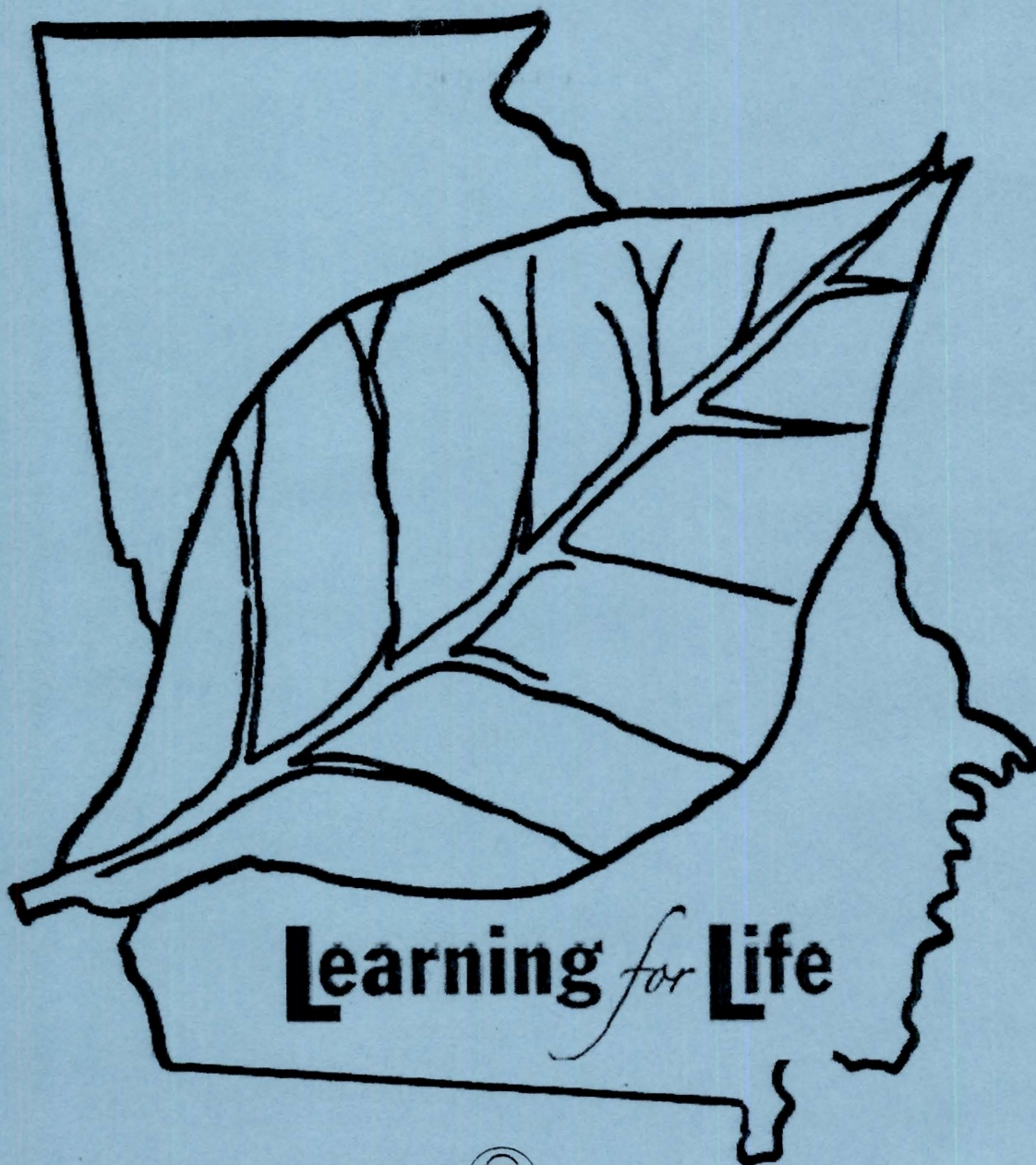


2009

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	229-776-8216
BURLEY COUNTIES					
Towns	706-896-2024	706-896-8523	Union	706-439-6030	706-439-6036

UGA Tobacco Home Page

<http://www.georgiatobacco.com>

Prepared by:

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UGA Tobacco Home Page

<http://www.georgiatobacco.com>

**THE GEORGIA EXTENSION TOBACCO TEAM EXPRESSES
APPRECIATION TO THE FOLLOWING FINANCIAL SUPPORTERS OF THE
2009 GEORGIA TOBACCO TOUR**

AgGeorgia Farm Credit

Georgia Tobacco Commission

Agri Supply - Tifton & Statesboro

Georgia Farm Credit Associations

Agrium U.S. - Rainbow Fertilizer

Gold Leaf Seed Co.

Alliance One International

Leasing Unlimited

Bayer Crop Science

Mosaic USA Inc - KMag

Carolina Soil Company, Inc.

Philip Morris USA

Chemtura Corporation

Plant Health Care Inc.

Cross Creek Seed, Inc.

R J Reynolds Tobacco Co.

Cureco Inc.

SQM

Dow AgroSciences

Syngenta

Drexel Chemical Company

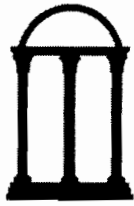
YARA North America

FMC

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 - 2009 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 8, 2009

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 9, 2009

7:30 am - Leave Holiday Inn parking lot.

8:15 am - Arrive Burch Farms - Wayne County
(Regional Farm Test – candidate varieties)
- Randy Franks, County Extension Coordinator

9:30 am - Arrive Jay Davis Farm - Pierce County
(Black Shank Variety Test X Chemical Control Measures)
- James Jacobs, County Extension Coordinator

10:05 am – Arrive Daniel Johnson Farm – Pierce County
- Farm Visit

10:35 am – Arrive Daniel Johnson Farm – Pierce County
- Farm Visit

12:00 am - SPONSORED LUNCH – Golden Corral Family Steakhouse,
1280 Madison Ave S, Douglas, GA 31533

1:15 pm - Leave after lunch

Tuesday, June 10, 2009 (continued)

- 1:30 am - Arrive Nathan Henderson Plot - Coffee County
(Telone II and Pic Plus Fumigant and Temik for nematode control)
- Eddie McGriff, County Extension Coordinator
- 2:40 am - Arrive Troy Aldridge Plot - Coffee County
(Strip-Till Effects on TSWV Incidence)
- Eddie McGriff, County Extension Coordinator
- 3:35 am - Arrive Joey Anderson Farm Stop - Coffee County
- Eddie McGriff, 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 - Charles Seafood (Hwy 82 and Virginia Avenue)
- 7:00 pm - Supper - Location To Be Announced on the Tour

Wednesday, June 10, 2009

- 7:45 am - Leave Holiday Inn parking lot.
- 8:00 am - Arrive Black Shank Farm – UGA Tifton Campus
– Black Shank Farm
Alex Csinos, Pathologist
Tobacco Nematode Control
- 8:45 am - Arrive Bowen Farm - UGA Tifton Campus
– Bowen Farm
- 8:55 Bob McPherson, Entomologist
Tobacco Entomology Research Projects
- 9:25 J. Michael Moore, Extension Agronomist - Tobacco
Actigard Stress Reduction Study
- 9:40 Lara Lee Hickman, Ag Research Coordinator
- TSWV Management
- 10:00 Steve Mullis, Virology Lab Manager
- 10:15 Bob McPherson. Entomologist
- 10:35 Paul Bertrand, Pathologist
Strip-Till Use in Controlling TSWV

Wednesday, June 10, 2009 (continued)

- 10:35 J. Michael Moore, Extension Agronomist - Tobacco
Sidedress Nitrogen Fertilizer Source Demonstration
Transplant Water Fertilizer Demonstration
- 11:00 Steve LaHue, Research Coordinator
Regional Variety Small Plot Test
Georgia Official Variety Test
- 11:45 am - SPONSORED LUNCH -
Courtesy of the Georgia Tobacco Commission
- Tifton Campus Conference Center
(RDC Rd. off Hwy 41 at I-75, Exit 64)
- 12:45 pm - Leave RDC
- 1:40 pm - Arrive Trent Hughes Farm - Berrien County, GA
(Evaluation of Strip-Till Tobacco Production for TSWV Control)
- Tim Flanders, County Extension Coordinator
- 2:15 pm - Arrive Brian Lanier Farm - Berrien County, GA
(Released Varieties Demonstration)
- Tim Flanders, County Extension Coordinator
- 2:50 pm - Arrive Paul Folsom Farm - Lanier County
(Regional Farm Test – candidate varieties)
- Elvin Andrews, County Extension Coordinator
- 5:00 pm - Arrive Roosevelt and Travis Dicks Farm - Columbia County, FL
(Released Varieties Demonstration)
- Bill Thomas, Columbia County Extension Agent

**THIS IS THE END OF
THE 2009 GEORGIA-FLORIDA TOBACCO TOUR
HAVE A SAFE TRIP HOME !**



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DIRECTIONS FOR 2009 GEORGIA-FLORIDA TOBACCO TOUR

Monday, June 8, 2009

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 9, 2009

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.
	Continue on Hwy 84 through Blackshear, Patterson & Offerman
27.25	Left at Screven onto C.W. Collins Street
	and out of town onto Nine Run Road
3.25	Right at Screven Church of God Rd sign
0.35	Cross Dixie Rd at stop sign onto dirt road (Nevada Rd)
1.5	Follow dirt around tobacco field to plot on the right

Burch Farm Regional Variety Farm Test

	Back to Screven
5.1	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
3.5	Left on Old Alma Road / Blackshear Hwy
5.3	Right onto Radio Station Road
2.0	Left onto Millbranch Rd (dirt)
0.6	Left into Jay Davis Farm

Jay Davis Variety X Chemical Control Demonstration

Tuesday, June 9, 2009 (continued)

Mileage Directions (* - indicates traffic assistance needed)

	Right out of Jay Davis Farm
0.6	Left onto Old Alma Road / Blackshear Hwy
0.75	Daniel Johnson Farm stop on left
	Daniel Johnson Farm stop
	Continue toward Alma
13.0	Right at light in Alma onto US 1
.1	Left onto Dixon Street at traffic light
.6	Through traffic light at 16 th Street
.1	Left at traffic light at 12 th Street toward Douglas
10	West through traffic light in Nichols on Hwy 32
11.7	Left at traffic light onto Bowens Mill Rd
0.5	Continue on Bowens Mill Rd over RR crossing at Spooner Rd
0.5	Continue on through traffic light at East Baker Hwy / 158
0.55	Cross Old Axson Rd.
0.66	Continue on through traffic light at Gaskin Ave S
0.30	Right onto Hwy 221 / Madison Ave S
0.3	Right into parking lot at Golden Corral 1280 Madison Ave S, Douglas, GA 31533

Lunch @ Golden Corral

	From lunch
	Right out of parking lot.
0.25	Through stop light at College Park Rd.
0.3	Right onto Hwy 158 / E. Baker St.
1.25	Cross Hwy 221 / 135 still on E. Baker St.
5.8	Right on Burl Mill Rd (at blue sign for TMR ATVs & Dirt Bikes)
3.8	Demonstration on Right of Burl Mill Road just past the Drag Strip
	Nathan Henderson Nematode Control Demonstration

	Back to Hwy 158
3.8	Left onto Hwy 158
5.8	Left at traffic light at East Baker Hwy / 158
0.55	Cross Old Axson Rd.
0.66	Continue on through traffic light at Gaskin Ave S
0.30	Continue through traffic light at Hwy 221 / Madison Ave S
0.5	Left at traffic light onto Hwy 135 toward Willacochee

Tuesday, June 9, 2009 (continued)

Mileage Directions (* - indicates traffic assistance needed)

7.75 Right onto Mora Rd.
Troy Aldridge Plot on Right
Troy Aldridge Strip-Till Demonstration

Leaving Troy Aldridge Farm
Back to Mora Rd.
Right at stop sign onto Mora Rd.

8.8 Right at stop sign onto Bridgetown Road

3.3 Straight through at stop sign onto Hwy 158

3.25 Left onto Younge Fussell Rd.

1.0 **Joey Anderson Tobacco Splitworm Trapping and Control Demo**

Leaving Joey Anderson Farm
Straight ahead to stop sign
Right onto Hwy 149

5.8 Left at stop sign onto Hwy 32

13.2 Through stop light in Ocilla on Hwy 32

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 10, 2009

Mileage Directions (* - indicates traffic assistance needed)

Exit Holiday Inn by way of the rear parking lot
Through Hilton Garden Inn lot to stop sign.
Right onto McCormick Dr.

0.2 Left at light onto Hwy 82 W

0.6 Right at light onto Carpenter Road

1.0 Through light at King Road

0.6 Through light at Whiddon Mill Rd

1.8 Straight beyond stop sign crossing Zion Hope Road

0.6 Left into Black Shank Farm
UGA Tifton Campus Black Shank Farm

Wednesday, June 10, 2009

Mileage Directions (* - indicates traffic assistance needed)

0.6 Right out of Black Shank Farm
Left onto Zion Hope Road
1.3 Right at stop sign onto Hwy 41
1.4 Left at traffic light onto 20th Street
0.4 Through light at Murray Ave
0.5 Through light at Hwy 125/Tift Ave
0.9 Left at traffic light onto Old Ocilla Rd
0.2 Right at light onto Kent Rd.
1.0 Cross at stop sign at New River Church Rd onto Arnett Milling Rd
0.6 Left at stop sign onto Hwy 319
1.0 Right at Mile Marker 16 onto Goat Rd (dirt)
0.66 Left into Bowen Farm
UGA Tifton Campus Bowen Farm

0.66 Right out of Bowen Farm
Left onto Hwy 319
1.0 Right onto Arnett Milling Rd
0.6 Cross at stop sign at new River Church Rd onto Kent Rd.
1.0 Left at traffic light onto Old Ocilla Rd
0.2 Right at traffic light onto 20th Street
0.9 Cross at light at Hwy 125/Tift Ave
0.5 Through light at Murray Ave
0.4 Right at traffic light onto Hwy 41
Left onto RDC Rd
Left into UGA Tifton Campus Conference Center

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

0.2 * After lunch Right out of RDC drive
* 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

Wednesday, June 10, 2009

Mileage Directions (* - indicates traffic assistance needed)

- 0.2 * Right at Traffic light in Nashville onto Hwy 25
0.1 Left at traffic light onto E. McPherson Ave.
1.3 Left onto Radio Station Rd
7.1 Right onto Poplar Springs Church Rd (dirt)
0.25 Trent Hughes Farm
 Trent Hughes Strip-Till Demonstration
- Leaving Hughes Farm
1.6 Right onto Hwy 168
0.65 Left onto Mt. Pleasant Church Rd
0.2 Brian Lanier Farm on Right
 Brian Lanier Released Varieties Demonstration
- Continue south on Mt. Pleasant Church Rd
0.2 Left at stop sign Mudd Creek Road
0.1 Right on Mt Pleasant Church Rd
2.3 Left onto Irene Church Rd
0.7 Right onto Empire Rd
1.2 Left onto Teeterville Rd
1.5 Cross at stop sign at Watson Rd
4.1 * Left into field road
 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 Cross 376 E
2.3 Left at stop sign onto Hwy 41S
7.25 Right on St Rd 143 in Jennings
1.25 cross over I-75, Turn Left onto I-75 S
 Enter I-75 at Exit 467

Wednesday, June 10, 2009 (continued)

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

44 Exit I-75 at Exit 423 , Left at top of exit
0.2 Right onto 242
1.2 Right onto 131
4.5 Left into Dicks Farm
 (**Roosevelt & Travis Dicks Farms**)

**THIS IS THE END OF
THE 2009 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

2009 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: REGIONAL FARM TEST

Farmer Name/Address: FRANKLIN BURCH, 912 294-0273 cell,
3163 Nine Run Rd., Screven, GA 31560-8946

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: RANDY FRANKS

Plot Size: 2 (48") ROWS X 1225

Variety: AS PER PLOT Soil Type: SL Date Transplanted: (4/23/8)

Crop History: 2007: Cotton 2008: Peanuts

Herbicide/Rate: PPI; PROWL 3.3: 2 pt

Fungicides/Rate: Ridomil .75 pts. Two applications

Telone: 7 gallons in March

Soil Insecticide/Rate: LORSBAN 1QT/A MARCH 1, 2008

Foliar Insecticide/Rate: Acephate 1 lb.
Tracer 2.0 ozs.

Fertility Program: 10-34-0 16.5 gallons
Total LBS/A N:98 P:62 K:162

Rainfall: March; 7.90 April; 6.87 May; 6.21 June; 1.24 July;
August;

Topping: Date; Average No. Leaves Per Plant;

Sucker Control:

Material; Rate/Acre; Date;
Material; Rate/Acre; Date;
Material; Rate/Acre; Date;

Table . Yield, Grade Index, Price Index, and Value per Acre of the 2009 Regional Farm Test (lines in their last year of testing before approval for release), Franklin Burch Farm, Wayne County, Georgia.

Trt	VARIETY	PEDIGREE	Disease Resistance					
			BS	GW	FW	RK	BSp	Virus
1.	NC 2326	(Hicks X 9102)(Hicks)Hicks)Hicks) NC	L	SU	M			
2.	NC 95	(C-139XBel.4-30)X(C-139XHicks) NC	L	H	M	R		
3.	XP 324	F1 Hybrid Profigen	R	R				
4.	NCEX 15	F1 Hybrid NC	R	R		TCN /R		
5.	CU 94	F1 Hybrid SC						
6.	EXP 806	F1 Hybrid GL						
7.	RJR 651	F1 Hybrid RJR	R	R		R	R	
8.	CU 90	F1 Hybrid SC						
9.	EXP 803	F1 Hybrid GL						
10.	NCEX 13	F1 Hybrid NC	R	R		TCN /R		
11.	PVH 2110	F1 Hybrid Profigen	L	M		R		
12.	PVH 1452	F1 Hybrid Profigen	R	R		TCN /R		

Grade Index is a numerical value ranging from 1-99 for flue-cured tobacco based on equivalent grades - the higher the number the higher the grade.

Price Index is based on a two year floating average (2008-2009) price for U. S. government grades.

Table . Yield, Grade Index, Price Index, and Value per Acre of the 2009 Black Shank Varieties Test, Jay Davis Farm, Pierce County & Nathan Henderson Farm, Coffee County.

Trt	VARIETY	PEDIGREE	Disease Resistance					
			BS	GW	FW	RK	BSp	Virus
1.	K 326	McNair 225(McNair 30 X NC 95) Gold Leaf Seed Co.	L	L		R		
2.	K 346	McNair 926 X 80241 Gold Leaf Seed Co.	H	H		R		
3.	K 399	(C-139 X C-319) X NC 95 Gold Leaf Seed Co.						
4.	NC 71	F1 Hybrid Gold Leaf Seed Co.	H	M		R		
5.	NC 196	F1 Hybrid Gold Leaf Seed Co.	R	L		R		
6.	NC 471	F1 Hybrid Raynor	R	R				TMV
7.	NC 810	OX 2101 X NC 729 Cross Creek Seed	R	R		R		
8.	Spt 168	Coker 371G X Spt. G 118 Spt	H	H		R		
9.	Spt 225	(SP 168 X K 346) (SPA 95 X SP 168) Spt.	R	R		R		
10.	Spt 227	(SP 151 X K 346) (SP 202 X K 346) Spt.	R	R		R		
11.	Spt 234	(SP 168 X K 346) Speight Seed Farm	R	R		R		
12.	Spt 236	(SP 168 X SP 196) (SP 179 X SP 177) Speight Seed Farm	R	R		R		
13.	CC 35	F1 Hybrid Cross Creek Seed	R	R		M,j/ R		

¹Resistance; H - High; M - Moderate; L - Low; R- Resistant; T - Tolerant; Su - Susceptible
Diseases: BS - Black shank; GW - Granville Wilt; FW - Fusarium Wilt; RK - Root Knot;
Bn. Sp. - Brown spot;
TMV - Tobacco Mosaic Virus; PVY - Potato Virus 'y'; TSWV - Tomato Spotted Wilt Virus;
TCN - Tobacco Cyst Nematode; TEV - Tobacco Etch Virus; M.j - Meloidogyne javanica

Grade Index is a numerical value ranging from 1-99 for flue-cured tobacco based on equivalent grades - the higher the number the higher the grade.

Price Index is based on a two year floating average (2008-2009) price for U. S. government grades.

2009 NEMATICIDE TRIAL

NATHAN HENDERSON FARM

COFFEE COUNTY

52 ROWS X 600-1000' LONG

```
[<----- 780' ----->]
*****GUARD ROWS *****
***** TELONE II *****
***** CHECK *****
***** PIC+ *****
*****GUARD ROWS *****
***** PIC+ *****
***** TELONE II *****
***** CHECK *****
*****GUARD ROWS *****
***** CHECK *****
***** PIC+ *****
***** TELONE II *****
*****GUARD ROWS *****
```

NOTE: EACH ROW OF ***** = 4 ROWS OF TOBACCO

NOTE: ALL PLANTS ARE TREATED WITH ACTIGARD + ADMIRE
EXCEPT ONE ROW FROM EACH FOUR TEST ROWS (BLACK FLAG)

NOTE: GUARD ROWS GET TELONE II

2009 TEMIK TRIAL
TROY ALDRIDGE FARM
COFFEE COUNTY

16 ROWS X 600-1,000'
IN THE MAP EACH ROW OF ***** = 4 ROWS OF TOBACCO
[<-----600-1000'----->]
*****GUARD ROWS*****
****T+CK**** ****T+AA**** ****C+AA**** ****C+CK****
****C+AA**** ****C+CK**** ****T+CK**** ****T+AA****
****T+AA**** ****C+AA**** ****C+CK**** ****T+CK****
****C+CK**** ****T+CK**** ****T+AA**** ****C+AA****
*****GUARD ROWS*****

FIELD TREATMENTS:

- I. T = TEMIK @ 20 lbs/acre
- II. C = UNTREATED

PLANT HOUSE TREATMENTS:

- I. AA = ACTIGARD + ADMIRE
- II. CK = UNTREATED

**EFFECT OF TEMIK WITH AND WITHOUT
ACTIGARD+ADMIRE PRO ON SPOTTED WILT
% SPOTTED WILT**

TRT	COFFEE	APL #1	APL #2	WARE
CK+CK	23.5	35.0	51.1	18.4
TK+CK	21.1	37.4	41.3	18.4
CK+AA	6.6	11.0	20.1	8.2
TK+AA	5.8	11.6	18.5	10.2
LSD(.05)	5.4	5.1	11.0	8.3

**2009 Tobacco Fumigant Trial for Control of Root Knot Nematode
Black Shank Farm- Tifton, Georgia
University of Georgia**

**Alex S. Csinos, UGA Plant Pathology
Lara Lee Hickman, UGA Plant Pathology
Lewis Mullis, Plant Pathology**

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

Plot size: 32' length with 10' alleys
Replications: five

Tobacco variety: K394
Nematode Block 5

<u>Treatment</u>	<u>Rate</u>	<u>Application</u>
1. Non-treated control	N/A	N/A
2. Telone II	6 gal/A	Chisel
3. Chloropicrin Plus	4 gal/A	Chisel
4. Vapam	25 gal/A	Chisel, rototill and seal
5. Vapam Chloropicrin Plus	25 gal/A 1 gal/A	Chisel, rototill and seal
6. Vapam Chloropicrin Plus	25 gal/A 2 gal/A	Chisel, rototill and seal
7. Vapam Chloropicrin Plus	25 gal/A 3 gal/A	Chisel, rototill and seal
8. Vapam	37.5 gal/A	Chisel, rototill and seal
9. Vapam Chloropicrin Plus	37.5 gal/A 1 gal/A	Chisel, rototill and seal
10. Vapam Chloropicrin Plus	37.5 gal/A 2 gal/A	Chisel, rototill and seal

2009 Tobacco Entomology Research Projects

Robert M. McPherson, Professor, Wesley Stephens, Ag Research Assistant III,
and Charlie Hill, Student Worker

Test 1. Tobacco Budworm and Tobacco Hornworm Control

- 12 Foliar insecticide treatments
- RCBD, 4 reps, plots 3 rows x 40 ft. with 6 ft. alley

Test 2. Tobacco Budworm and Tobacco Hornworm Control

- 9 Foliar insecticide treatments
- RCBD, 4 reps, plots 3 rows x 40 ft. with 6 ft. alley

Test 3. Transplanting insect control and TSWV suppression

- 8 TD or TPW insecticide treatments
- RCBD, 4 reps, plots 2 rows x 50 ft. with 6 ft. alley

Test 4. Splitworm, Budworm and Hornworm Control

- 12 Foliar insecticide treatments
- RCBD, 4 reps, plots 3 rows x 40 ft. with 6 ft. alley

Test 5. Nitrogen fertility impacts on insect pests and TSWV suppression

- 5 early season nitrogen rates
- RCBD, 4 reps, plots 2 rows x 58.5 ft. with 6 ft. alley

Test 6. Season-long Monitoring of Tobacco Splitworm Moth Activity

- 4 splitworm pheromone traps located in test field
- Weekly trap catch January- December 2009
- Weekly mean catch data included in the statewide pest alert

Test 7. Thrips Survey in Tobacco Farmscape

- Collect thrips from weed hosts Jan.-May 2009
- Collect thrips on tobacco foliage and blooms throughout season
- Collect thrips on sticky traps weekly from Jan.- Dec.

The Entomology trials in 2009 were supported with funds received from The Georgia Agricultural Experiment Stations, The Georgia Agricultural Commodity Commission for Tobacco, Bayer CropScience, Chemtura, Dow AgroScience, DuPont, FMC Corporation, and Syngenta.

**2009 Entomology Tobacco Test 1 & Test 2
Worm Control**

415	417		414	419		420	420
						A	
315	320		318	413		416	418
	A						
316	314		320	317		319	313
218	215		219	214		217	220
							A
115	118		120	216		213	220
			A				
119	113		116	120		114	117
410	402		406	408		412	404
407	405		411	401		409	403
306	311		302	310		308	301
312	307		305	303		304	309
205	210		203	211		207	212
209	204		208	202		201	206
102	112		109	110		103	108
107	106		101	104		105	111

6 beds skip 6 beds skip 6 beds

Plots 3 rows 40 ft. long with 6 ft. alley, RCBD with 4 reps.
Tobacco variety NC 71, transplanted on 13 April. All transplants are untreated (no insecticides prior to foliar applications).

Entomology Tobacco Test 1
TBW and THW Control

Treatment	Form./Acre	Method
1. Untreated		
2. Voliam Flexi 40WG	2.5 oz	F
3. Voliam Flexi 40WG	4.0 oz	F
4. Voliam XPress 1.25ZC	5.0 oz	F
5. Voliam XPress 1.25ZC	7.0 oz	F
6. Voliam XPress 1.25ZC	9.0 oz	F
7. Tracer 4SC	2.9 oz	F
8. Belt 480SC	3.0 oz	F
9. Belt 480SC + NIS	3.0 oz + 0.25% v/v	F
10. Coragen 1.67SC	4.0 oz	F
11. Othene 97PE	12.0 oz	F
12. Brigadier 2EC	6.4 oz	F

Entomology Tobacco Test 2
TBW and THW Control

Treatment	Form./Acre	Method
13. Coragen 1.67SC	3.5oz	F
14. Coragen 1.67SC	5.0 oz	F
15. HGW86 10OD	13.5 oz	F
16. HGW86 10OD	27.0 oz	F
17. Denim 0.16EC	10 oz	F
18. Tracer 4SC	2.9 oz	F
19. Rimon 0.83 EC	12.0 oz	F
20. Rimon & Tracer	12 oz & 2.9 oz	F
20A. Untreated		

* Rimon on first application and Tracer 7-10 days later during second application.

2009 Entomology Tobacco Test 3
 At planting insect control and TSWV suppression

425	422	421	428	427	424	423	426
326	328	323	325	322	327	324	321
223	221	224	222	226	228	225	227
126	123	125	121	124	127	122	128

-----Road-----

NC-71 flue-cured tobacco transplanted on 10 April. Plots 2 rows 50 ft. long with 6 ft. alley, RCBD with 4 reps.

Tobacco 2009 Entomology Test 3
Pre-plant and transplant insecticide treatments

Product and formulation/acre		Percent tomato spotted wilt symptomatic plants				
		13 May	20 May	27 May	3 June	10 June
Coragen 1.67SC	5.0oz TPW	2.0	15.4	35.4	45.3	
Coragen 1.67SC	7.0oz TPW	2.0	10.7	34.4	41.4	
HGW 86 20SC	10.3oz TPW	0.5	7.3	32.9	47.3	
Admire Pro 4.6	4.2oz TD	0.0	3.6	17.3	27.8	
HGW 86 20SC	10.3oz TD	0.5	5.1	26.5	42.3	
Durivo 2.5SC	10.3oz TD	3.1	9.7	24.6	30.7	
Durivo 2.5SC	10.3oz TPW	3.2	8.4	26.0	32.7	
Untreated		2.1	16.0	32.9	38.1	

NC-71 flue-cured tobacco transplanted on 10 April. Plots 2 rows x 50 ft. with 6 ft. alley, arranged in a RCBD with 4 reps. Transplant water treatments (TPW) applied in 2 oz. of water per plant (109 gpa) and tray drench treatments (TD) applied in 200 ml of water per 242 cell tray on 11 May (48 hours before transplanting).

**2009 Entomology Tobacco Test 4
Splitworm, Budworm and Hornworm Control**

433	435		440	437
430	431		436	432
438	429		439	434
329	338		330	340
xxx	335		337	332
xxx	334		339	331
xxx	xxx		336	333
xxx	xxx		240	235
233	229		236	239
237	232		230	231
234	238		131	134
133	137		130	138
136	140		132	139
129			135	
7 rows		skip	8 rows	

K-326 flue-cured tobacco transplanted on 24 March. Plots 3 rows x 40 ft. with a 6 ft. alley on each end, arranged in a RCBD with 4 reps. First foliar insecticide application made on 26 May and the second application made on 5 June.

Entomology Tobacco Test 4
Splitworm Control with Foliar Insecticides

Treatment	Form./Acre
29. Tracer 4SC	2.5 oz
30. Orthene 97PE	0.775 lbs
31. Coragen 1.67SC	5 oz
32. Brigade 2EC	4 oz
33. Rimon 0.83EC	12 oz
34. Warrior 1CS	3.2 oz
35. KGW86 10OD	20 oz
36. Belt 480SC	3 oz
37. Durivo 2.5SC	10.3 oz
38. Voliam Flexi 40WG	4 oz
39. Voliam XPress 1.25ZC	7 oz
40. Untreated	

First application when Splitworm moth counts reach 20 per trap,
the second application 10 days later

2009 Tobacco Entomology Test 4
Splitworm, Budworm and Hornworm Control

Treatment and form./acre	Worms per plot (60 plants)-26 May appl.					
	Pre-T		3 DAT		7 DAT	
	HW	TBW	HW	TBW	HW	TBW
Tracer 4SC 2.5oz	15.7	3.3	0.3	0.5	0.0	0.0
Orthene 97PE 0.775lbs	17.7	2.7	1.5	1.5	1.0	1.0
Coragen 1.67SC 5.0oz	20.5	3.0	1.3	0.0	0.0	0.0
Brigade 2EC 4.0oz	11.3	2.7	0.8	0.8	0.0	0.3
Rimon 0.83EC 12.0oz	17.5	4.0	3.3	1.5	1.3	1.3
Warrior 1CS 3.2oz	13.0	2.7	1.0	1.3	0.0	0.8
KGW86 10OD 20.0oz	12.0	2.7	2.8	0.3	0.5	0.0
Belt 480SC 3.0oz	14.7	3.0	1.0	1.3	0.0	0.0
Durivo 2.5SC 10.3oz	11.7	2.7	0.3	0.3	0.0	0.3
Voliam Flexi 40WG 4.0oz	13.7	2.0	1.0	0.5	0.5	0.3
Voliam Express 1.25ZC 7.0oz	20.0	1.5	0.0	0.5	0.3	0.3
Untreated	14.7	2.0	8.8	3.3	3.3	2.3

K-326 flue-cured tobacco transplanted on 24 March. Foliar applications made on 26 May and on 3 June with a CO₂-powered backpack sprayer delivering 20.5 gpa through 3 TX-12 nozzles per row at 40 psi.

Table 1. Effects of selected foliar and transplant water (TPW) insecticide treatments on the abundance of tobacco hornworms (THW), tobacco budworms (TBW), plant damage rating and tobacco splitworm tunnels per plot on flue-cured tobacco, Tift County, Ga , 2008.

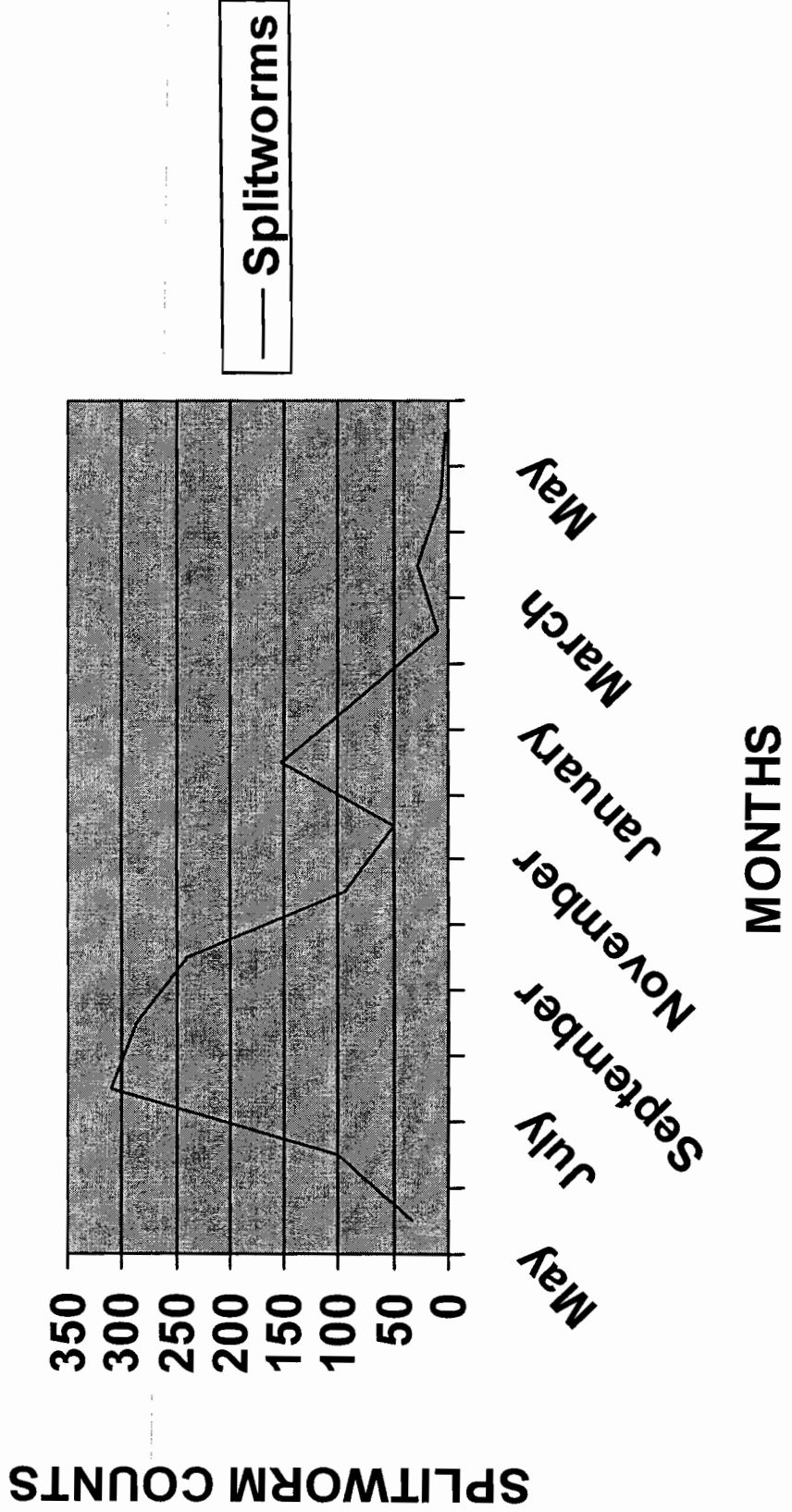
Treatment and formulation per acre	Worms per plot (42 plants)								Damage Rating* (0-5)	Split worm tunnels
	7 DAT (1 st)		7 DAT (2 nd)		11 DAT (2 nd)		TBW	TBW		
	TBW	THW	TBW	THW	TBW	THW				
Tracer 4SC 2.5oz	0.0b	0.3ab	0.8f	0.0b	0.0b	0.0e	0.0e	0.2e	23.0abc	
Orthene 97PE 0.775lb.	0.3b	0.0b	5.0def	0.3b	0.3b	2.3cde	2.3cde	1.0d	32.8a	
Lannate 2.4LV 24oz	0.5ab	0.0b	8.5b-e	0.0b	0.0b	3.8bcd	3.8bcd	1.0d	27.0ab	
Coragen 1.675 5oz TPW	1.0ab	0.0b	5.5def	2.0b	2.0b	3.5bcd	3.5bcd	1.2bcd	3.8d	
Coragen 1.675 5 oz	0.0b	0.0b	0.5f	0.0b	0.0b	0.0e	0.0e	0.3e	1.3d	
Brigade 2E 4oz TPW	2.3a	1.0ab	17.5a	2.3b	2.3b	10.3a	10.3a	2.3a	26.0ab	
Brigade 2E 4oz	1.3ab	0.0b	6.8cde	0.0b	0.0b	2.5cde	2.5cde	1.1cd	0.0d	
Assail 30 WP 3oz	1.0ab	0.5ab	9.5bcd	0.3b	0.3b	6.0b	6.0b	1.5bc	29.3ab	
Rimon 0.83 EC 12oz	0.8ab	1.0ab	7.5cde	0.8b	0.8b	6.3b	6.3b	1.3bcd	11.3cd	
Warrior 1EC 3.9oz	1.0ab	0.0b	10.8bc	0.0b	0.0b	5.3bc	5.3bc	1.6b	2.5d	
Steward 1.25 EC 10oz	0.3b	0.0b	3.8ef	0.0b	0.0b	1.3de	1.3de	0.5e	18.0bc	
Untreated	1.3ab	2.0a	13.5ab	6.3a	6.3a	13.3a	13.3a	2.3a	26.3ab	

NC-71 flue-cured tobacco was transplanted on 25 April at a rate of 7000 transplants per acre. Transplant water (TPW) treatments were applied at transplanting in 100 gpa of water. Foliar sprays were applied on 3 June (1st appl.) and 12 June (2nd appl.) with a CO₂-powered backpack sprayer delivering 24.8 gpa at 40psi with 3 TX-12 nozzles per row. THW represents tobacco hornworm larvae and TBW represents tobacco budworm larvae. Column means followed by the same letter are not significantly different (Waller-Duncan k-ratio t-test, P=0.05).

*Mean damage rating from 10 plants on row 1 of each plot. Individual plant damage ranged from 0 (no leaf damage) to 5 (all leaves completely defoliated).

Weekly Splitworm Moth Counts, Tift Co. GA

2008-2009



2009 Entomology Tobacco Test 5. Nitrogen Fertility Study

404	405	402	401	403
302	301	305	303	304
203	205	202	204	201
104	103	101	105	102

Nitrogen Rates

- 1. 0**
- 2. 45 lbs/a**
- 3. 60 lbs/a**
- 4. 75 lbs/a**
- 5. 90 lbs/a**

**Tobacco variety K326 (no insecticides), transplanted on April 9.
Plots 2 rows by 58.5 feet (32 plants/row), RCBD with 4 replications.**

2009 Tobacco Entomology Test 5
Nitrogen rate affects on insect pests and TSWV

Nitrogen Rate	Percent tomato spotted wilt symptomatic plants				
	20 May	27 May	3 June	10 June	17 June
0	1.4	2.1	4.0		
45 lbs/a	1.4	7.8	9.2		
60 lbs/a	2.4	9.7	13.1		
75 lbs/a	2.4	8.7	11.8		
90 lbs/a	1.8	10.8	13.7		

K-326 flue-cured tobacco transplanted on 9 April. Plots 2 rows x 58.5 ft. with 6 ft. alley, arranged in a RCBD with 4 reps. All plots receiving nitrogen were treated with 45 lbs. N applied on 21 April as 500 lbs. per acre of 6-6-18 plus 100 lbs per acre of 15.5-0-0. On 11 May, the 60 lbs. N rate received an additional 15 lbs. of N applied as 250 lbs. per acre of 6-6-18, while the 75 lbs. N rate received 250 lbs. per acre of 6-6-18 plus 100 lbs. per acre of 15.5-0-0, and the 90 lbs. N rate received 250 lbs. per acre of 6-6-18 plus 200 lbs. per acre of 15.5-0-0.

2009 Tobacco Entomology Test 7

Thrips survey in the tobacco farmscape

Thrips identified on weed hosts in the tobacco farmscape from January 1 - May 12, 2009 (still numerous samples to mount and identify) include 112 *F. fusca*, 38 *F. occidentalis*, 141 *F. tritici*, and 142 other adult thrips species. There also have been over 1000 immature thrips collected from the weed hosts. Thrips numbers on weed hosts were generally lower during this winter and spring survey in 2009 than in previous years. The most common weed species with thrips populations included wild radish, Carolina geranium, primrose, clovers, nutsedge, corn spurry, broomsedge, and dandelion.

Thrips on tobacco foliage in 2009 were very low during the April and early May sampling dates, then rapidly increased. Thrips peaked on tobacco foliage at around 20-30 thrips per plant in the early transplanted tobacco (March 24), and peaked on the later transplanted tobacco (April 10) in late May at around 10-15 thrips per plant. Over 90% of the foliage thrips on tobacco were the tobacco thrips, *Frankliniella fusca*, but some other thrips species were observed (mostly the cereal thrips, *Limothrips cerealium*).

The weekly thrips captures on sticky traps at the Bowen Farm research site were very low in January and February, but some *F. fusca* and flower thrips were collected both months. March captures averaged around 2-3 *F. fusca* and 10-15 flower thrips per trap. April captures averaged around 60 thrips per trap, most were the flower thrips species but on some weekly samples there were 3-4 *F. fusca* per trap. May captures averaged around 10-15 *F. fusca* and 100-125 flower thrips per trap.

**UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATION
JEFF DAVIS COUNTY & TIFT COUNTY, GEORGIA – 2009**

Kenneth, Jason & Ken Williams, Farmer Cooperators; Tim Varnedore, County Extension Coordinator;
J. Michael Moore, Extension Agronomist- Tobacco; David C. Jones, Extension Entomologist (Retired);
Paul Bertrand, Pathologist (Retired); Chris Chammoun, Ag Extension Technician;
Steve LaHue, Research Coordinator; Ed Troxell, Research Coordinator;

**EVALUATION OF SQM ELEMENT Q FOR REDUCING PLANT STRESS ASSOCIATED WITH
THE APPLICATION OF ACTIGARD IN FLUE-CURED TOBACCO
KENNETH & JASON WILLIAMS FARM – JEFF DAVIS COUNTY, GA – 2009**

MATERIALS AND METHODS

Plots: Four rows, 46 inches wide and 100 feet long. Approximately 266 plants per plot.
Approximately 7,600 plants per acre. Randomized complete block design with 4 replications per
treatment. Alleys 30 feet wide. Transplant water applied at the rate of 150 gallons per acre.

Application: Telone II (6 gals/A) was applied to the plots.
Employ was applied to the plants in the greenhouse on April 1, 2009 for treatment 13 and April
16, 2009 for treatment 14.
Admire Pro, Employ, & Actigard 50WG applied to plants in the greenhouse on April 16, 2009.

Variety: Tobacco cultivar NC 297 seeded January 23, 2009 transplanted April 23, 2009.

**EVALUATION OF SQM ELEMENT Q FOR REDUCING PLANT STRESS ASSOCIATED WITH
THE APPLICATION OF ACTIGARD IN FLUE-CURED TOBACCO
– CPES, BOWEN FARM, TIFTON, GA – 2009**

MATERIALS AND METHODS

Plots: One rows, 44 inches wide and 59 feet long. Approximately 32 plants per plot.
Approximately 6.440 plants per acre. Randomized complete block design with 4 replications per
treatment. Alleys 6 feet wide. Transplant water applied at the rate of 180 gallons per acre.

Application: Telone II (10 gals/A) was applied to the plots.
Employ was applied to the plants in the greenhouse on April 1, 2009 for treatment 13 and April
16, 2009 for treatment 14.
Admire Pro, Employ, & Actigard 50WG applied to plants in the greenhouse on April 16, 2009.

Variety: Tobacco cultivar NC 297 seeded January 23, 2009 transplanted April 24, 2009.

(Trts 13 &14 applications to seedlings removed from the greenhouse only due to test intent and concerns of drift in the field.)

(Trts 15 and 16 are being considered for inclusion in the study.)

Notes:

NPK standard float bed fertilization program (100 ppm N weeks 1-4, followed by 150 ppm weeks 5-10)
 Actigard applied as a drench over trays on float water (1oz./100,000 tray cells on transplant sized plants) in designated rows 7 days prior to transplanting.
 9-45-15 applied to designated treatments at 6 lbs / 100 gallons of water applied per acre at transplanting.
 NC 297 seeded on Friday, January 23, 2009

Greenhouse Layout
 (gas tank, greenhouse end)

TransPlantWater only		TPW+ 9-45-15	
TRT No.	BORDER		TRT No.
1	NPK standard		7
3	NPK standard + Element Q1		9
5	NPK standard + Element Q2		11
15	Admire Pro	Admire Pro + Actigard	16
2	NPK standard	+ Actigard	8
4	NPK standard + Element Q1	+ Actigard	10
6	NPK standard + Element Q2	+ Actigard	12
13 No 9-45-15	Employ followed by Actigard (7 trays only)	(Employ + Actigard) (7 trays only)	14 No 9-45-15
TransPlantWater only			TPW+ 9-45-15

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

Each row across GH consists of 14 trays. Each row of trays will be split between plots which have not fertilizer in the transplant water and plots which receive 6 lb / 100 gallons of water of 9-45-15, except for 13 & 14 which will be sprayed 7 trays per treatment separately.

**EVALUATION OF SQM ELEMENT Q FOR REDUCING PLANT STRESS ASSOCIATED WITH
THE APPLICATION OF ACTIGARD IN FLUE-CURED TOBACCO
KENNETH & JASON WILLIAMS FARM – JEFF DAVIS COUNTY, GA – 2009**

Experimental Design:

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

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

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

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

Two additional treatments being considered for inclusion in the test.

Plots are four rows of tobacco with a skip row every ninth row. Application of Employ in the field is not possible in this case due to the potential of drift.

Treatment	TSWV Symptomatic Plants per 4 row Plot 05/16/09	% TSWV Symptomatic Plants per 4 row Plot 05/16/09		
1	126.75	47.6		
2	56.5	21.24		
3	120.5	45.30		
4	44	16.54		
5	134	50.38		
6	49	18.42		
7	129.25	48.59		
8	74.5	28.00		
9	123.75	46.52		
10	57.5	21.61		
11	141.25	53.10		
12	47.5	17.85		
13	63.75	23.97		
14	53.25	20.02		
15	34.75	13.06		
16	10.75	4.04		

**EVALUATION OF SQM ELEMENT Q FOR REDUCING PLANT STRESS ASSOCIATED WITH
THE APPLICATION OF ACTIGARD IN FLUE-CURED TOBACCO
– CPES, BOWEN FARM, TIFTON, GA – 2009**

Experimental Design:

Treatments:	9	11	16	7	4	12	1	13	15	2	14	5	3	6	10	8
Plots →	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64

Treatments:	15	6	4	10	1 ed it	12	8	11	5	9	13	1	16	14	3	7
Plots →	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

Treatments:	7	5	14	11	2 ed it	13	15	3	6	16	9	2	10	8	4	12
Plots →	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Treatments:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Plots →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Two additional treatments being considered for inclusion in the test.
Plots are four rows of tobacco with a skip row every ninth row. Application of Employ in the field is not possible in this case due to the potential of drift.

BOWEN FARM PLOT

TRT	% TSWV
9	47.9
11	45.8
3	44.9
7	34.0
8	33.5
5	32.4
12	31.2
1	28.0
2	21.8
10	19.4
15	19.1
4	18.3
13	17.2
14	14.5
6	13.1
16	7.1
<i>LSD (0.05)</i>	12.5

**Evaluation of application techniques and reduced phytotoxic effects
of Actigard and Admire for Tomato Spotted Wilt Virus (TSWV)
2009 Bowen Farm- Tifton, Georgia
University of Georgia- A.S. Csinos**

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

Plot size: 32 feet long w/ 12' alleys

Tobacco variety: NC 71

Replications: five

Planting date: March 26, 2009

Randomized Complete Block Design (RCBD)

*1st Symptom of TSWV April
30*

Treatment # Greenhouse¹

Field- Actigard (0.5 oz/A)^{2,3}

1. Non-treated	None
2. Non-treated	Actigard 1 st symptom- Inject + 1 week + 1 week
3. Non-treated	Actigard 1 st symptom- Spray + 1 week + 1 week
4. Actigard and Admire Pro	Actigard 1 st symptom- Spray + 1 week + 1 week
5. Actigard and Admire Pro	Actigard 1 st symptom- Inject + 1 week + 1 week
6. Admire Pro	Actigard 1 st symptom- Spray + 1 week + 1 week
7. Admire Pro	Actigard 1 st symptom- Inject + 1 week + 1 week
8. Admire Pro and Actigard	Admire Pro 1 st symptom- Spray + 1 week + 1 week
9. Admire Pro and Actigard	Admire Pro 1 st symptom- Inject + 1 week + 1 week
10. Admire Pro	Admire Pro 1 st symptom- Spray + 1 week + 1 week
11. Admire Pro	Admire Pro 1 st symptom- Inject + 1 week + 1 week
12. Admire Pro	Actigard 1 st symptom- Spray + 2 weeks

¹ Actigard (2 g ai/7000 plants) and Admire Pro (1 Oz/1000 plants) applied in the float house.

². Actigard 50 WP applied at 0.5 oz/A at 1st symptom of TSWV in the non-treated control plot.

³. Admire Pro field rate of 5.6 oz/A

Table 1. 2009 Evaluation of Application Techniques and Reduced Phytotoxic Effects

**of Actigard and Admire Pro for Tomato Spotted Wilt Virus (TSWV) Mid Season
Tomato Spotted Wilt Virus Percentage**

Treatment (Greenhouse)	% TSWV (as of 04 June)*
1. Non-treated	39.6 a
2. Non-treated	12.8 bcd
3. Non-treated	7.0 d
4. Actigard and Admire Pro	6.4 d
5. Actigard and Admire Pro	8.7 cd
6. Admire Pro	8.8 cd
7. Admire Pro	11.2 bcd
8. Admire Pro and Actigard	19.1 bcd
9. Admire Pro and Actigard	13.6 bcd
10. Admire Pro	24.8 b
11. Admire Pro	21.4 bc
12. Admire Pro	19.4 bcd

Field application dates for treatments 1 thru 11 were 01 May (1st symptom), 07 May(+ 1 week) & 14 May(+ 1week). Application dates for treatment 12 were 01 May (1st symptom) and 14 May (+ 2 weeks).

**Calculated using stand counts made from 15 April through 04 June with TSWV plants being flagged every 7 days.*

**Modeling Field Application of Actigard for Tomato Spotted Wilt virus (TSWV)
2009 Bowen- Tifton, Georgia
University of Georgia**

Alex Csinos, UGA Plant Pathology
Lara Lee Hickman, UGA Plant Pathology

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

Plot size: 32 feet w/ 12' alleys

Tobacco variety: NC 71

Replications: five

Date Planted: March 26, 2009

Randomized Complete Block Design (RCBD)

1st Symptom TSWV flagged on April 30,

2009

<u>Treatment # Greenhouse¹</u>	<u>Field (Post Plant) Actigard²</u>	<u>Field Spray Application Date</u>
1. None	None	None
2. Actigard and Admire Pro	None	None
3. Actigard and Admire Pro	35 days	May 01, 2009
4. Actigard and Admire Pro	42 days	May 07, 2009
5. Actigard and Admire Pro	49 days	May 14, 2009
6. Actigard and Admire Pro	56 days	May 21, 2009
7. Actigard and Admire Pro	63 days	May 28, 2009
8. Actigard and Admire Pro	70 days	June 04, 2009
9. Actigard and Admire Pro	1 st symptom ³	May 01, 2009
10. Actigard and Admire Pro	1 st Symptom + 1 week	May 01 + May 07, 2009
11. Actigard and Admire Pro	1 st Symptom + 1 week + 1 week	May 01 + May 07 + May 14, 2009
12. Admire Pro	1 st Symptom + 2 weeks +2 weeks	May 01 + May 14 + May 28, 2009

¹ Actigard applied at 2 g ai/7000 plants and Admire Pro applied at 1 oz/1000 plants in the floathouse.

² Actigard 50 WP application at 0.5 oz/A in a band over the row.

³ First symptom trigger is 1st symptom detected on non-treated control plants.

Table 1. Modeling Field Application of Actigard for Tomato Spotted Wilt virus (TSWV) Mid-

Season Tomato Spot Wilt Percentage

Treatment (Greenhouse)	% TSWV (as of 04 June)	Field Application Date
1. None	39	No Field Application
2. Actigard and Admire Pro	36	No Field Application
3. Actigard and Admire Pro	24	01 May
4. Actigard and Admire Pro	31	07 May
5. Actigard and Admire Pro	39	14 May
6. Actigard and Admire Pro	18	21 May
7. Actigard and Admire Pro	33	28 May
8. Actigard and Admire Pro	37	04 June
9. Actigard and Admire Pro	11	01 May
10. Actigard and Admire Pro	7	01 May and 07 May
11. Actigard and Admire Pro	10	01 May, 07 May & 14 May
12. Admire Pro	17	01 May, 14 May & 28 May

**Calculated using stand counts made from 15 April through 04 June with TSWV plants being flagged every 7 days.*

2009 Johnson Variety Trial
Bowen Farm- Tifton, GA University of Georgia
Alex S. Csinos, UGA Plant Pathology
Lara Lee Hickman, UGA Plant Pathology

5	5	5	5	5	5	5	5	5	5	5	5	5	
0	0	1	0	0	0	0	0	0	0	0	0	1	
9	6	0	8	3	5	7	4	2	4	2	4	4	
A	B	A	B	A	B	A	B	A	B	A	B	A	B

5	1	4	4	4	4	4	4	4	4	4	4	4	4
1	0	0	1	0	0	0	0	1	1	1	1	0	0
3	8	2	6	8	0	2	5	1	4	1	3	7	3
A	B	A	B	A	B	A	B	A	B	A	B	A	B

5	5	3	3	3	3	3	3	3	3	3	3	3	3
0	1	0	0	1	0	0	1	1	0	0	0	1	0
1	1	1	9	3	2	2	3	0	5	8	1	4	4
A	B	A	B	A	B	A	B	A	B	A	B	A	B

1	2	2	2	2	2	2	2	2	2	2	2	2	2
0	1	0	1	0	1	0	1	0	0	0	0	1	0
5	0	3	4	0	4	5	9	2	1	2	6	1	8
A	B	A	B	A	B	A	B	A	B	A	B	A	B

1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	0	1	1	0	0	1	0	1	1	0	0	0	1
1	4	4	4	2	7	2	9	3	6	3	6	3	3
A	B	A	B	A	B	A	B	A	B	A	B	A	B

Split Plot Design Replications: five with approx. 25 plants per plot Location: Pivot F
 Two row plots- A= non-treated plants B= plants treated with Actigard and Admire in the greenhouse
 Rates: Actigard 2g ai/7000 plants Admire Pro 1.0z/1000 plants Planted March 25, 2009
2009 Johnson Variety Trial

Cultivars

- | | | | | |
|----------|----------|-----------|------------|-----------|
| 1. CU 9 | 4. CU 75 | 7. CU 100 | 10. CU 113 | 13. NC 72 |
| 2. CU 22 | 5. CU 94 | 8. CU 106 | 11. CU 128 | 14. K-326 |
| 3. CU 61 | 6. CU 95 | 9. CU 110 | 12. NC 71 | |

Table 1. 2009 Johnson Variety Trial Mid Season % TSWV infection as of June 04

Cultivars	A-Row Non-treated (%)*	B-Row Treated (%)*
1. CU9	50	31
2. CU 22	50	34
3. CU 61	44	40
4. CU 75	38	36
5. CU 94	41	32
6. CU 95	33	26
7. CU 100	48	38
8. CU 106	38	30
9. CU 110	39	30
10. CU 113	43	52
11. CU 128	45	42
12. NC 71	61	52
13. NC 72	66	54
14. K326	59	54

*Calculated using stand counts made from 15 April through 04 June with TSWV plants being flagged every 7 days.

2009 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: Chlorine Content FERTILIZER DEMONSTRATION

Farmer Name/Address: CPES - BOWEN FARM

Extension Specialist Responsible: J. MICHAEL MOORE

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

Variety: K 326 Soil Type: SL Date Transplanted: (4/09/8)

Crop History: 2008: Fallow 2007: Peanuts

Herbicide/Rate: PPI; PROWL 3.3: 2 pt (03-11-09)
SPARTAN SURFACE APPLIED PRIOR TO TRANSPLANTING 8 OZ/A (03-11-09)

Fungicides/Rate: Nematicides/Rate: TELONE II 10 GAL (FALL '08)

Soil Insecticide/Rate: LORSBAN 1QT/A (03-11-09)

Foliar Insecticide/Rate:

Date: Fertility Program: AS PER TREATMENTS (05-05-09)

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

N needed	34-0-0	K-Mag at 21 dat										21 dat			
		g/34-0-0 row	# Cl/A	# Cl	# KCl	g KCL/row	K20 provi ded	K20 lb needed	# 0-0-22/A	g 0-0-22/row	N needed		15.5-0-0	g/15.5-0-0 row	
A	40	117.6	263.0	0	0.47	0	0.0	0.6	0	180.0	818.2	1829.3	40	258.1	577.0
B	40	117.6	263.0	15	0.47	31.9	71.4	0.6	19.1	160.9	731.1	1634.7	40	258.1	577.0
C	40	117.6	263.0	30	0.47	63.8	142.7	0.6	38.3	141.7	644.1	1440.1	40	258.1	577.0
D	40	117.6	263.0	45	0.47	95.7	214.1	0.6	57.4	122.6	557.1	1245.5	40	258.1	577.0
E	40	117.6	263.0	60	0.47	127.7	285.4	0.6	76.6	103.4	470.0	1050.9	40	258.1	577.0
F	40	117.6	263.0	75	0.47	159.6	356.8	0.6	95.7	84.3	383.0	856.3	40	258.1	577.0
G	40	117.6	263.0	90	0.47	191.5	428.1	0.6	114.9	65.1	295.9	661.6	40	258.1	577.0
H	40	117.6	263.0	120	0.47	255.3	570.8	0.6	153.2	26.8	121.9	272.4	40	258.1	577.0

18.23 lb of KCL for total plot
18.5 lb total NH4NO3

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	226	1.1	(75-40-180)
					0-0-22	272	1.3	
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)	NH ₄ NO ₃	103	0.50	(75-40-180)
						0-0-22	272	1.3
D.	15.5-0-0	156	0.77	(24.3-0-0)	15.5-0-0	226	1.1	(75-40-180)
	0-0-22	545	2.7	(0-0-120)	0-0-22	272	1.3	
	ME S15 (13-33-0-15S)	121	0.6	(15.7-40-0) [40-40-120]				
E.	15.5-0-0	180	0.89	(28-0-0)	15.5-0-0	226	1.1	(75-40-180)
	0-0-22	545	2.7	(0-0-120)	0-0-22	272	1.3	
	ME SZ (12-40-0-10S-1Zn)	100	0.49	(12-40-0) [40-40-120]				
F.	15.5-0-0	186	0.89	(28-0-0)	15.5-0-0	226	1.1	(75-40-180)
	0-0-22	520	2.6	(0-0-114.4)	0-0-22	272	1.3	
	SC 918 (ACT 62E) (9.6-32-4.4-2.2Mg- 12.45S)	125	0.61	(12-40-5.5- 2.75Mg- 15.56S) [40-40-120]				
G.	15.5-0-0	186	0.92	(28-0-0)	15.5-0-0	226	1.1	(75-40-180)
	0-0-22	520	2.7	(0-0-120)	0-0-22	272	1.3	
	S10 (12-40-0-10S)	100	0.49	(12-40-0-10S) [40-40-120]				
H.	9-0-36	500	2.56	(45-00-180)	15.5-0-0	194	0.95	(75-40-180)
I.	6-6-18	250	1.23	(15-15-45)	9-0-36	98	0.48	(75-40-180)
	9-0-36	277	1.37	(25-00-99.7)	15.5 -0-0	168	0.82	
J.	13-0-44	307	1.5	(40-0-135)	14-0-14	250	1.23	(75-40-180)
						0-0-22	113	0.57
K.	6-6-18	334	1.6	(20-20-180)	15.5-0-0	354	1.7	(75-20-180)
	0-0-22 Kmag	550	2.7					
L.	6-6-18	334	1.6	(20-20-180)	UCAN 17	27.5	519 ml	(75-20-180)
	0-0-22 Kmag	550	2.7			gal		

UCAN 17 = UAN-32 - 37%; CN-9 - 63% by volume

2009 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: NC 297

Soil Type: SL

Date Transplanted: (04/28/09)

Crop History: 2008: Fallow

2007: Peanuts

2004: Fallow

Herbicide/Rate: PPI; PROWL 3.3: 2 pt

Post Plant;

SPARTAN SURFACE APPLIED PRIOR TO TRANSPLANTING 6 OZ/A (03-11-09)

Fungicides/Rate: N/A

Nematicides/Rate: TELONE II 10 gal

Soil Insecticide/Rate: LORSBAN 1QT/A (03-11-09)

Foliar Insecticide/Rate:

Date:	Fertility Program:	9-45-15 6 LB/A@ TRANSPLANTING
		6-6-18 1000 LBS/A
		15.5-0-0 120 LBS/A

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;

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

Table 1. Transplant Water Fertilizer Demonstration on the Bowen Farm of the Coastal Plain Experiment Station, Tift County, 2009.

Trt	Treatments	Rate /A	Amt /10 gal mix	rep 1	rep 2	rep 3	rep 4	Visual Rating
A.	Check	----		1	20	39	64	
B.	Ultrasol (9-45-15)	6 lbs/100 gal	273 g	2	28	48	63	
C.	Ultrasol (10-52-8)	6 lbs/100 gal	273 g	3	21	40	62	
D.	CNI (10-32-10)	6 lbs/100 gal	273 g	4	32	47	61	
E.	Jump Start (8-31-4)	4 qts/A	210 ml	5	22	41	60	
F.	Jump Start (8-31-4)	6 qts/A	315 ml	6	30	33	59	
G.	Chem Sol (12-48-8)	6 lbs/100 gal	273 g	7	19	45	58	
H.	ME S15 (13-33-0-15S)	121.2 lb/A	271 g	8	31	34	57	
I.	ME SZ (12-40-0-10-S-1Zn)	100 lb/A	224 g	9	23	43	56	
J.	SC918 (ACT 62E)	125 lb/A	279 g	10	29	35	55	
K.	Capture LFR Ultrasol (9-45-15)	3.4 oz/A 6 lbs/100 gal	5.6 ml 273 g	11	24	44	54	
L.	Capture LFR Ultrasol (9-45-15)	6.8 oz/A 6 lbs/100 gal	11. ml 273 g	12	18	36	53	
M.	14-0-14	100 lb/A	223 g/row	13	25	42	52	
N.	Calcium Nitrate (soda flo)	90 lb/A	199 g/row	14	17	37	51	
O.	34-0-0	41 lb/A	92 g/row	15	26	46	50	
p.	Pop-Up (10-34-0)	12 gal/A	7.56 oz/row	16	27	38	49	

2009 STRIP-TILL TOBACCO

UGA BOWEN FARM

TIFT COUNTY

EACH ROW OF ***** = 4 ROWS OF TOBACCO

	[<----- 400-600' ----->]	
ST-CK	***** WHEAT *****	***** RYE *****
ST-AA	***** WHEAT *****	***** RYE *****
CT-AA	*****	*****
CT-CK	*****	*****
CT-AA	*****	*****
CT-CK	*****	*****
ST-CK	***** RYE *****	A ***** WHEAT *****
ST-AA	***** RYE *****	L ***** WHEAT *****
ST-AA	***** WHEAT *****	L ***** RYE *****
ST-CK	***** WHEAT *****	E ***** RYE *****
CT-CK	*****	Y *****
CT-AA	*****	*****
ST-AA	***** RYE *****	***** WHEAT *****
ST-CK	***** RYE *****	***** WHEAT *****
CT-CK	*****	*****
CT-AA	*****	*****

FALL/WINTER:

- I. FUMIGATE AS NEEDED & BED
- IIa. BOARD OFF BEDS & PLANT WHEAT BY 1 DEC.
- IIb. BOARD OFF BEDS & PLANT RYE 15-30 DEC.
- III. APPLY 20-30 lbs. NITROGEN/ACRE
- IV. IRRIGATE AS NEEDED TO GROW HIGH YIELD GRAIN

JANUARY/FEBUARY:

- I. SPRAY ROUND-UP IN A 8-12" BAND (SHIELDS 4-6" APART)
DOWN THE CENTER OF EACH STRIP-TILL BED
- II. SRRAY ROUND-UP ON CONVENTIONAL TILL BEDS TO KILL ALL GRAIN/WEEDS

MARCH/APRIL:

- Ia. SPRAY WEEDY GRAIN WITH ROUNDUP 14-21 DAYS PRE TRANSPLANT
- Ib. SPRAY DENSE GRAIN WITH GRAMOXONE+ROUND-UP 7-10 DAYS PRE TRANSPLANT
- II. APPLY TOBACCO HERBICIDES
- III. IRRIGATE OVER FIELD 48-24 hrs. BEFORE TRANSPLANT
- IV. USE ORTHENE IN TRANSPLANT WATER
- V. STRIP-TILL: LEAVE STUBBLE AS IS & PLANT DOWN THE CENTER HALLWAY
- VI. CONV. TILL: RENOVATE BEDS & PLANT; PLOW AS NORMAL(2-4 TIMES)

LAYBY SET: PLOW ALL TREATMENTS

BOWEN FARM

% SPOTTED WILT

TILL	CHECK	AC+AD
CONVENTIONAL	13.3	1.9
STRIP-WHEAT	12.7	2.0
STRIP-RYE	11.1	2.0
LSD (0.05)	6.8	2.5

2009 Tobacco Variety Tests

Regional Small Plot Test

- 1. NC 2326
- 2. NC 95
- 3. K 326
- 4. CC 920
- 5. EXP 480
- 6. XP 278
- 7. XP 275
- 8. NC EX 23
- 9. EXP 819
- 10. CC 304
- 11. NC EX 25
- 12. CU 118
- 13. RJR 911
- 14. RJR 908
- 15. CU 95
- 16. NC EX 16
- 17. ULT 142
- 18. EXP 388
- 19. XP 248
- 20. NC EX 10
- 21. ULT 112
- 22. CC 151
- 23. GL 395
- 24. EXP 822
- 25. XP 254
- 26. RJR 909
- 27. AOV 911
- 28. RJR 910

Regional Small Plot Test

- 29. CU 113
- 30. NC EX 19
- 31. CU 110
- 32. CU 100
- 33. RJR 901
- 34. NC EX 24
- 35. XP 340
- 36. NC 71

Official Variety Test

- 1. K 346
- 2. NC 71
- 3. NC 72
- 4. NC 297
- 5. NC 55
- 6. NC 291
- 7. NC 196
- 8. NC 102
- 9. NC 299
- 10. GF 52
- 11. CC 13
- 12. CC 67
- 13. CC 27
- 14. CC 37
- 15. Speight H20
- 16. Speight 210
- 17. Speight 220
- 18. Speight 225

Official Variety Test

- 19. Speight 227
- 20. Speight 234
- 21. Speight 168
- 22. Speight 236
- 23. PVH 1118
- 24. PVH 2110
- 25. PVH 1452
- 26. CC 75
- 27. CC 35
- 28. CC 65
- 29. CC 15
- 30. GF 318
- 31. CC 33
- 32. NC 471
- 33. PVH 1596
- 34. K 326

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

2009 Regional Farm Test
Field 6611

- | | |
|------------|--------------|
| 1. NC 2326 | 2. NC 95 |
| 3. XP 324 | 4. NC EX 15 |
| 5. CU 94 | 6. EXP 806 |
| 7. RJR 651 | 8. CU 90 |
| 9. EXP 803 | 10. NC EX 13 |

Rep 3&6	5	5	10	10	2	2	6	6	3	3	Rep 3&6
	7	7	8	8	9	9	4	4	1	1	
Rep 2&5	6	6	4	4	1	1	10	10	8	8	Rep 2&5
	3	3	7	7	5	5	9	9	2	2	
Rep 1&4	10	10	9	9	8	8	7	7	6	6	Rep 1&4
	1	1	2	2	3	3	4	4	5	5	
Road											

2009 STRIP-TILL TOBACCO

TRENT HUGHES FARM

BERRIEN COUNTY

EACH ROW OF ***** = 4 ROWS OF TOBACCO

	[<----- 400-600' ----->]	
ST-CK	***** WHEAT *****	***** RYE *****
ST-AA	***** WHEAT *****	***** RYE *****
CT-AA	*****	*****
CT-CK	*****	*****
CT-AA	*****	*****
CT-CK	*****	*****
ST-CK	***** RYE *****	***** WHEAT *****
ST-AA	***** RYE *****	***** WHEAT *****
ST-AA	***** WHEAT *****	***** RYE *****
ST-CK	***** WHEAT *****	***** RYE *****
CT-CK	*****	*****
CT-AA	*****	*****
ST-AA	***** RYE *****	***** WHEAT *****
ST-CK	***** RYE *****	***** WHEAT *****
CT-CK	*****	*****
CT-AA	*****	*****

FALL/WINTER:

- I. FUMIGATE AS NEEDED & BED
- IIa. BOARD OFF BEDS & PLANT WHEAT BY 1 DEC.
- IIb. BOARD OFF BEDS & PLANT RYE 15-30 DEC.
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- Ia. SPRAY WEEDY GRAIN WITH ROUNDUP 14-21 DAYS PRE TRANSPLANT
- Ib. SPRAY DENSE GRAIN WITH GRAMOXONE+ROUND-UP 7-10 DAYS PRE TRANSPLANT
- II. APPLY TOBACCO HERBICIDES
- III. IRRIGATE OVER FIELD 48-24 hrs. BEFORE TRANSPLANT
- IV. USE ORTHENE IN TRANSPLANT WATER
- V. STRIP-TILL: LEAVE STUBBLE AS IS & PLANT DOWN THE CENTER HALLWAY
- VI. CONV. TILL: RENOVATE BEDS & PLANT; PLOW AS NORMAL (2-4 TIMES)

LAYBY SET: PLOW ALL TREATMENTS

HUGHES FARM

% SPOTTED WILT

TILL	CHECK	AC+AD
CONVENTIONAL	16.4	3.4
STRIP-TILL	8.9	2.0
LSD (0.05)	4.3	3.4

2009 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: RELEASED VARIETY TEST

Farmer Name/Address: BRIAN LANIER, (229) 686-7246 HM,
50 Lanier Ln, Nashville, GA 31639

County: BERRIEN

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: TIM FLANDERS

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

Variety: AS PER PLOT Soil Type: LEEFIELD LOAMY SAND Date Transplanted: (4/23/9)

Crop History: 2007: COTTON 2008: TOBACCO

Herbicide/Rate: PPI; PROWL 3.3: 2 pt
SPARTAN - SHIE LDED SPRAYER AFTER TRANSPLANTING 8 OZ/A
POAST PLUS:

Fungicides/Rate: ACTIGARD + ADMIRE PRO IN GREENHOUSE

Nematicides/Rate: NONE

Soil Insecticide/Rate: LORSBAN 1QT/A MARCH 1, 2008

Foliar Insecticide/Rate: ORTHENE, WARRIOR,

Date:	Fertility Program:	4-8-12	1400 LBS/A
		15.5-0-0	200 LBS/A
		20-20-20	5 LBS/A FOLIAR

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;

Table . Yield, Grade Index, Price Index, and Value per Acre of the 2009 Released Variety Test (commercially available varieties), Brian Lanier Farm, Berrien County, Georgia.

Trt	VARIETY	PEDIGREE	Disease Resistance					
			BS	GW	FW	RK	BSp	Virus
1.	CC 27	F1 Hybrid Cross Creek Seed	R	R		TCN /R		TMV
2.	CC 37	F1 Hybrid Cross Creek Seed	R	R		TCN /M.j. /R		TMV
3.	K 326	McNair 225(McNair 30 X NC 95) Gold Leaf Seed Co.	L	L		R		
4.	NC 71	F1 Hybrid Gold Leaf Seed Co.	H	M		R		
5.	NC 196	F1 Hybrid Gold Leaf Seed Co.	R	L		R		
6.	NC 291	F1 Hybrid Cross Creek Seed	R	R		TCN /R		TEV/ PVY
7.	NC 297	F1 Hybrid Gold Leaf Seed Co.	R	R		R		TMV
8.	NC 299	F1 Hybrid Cross Creek Seed	R	R		TCN /R		
9.	Spt 225	(SP 168 X K 346) (SPA 95 X SP 168) Spt.	R	R		R		
10.	Spt 227	(SP 151 X K 346) (SP 202 X K 346) Spt.	R	R		R		
11.	Spt 234	(SP 168 X K 346) Speight Seed Farm	R	R		R		
12.	Spt 236	(SP 168 X SP 196) (SP 179 X SP 177) Speight Seed Farm	R	R		R		

Grade Index is a numerical value ranging from 1-99 for flue-cured tobacco based on equivalent grades - the higher the number the higher the grade.

Price Index is based on a two year floating average (2008-2009) price for U. S. government grades.

2009 UNIVERSITY OF GEORGIA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: REGIONAL FARM TEST

Farmer Name/Address: PAUL FOLSOM, 229-563-1247 cell,
430 N Pecan St, Lakeland, GA 31635

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: ELVIN ANDREWS

Plot Size: 4 (46") ROWS X 710'

Variety: AS PER PLOT Soil Type: SL Date Transplanted: (4/23/09)

Crop History: 2007: Tobacco 2008: Corn

Herbicide/Rate: PPI; PROWL 3.3: 2 pt
SPARTAN SURFACE APPLIED AFTER TRANSPLANTING 7 OZ/A (shielded)
PROWL 3.3 1.5 PT AFTER TRANSPLANTING (shielded)

Fungicides/Rate: Nematicides/Rate: Telone C17 7 gal/A

Soil Insecticide/Rate: Transplant 0.75# Acephate 90 0.5 oz. Admire/A

Foliar Insecticide/Rate: 5/5 .8# Acephate 90 at plowing band
5/23 1.4 pt. Lannate LV + .8 Acephate 90 in band
6/2 2.6 oz. Brigade

Date: Fertility Program: 6-6-18 1100 LBS/A Transplant 2# 12-48-8

Rainfall:	March;	April;	May;	June;	July;	August;
	6.4 in.	5.4 in.	6.4 in.			
		.8 irrigation				

Topping: Date; Average No. Leaves Per Plant;

Sucker Control:

Material;	Rate/Acre;	Date;
Material;	Rate/Acre;	Date;
Material;	Rate/Acre;	Date;

Table . Yield, Grade Index, Price Index, and Value per Acre of the 2009 Regional Farm Test (lines in their last year of testing before approval for release), Paul Folsom Farm, Lanier County, Georgia.

Trt	VARIETY	PEDIGREE	Disease Resistance					
			BS	GW	FW	RK	BSp	Virus
1.	NC 2326	(Hicks X 9102)(Hicks)Hicks)Hicks) NC	L	SU	M			
2.	NC 95	(C-139XBel.4-30)X(C-139XHicks) NC	L	H	M	R		
3.	XP 324	F1 Hybrid Profigen	R	R				
4.	NCEX 15	F1 Hybrid NC	R	R		TCN /R		
5.	CU 94	F1 Hybrid SC						
6.	EXP 806	F1 Hybrid GL						
7.	RJR 651	F1 Hybrid RJR	R	R		R	R	
8.	CU 90	F1 Hybrid SC						
9.	EXP 803	F1 Hybrid GL						
10.	NCEX 13	F1 Hybrid NC	R	R		TCN /R		
11.	PVH 2110	F1 Hybrid Profigen	L	M		R		
12.	PVH 1452	F1 Hybrid Profigen	R	R		TCN /R		

Grade Index is a numerical value ranging from 1-99 for flue-cured tobacco based on equivalent grades - the higher the number the higher the grade.

Price Index is based on a two year floating average (2008-2009) price for U. S. government grades.

2009 UNIVERSITY OF GEORGIA / FLORIDA
COOPERATIVE EXTENSION SERVICE
TOBACCO ON-FARM DEMONSTRATIONS

Title of Demonstration: RELEASED VARIETY TEST

Farmer Name/Address: ROOSEVELT (386) 752-3643 HM & TRAVIS DICKS,
5821 SW Tustenuggee Ave
Lake City FL, 32024-1452

Extension Specialist Responsible: J. MICHAEL MOORE

Extension Agent Responsible: BILL THOMAS

Plot Size: 2 (46") ROWS X 1270'

Variety: AS PER PLOT Soil Type: SL Date Transplanted: 4/07/09

Crop History: 2007: Peanut 2008: Fallow

Herbicide/Rate: PPI; PROWL 3.3: 2 pt
SPARTAN (Surface Applied Prior To Transplanting) 4 oz/ac

Fungicides/Rate: Dithane @ 1 lb/ac Nematicides/Rate: Telone II @ 8.10 gal/ac
Dithane @ 1 lb/ac
K-phite @ 1 qt/ac
K-phite @ 1 qt/ac

Soil Insecticide/Rate: LORSBAN @ 2 qt/ac

Foliar Insecticide/Rate:
Orthene 97 @ 0.75 lb/ac
Orthene 97 @ 0.75 lb/ac
Orthene 97 @ 0.75 lb/ac
Orthene 97 @ 0.75 lb/ac + Lannate L @ 1pt/ac
Brigade @ 6.0 oz/ac

Fertility Program:
6-6-18 1500 lbs/ac
9-0-8 275 lbs/ac (6/2/09)

	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>
Rainfall:	n/a	5.30 in.	8.60 in.	_____	_____	_____
Irrigation:	n/a	4.80 in.	1.00 in.	0.70 in.	_____	_____

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

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

Table . Yield, Grade Index, Price Index, and Value per Acre of the 2009 Released Variety Test (commercially available varieties), Roosevelt & Travis Dicks Farm, Columbia County, Florida.

Trt	VARIETY	PEDIGREE	Disease Resistance					
			BS	GW	FW	RK	BSp	Virus
1.	CC 27	F1 Hybrid Cross Creek Seed	R	R		TCN /R		TMV
2.	CC 37	F1 Hybrid Cross Creek Seed	R	R		TCN /M.j. /R		TMV
3.	K 326	McNair 225(McNair 30 X NC 95) Gold Leaf Seed Co.	L	L		R		
4.	NC 71	F1 Hybrid Rickard.	H	M		R		
5.	NC 196	F1 Hybrid Gold Leaf Seed Co.	R	L		R		
6.	NC 291	F1 Hybrid Cross Creek Seed	R	R		TCN /R		TEV/ PVY
7.	NC 297	F1 Hybrid Gold Leaf Seed Co.	R	R		R		TMV
8.	NC 299	F1 Hybrid Cross Creek Seed	R	R		TCN /R		
9.	Spt 225	(SP 168 X K 346) (SPA 95 X SP 168) Spt.	R	R		R		
10.	Spt 227	(SP 151 X K 346) (SP 202 X K 346) Spt.	R	R		R		
11.	Spt 234	(SP 168 X K 346) Speight Seed Farm	R	R		R		
12.	Spt 236	(SP 168 X SP 196) (SP 179 X SP 177) Speight Seed Farm	R	R		R		

Grade Index is a numerical value ranging from 1-99 for flue-cured tobacco based on equivalent grades - the higher the number the higher the grade.

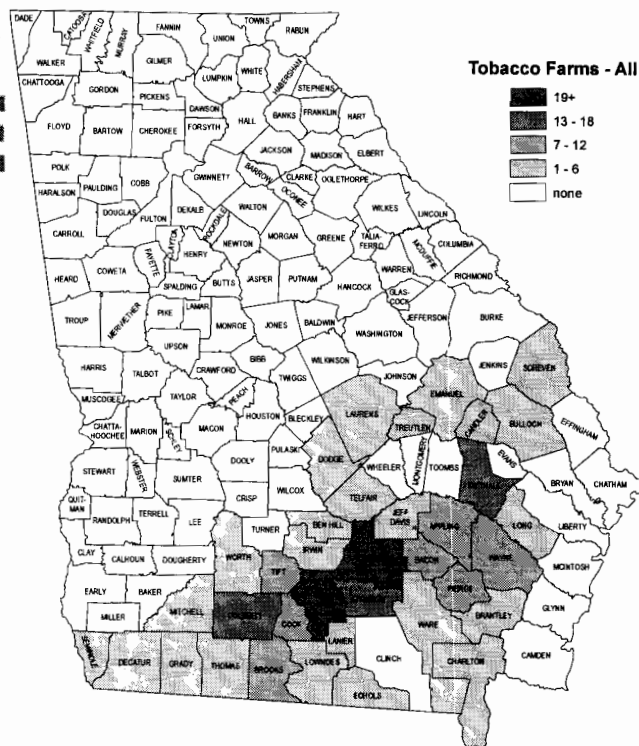
Price Index is based on a two year floating average (2008-2009) price for U. S. government grades.

2007 CENSUS OF AGRICULTURE

State Profile

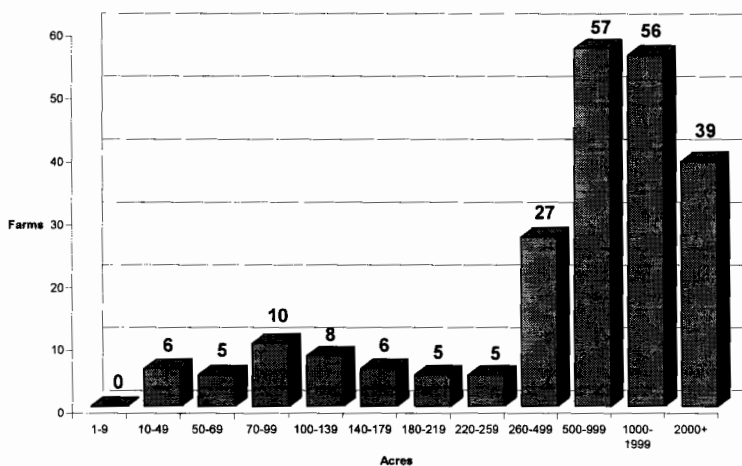
GA Field Office: 800-253-4419

Georgia Tobacco Farms – All

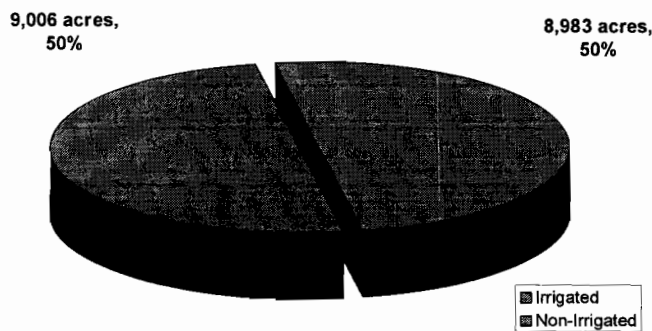


	Unit	2007	2002	% change
Farms	-	224	822	- 73
Harvested Acres	Acres	17,989	25,060	- 28
Irrigated Acres	Acres	9,006	16,288	- 45
Yield	lbs.	2,213	1,995	+ 11
Production	lbs.	39,810,076	49,998,195	- 20
Value of Sales	\$1,000	56,978	89,058	- 36
Operations that Sold Plants for Transplant	-	9	N/A	N/A
Value of Transplant Sales	\$	928,000	N/A	N/A

Tobacco Farms by Size



Tobacco Acres Irrigated versus Non-Irrigated



United States Department of Agriculture
National Agricultural Statistics Service

www.agcensus.usda.gov

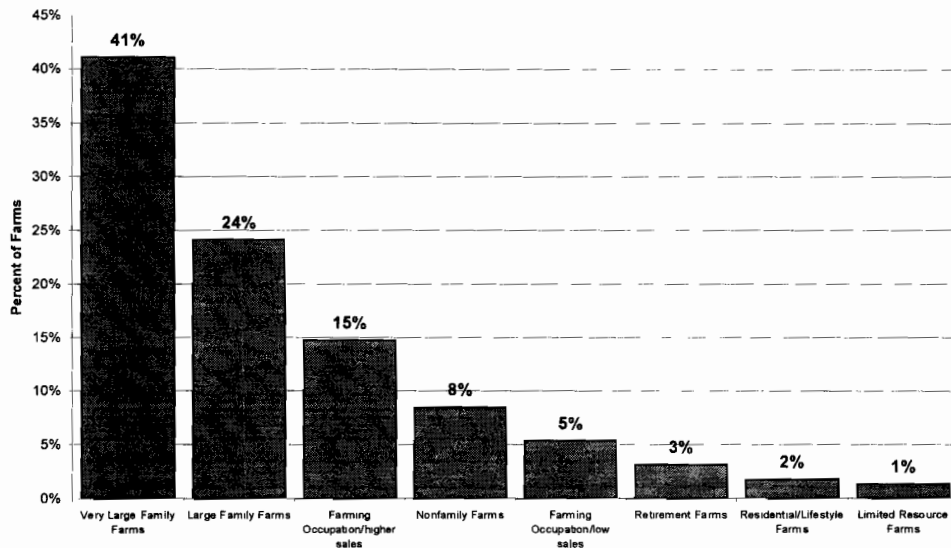
Principal Operators		
Age and Primary Occupation - 2007	Farming	Other
Under 25 years	0	0
25-34 years	10	0
35-44 years	27	0
45-54 years	74	6
55-64 years	55	1
65 and Over	47	4

Age and Primary Occupation - 2002	Farming	Other
Under 25 years	9	0
25-34 years	31	5
35-44 years	132	21
45-54 years	197	22
55-64 years	180	37
65 and Over	166	22

Principal Operators		
Tenure - 2007	Farms	Total Acres
Full Owner	55	3,868
Part Owner	153	13,318
Tenants	16	803
Operators of Farm		
One operator	154	11,079
More than one operator	70	6,911

Tenure - 2002	Farms	Total Acres
Full Owner	254	5,809
Part Owner	499	17,503
Tenants	69	1,747
Operators of Farm		
One operator	591	14,890
More than one operator	231	10,169

Tobacco Farms by Typology - 2007 Census



Other State Highlights

Farms by Economic Class		
Market Value of Product Sold - 2007	Farms	Total Acres
\$ 1,000,000 or More	61	9,306
\$ 500,000 - 999,999	41	3,311
\$ 100,000 - 499,999	98	4,950
\$ 25,000 - 99,999	21	420
\$ 5,000 - 24,999	3	2
\$ 1,000 - 4,999	0	0
\$ Less than 1,000	0	0

Market Value of Product Sold - 2002	Farms	Total Acres
\$ 1,000,000 or More	54	5,829
\$ 500,000 - 999,999	81	5,701
\$ 100,000 - 499,999	322	10,721
\$ 25,000 - 99,999	249	2,380
\$ 5,000 - 24,999	95	404
\$ 1,000 - 4,999	13	16
\$ Less than 1,000	8	9

Principal Operator Characteristics		
Summary of Type by Organization - 2007	Farms	Total Acres
Family or Individual	162	(D)
Partnership	41	3,905
Corporation		
Family Held	19	1,299
Other	0	0
Other - cooperatives, estate or trust, institutional, etc	2	(D)

Summary of Type by Organization - 2002	Farms	Total Acres
Family or Individual	663	16,687
Partnership	122	(D)
Corporation		
Family Held	35	(D)
Other	1	(D)
Other - cooperatives, estate or trust, institutional, etc	1	(D)

*(D) denotes data that is withheld to avoid disclosing information for individual farms.

GEORGIA COUNTY ESTIMATES TOBACCO--2007-2008

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 2009

Tobacco Top Producing Counties 2008

Coffee	5,399,000 lbs
Berrien	2,638,000 lbs
Atkinson	2,530,000 lbs
Pierce	2,310,000 lbs
Appling	2,195,000 lbs
Wayne	1,787,000 lbs
Tift	1,760,000 lbs
Ware	1,340,000 lbs
Lanier	1,146,000 lbs
Colquitt	648,000 lbs
State Total	33,600,000 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, 2007-2008^{1/}**

County	2007			2008		
	Harvested	Yield per Acre ^{2/}	Production	Harvested	Yield per Acre ^{2/}	Production
	--Acres--	--Pounds--		--Acres--	--Pounds--	
Appling	1,140	2,050	2,338,000	1,030	2,130	2,195,000
Atkinson	1,980	1,860	3,678,000	1,900	1,330	2,530,000
Bacon	960	2,555	2,452,000			
Berrien	1,260	2,035	2,566,000	1,300	2,030	2,638,000
Coffee	2,140	2,090	4,475,000	2,380	2,270	5,399,000
Colquitt	1,010	2,685	2,711,000	210	3,085	648,000
Lanier				500	2,290	1,146,000
Pierce	1,020	2,255	2,300,000	1,170	1,975	2,310,000
Tift	840	2,295	1,928,000	730	2,410	1,760,000
Ware				780	1,720	1,340,000
Wayne	1,290	2,050	2,646,000	810	2,205	1,787,000
Combined Counties	6,860	2,140	14,681,000	5,190	2,283	11,847,000

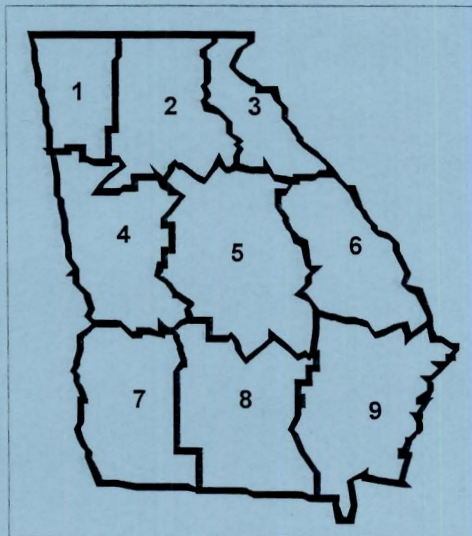
^{1/} County data that are not published to avoid disclosing individual operations are included in Combined Counties. ^{2/} Rounded to nearest 5 pounds.

**TOBACCO--Acreage, Yield and Production by Agricultural Statistics District and State Total,
Georgia, 2007-2008**

District	2007			2008		
	Harvested	Yield per Acre ^{2/}	Production	Harvested	Yield per Acre ^{2/}	Production
	--Acres--	--Pounds--		--Acres--	--Pounds--	
District 8	10,550	2,165	22,846,000	9,750	2,115	20,600,000
District 9	5,950	2,165	12,871,000	5,000	2,045	10,230,000
Combined Districts	2,000	2,030	4,058,000	1,250	2,215	2,770,000
State Total	18,500	2,150	39,775,000	16,000	2,100	33,600,000

^{1/} Districts 1, 2, 3, and 4, not reported. Districts 5, 6, and 7 included in Combined Districts to avoid disclosing individual operations. ^{2/} Rounded to the nearest 5 pounds.

Georgia Agricultural Statistics District Outline Map





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

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

ATTENTION! PESTICIDE PRECAUTIONS

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

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Crop & Soil Sciences

CSS-09-0909

June 2009

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