1]**Mole cricket damage evaluated on May 5 & 8, 2006**

Table 3. Suppression of Tomato Spotted Wilt Virus in Flue-cured Tobacco. Kenneth Williams & Son Farm Jeff Davis County, GA - 2006

			Tomato Spotted Wilt Virus (% Symptomatic Plants[1])								
Treatment Number	**Treatments**	**Rate/1000 plants**	**5/8**	**5/15**	**5/23**	**5/29**	**6/5**				
1	Untreated	-	0.7	11.2	18.2	22.2	27.0				
2	Admire Pro 4.6SC	0.4 oz	0.1	6.2	10.8	13.0	18.4				
3	Admire Pro 4.6SC	0.8 oz	0.1	4.1	8.7	11.4	14.9				
4	Admire Pro 4.6SC	1.0 oz	0.1	5.1	8.8	11.2	14.9				
5	Admire Pro 4.6SC	1.2 oz	0.1	3.8	7.0	9.7	12.0				
6	Admire Pro 4.6SC + Admire Pro 4.6SC	0.4 oz + 0.8 oz	0	4.7	8.5	11.2	15.0				
7	Platinum 2SC/ T-MOXX 2SC	1.3 oz	0.1	6.4	10.9	14.1	18.0				
8	Admire Pro 4.6SC + Actigard 50WG	0.8 oz + 0.5 oz/ (50,000 plants)	0.1	2.5	5.1	6.8	9.6				

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

Table 4. Comparing different water rates used in rinsing off Admire Pro 4.6SC treated flue-cured tobacco transplants in the greenhouse. Kenneth Williams & Son Farm, Jeff Davis County, GA - 2006

			Tomato Spotted Wilt Virus (% Symptomatic Plants[1])								
Treatment Number	**Treatments/Rate (0.8 oz/1000 plants)**	**(Gals. of rinse water/ 100,000 plants)**	**5/8**	**5/15**	**5/23**	**5/29**	**6/5**				
1	Untreated	-	0.7	11.2	18.2	22.2	27.0				
9	Admire Pro 4.6SC	None	0	5.4	10.4	12.7	16.1				
10	Admire Pro 4.6SC	2.5 gals	0.1	5.7	9.8	12.1	16.6				
11	Admire Pro 4.6SC	5 gals	0	4.5	8.6	10.9	15.1				
3	Admire Pro 4.6SC	10 gals	0.1	4.1	8.7	11.4	14.9				
12	Admire Pro 4.6SC	20 gals	0	4.8	8.6	10.5	14.6				

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

UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
2006 TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: REGIONAL VARIETY FARM TEST

Farmer Name/Address: DAVID LEE, RT.2, BOX 32 County: BACON
ALMA, GA 31510 912-632-4871

Agent: DANNY STANALAND Plot Size: 4 (48") ROWS X 680'

Specialist Responsible: J. MICHAEL MOORE

Variety: AS PER TREATMENTS Soil Type: Sandy Loam Date Transplanted: 4-20-4

Crop History: 2004: 2005;

Herbicide/Rate: PPI: PROWL 1 PT/A Post Plant; COMMAND 1.5 PT/A

Fungicides/Rate: 1 PT RIDOMIL GOLD Nematicides/Rate: 2.0 GAL NEMACUR

Soil Insecticide/Rate: LORSBAN 3 QT/A PPI
ORTHENE IN TRANSPLANT WATER - 1 LB/A
ADMIRE TRAY DRENCH IN GREENHOUSE - 1.8 OZ/1000 PLTS
ACTIGARD GREENHOUSE TREATMENT - 1.0 OZ/120,000 PLTS

Foliar Insecticide/Rate: WITH EACH CULTIVATION

Date:	Insect: BUDWORMS /	Insecticide: TRACER	Rate: 2 OZ
Date:	Insect: BUDWORMS /	Insecticide: ORTHENE	Rate: 1 LB
Date:	Insect: BUDWORMS /	Insecticide: TRACER	Rate: 2 OZ

Fertility Program:

1st Cultivation:	Analysis: 13-4-13	lb/A: 200
1st Cultivation:	Analysis: 6-6-18	lb/A: 950
1st Cultivation:	Analysis: 155.5-0-0	lb/A: 175

Rainfall: April; May; June;
Irrigation: April; May; 1.0" June;

Topping: Date; Average No. Leaves Per Plant;

Sucker Control:
Material; Rate/Acre; Date;

2006 REGIONAL VARIETY FARM TEST
DAVID LEE
BACON COUNTY

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

			DISEASE RESISTANCE					
Trt No	**VARIETY**	**PEDIGREE**	**BS**	**GW**	**FW**	**RKN**	**BN SP**	**TMV**
1.	NC 2326	(Hicks X 9102)(Hicks) Hicks)Hicks)	L	SU	M			
2.	NC 95	(C-139 X Bel. 4-30) X (C-139 X Hicks)	L	H	M	R		
3.	OX 1117	(K 326 X OX 2022)	R	R		R		
4.	NC TG 138	Hybrid	R	R		TCN/R		
5.	CU 87	(SPT 168 X PD 474)						
6.	RX 409	Hybrid	R	R		TCN/R		
7.	RX 452	Hybrid	R	R		TCN/R		
8.	Spt 240	(SP 168 X SP 190)(SP 168 X SP 117)	R	R		R		
9.	ULT 219							
10.	RJR 37	Hybrid	R	R		TCN/R		TMV
11.	Spt 229	(K 149 X SP 117)(K 149 X SP 151)	R	R	R	R		
12.	XP 257	Hybrid	R			R		
13.	XP 201	Hybrid	R	R		R		
14.	CU 105	Spgt. 168 X PD 474						

[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; BNSP - Brown Spot; TMV- Tobacco Mosaic Virus; TEV-Tobacco Etch Virus; PVY- Potato Virus Y

UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
2006 TOBACCO ON-FARM DEMONSTRATION

Title of Demonstration: RELEASED VARIETY FARM TEST

Farmer Name/Address: MIXON FARMS
WARESBORO, GA County: WARE

Specialist Responsible: J. MICHAEL MOORE

Agent: JAMES JACOBS Plot Size: 2 (46") ROWS X 710"

Variety: AS PER TREATMENTS Soil Type: TIFTON Date Transplanted: 3-31-6

Crop History: 2004; COTTON 2005; TOBACCO

Herbicide/Rate: PPI; 1QT PROWL/A, 1 QT COMMAND/A

Fungicides/Rate: Nematicides/Rate: TELONE 6.0 GAL/A

Soil Insecticide/Rate: LORSBAN; 2 QT/A,
ADMIRE; 1.5 OZ/1000 PLANTS IN PLANT HOUSE

Foliar Insecticide/Rate:
Date: 5/19/05 Insect: BUDWORMS Insecticide: ORTHENE Rate: 0.25 LB/A
Date: 5/26/05 Insect: BUDWORMS Insecticide: TRACER Rate: 1.5 OZ/A

Fertility Program:

At Plant:	Analysis: 10-34-0	gal/A: 15	Date: 3/31/06
Post Plant:	Analysis: 6-6-18	lb/A: 420	Date: 4/10/06
Post Plant:	Analysis: 13-4-13	lb/A: 500	Date: 4/26/06

Rainfall: April: May: June:

Irrigation: Amount; April: May: June:

Sucker Control:
Material; Rate/Acre; Date;

2006 RELEASED VARIETY DEMONSTRATION
MIXON FARMS
WARE COUNTY

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

			DISEASE RESISTANCE[1]					
TRT NO	**VARIETY**	**PEDIGREE**	**BS**	**GW**	**FW**	**RKN**	**BNSP**	**TMV**
1.	NC 71	F1 Hybrid 1995 GL	H	M		R		S
2.	K 326	McNair 225(McNair30 X NC95) 1981	L	L		R		S
3.	NC 471	F1 Hybrid 2003 OX	R	R		R		S
4.	NC 297	F1 Hybrid 1998 GL	R	R		R		TMV
5	NC 102	F1 Hybrid 2002 RICKARD	H	L		TCN/ R		PVY/ TMV/ TEV
6.	GL 350	F1 Hybrid 2003 GL	R	R				S
7	NC 291	F1 Hybrid 1997 CC	R	R		TCN/R	PVY/ TEV	S
8.	NC 299	F1 Hybrid 2001 CC	R	R		TCN/R		S
9.	CC 27	F1 Hybrid 2003 CC	R	R		TCN/R		TMV
10.	RX 118	F1 Hybrid 2004 RICKARD	R	R				S
11.	Spt 210	(SP 116 X G-126) (K 346 X G-28) 2000 SPT	R	R	R	R		S
12.	Spt 234	(SP 168 X K 346) 2004 SPT	R	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; BNSP - Brown Spot; TMV- Tobacco Mosaic Virus; TEV-Tobacco Etch Virus; PVY- Potato Virus Y

TOBACCO--Acreage, Yield and Production by County, Georgia, 2004-2005[1/]

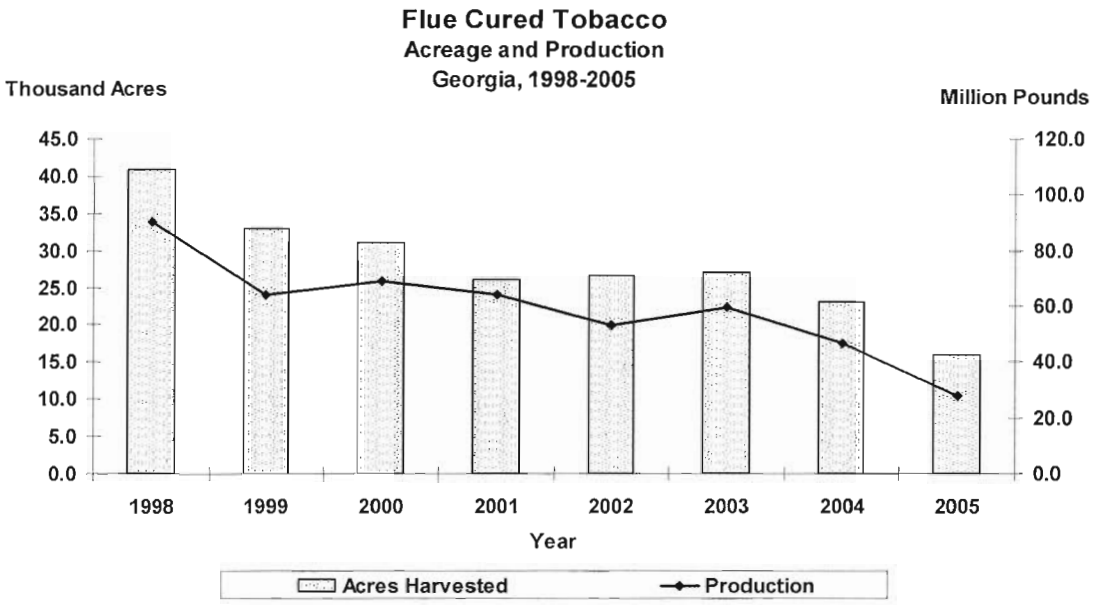
County	2004			2005		
	Harvested	Yield per Acre[2/]	Production	Harvested	Yield per Acre[2/]	Production
	--Acres--	--Pounds--		--Acres--	--Pounds--	
Appling	790	2,005	1,583,000	950	1,595	1,515,000
Atkinson				740	1,805	1,334,000
Bacon	730	1,905	1,391,000	690	1,380	952,000
Berrien	1,330	2,255	3,002,000	810	1,880	1,521,000
Brooks	530	2,340	1,240,000			
Bulloch	1,050	1,490	1,566,000	500	1,440	720,000
Candler	810	1,395	1,130,000			
Coffee	1,660	2,285	3,796,000	1,860	1,940	3,612,000
Colquitt	1,810	2,405	4,350,000	1,290	1,655	2,138,000
Cook	1,050	1,980	2,080,000	850	1,880	1,599,000
Irwin	720	2,400	1,727,000			
Jeff Davis	670	2,145	1,437,000			
Lowndes	1,100	1,990	2,190,000	510	1,425	726,000
Mitchell	740	1,830	1,353,000			
Pierce	1,090	1,990	2,170,000	850	2,000	1,699,000
Tattnall	1,150	1,770	2,038,000			
Thomas	510	2,345	1,196,000			
Tift	890	2,155	1,917,000	670	1,385	927,000
Toombs	630	1,950	1,230,000			
Ware	660	1,740	1,150,000	640	1,960	1,253,000
Combined Counties	5,080	2,000	10,144,000	4,940	1,765	8,713,000

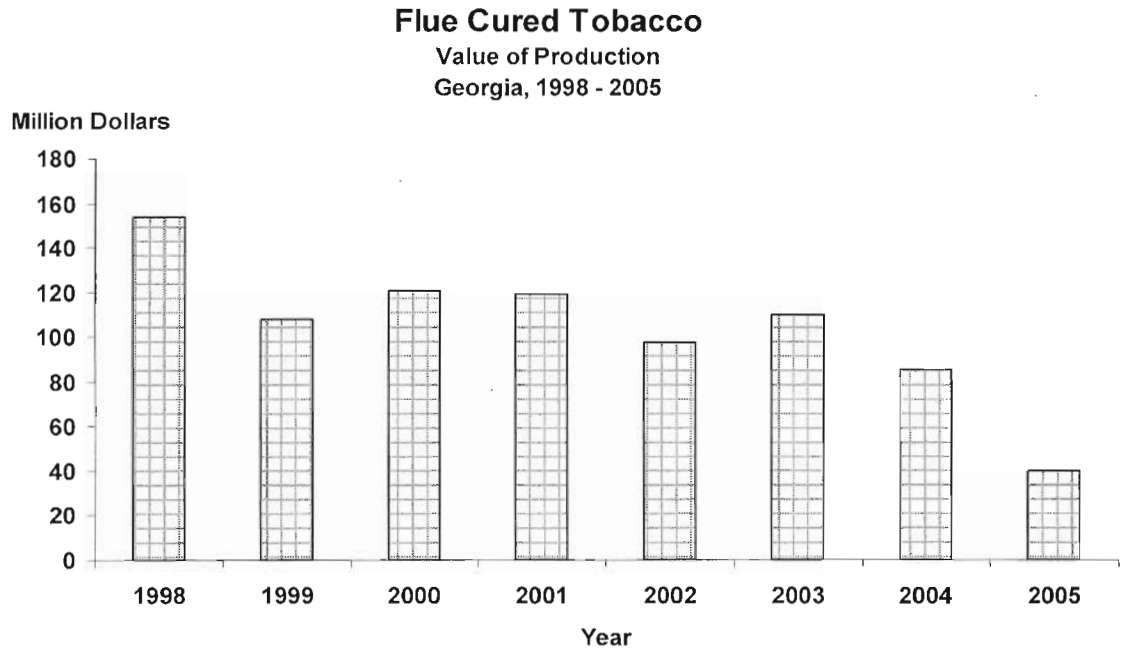
1/ County data that are not published to avoid disclosing individual operations are included in Combined Counties. 2/ Rounded to nearest 5 pounds.

TOBACCO--Acreage, Yield and Production by Agricultural Statistics District and State Total, Georgia, 2004-2005[1/2/]

District	2004			2005		
	Harvested	Yield per Acre[3/]	Production	Harvested	Yield per Acre[3/]	Production
	--Acres--	--Pounds--		--Acres--	--Pounds--	
District 5	900	1,850	1,664,000			
District 6	2,300	1,555	3,573,000	900	1,485	1,338,000
District 7	1,700	2,080	3,533,000			
District 8	11,800	2,205	26,017,000	9,100	1,795	16,348,000
District 9	6,300	1,890	11,903,000	5,300	1,700	9,023,000
Combined Districts				700	1,500	1,051,000
State Total	23,000	2,030	46,690,000	16,000	1,735	27,760,000

1/ Districts 1, 2, 3, and 4 not reported. 2/ District 5 and 7 data are not published to avoid disclosing individual operations are included in Combined Districts. 3/ Rounded to the nearest 5 pounds.


Flue Cured Tobacco
Acreage and Production
Georgia, 1998-2005
Thousand Acres
Million Pounds
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
1998
1999
2000
2001
2002
2003
2004
2005
Year
Acres Harvested
Production


Flue Cured Tobacco
Value of Production
Georgia, 1998 - 2005
Million Dollars
180
160
140
120
100
80
60
40
20
0
1998
1999
2000
2001
2002
2003
2004
2005
Year

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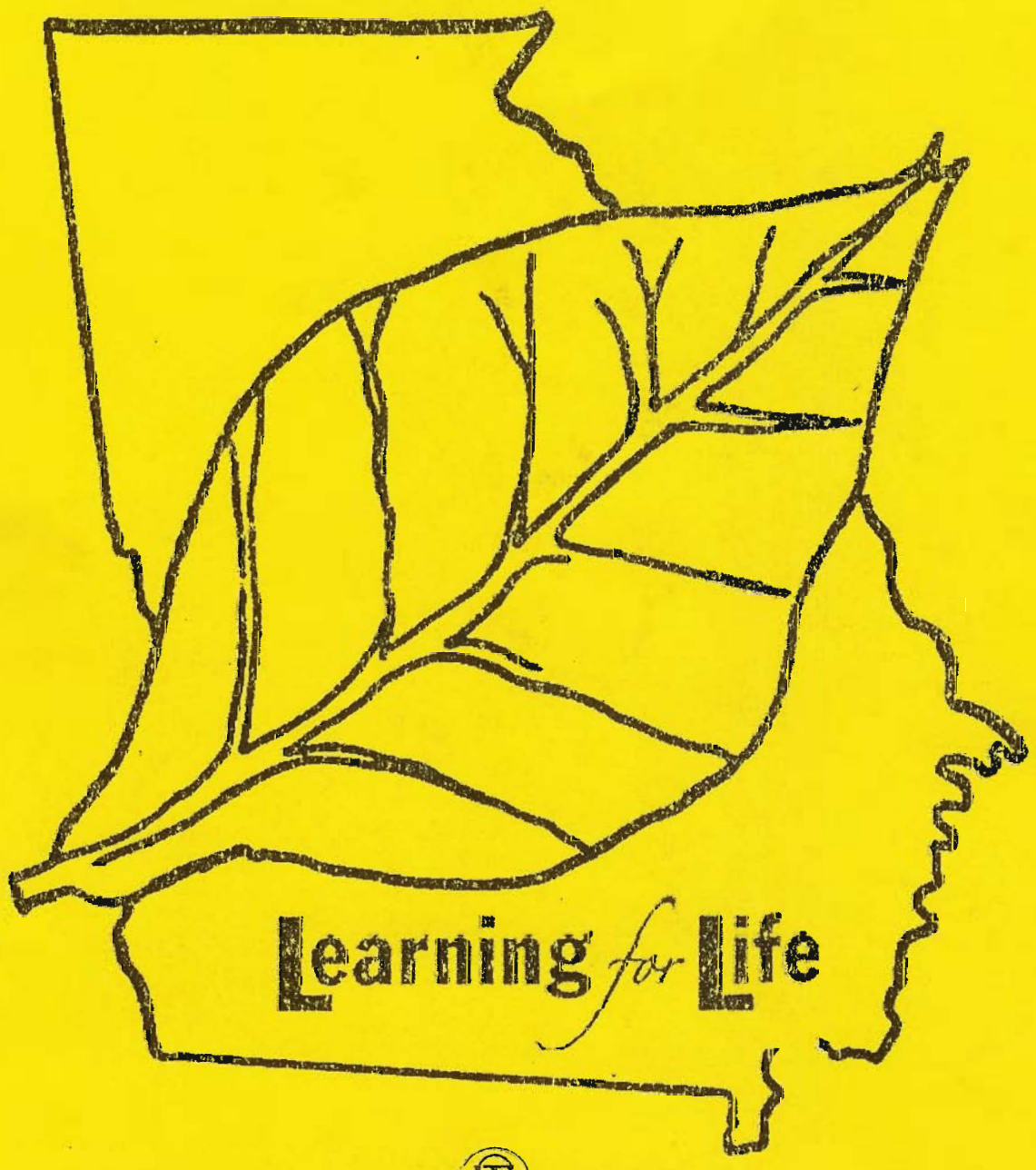
Dr. Scott Angle, Dean and Director
The University of Georgia College of Agricultural and Environmental Sciences

2006
Georgia - Florida Tobacco Tour



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