

2018 TEST RESULTS



Peanut & Pecan Fungicide Evaluations

TIM BRENNEMAN

University of Georgia – Tifton Campus

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Memo to: Industry Cooperators

From: Tim Brenneman

Subject: Field Trial Results

Attached are the results of our 2018 field trials on peanuts and pecans. This was a drier year early (April and May) so there was very little early season scab on the pecans. However, frequent rains from June through the remainder of the season resulted in lots of nut scab as well as leaf spot on peanuts. It was another good year for nematodes and white mold (stem rot), particularly in dry land fields. As usual we had plenty of disease in our non-rotated peanut disease nurseries. Overall it was a good year for disease data on both crops.

I want to acknowledge the hard work of our crew lead by Corey Thompson, Lewis Mullis, Jessica Bell and Pat Hilton. Summer workers included Clayton Willoughby, Marissa Lee, and Brianna Bates. The cooperation of other scientists including Dr. Albert Culbreath, Dr. Bob Kemerait, Dr. Corley Holbrook, Dr. Patty Timper, Dr. Bill Branch, Dr. Scott Tubbs, Dr. Scott Monfort, and Dr. Barry Tillman is much appreciated. Graduate students Cole Brown, Kory Herrington and Jeff Standish were also an important part of these investigations.

Once again we are making this available primarily as an online document available at www.timbrenneman.org by clicking on "Publications" then "2018 Report". This site also has previous year reports. If you have any problems or any questions feel free to call. Thanks again for your support, and we look forward to cooperating with you again in the future.

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EVALUATIONS OF NEMATICIDIES FOR THE CONTROL OF PEANUT ROOTKNOT NEMATODES AND DISEASES (NEMATODE CULTIVAR TEST, 2018)

A. PURPOSE: To evaluate the comparative efficacy of experimental treatments for the control of nematodes and soilborne diseases.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with seven replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Different cultivars

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow spray was applied with a TP 80015E flat fan nozzle w/ a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
2. Cover sprays for leaf spot control with chlorothalonil 720 (1.5 pt/A) were applied on 13 Jun, 27 Jun, 10 Jul, 24 Jul, 7 Aug, 22 Aug, and 5 Sep. The 45 DAP treatments were applied with as a chemigation simulation treatment in 0.15" of water per acre on 2 Jul.

D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Woods Field Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 28 Mar. Rotary tiller through to subsoil 18 inch deep on 26 Apr. Fertilized with 5-10-15 (500 lb/A) on 12 Apr. Cultivated 11 Jun. Fertilized 5-10-15 (500 lb/A) on 23 Mar. Tri-est fumigated with chloropicrin (118 lb/A, broadcast, no tarp) on 11 Apr to reduce *Pasteuria penetrans* populations.
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 3 May.

POST: Cadre (4 fl oz/A) + Non Ionic Surfactant
(1 qt/100 gal water) on 11Jul. Sprayed 24DB
(1pt/A) on 17 Aug.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
7. Planting Info: Different cultivars, 6 seed/ft (2" deep)
on 11 May.
8. Harvest Dates: Dug – 22 Oct Picked –25 Oct

NEMATODE CULTIVAR TEST, 2018						
BLACKSHANK FARM, WOODS FIELD						
		TSWV¹	WM²	Root Gallings³	Pod Gallings³	Yield
Cultivar	Treatment	3-Aug	22-Oct	22-Oct	22-Oct	lb/A
1. GA-06G	Nontreated	2.0	25.6	22.0	40.0	1958
2. GA-06G	Velum Total, 18 oz (IF)	2.8	13.6	16.0	24.0	2167
3. GA-06G	Velum Total, 18 oz (IF)	4.0	18.8	13.4	18.0	2084
	Propulse, 13.7 fl oz (45 DAP)					
4. GA-14N	Nontreated	1.6	10.8	0.0	0.0	2423
5. GA-14N	Velum Total, 18 oz (IF)	2.4	5.2	0.0	0.0	2899
6. GA-14N	Velum Total, 18 oz (IF)	3.6	10.0	0.0	0.0	2539
	Propulse, 13.7 fl oz (45 DAP)					
7. TIF NV-HIO/L	Nontreated	2.0	14.0	0.0	0.0	3033
8. TIF NV-HIO/L	Velum Total, 18 oz (IF)	1.6	9.2	0.0	0.0	3207
9. TIF NV-HIO/L	Velum Total, 18 oz (IF)	0.4	10.4	0.0	0.0	3457
	Propulse, 13,7 fl oz (45 DAP)					
LSD (P<0.05)		2.8	11.5	4.7	6.1	610
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.						
TSWV ¹ =Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.						
WM ² =Percent of row feet infected based on stem rot loci (up to 12" linear row) per plot.						
Galling ³ =visual rating of the percent of pods and roots (1-100) with visible damage from rootknot nematode.						

**NEMATODE CULTIVAR TEST, 2018
BLACKSHANK FARM, WOODS FIELD**

Cultivar	Treatment	Root-knot ⁴	Ring ⁵	SMKSS ⁶	\$/Ton	\$/Acre
		17-Oct	17-Oct			
1. GA-06G	Nontreated	33.2	10.4	66.8	329.4	320.5
2. GA-06G	Velum Total, 18 oz (IF)	124.4	7.6	67.0	330.2	359.6
3. GA-06G	Velum Total, 18 oz (IF) Propulse, 13.7 fl oz (45 DAP)	22.4	8.8	59.6	292.7	305.7
4. GA-14N	Nontreated	4.8	17.6	63.9	316.0	382.3
5. GA-14N	Velum Total, 18 oz (IF)	0.8	13.2	66.2	321.8	463.6
6. GA-14N	Velum Total, 18 oz (IF) Propulse, 13.7 fl oz (45 DAP)	0.0	21.2	65.1	325.0	412.7
7. TIF NV-HIO/L	Nontreated	0.0	31.6	66.3	326.0	492.0
8. TIF NV-HIO/L	Velum Total, 18 oz (IF)	0.0	20.4	66.9	329.9	529.5
9. TIF NV-HIO/L	Velum Total, 18 oz (IF) Propulse, 13,7 fl oz (45 DAP)	0.0	23.2	66.4	328.0	568.5
LSD (P<0.05)		92.2	N.S.	N.S.	N.S.	110.4

***In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.**

Root-knot⁴ = Number of *M. arenaria* juvenile per 100 cc of soil.

Ring⁵ = Population of ring nematodes per 100 cc of soil.

SMKSS⁶ = The percent of sound mature kernels and sound splits.

BUNCH A BUGS CULTIVAR TEST, 2018

A. PURPOSE: To evaluate the comparative efficacy of experimental treatments for control of foliar and soilborne diseases.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with eight replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Tifguard, GA-06G

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow spray was applied with a TP 80015E flat fan nozzle w/ a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
1. Cover sprays for leaf spot control of Chlorothalanyl 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) were applied on 13 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 27 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost (Opti (8 fl oz/A) on 10 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 24 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Extra (10 fl oz/A) on 7 Aug, Elatus 45 (9.5 oz/A) on 22 Aug, Chlorothalanyl 720 (1.5 pt/A) + Elatus 45 WG (7.3 oz/A) on 5 Sep. The 45 DAP was applied on 27 Jun.

D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Woods Field, Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 11 Apr. Rotary tiller through to subsoil on 28 Mar. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Cultivated 11 Jun. Tri-est fumigated with chloropicrin (118 lb/A, broadcast, no tarp) on 11 Apr to reduce *Pasteuria penetrans* populations.
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.

5. Herbicides: PPI: Sonalan (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 19 Apr.
 POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 5 Jun.
6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 26 May.
7. Planting Info: Tifguard, GA-06G, 6 seed/ft (2" deep) on 11 May.
8. Harvest Dates: Dug – 5 Oct Picked – 9 Oct

BUNCH A BUGS CULTIVAR TEST, 2018							
BLACKSHANK FARM, WOODS FIELD							
Cultivar	Treatment	Rate/IF	Plant/ft ¹		% Dead Plants ²		
			25-May	31-May	25-May	31-May	15-Jun
1. GA-06G	Nontreated		2.6	2.9	0.0	0.0	0.2
2. GA-06G	Bunch A Bugs + Biovate	16 fl oz	2.8	2.9	0.0	0.0	0.3
3. TifNV-HiOL	Nontreated		2.5	2.6	0.0	0.0	1.1
4. TifNV-HiOL	Bunch A Bugs +Biovate	16 fl oz	2.7	2.6	0.0	0.0	1.9
LSD (P<0.05)			N.S.	0.3	N.S.	N.S.	0.9

Plants/ft¹=Stand count is the number of emerged plants per foot of row on 25 and 31 May.

% Dead Plants²=The % of emerged plants that were dead or dying per plot.

BUNCH A BUGS CULTIVAR TEST, 2018							
BLACKSHANK FARM, WOODS FIELD							
Cultivar	Treatment	Rate/IF	TSWV ³	Tap Root Count ⁴	Yield	Root-Knot ⁵	Ring ⁶
			3-Aug	8-Oct	lb/A	17-Oct	17-Oct
1. GA-06G	Nontreated		2.3	3.2	1452	2.3	6.5
2. GA-06G	Bunch A Bugs + Biovate	16 fl oz	2.5	3.2	1162	1.8	3.8
3. TifNV-HiOL	Nontreated		3.0	2.9	1525	.	.
4. TifNV-HiOL	Bunch A Bugs +Biovate	16 fl oz	1.8	2.8	1942	.	.
LSD (P<0.05)			N.S.	N.S.	551	N.S.	N.S.

TSWV³=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.

Tap Root Count⁴=The number of tap roots per foot after digging.

Root-knot⁵ = Number of M. arenaria juvenile per 100 cc of soil.

Ring⁶ = Population of ring nematodes per 100 cc of soil.

OFFICIAL DAILY RAINFALL 2018

BLACKSHANK FARM, WOODS FIELD

TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
2					0.15			
3			0.3					
5					0.2			
10			0.3					
11		0.2					0.6	
14							0.4	
26				0.4				
TOTAL	0.0	0.2	0.6	0.4	0.4	0.0	1.0	0.0
Rain & Irr	3.4	2.9	7.5	6.2	6.3	9.4	3.3	2.7

BAYER PROPULSE IRRIGATION TIMING TEST, 2018

- A. PURPOSE: To evaluate the comparative efficacy of Propulse for control of nematodes when chemigated or sprayed and then irrigated in different times after applications.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: GA-06G
- C. APPLICATION OF TREATMENTS:
2. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow spray was applied with a TP 80015E flat fan nozzle w/ a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
 3. Cover sprays for leaf spot control of Chlorothalanyl 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) were applied on 13 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 27 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost (Opti (8 fl oz/A) on 10 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 24 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Extra (10 fl oz/A) on 7 Aug, Elatus 45 (9.5 oz/A) on 22 Aug, Chlorothalanyl 720 (1.5 pt/A) + Elatus 45 WG (7.3 oz/A) on 5 Sep. The in furrow sprays were applied at planting on 15 May. In furrow applications were applied in 3.4 GPA (mixed in 2 L volume) on 15 May. The Propulse was either sprayed in 20 GPA and irrigated with 0.15 inches afterwards or via chemigation with a tank and sprinkler hose in 0.1 inch water on 3 Jul. Broadcast sprays were made at 9:00 A.M. and chemigation at 7:00 to 8:30 A.M on 13 Jul.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm, Pond Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 28 Mar. Rotary tilled through subsoil 18” deep on 26 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.

- Tri- est fumigated with chloropicrin (118 lb/A, broadcast, no tarp) on 11 Apr to reduce *Pasteuria penetrans* populations.
4. Soil Fertility:
Soil type: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 3 May.
POST: Cadre at (4 fl oz/A) + Non Ionic Surfactant (1 qt/gal water) on 11 Jul.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: GA-06G, 6 seed/ft (2” deep) on 7 May.
 8. Harvest Dates: Dug – 15 Oct Picked – 18 Oct

BAYER PROPULSE IRRIGATION TIMING TEST, 2018							
BLACKSHANK, POND FIELD							
Treatments	App's	Rate	Plant/ft ¹		% Dead Plants ²		
			22-May	30-May	22-May	30-May	12-Jun
1. Admire Pro	In Furrow*	9.0 fl oz	2.9	3.2	0.0	0.0	0.0
2. Propulse	In Furrow*	13.6 fl oz	2.9	3.4	0.0	0.0	0.1
Admire Pro	In Furrow*	9.0 fl oz					
3. Propulse	In Furrow*	13.6 fl oz	.	.	.	.	.
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP Irrigate 49 hours later	3.7 fl oz					
4. Propulse	In Furrow*	13.6 fl oz	.	.	.	.	.
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP Irrigate 66 hours later	3.7 fl oz					
5. Propulse	In Furrow*	13.6 fl oz	.	.	.	.	.
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP Irrigate 8 hours later	3.7 fl oz					
6. Propulse	In Furrow*	13.6 fl oz	.	.	.	.	.
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP Irrigate 1 later	3.7 fl oz					
7. Propulse	In Furrow*	13.6 fl oz	.	.	.	.	.
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP Irrigate 9 hours later	3.7 fl oz					
8. Propulse	In Furrow*	13.6 fl oz	.	.	.	.	.
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP Irrigate 25 hours later	3.7 fl oz					
9. Propulse	In Furrow*	13.6 fl oz	0.0	0.0	0.0	0.0	0.0
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	Chemigated, 45 DAP**	3.7 fl oz					
LSD (P<0.05)			n.s.	0.0	n.s.	n.s.	n.s.
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.							
**Chemigated simulation in 0.10 inches per acre via nurse tank and sprinkler head.							
Plants/ft ¹ =Stand count is the number of emerged plants per foot of row on 22 and 30 May.							
% Dead Plants ² =The % of emerged plants that were dead or dying per plot.							

BAYER PROPULSE IRRIGATION TIMING TEST, 2018							
BLACKSHANK, POND FIELD							
Treatments	App's	Rate	TSWV ³ 3-Aug	Galling ⁴			Ring ⁶ 1-Oct
				Pod 15-Oct	Root 15-Oct	Root-knot ⁵ 1-Oct	
1. Admire Pro	In Furrow*	9.0 fl oz	9.2	23.6	16.2	344.2	105.6
2. Propulse	In Furrow*	13.6 fl oz	7.6	17.4	10.2	252.4	25.8
Admire Pro	In Furrow*	9.0 fl oz					
3. Propulse	In Furrow*	13.6 fl oz	5.6	5.4	4.2	194.2	85.4
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz					
	Irrigate 49 hours later						
4. Propulse	In Furrow*	13.6 fl oz	8.8	9.6	6.2	282.8	60.8
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz					
	Irrigate 66 hours later						
5. Propulse	In Furrow*	13.6 fl oz	8.8	8.6	7.0	219.0	66.2
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz					
	Irrigate 8 hours later						
6. Propulse	In Furrow*	13.6 fl oz	6.5	10.2	6.6	162.0	49.2
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz					
	Irrigate 1 later						
7. Propulse	In Furrow*	13.6 fl oz	8.4	8.8	4.2	237.4	57.2
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz					
	Irrigate 9 hours later						
8. Propulse	In Furrow*	13.6 fl oz	5.6	9.6	6.0	136.8	62.6
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz					
	Irrigate 25 hours later						

9. Propulse	In Furrow*	13.6 fl oz	11.2	11.0	7.0	331.6	25.6
Admire Pro	In Furrow*	9.0 fl oz					
Propulse	Chemigated, 45 DAP**	3.7 fl oz					
LSD (P<0.05)			5.4	8.8	5.6	N.S.	N.S.
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.							
**Chemigated simulation in 0.10 inches per acre via nurse tank and sprinkler head.							
TSWV ³ =Percent of row fee infected based on disease loci (up to 12" of linear row) per plot.							
Galling ⁴ =Visual rating of the percent of pods and roots (1-100) with visible damage from rootknot nematode.							
Root-knot ⁵ = Number of M. arenaria juvenile per 100 cc of soil.							
Ring ⁶ = Population of ring nematodes per 100 cc of soil.							

BAYER PROPULSE IRRIGATION TIMING TEST, 2018

BLACKSHANK, POND FIELD

Treatments	App's	Rate	Yield	SMKSS ⁷	\$/Ton	\$/Acre
			lb/A			
1. Admire Pro	In Furrow*	9.0 fl oz	2468	72.6	352.7	432.5
2. Propulse	In Furrow*	13.6 fl oz	3136	73.9	360.4	564.5
Admire Pro	In Furrow*	9.0 fl oz				
3. Propulse	In Furrow*	13.6 fl oz	3630	73.9	360.9	654.3
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz				
	Irrigate 49 hours later					
4. Propulse	In Furrow*	13.6 fl oz	3775	73.7	359.8	676.2
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz				
	Irrigate 66 hours later					
5. Propulse	In Furrow*	13.6 fl oz	3376	73.4	359.0	605.0
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz				
	Irrigate 8 hours later					
6. Propulse	In Furrow*	13.6 fl oz	3920	73.5	356.7	714.4
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz				
	Irrigate 1 later					
7. Propulse	In Furrow*	13.6 fl oz	3833	73.1	358.1	687.8
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz				
	Irrigate 9 hours later					
8. Propulse	In Furrow*	13.6 fl oz	3514	73.4	359.4	631.7
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	B'cast 20 GPA, 45 DAP	3.7 fl oz				
	Irrigate 25 hours later					
9. Propulse	In Furrow*	13.6 fl oz	3107	73.7	359.0	558.2
Admire Pro	In Furrow*	9.0 fl oz				
Propulse	Chemigated, 45 DAP**	3.7 fl oz				
LSD (P<0.05)			1009	N.S.	N.S.	175.7

*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.

**Chemigated simulation in 0.10 inches per acre via nurse tank and sprinkler head.

SMKSS⁷ = The percent of sound mature kernels and sound splits.

EVALUATION OF NEMATICIDES FOR THE CONTROL OF PEANUT ROOTKNOT NEMATODES (ADAMA NEMATODE MANAGEMENT TEST, 2018)

A. PURPOSE: To evaluate the comparative efficacy of nematicides applied for the control of peanut root knot nematodes.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with five replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: GA-06G

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles. The 20 GPA broadcast spray was applied, with three TX-SS6 conejet nozzles per row at 40 PSI, and the 40 GPA spray was applied with a single 80-10 nozzle per row at 40 PSI. The in furrow spray was applied with a TP 80015E flat fan nozzle w/ a 100 mesh t-ball check valve at 22 PSI applying 3.4 GPA. NEED TBAND DETAILS!!!!
2. Cover sprays for leaf spot control of Chlorothalanyl 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) were applied on 13 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 27 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost (Opti (8 fl oz/A) on 10 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 24 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Extra (10 fl oz/A) on 7 Aug, Elatus 45 (9.5 oz/A) on 22 Aug, Chlorothalanyl 720 (1.5 pt/A) + Elatus 45 WG (7.3 oz/A) on 5 Sep. Treatment 1 was sprayed broadcast on the bare soil and rototilled in prior to planting.

D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Pond Field, Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 28 Mar. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Rotary till through to subsoil 4” on 26 Apr. Tri-est fumigated with chloropicrin (118 lb/A, broadcast, no tarp) on 11 Apr to reduce *Pasteuria* penetrans populations.

4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May.
POST: Cadre at (1 qt/A) + Non Ionic Surfactant (2 pt/100 gal water) on 11 Jul.
6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
7. Planting Info: GA-06G, 6 seed/ft (2” deep) 8 May
8. Harvest Dates: Dug – 15 Oct Picked – 19 Oct

ADAMA NEMATODE MANAGEMENT TEST, 2018

BLACKSHANK FARM, POND FIELD

Treatments	App's	Rate	Plant/ft ¹		% Dead Plants ²			TSWV ³
			22-May	30-May	22-May	30-May	12-Jun	2-Aug
1. Nimitz 480EC	B'cast ²	5.0 pt	3.0	3.2	0.0	0.0	0.1	11.6
2. Nimitz 480EC	T-Band*	3.5 pt*	2.9	3.2	0.0	0.0	0.4	10.0
3. Nimitz 480EC	T-Band*	5.0 pt*	2.8	3.2	0.0	0.0	0.3	10.4
4. ADA36230	T-Band*	6.7 pt*	2.8	3.1	0.0	0.0	0.1	9.6
5. ADA36230	T-Band*	9.6 pt*	3.3	3.3	0.0	0.1	0.0	7.2
6. ADA36230	T-Band*	13.4 pt*	2.7	3.1	0.0	0.0	0.0	11.6
7. Velum Total	In Furrow	18.0 oz	3.1	3.0	0.0	0.0	0.2	12.4
8. Untreated			2.9	3.1	0.0	0.0	0.0	9.2
LSD (P<0.05)			0.4	n.s.	n.s.	n.s.	n.s.	n.s.

*All T-Band applications applied in 3.4 GPA, mixed in 2 L volume. This is a 4 inch band applied over the top of the open furrow after the seeds are dropped and before the row is closed. The in furrow is the same dilution.

Plants/ft¹=Stand count is the number of emerged plants per foot of row on 22 and 30 May.

% Dead Plants²=The % of emerged plants that were dead or dying per plot.

TSWV³=Percent of row fee infected based on disease loci (up to 12" of linear row) per plot.

ADAMA NEMATODE MANAGEMENT TEST, 2018							
BLACKSHANK FARM, POND FIELD							
(4 damaged plots deleted from yield)							
			Root Galling ⁴	Pod Galling ⁴	Yield	Root-knot ⁵	Ring ⁶
Treatments	App's	Rate	15-Oct	15-Oct	lb/A	1-Oct.	1-Oct.
1. Nimitz 480EC	B'cast ²	5.0 pt	9.4	10.6	4065	26.6	41.0
2. Nimitz 480EC	T-Band*	3.5 pt*	10.6	11.0	3630	510.6	51.0
3. Nimitz 480EC	T-Band*	5.0 pt*	4.6	4.6	3409	82.0	80.0
4. ADA36230	T-Band*	6.7 pt*	8.2	8.2	3148	117.2	94.8
5. ADA36230	T-Band*	9.6 pt*	10.0	10.0	3594	52.6	136.2
6. ADA36230	T-Band*	13.4 pt*	7.6	7.6	3709	140.8	52.4
7. Velum Total	In Furrow	18.0 oz	12.0	13.0	3886	148.8	31.6
8. Untreated			15.8	17.5	3572	229.6	57.2
LSD (P<0.05)			5.8	9.1	790	459.4	62.5
Galling ⁴ =visual rating of the percent of pods and roots (1-100) with visible damage from rootknot nematode.							
Root-knot ⁵ = Number of M. arenaria juvenile per 100 cc of soil.							
Ring ⁶ = Population of ring nematodes per 100 cc of soil.							

EVALUATION OF IN FURROW TREATMENTS FOR CONTROL OF ROOTKNOT NEMATODES (BAYER VELUM TOTAL PROPULSE TEST, 2018)

A. PURPOSE: To evaluate the comparative efficacy of Propulse for nematode control of diseases.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with five replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: GA-06G

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles. The 20 GPA broadcast spray was applied, with three TX-SS6 conejet nozzles per row at 40 PSI
2. Treatments were applied on 13 Jun, 26 Jun, 10 Jul, 24 Jul, 7 Aug, 22 Aug and 5 Sept. No cover sprays were applied to this test.

D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Pond Field, Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 28 Mar. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Rotary strip till through to subsoil on 26 Apr. Tri-est fumigated on 11 Apr.
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 21 Apr.
POST: + Non Ionic Surfactant (0.25% v/v) on 27 Jul, Poast (1.4 pt/A) + Crop Oil (1 pt/A) on 17 Aug.
6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 26 May, and on 15 Aug for worms.
Dimilin 2 L (6 fl oz/A) for worms on 6 Sept.

7. Planting Info: GA-06G, 6 seed/ft (2" deep) 8 May
8. Harvest Dates: Dug – 15 Oct Picked – 18 Oct

BAYER VELUM TOTAL PROPULSE TEST, 2018								
BLACKSHANK FARM, POND FIELD								
Treatments	App's	Rate	Plant/ft ¹		% Dead Plants ²			TSWV ³
			22-May	30-May	22-May	30-May	12-Jun	2-Aug
1. Bravo	1 - 7	1.5 pt	3.0	3.1	0.0	0.0	0.0	9.6
2. Admire Pro	IF*	9.0 fl oz	3.0	3.1	0.0	0.0	0.0	8.4
Absolute	1	3.5 fl oz						
Bravo	2 & 7	1.5 pt						
Elatus	3 & 5	7.3 oz						
Provost Xtra	4 & 6	13.0 fl oz						
3. Admire Pro	IF*	9.0 fl oz	2.8	2.9	0.0	0.0	0.0	5.6
Propulse	IF*	13.6 fl oz						
Absolute	1	3.5 fl oz						
Propulse	2	13.6 fl oz						
Elatus	3 & 5	7.3 oz						
Provosts Xtra	4 & 6	13.0 fl oz						
Bravi	7	1.5 pt						
4. Velum Total	IF*	18.0 fl oz	3.1	3.2	0.0	0.0	0.0	6.4
Absolute	1	3.5 fl oz						
Propulse	2	13.6 fl oz						
Elatus	3 & 5	7.3 oz						
Provost Xtra	4 & 6	13.0 fl oz						
Bravo	7	1.5 pt						
5. AgLogic	IF*	7.0 lb	3.0	3.1	0.0	0.0	0.0	3.2
Absolute	1	3.5 fl oz						
Propulse	2	13.6 fl oz						
Elatus	3 & 5	7.3 oz						
Provost Xtra	4 & 6	13.0 fl oz						
Bravo	7	1.5 pt						
LSD (P<0.05)			0.4	0.3	N.S.	N.S.	N.S.	5.4

***In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.**

Plants/ft¹=Stand count is the number of emerged plants per foot of row on 22 and 30 May.

% Dead Plants²=The % of emerged plants that were dead or dying per plot.

TSWV³=Percent of row fee infected based on disease loci (up to 12" of linear row) per plot.

BAYER VELUM TOTAL PROPULSE TEST, 2018							
BLACKSHANK FARM, POND FIELD							
			Root Galling ⁴	Pod Galling ⁴	Root-knot ⁵	Ring ⁶	Yield
Treatments	App's	Rate	15-Oct	15-Oct	17-Oct	17-Oct	lb/A
1. Bravo	1 - 7	1.5 pt	31.0	37.0	94.4	53.6	2439
2. Admire Pro	IF*	9.0 fl oz	25.0	21.0	119.2	43.2	3078
Absolute	1	3.5 fl oz					
Bravo	2 & 7	1.5 pt					
Elatus	3 & 5	7.3 oz					
Provost Xtra	4 & 6	13.0 fl oz					
3. Admire Pro	IF*	9.0 fl oz	19.0	25.0	136.4	60.0	3671
Propulse	IF*	13.6 fl oz					
Absolute	1	3.5 fl oz					
Propulse	2	13.6 fl oz					
Elatus	3 & 5	7.3 oz					
Provosts Xtra	4 & 6	13.0 fl oz					
Bravi	7	1.5 pt					
4. Velum Total	IF*	18.0 fl oz	15.0	17.0	54.8	50.8	3194
Absolute	1	3.5 fl oz					
Propulse	2	13.6 fl oz					
Elatus	3 & 5	7.3 oz					
Provost Xtra	4 & 6	13.0 fl oz					
Bravo	7	1.5 pt					
5. AgLogic	IF*	7.0 lb	11.0	14.0	56.0	78.4	3659
Absolute	1	3.5 fl oz					
Propulse	2	13.6 fl oz					
Elatus	3 & 5	7.3 oz					
Provost Xtra	4 & 6	13.0 fl oz					
Bravo	7	1.5 pt					
LSD (P<0.05)			8.6	11.1	N.S.	N.S.	931
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.							
Galling ⁴ =visual rating of the % of pods and roots (1-100) with visible damage from rootknot nematode.							
Root-knot ⁵ = Number of M. arenaria juvenile per 100 cc of soil.							
Ring ⁶ = Population of ring nematodes per 100 cc of soil.							

BAYER VELUM TOTAL PROPULSE TEST, 2018					
BLACKSHANK FARM, POND FIELD					
Treatments	App's	Rate	SMKSS⁷	\$/Ton	\$/Acre
1. Bravo	1 - 7	1.5 pt	71.6	345.9	423.4
2. Admire Pro	IF*	9.0 fl oz	76.1	370.4	573.5
Absolute	1	3.5 fl oz			
Bravo	2 & 7	1.5 pt			
Elatus	3 & 5	7.3 oz			
Provost Xtra	4 & 6	13.0 fl oz			
3. Admire Pro	IF*	9.0 fl oz	70.4	343.0	625.4
Propulse	IF*	13.6 fl oz			
Absolute	1	3.5 fl oz			
Propulse	2	13.6 fl oz			
Elatus	3 & 5	7.3 oz			
Provosts Xtra	4 & 6	13.0 fl oz			
Bravi	7	1.5 pt			
4. Velum Total	IF*	18.0 fl oz	72.9	355.1	569.7
Absolute	1	3.5 fl oz			
Propulse	2	13.6 fl oz			
Elatus	3 & 5	7.3 oz			
Provost Xtra	4 & 6	13.0 fl oz			
Bravo	7	1.5 pt			
5. AgLogic	IF*	7.0 lb	73.4	356.5	651.9
Absolute	1	3.5 fl oz			
Propulse	2	13.6 fl oz			
Elatus	3 & 5	7.3 oz			
Provost Xtra	4 & 6	13.0 fl oz			
Bravo	7	1.5 pt			
LSD (P<0.05)			N.S.	N.S.	174.9
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume					
SMKSS ⁷ = The percent of sound mature kernels and sound splits.					

AMVAC NEMATICIDE TEST, 2018

- A. PURPOSE: To evaluate the comparative efficacy of experimental treatments for control of nematodes.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: GA-06G
- C. APPLICATION OF TREATMENTS:
1. Equipment: The in furrow spray was applied with a TP 80015E flat fan nozzle w/ a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
 2. Cover sprays for leaf spot control of Chlorothalanil 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) were applied on 13 Jun, Chlorothalanil 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 27 Jun, Chlorothalanil 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost (Opti (8 fl oz/A) on 10 Jul, Chlorothalanil 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 24 Jul, Chlorothalanil 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Extra (10 fl oz/A) on 7 Aug, Elatus 45 (9.5 oz/A) on 22 Aug, Chlorothalanil 720 (1.5 pt/A) + Elatus 45 WG (7.3 oz/A) on 5 Sep. The in furrow sprays were applied at planting on 15 May. The 28 DAP's were applied on 8 Jun and irrigated 0.15" afterwards. The 45 DAP's were applied on 2 Jul and irrigated 0.15 inches.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm Pond Field, Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 28 Mar. Rotary strip till through to subsoil 18" deep 26 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Tri-est fumigated on 11 Apr.
 4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May. Thimet (5lb/A) IF on 9 May.

POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 11 Jul.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 113 Jun.

7. Planting Info: Planted GA-06G and GA-14N, 6 seed/ft (2" deep) 9 May.

8. Harvest Dates: Dug – 15 Oct Picked – 18 Oct

E: SUMMARY:

AMVAC NEMATICIDE TEST, 2018

BLACKSHANK FARM, POND FIELD

Treatments	App's	Rate	TSWV ¹	Root Gall ²	Pod Gall ²	Yield lb/A	Root-knot ³	Ring ⁴
			2-Aug	15-Oct	15-Oct		1-Oct	1-Oct
GA-06G								
1. Thimet	IF*	5.0 lb	2.8	18.0	29.0	2410	1.4	26.4
2. Thimet	IF*	5.0 lb	2.4	19.0	37.0	2672	244.8	48.6
Return	45 DAP	17.0 fl oz						
3. Thimet	IF*	5.0 lb	3.2	17.0	36.0	2556	214.2	39.4
Return	28 and 45 DAP	17.0 fl oz						
4. Thimet	IF*	5.0 lb	1.6	14.0	26.0	2439	112.8	57.2
Propulse	45 DAP	13.6 fl oz						
GA-14N								
5. Thimet	IF*	5.0 lb	2.0	0.0	0.0	2585	0.0	4.0
6. Thimet	IF*	5.0 lb	1.2	0.0	0.0	2788	0.8	26.8
Return	28 and 45 DAP	17.0 fl oz						
7. Thimet	IF*	5.0 lb	3.2	0.0	0.0	2410	0.4	31.0
Propulse	45 DAP	13.6 fl oz						
LSD (P<0.05)			n.s.	5.7	15.0	n.s.	193.5	39.1
<p>TSWV¹=Percent of row fee infected based on disease loci (up to 12" of linear row) per plot.</p> <p>Galling²=visual rating of the percent of pods and roots (1-100) with visible damage from rootknot nematode.</p> <p>Root-knot³ = Number of <i>M. arenaria</i> juvenile per 100 cc of soil.</p> <p>Ring⁴ = Population of ring nematodes per 100 cc of soil.</p>								

OFFICIAL DAILY RAINFALL 2018

BLACKSHANK FARM, POND FIELD

TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
2					0.15			
3			0.3					
5					0.2			
8				0.1				
11		0.2					0.6	
14							0.4	
25				0.4				
TOTAL	0.0	0.2	0.3	0.5	0.4	0.0	1.0	0.0
Rain & Irr	3.4	2.9	7.2	6.3	6.3	9.4	3.3	2.7

BASF IN FURROW TEST, 2018

- A. PURPOSE: To evaluate the effects of in furrow fungicides
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with eight replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
3. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow sprays were applied with a TP80015E flat fan nozzle with a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
- Cover sprays for leaf spot control of Chlorothalanyl 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) were applied on 13 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 27 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost (Opti (8 fl oz/A) on 10 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 24 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Extra (10 fl oz/A) on 7 Aug, Elatus 45 (9.5 oz/A) on 22 Aug, Chlorothalanyl 720 (1.5 pt/A) + Elatus 45 WG (7.3 oz/A) on 5 Sep.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 18 Apr.
Rotary tiller through subsoil on 26 Apr.
Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
 4. Soil Fertility: pH – 6.4 P – 85 K – 17 Ca – 362 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 11 Jul.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
7. Planting Info: Tifguard, 6 seed/ft (2.0" deep) of row on 9 May.
8. Harvest Dates: Dug – 5 Oct Picked –9 Oct

BASF In Furrow Test, 2018						
Blackshank Farm, Irr-Nonirrigated Field						
Treatment*	Rate	Plant/ft ¹		% Dead Plants ²		
		23-May	30-May	23-May	30-May	13-Jun
1. Nontreated		2.7	2.9	0.0	0.1	2.4
2. Xanthion Comp A	0.6 fl oz	2.6	2.9	0.0	0.4	1.0
Xanthion Comp B	3.0 fl oz					
3. Xanthion Comp A	1.2 fl oz	2.9	3.0	0.1	0.1	0.5
Xanthion Comp B	7.0 fl oz					
4. Proline	5.7 fl oz	2.5	2.8	0.0	0.0	0.4
5. Abound	7.0 fl oz	2.5	2.8	0.0	0.6	1.4
LSD (P<0.05)		0.3	N.S.	N.S.	0.4	0.9
*Treatments 2-5 were applied in furrow in 3.4 GPA singles, mixed in 2 L volume.						

Plants/ft¹=Stand count is the number of emerged plants per foot of row on 15 and 21 May.
 % Dead Plants²=The % of emerged plants that were dead or dying per plot.

BASF In Furrow Test, 2018				
Blackshank Farm, Irr-Nonirrigated Field				
		TSWV³	WM⁴	Yield
Treatment*	Rate	18-Jul	5-Oct	lb/A
1. Nontreated		4.8	12.3	4538
2. Xanthion Comp A	0.6 fl oz	2.5	18.5	4810
Xanthion Comp B	3.0 fl oz			
3. Xanthion Comp A	1.2 fl oz	4.0	13.5	5046
Xanthion Comp B	7.0 fl oz			
4. Proline	5.7 fl oz	3.5	14.3	4919
5. Abound	7.0 fl oz	3.5	13.7	4356
LSD (P<0.05)		N.S.	N.S.	565
*Treatments 2-5 were applied in furrow in 3.4 GPA singles, mixed in 2 L volume.				
TSWV ³ =Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.				
White Mold ⁴ =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.				

ROOT KNOT NEMATODE SCREEN, 2018

A. PURPOSE: To evaluate the comparative efficacy of fungicides applied for the control foliar and soil borne diseases.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with seven replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Different Varieties

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow sprays were applied with a TP80015E flat fan nozzle with a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
2. Cover sprays for leaf spot control of Chlorothalanyl 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) were applied on 13 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 27 Jun, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost (Opti (8 fl oz/A) on 10 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 24 Jul, Chlorothalanyl 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Extra (10 fl oz/A) on 7 Aug, Elatus 45 (9.5 oz/A) on 22 Aug, Chlorothalanyl 720 (1.5 pt/A) + Elatus 45 WG (7.3 oz/A) on 5 Sep.
- 3.

D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 18 Apr.
Rotary tiller through subsoil on 26 Apr.
Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
4. Soil Fertility: pH – 6.4 P – 85 K – 17 Ca – 362 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May.

POST: Cadre (4 fl oz/A) + Non Ionic Surfactant
(2 pt/100 gal water) on 11 Jul.

- 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
- 7. Planting Info: Different Varieties, 6 seed/ft (2" deep) on 10 May
- 8. Harvest Dates: Dug – 29 Oct Picked –1 Nov

RKN Screening Test, 2018				
Irr/Non Field, Blackshank Farm				
	Root Galling¹	Pod Galling¹	Root-knot²	Ring³
Cultivar	29-Oct	29-Oct	1-Oct.	1-Oct.
1. GA-045	4.0	9.3	15.1	49.1
2. GA-17SP	1.3	6.4	0.6	38.0
3. GA 082549R-1	0.6	1.3	0.0	42.9
4. GA 082549R-2	0.3	1.0	0.0	70.6
5. GA 082549R-3	0.4	1.0	0.6	63.1
6. GA 082549R-MSg	0.0	1.0	0.4	95.1
7. GA 082549R-MSg	0.4	0.7	0.0	64.0
8. GA 082549R-MSg	0.6	2.3	0.3	60.0
LSD (P<0.05)	1.4	2.8	6.3	56.9
Galling ¹ =visual rating of the percent of pods and roots (1-100) with visible damage from rootknot nematode.				
Root-knot ² = Number of <i>M. arenaria</i> juvenile per 100 cc of soil.				
Ring ³ = Population of ring nematodes per 100 cc of soil.				

BAYER IN FURROW TEST, 2018

- A. PURPOSE: To evaluate the comparative efficacy of fungicides applied in furrow for the control foliar and soil borne diseases.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with four replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
4. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow sprays were applied with a TP80015E flat fan nozzle with a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
 5. Treatments (1-7) were applied on 13 Jun, 26 Jun, 10 Jul, 24 Jul, 7 Aug, 22 Aug, and 5 Sep.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 18 Apr. Rotary tiller through subsoil on 26 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
 4. Soil Fertility: pH – 6.4 P – 85 K – 17 Ca – 362 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 11 Jul.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: Tifguard, 6 seed/ft (2" deep) on 9 May.

8. Harvest Dates: Dug – 5 Oct Picked –8, 9 Oct

Bayer In Furrow Test, 2018							
Blackshank Farm, Irr-Nonirrigated Field							
			Plant/ft ¹		% Dead Plants ²		
Treatment	App's	Rate	23-May	30-May	23-May	30-May	13-Jun
1. Untreated			2.7	3.0	0.0	0.0	2.1
2. Admire Pro	IF*	9.0 fl oz	2.5	2.6	0.0	0.0	0.5
Propulse	IF*	13.6 fl oz					
Absolute	1	3.5 fl oz					
Propulse	2	13.6 fl oz					
Elatus	3 & 5	7.3 oz					
Provost Xtra	4 & 6	13.0 fl oz					
Bravo	7	1.5 pt					
3. Admire Pro	IF*	9.0 fl oz	-	-	-	-	-
Propulse	IF*	13.6 fl oz					
Absolute	2	3.5 fl oz					
Propulse	3	13.6 fl oz					
Provost Xtra	4 & 6	13.0 fl oz					
Elatus	5	7.3 oz					
Bravo	7	1.5 pt					
4. Velum Total	IF*	18.0 fl oz	2.5	2.7	0.0	0.0	0.0
Absolute	1	3.5 fl oz					
Propulse	2	13.6 fl oz					
Elatus	3 & 5	7.3 oz					
Provost Xtra	4 & 6	13.0 fl oz					
Bravo	7	1.5 pt					
5. Bravo	1 & 7	1.5 pt	-	-	-	-	-
Absolute	2	3.5 fl oz					
Provost Xtra	3--6	13.0 fl oz					

6. Bravo	1 & 7	1.5 pt	-	-	-	-	-
Absolute	2	3.5 fl oz					
Provost Opti	3--6	10.7 fl oz					
7. Bravo	1 & 7	1.5 pt	-	-	-	-	-
Absolute	2	3.5 fl oz					
Elatus	3 & 5	7.3 oz					
Provost Xtra	4 & 6	13.0 fl oz					
LSD (P<0.05)			N.S.	N.S.	N.S.	N.S.	1.2
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.							
Plants/ft ¹ =Stand count is the number of emerged plants per foot of row on 15							
and 21 May.							
% Dead Plants ² =The % of emerged plants that were dead or dying per plot.							

Bayer In Furrow Test, 2018						
Blackshank Farm, Irr-Nonirrigated Field						
			TSWV³	LS⁴	WM⁵	Yield
Treatment	App's	Rate	18-Jul	22-Sep	5-Oct	lb/A
1. Untreated			11.0	7.1	46.0	3122
2. Admire Pro	IF*	9.0 fl oz	5.0	2.7	2.5	5917
Propulse	IF*	13.6 fl oz				
Absolute	1	3.5 fl oz				
Propulse	2	13.6 fl oz				
Elatus	3 & 5	7.3 oz				
Provost Xtra	4 & 6	13.0 fl oz				
Bravo	7	1.5 pt				
3. Admire Pro	IF*	9.0 fl oz	8.0	2.6	5.5	5881
Propulse	IF*	13.6 fl oz				
Absolute	2	3.5 fl oz				
Propulse	3	13.6 fl oz				
Provost Xtra	4 & 6	13.0 fl oz				
Elatus	5	7.3 oz				
Bravo	7	1.5 pt				
4. Velum Total	IF*	18.0 fl oz	6.0	2.4	3.0	5372
Absolute	1	3.5 fl oz				
Propulse	2	13.6 fl oz				
Elatus	3 & 5	7.3 oz				
Provost Xtra	4 & 6	13.0 fl oz				
Bravo	7	1.5 pt				
5. Bravo	1 & 7	1.5 pt	7.0	2.9	7.5	4973
Absolute	2	3.5 fl oz				
Provost Xtra	3--6	13.0 fl oz				

6. Bravo	1 & 7	1.5 pt	6.0	3.3	12.0	4683
Absolute	2	3.5 fl oz				
Provost Opti	3--6	10.7 fl oz				
7. Bravo	1 & 7	1.5 pt	9.0	3.1	5.0	4973
Absolute	2	3.5 fl oz				
Elatus	3 & 5	7.3 oz				
Provost Xtra	4 & 6	13.0 fl oz				
LSD (P<0.05)			N.S.	0.7	11.4	589
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.						
TSWV ³ =Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.						
Leaf Spot ⁴ =Florida 1 - 10 scale where 1=no disease and 10=dead plant.						
White Mold ⁵ =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.						

RHIZOCTONIA TEST, VALENT, 2018

- A. PURPOSE: To evaluate the comparative efficacy of fungicides applied for the control soil borne diseases, especially limb rot.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with seven replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
6. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI.
 7. Treatments (1-7) were applied on 10 Jul, 24 Jul, 7 Aug, 22 Aug, and 5 Sept. Cover sprays of Chlorothalonil 720 (1.5 pt/A) for leafspot were applied on 12 Jun, 27 Jun, 10 Jul, 24 Jul, 7 Aug, 22 Aug, and 5 Sep. Inoculated all plots but Trt 8 with oat grains colonized by Rhizoctonia Isolate RS2013 on 16 Jul.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 18 Apr. Rotary tiller through subsoil on 26 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
 4. Soil Fertility: pH – 6.4 P – 85 K – 17 Ca – 362 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 11 Jul.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: Tifguard, 6 seed/ft (2” deep) on 9 May.

8. Harvest Dates: Dug –5 Oct Picked –8, 9 Oct

Rhizoctonia Test, Valent, 2018						
Irr/Non Field, Blackshank Farm						
				TSWV ¹	WM ²	RHIZ ³
Treatments	App's	Inoculated?	Rate	18-Jul	5-Oct	5-Oct
1. Untreated		yes		13.4	57.1	70.7
2. Abound	3 - 6	yes	12.0 fl oz	6.6	16.6	16.1
3. Fontelis	3 - 6	yes	16.0 fl oz	8.9	15.1	27.1
4. S-2399 2.84SC	3 - 6	yes	2.0 fl oz	8.9	6.9	15.4
5. S-2399 2.84SC	3 - 6	yes	3.0 fl oz	8.0	5.7	10.0
6. Elatus 45WG	3 - 6	yes	7.14 fl oz	10.6	12.3	13.3
7. Priaxor	3 - 6	yes	8.0 fl oz	7.1	5.4	8.9
8. Untreated		no		4.9	53.4	55.7
LSD (P<0.05)				6.0	6.0	8.6
TSWV ¹ =Percent of row feet infected based on disease loci (up to B27 of linear row) per plot.						
WM ² =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.						
RHIZ ³ =Inoculated with R.solani AG-4 with oat grain 400 ml per plot.						

Rhizoctonia Test, Valent, 2018							
Irr/Non Field, Blackshank Farm							
				Yield			
Treatments	App's	Inoculated?	Rate	lb/A	SMKSS ⁴	\$/Ton	\$/Acre
1. Untreated		yes		2448	66.7	327.5	402.0
2. Abound	3 - 6	yes	12.0 fl oz	4501	71.2	348.9	787.0
3. Fontelis	3 - 6	yes	16.0 fl oz	4190	70.9	347.4	728.1
4. S-2399 2.84SC	3 - 6	yes	2.0 fl oz	4875	70.9	346.7	845.5
5. S-2399 2.84SC	3 - 6	yes	3.0 fl oz	4875	72.1	353.1	861.5
6. Elatus 45WG	3 - 6	yes	7.14 fl oz	4584	72.7	355.7	814.6
7. Priaxor	3 - 6	yes	8.0 fl oz	4916	69.6	341.5	839.9
8. Untreated		no		2676	67.6	330.8	446.2
LSD (P<0.05)				518	3.3	16.9	104.4
SMKSS ⁴ = The percent of sound mature kernels and sound splits.							

MARRONE IN FURROW TEST, 2018

- A. PURPOSE: To evaluate the comparative efficacy of fungicides applied for the control foliar and soil borne diseases.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with four replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
8. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The in furrow sprays were applied with a TP80015E flat fan nozzle with a 100 mesh t-ball check valve at 22 psi applying 3.4 GPA.
 9. Treatments (1-7) were applied on 13 Jun, 26 Jun, 10 Jul, 24 Jul, 7 Aug, 22 Aug, and 5 Sept. Note that spray 1 & 2 were only Bravo since the ADA 641701 had not arrived.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 18 Apr. Rotary tiller through subsoil on 26 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
 4. Soil Fertility: pH – 6.4 P – 85 K – 17 Ca – 362 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 3 May.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 11 Jul.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: Tifguard, 6 seed/ft (2” deep) on 11 May.

8. Harvest Dates: Dug – 5 Oct Picked –8, 9 Oct

Marrone In Furrow Test, 2018							
Blackshank Farm, Irr-Nonirrigated Field							
Treatment	App's	Rate	Plant/ft ¹		% Dead Plants ²		
			23-May	30-May	23-May	30-May	13-Jun
1. Stargus	IF*	4.0 qt	2.6	2.7	0.0	0.0	2.5
Stargus	1--7	2.0 qt					
2. Stargus	IF*	4.0 qt	-	-	-	-	-
Stargus	1--7	2.0 qt					
+Bravo		1.5 pt					
3. Stargus	IF*	4.0 qt	-	-	-	-	-
Stargus	1, 2, 6, 7	2.0 qt					
+Bravo		1.5 pt					
Stargus	3--5	2.0 qt					
+Bravo		1.5 pt					
+Haven		0.6 % v/v					
4. Bravo	1, 3, 5, 7	1.5 pt	-	-	-	-	-
Stargus	2, 4, 6	2.0 qt					
5. Bravo	1, 2, 6, 7	1.5 pt	-	-	-	-	-
Bravo	3--5	1.5 pt					
+Haven		0.6 % v/v					
6. Bravo	1--7	1.5 pt	-	-	-	-	-
7. Untreated			2.5	2.7	0.0	0.0	2.2
LSD (P<0.05)			n.s.	n.s.	n.s.	n.s.	n.s.
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.							
Plants/ft ¹ =Stand count is the number of emerged plants per foot of row on 15 and 21 May.							
% Dead Plants ² =The % of emerged plants that were dead or dying per plot.							

Marrone In Furrow Test, 2018						
Blackshank Farm, Irr-Nonirrigated Field						
			TSWV ³	Leaf Spot ⁴	WM ⁵	Yield
Treatment	App's	Rate	18-Jul	21-Sep	5-Oct	lb/A
1. Stargus	IF*	4.0 qt	5.0	7.4	43.0	2940
Stargus	1--7	2.0 qt				
2. Stargus	IF*	4.0 qt	5.5	4.1	17.5	4102
Stargus	1--7	2.0 qt				
+Bravo		1.5 pt				
3. Stargus	IF*	4.0 qt	9.0	4.0	16.5	4211
Stargus	1, 2, 6, 7	2.0 qt				
+Bravo		1.5 pt				
Stargus	3--5	2.0 qt				
+Bravo		1.5 pt				
+Haven		0.6 % v/v				
4. Bravo	1, 3, 5, 7	1.5 pt	5.5	6.4	28.0	3775
Stargus	2, 4, 6	2.0 qt				
5. Bravo	1, 2, 6, 7	1.5 pt	11.0	4.3	29.5	3957
Bravo	3--5	1.5 pt				
+Haven		0.6 % v/v				
6. Bravo	1--7	1.5 pt	4.0	4.4	24.0	4138
7. Untreated			6.0	7.9	49.0	2614
LSD (P<0.05)			6.9	0.5	16.5	791
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L volume.						
TSWV ³ =Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.						
Leaf Spot ⁴ =Florida 1 - 10 scale where 1=no disease and 10=dead plant.						
White Mold ⁵ =Percent of row feet infected based on disease loci (up to 12" linear row) per plot						

OFFICIAL DAILY RAINFALL 2018

BLACKSHANK FARM, IRR/NON FIELD

TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
12							0.6	
13				0.5				
15			0.3					
18							0.6	
20					0.3			
25				0.4				
TOTAL	0.0	0.2	0.3	0.9	0.3	0.0	1.2	0.0
Rain & Irr	3.4	2.7	7.2	6.7	6.2	9.4	3.5	2.7

EVALUATIONS OF GENOTYPE SUSCEPTIBILITY TO WHITE MOLD
(MULTI-STATE DISEASE EVALUATION TEST, 2018)

- A. PURPOSE: To evaluate the comparative susceptibility of peanut breeding lines and cultivars to major peanut diseases in Georgia.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with four replicates.
 2. One two-row bed (15ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of with a history continuous peanut production, but the field was tarped and fumigated each spring prior to planting. This was done on April 5, 2018 with 100% chloropicrin (300 lb/A). Six plants per plot were inoculated with *Sclerotium rolfsii* at midseason (8 Aug), and length of each disease locus measured after inverting at harvest. Chlorothalonil 720 (1.5 pt/A) was applied on 3, Jul, 17, Jul, 31 Jul, and 22 Aug to provide a partial level of leaf spot control.
 5. Variety: Multiple
- C. APPLICATION OF TREATMENTS:
1. Cover sprays for leaf spot control of chlorothalonil 720 (1.5 pt/A) were applied on 26 Jun, 27 Jul, 6 Sept and 20 Sept.
- D. ADDITIONAL INFORMATION:
1. Location: Blackshank Farm, Banana Field, Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Disc Harrow on 15 March. Tri-est injected 100% Chloropicrin at (300 lb/A) and covered with plastic tarp on 5 Apr. Pulled plastic 25 Apr. Moldboard plowed and marked rows on 27 Mar. Subsoil shank ran under each row on 30 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
 4. Soil Fertility: pH – 6.4 P – 70 K – 21 Ca – 308 Mg – 42
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) on 7 May.
POST: Basagram (1.5 pt/A) + crop oil (1 qt/A) on 27 Jun. Sprayed 24DB (1 pt/A) on 17 Aug.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 6 Aug for ants.
7. Planting Info: Multiple Varieties, 6 seed/ft (2" deep) on 10 May.
8. Harvest Dates: Dug –26 Oct Picked – 30 Oct

Multi State Evaluations, 2018							
Banana Field, Blackshank Farm							
Entries	Name	Percent ¹	White Mold ²		Black	Leaf Spot ³	Yield
		Zeroes	No Zeroes	All	Pods	16-Oct	(lb/A)
1	13-276	8.3	68.3	63.1	0.8	7.9	2662
2	13-952	0.0	45.4	45.4	2.0	7.8	4901
3	13-1886	0.0	66.7	66.7	6.3	8.8	3086
4	13-2110	8.3	43.2	39.0	20.0	6.5	3993
5	13-2731	8.3	44.1	40.0	1.0	7.4	3328
6	15-35	4.2	42.7	40.2	3.8	5.6	3872
7	15-54	0.0	54.8	54.8	12.5	6.7	3630
8	15-101	4.2	44.8	42.3	1.3	7.9	3509
9	15-154	4.2	36.7	36.0	4.0	7.4	3267
10	15-42	6.7	84.2	82.2	4.2	8.7	2517
11	15-287	16.7	35.2	29.2	5.0	6.5	4780
12	15-132	25.0	30.3	22.1	13.8	6.1	3751
13	15-2157	4.2	93.0	92.1	18.8	8.9	2360
14	IAC322	4.2	45.0	43.9	6.8	6.3	2723
15	IAC886 (Florunner)	0.0	93.5	93.5	3.0	9.3	2420
16	13-1-4944 (AG1)	0.0	75.6	75.6	2.5	8.4	3086
17	12-1-0914 (AG2)	0.0	42.5	42.5	5.3	6.7	3630
18	08-1-0568 (AG3)	0.0	90.8	90.8	3.8	9.4	2638
19	17401-MR 13	4.2	43.4	41.9	9.8	7.6	4477
20	17401-MR 22	0.0	45.4	45.4	13.8	7.0	2844
21	17401-MR 10	0.0	61.0	61.0	10.0	8.6	3969
22	17401-MR 20	5.6	46.3	43.9	31.7	8.3	4759
23	17501-MR 3	0.0	77.7	77.7	7.5	8.9	2904
24	17501-MR 19	41.7	32.1	24.2	36.3	6.9	4235
25	17502-MR 2	33.3	14.2	10.1	6.5	6.4	5022
26	17502-MR 5	4.2	56.0	53.3	0.0	6.9	4235
27	17VAR-MR5	29.2	13.7	10.2	17.8	6.6	5324
28	17VAR-MR6	0.0	47.1	47.1	13.5	8.5	3872
29	ACIX1850	50.0	15.4	13.6	0.0	6.4	3691
30	ACIX3321	12.5	39.8	39.2	14.3	7.4	4114
31	ACIX2070	20.8	22.7	17.5	15.0	5.1	3388
32	TD1	20.8	28.5	22.3	20.3	5.3	4477
33	TD2	25.0	21.4	16.0	2.5	5.8	5264
34	TD3	54.2	14.3	7.7	4.5	5.8	4538
35	TD4	16.7	17.1	14.4	2.5	5.6	3570
36	GA-14N	16.7	15.5	13.0	2.5	6.8	4719
37	GA-16HO	0.0	71.7	71.7	8.8	8.1	3509
38	GA-12Y	12.5	35.8	31.0	0.0	8.9	3570
39	AU-NPL17	12.5	24.5	23.5	35.0	6.3	4296
40	TifNV High O/L	0.0	28.6	28.6	8.0	5.5	3307

41	GA-06G	0.0	56.3	56.3	12.5	8.5	3086
42	Florun 331	8.3	26.8	24.7	18.8	6.9	3933
43	Tufrunner 297	0.0	93.5	93.5	11.3	8.7	3146
44	GA-17SP	12.5	37.8	30.8	3.8	6.0	2783
45	GA-13M	0.0	94.0	94.0	1.3	9.5	3207
46	Tufrunner 511	0.0	98.3	82.5	6.3	9.4	3207
47	GA-11J	4.2	23.0	22.3	2.0	8.1	4356
48	Bailey	8.3	33.3	30.6	5.0	8.4	3086
LSD (P<0.05)		16.0	24.4	24.7	15.2	1.2	1009

¹Percent of plants inoculated with *S. rolfsii* that had no disease.

²Average length of the white mold "hits" (cm) calculated with and without "0's".

Leaf Spot³=Florida 1 - 10 scale where 1=no disease and 10=dead plant.

OFFICIAL DAILY RAINFALL 2018
BLACKSHANK FARM, BANANA FIELD
TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
11			0.3				0.7	
13							0.7	
17							0.5	
25				1.0				
TOTAL	0.0	0.0	0.3	1.0	0.0	0.0	1.9	0.0
Rain & Irr	3.4	2.7	7.2	6.8	5.9	9.4	4.2	2.7

EVALUATION OF SEED TREATMENTS FOR CONTROL OF PEANUT SEEDLING DISEASES (ARYSTA IN FURROW SEED TRT TEST, 2018)

A. PURPOSE: To evaluate the efficacy of experimental peanut seed treatments.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with four replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Tifguard (43% germination "stressed" Seed)

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. In-furrow sprays were applied in a volume of 3.4 GPA.
2. Cover sprays of chlorothalonil 720 (1.5 pt/A) were applied on 7 Jun, chlorothalonil 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) on 20 Jun, chlorothalonil 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 3 Jul, Chlorothalonil 720 (1.5 pt/A) + Convoy (10 fl oz/A) + Provost Opti (6 fl oz/A) on 17 Jul, chlorothalonil 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 31 Jul, chlorothalonil 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 14 Aug, and chlorothalonil 720 (1.5 pt/A) + Elatus 45 WG (9.5 oz/A) on 29 Aug.

D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Field Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
4. Soil Fertility: pH – 5.8 P – 21 K – 89 Ca – 779 Mg – 98
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 26 Apr.
POST: Cadre (4 oz/A) + Dual Magnum (1.5 pt/A) on 19 Jun.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 7 Jun.
7. Planting Info: Tifguard, 6 seed/ft (2.5" deep) on 2 May.
8. Harvest Dates: Dug – 25 Sep Picked – 3 Oct

ARYSTA IN FURROW SEED TRT TEST, 2018

LANG FARM, SOUTH FIELD

Treatments	In Furrow	Rate	Rate/ 100 lb	Plant/ft ¹		% Dead Plants ²		
				14-May	21-May	14-May	21-May	5-Jun
Nontrt	None			0.3	0.1	13.9	44.3	45.0
Nontrt	Abound	6.0 oz	4.0 oz	0.1	0.1	31.1	21.9	21.9
Nontrt	Evito	2.0 oz	4.0 oz	0.2	0.1	11.5	18.9	20.5
Nontrt	Proline	5.7 oz	4.0 oz	0.3	0.3	0.0	4.5	5.7
Nontrt	Blocker 4F	48.0 oz	4.0 oz	0.7	0.4	3.8	19.3	20.7
Rancona V PD	None			1.9	1.3	4.5	10.4	17.2
Rancona V PD	Abound	6.0 oz	4.0 oz	1.9	1.5	2.2	6.8	11.6
Rancona V PD	Evito	2.0 oz	4.0 oz	1.8	1.5	1.7	7.2	12.6
Rancona V PD	Proline	5.7 oz	4.0 oz	1.9	1.7	0.2	2.8	5.0
Rancona V PD	Blocker 4F	48.0 oz	4.0 oz	2.3	1.4	0.7	6.3	9.7
Dynasty PD	None			1.9	1.1	5.6	12.3	19.4
Dynasty PD	Abound	6.0 oz	4.0 oz	1.9	1.6	1.1	6.6	13.0
Dynasty PD	Evito	2.0 oz	4.0 oz	2.2	1.8	1.6	8.7	13.4
Dynasty PD	Proline	5.7 oz	4.0 oz	2.3	2.0	0.5	2.4	4.7
Dynasty PD	Blocker 4F	48.0 oz	4.0 oz	2.1	1.8	1.9	12.0	19.4
LSD(P<0.05)				0.4	0.4	10.9	14.8	15.0

Plant/ft¹=Stand count is the number of emerged plants per foot of row on 14 and 21 May.

% Dead Plants²=The % of emerged plants that were dead or dying per plot.

ARYSTA IN FURROW SEED TRT TEST, 2018

LANG FARM, SOUTH FIELD

Treatments	In Furrow	Rate	Rate/ 100 lb	TSWV³ 17-Jul	Roots/ft⁴ 27-Sep	Yield lb/A
Nontrt	None			0.0	0.1	653
Nontrt	Abound	6.0 oz	4.0 oz	1.0	0.1	581
Nontrt	Evito	2.0 oz	4.0 oz	0.0	0.1	508
Nontrt	Proline	5.7 oz	4.0 oz	0.0	0.1	835
Nontrt	Blocker 4F	48.0 oz	4.0 oz	0.5	0.1	762
Rancona V PD	None			4.5	1.1	4066
Rancona V PD	Abound	6.0 oz	4.0 oz	6.0	1.2	4211
Rancona V PD	Evito	2.0 oz	4.0 oz	4.5	1.3	4029
Rancona V PD	Proline	5.7 oz	4.0 oz	2.0	1.4	4356
Rancona V PD	Blocker 4F	48.0 oz	4.0 oz	4.0	1.5	4138
Dynasty PD	None			5.0	1.1	3340
Dynasty PD	Abound	6.0 oz	4.0 oz	4.5	1.3	4356
Dynasty PD	Evito	2.0 oz	4.0 oz	4.5	1.2	4066
Dynasty PD	Proline	5.7 oz	4.0 oz	6.5	1.4	3848
Dynasty PD	Blocker 4F	48.0 oz	4.0 oz	7.0	1.2	3739
LSD(P<0.05)				4.1	0.2	832

TSWV³=Percent of row feet infectd based on disease loci (up to 12" linear row) per plot.
 Roots/ft⁴=Number of tap roots per foot of row after the plots were inverted.

ARYSTA IN FURROW SEED TRT TEST, 2018

LANG FARM, SOUTH FIELD

Analyzed by In Furrow Trt								
Treatments	In Furrow	Rate	Rate/ 100 lb	Plant/ft¹		% Dead Plants²		
				14-May	21-May	14-May	21-May	5-Jun
All	Blocker			1.7	1.2	2.1	12.5	16.6
All	Proline			1.5	1.3	0.3	3.2	5.1
All	Evito			1.4	1.1	4.9	11.6	15.5
All	Abound			1.3	1.1	4.8	10.9	14.9
All	None			1.4	0.8	8.0	22.3	27.2
LSD(P<0.05)				0.2	0.2	6.3	8.5	8.7
Analyzed by Seed Treatment								
Treatments	In Furrow	Rate	Rate/ 100 lb	Plant/ft¹		% Dead Plants²		
				14-May	21-May	14-May	21-May	5-Jun
Nontrt	All			0.3	0.2	8.2	21.8	22.8
Rancona	All			2.0	1.5	1.9	6.7	11.2
Dynasty	All			2.1	1.6	2.1	8.4	14.0
LSD(P<0.05)				0.2	0.2	4.8	7.8	8.1
Plant/ft ¹ =Stand count is the number of emerged plants per foot of row on 14 and 21 May.								
% Dead Plants ² =The % of emerged plants that were dead or dying per plot.								

ARYSTA IN FURROW SEED TRT TEST, 2018

LANG FARM, SOUTH FIELD

Analyzed by In Furrow Trt						
Treatments	In Furrow	Rate	Rate/ 100 lb	TSWV³ 17-Jul	Roots/ft⁴ 27-Sep	Yield lb/A
All	Blocker			3.8	0.9	2880
All	Proline			2.8	1.0	3012
All	Evito			3.0	0.8	2868
All	Abound			3.8	0.9	3049
All	None			3.2	0.8	2686
LSD(P<0.05)				n.s.	n.s.	n.s.
Analyzed by Seed Treatment						
Treatments	In Furrow	Rate	Rate/ 100 lb	TSWV³ 17-Jul	Roots/ft⁴ 27-Sep	Yield lb/A
Nontrt	All			0.3	0.1	667
Rancona	All			4.2	1.3	4160
Dynasty	All			5.5	1.2	3870
LSD(P<0.05)				1.7	0.11	357

TSWV³=Percent of row feet infectd based on disease loci (up to 12" linear row) per plot.

Roots/ft⁴=Number of tap roots per foot of row after the plots were inverted.

EVALUATION OF SEED TREATMENTS FOR CONTROL OF PEANUT SEEDLING DISEASES (ARYSTA SEED TRT TEST, 2018)

A. PURPOSE: To evaluate the efficacy of labeled peanut seed treatments.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with five replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Tifguard (stressed, 43% germination)

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. In-furrow sprays were applied in a volume of 3.4 GPA.
2. Cover sprays of chlorothalonil 720 (1.5 pt/A) were applied on 7 Jun, chlorothalonil 720 (1.5 pt/A) + Provost Opti (10 fl oz/A) on 20 Jun, chlorothalonil 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 3 Jul, Chlorothalonil 720 (1.5 pt/A) + Convoy (10 fl oz/A) + Provost Opti (6 fl oz/A) on 17 Jul, chlorothalonil 720 (1.5 pt/A) + Convoy (16 fl oz/A) + Provost Opti (6 fl oz/A) on 31 Jul, chlorothalonil 720 (1.5 pt/A) + Convoy (16 fl oz/A) on 14 Aug, and chlorothalonil 720 (1.5 pt/A) + Elatus 45 WG (9.5 oz/A) on 29 Aug.

D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Field Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar.
4. Soil Fertility: pH – 5.8 P – 21 K – 89 Ca – 779 Mg – 98
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 26 Apr.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 19 Jun.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 7 Jun.
7. Planting Info: Tifguard plant, 6 seed/ft (2.5" deep) 2 May.
8. Harvest Dates: Dug – 25 Sep Picked – 3 Oct

ARYSTA SEED TRT TEST, 2018							
LANG FARM, SOUTH FIELD							
Trt	w/Rhiz	Rate	Plant/ft ¹		% Dead Plants ²		
			15-May	21-May	15-May	21-May	5-Jun
Nontrt	NO		0.2	0.2	2.6	14.4	21.3
Nontrt	YES		0.1	0.1	0.0	11.8	11.8
Rancona V PD	NO	4.0 oz	1.6	1.5	2.7	8.8	14.9
Rancona V PD	YES	4.0 oz	1.3	1.1	0.7	8.4	17.4
Dynasty PD	NO	4.0 oz	1.6	1.1	4.6	13.5	23.2
Dynasty PD	YES	4.0 oz	1.7	1.3	3.2	15.8	27.9
LSD(P<0.05)			0.4	0.3	3.9	n.s.	n.s.
All inoculated plots will be inoculated with R. Solani AG-4 (isolate RS2013 and Syngenta isolate) grown on PDA (1 plate per plot), macerated in a blender, and sprayed in a band over the row (100 ml/row) immediately ahead of planting on top of 300 ml autoclaved oats per row. Planter incorporates the oats in soil.							
Plant/ft ¹ =Stand count is the number of emerged plants per foot of row on 15 and 21 May.							
% Dead Plants ² =The % of emerged plants that were dead or dying per plot.							

ARYSTA SEED TRT TEST, 2018						
LANG FARM, SOUTH FIELD						
	Trt	w/Rhiz	Rate	TSWV ³ 16-Jul	Roots/ft ⁴ 28-Sep	Yield lb/A
	Nontrt	NO		0.4	0.11	581
	Nontrt	YES		0.4	0.08	639
	Rancona V PD	NO	4.0 oz	4.4	1.16	4792
	Rancona V PD	YES	4.0 oz	4.8	0.96	4037
	Dynasty PD	NO	4.0 oz	6.4	1.10	3949
	Dynasty PD	YES	4.0 oz	7.6	0.98	3949
	LSD(P<0.05)			4.0	0.18	773

All inoculated plots will be inoculated with R. Solani AG-4 (isolate RS2013 and Syngenta isolate) grown on PDA (1 plate per plot), macerated in a blender, and sprayed in a band over the row (100 ml/row) immediately ahead of planting on top of 300 ml autoclaved oats per row. Planter incorporates the oats in soil.

TSWV³=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.

Roots/ft⁴=Number of tap roots per foot of row after the plots were inverted.

ARYSTA SEED TRT TEST, 2018

LANG FARM, SOUTH FIELD

Trt	w/Rhiz	Plant/ft ¹		% Dead Plants ²			TSWV ³	Roots/ft ⁴	Yield
		15-May	21-May	15-May	21-May	5-Jun	16-Jul	28-Sep	lb/A
All	YES	1.0	0.8	1.3	12.0	19.2	4.3	0.67	2875
All	NO	1.2	0.9	3.3	12.2	19.8	3.7	0.79	3107
LSD(P<0.05)		0.2	n.s.	n.s.	n.s.	n.s.	n.s.	0.10	n.s.

All inoculated plots will be inoculated with R. Solani AG-4 (isolate RS2013 and Syngenta isolate) grown on PDA (1 plate per plot), macerated in a blender, and sprayed in a band over the row (100 ml/row) immediately ahead of planting on top of 300 ml autoclaved oats per row.

Planter incorporates the oats in soil.

Plant/ft¹=Stand count is the number of emerged plants per foot of row on 15 and 21 May.

% Dead Plants²=The % of emerged plants that were dead or dying per plot.

TSWV³=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.

Roots/ft⁴=Number of tap roots per foot of row after the plots were inverted.

VALENT WHITE MOLD TEST, 2018

- A. PURPOSE: To evaluate the comparative efficacy of S-2399 and labeled products for control of peanut diseases.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles. The 20 GPA broadcast spray was applied with three TX-SS6 conejet nozzles per row at 40 PSI, and the Propulse treatments washed in with irrigation within 24 hours after application. The in furrow spray was applied with a TP 80015E flat fan nozzle w/ a 100 mesh t-ball check valve at 22 PSI applying 3.4 GPA.
 2. Cover sprays of chlorothalonil 720 (1.5 pt/A) were applied on 7 Jun, 20 Jun, 3 Jul, 17 Jul, 31 Jul, 14 Aug, and 29 Aug. Treatment sprays 1 – 7 were applied on 7 Jun, 20 Jun, 3 Jul, 17 Jul, 31 Jul, 14 Aug, and 29 Aug.
- D. ADDITIONAL INFORMATION:
1. Location: Lang Farm, South Field, Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 4 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Rotary till through to subsoil on 13 Apr.
 4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 26 Apr.
POST: Cadre at (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 19 Jul.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 7 Jun.

7. Planting Info: Tifguard, 6 seed/ft (2" deep) 1 May

8. Harvest Dates: Dug – 25 Sep Picked – 3 Oct

E: SUMMARY:

VALENT WHITE MOLD TEST, 2018						
LANG FARM, SOUTH FIELD						
			TSWV ¹	Leaf Spot ²	White Mold ³	Yield
Treatments	APP'S	Rate	9-Aug	24-Sep	25-Sep	lb/A
1. Untreated			4.0	5.1	25.8	4124
2. Convoy	3 - 6	13.0 fl oz	5.6	4.5	12.8	4385
3. Elatus	1, 3, 5	7.3 oz	6.0	3.7	9.2	4240
4. Elatus	3 & 5	7.3 oz	6.4	4.5	8.0	4472
5. Fontelis	3 - 5	16.9 fl oz	4.4	3.4	10.8	4879
6. S-2399 2.84SC	3 - 6	2.0 fl oz	4.0	4.1	8.8	4734
7. S-2399 2.84SC	1, 3, 5	2.65 fl oz	8.0	4.6	6.4	4908
8. S-2399 2.84SC	3 - 5	2.65 fl oz	7.2	4.1	8.0	4792
9. S-2399 2.84SC	3 & 5	2.0 fl oz	6.8	5.0	12.0	5053
10. S-2399 2.84SC	3 & 5	4.0 fl oz	4.0	4.4	6.4	4559
11. Calbor	1 & 3	16 fl oz	6.4	5.4	24.8	4269
LSD(P<0.05)			n.s.	0.8	6.5	691
TSWV ¹ =Percent of row feet infectd based on disease loci (up to 12" linear row) per plot.						
Leaf Spot ² =Florida 1 - 10 scale where 1=no disease and 10=dead plant.						
White Mold ³ =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.						

EVALUATION OF FUNGICIDE PROGRAMS FOR THE CONTROL OF PEANUT
SOILBORNE DISEASE (NICHINO TEST, 2018)

- A. PURPOSE: To evaluate the efficacy of different programs for southern stem rot (White Mold).
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles. The 20 GPA broadcast spray was applied with three TX-SS6 conejet nozzles per row at 40 PSI.
 3. Cover sprays of chlorothalonil 720 (1.5 pt/A) were applied on 7 Jun, 20 Jun, 3 Jul, 17 Jul, 31 Jul, 14 Aug, and 29 Aug. Treatment sprays 1 – 7 were applied on 7 Jun, 20 Jun, 3 Jul, 17 Jul, 31 Jul, 14 Aug, and 29 Aug.
- D. ADDITIONAL INFORMATION:
1. Location: Lang Farm, South Field, Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 4 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Rotary till through to subsoil on 13 Apr.
 4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 19 Apr.
POST: Cadre at (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 7 Jun.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 7 Jun.
 7. Planting Info: Tifguard, 6 seed/ft (2" deep) 1 May

8. Harvest Dates: Dug – 25 Sep Picked – 4 Oct

NICHINO TEST, 2018						
LANG FARM, SOUTH FIELD						
Treatments	APP'S	Rate	TSWV ¹ 9-Aug	Leaf Spot ² 24-Sep	White Mold ³ 25-Sep	Yield lb/A
1. Nontreated			12.0	5.1	23.6	3949
2. Convoy	3 & 5	32 fl oz	2.4	5.2	13.6	4530
3. Convoy	3 - 6	16 fl oz	8.8	5.3	10.0	4356
4. Umbra	3 & 5	36 fl oz	14.8	4.1	15.6	4298
5. Umbra	3 - 6	18 fl oz	12.8	3.7	14.0	4646
6. Elatus 45WG	3 & 5	9.5 fl oz	8.0	4.5	6.4	4675
7. Elatus 45WG	3 - 6	4.75 fl oz	9.2	4.2	11.2	4617
8. Pyraziflumid	3 - 6	3.08 fl oz	6.0	4.0	18.0	4501
9. Pyraziflumid	3 - 6	1.54 fl oz	13.2	4.6	27.2	4124
10. Pyraziflumid + Abound	3 - 6	3.08 fl oz 11.0 fl oz	7.2	3.9	12.4	4501
11. Pyraziflumid + Abound	3 - 6	1.54 fl oz 11.0 fl oz	12.0	4.3	11.2	4734
LSD(P<0.05)			8.1	0.6	8.1	771
TSWV ¹ =Percent of row feet infectd based on disease loci (up to 12" linear row) per plot.						
Leaf Spot ² =Florida 1 - 10 scale where 1=no disease and 10=dead plant.						
White Mold ³ =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.						

OFFICIAL DAILY RAINFALL 2018

BLACKSHANK FARM, SOUTH FIELD

TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
3			0.5					
8				0.4				
10			0.5					
11							0.5	
18							0.5	
25				0.6				
26					0.5			
28						0.5		
30						0.5		
TOTAL	0.0	0.0	1.0	1.0	0.5	1.0	1.0	0.0
Rain & Irr	3.4	2.7	7.9	6.8	6.4	10.4	3.3	2.7

EVALUATION OF VARIOUS FUNGICIDE PROGRAMS FOR THE CONTROL OF
PEANUT DISEASES (MISCELLANEOUS FUNGICIDE TEST II, 2018)

- A. PURPOSE: To evaluate comparative efficacy of fungicides applied for the control of white mold.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
1. Equipment: Midseason spray treatments were applied with a CO₂ Pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast Boom with three TX-SS6 conejet nozzles per row at 40 PSI.
 2. Treatment sprays 1, 1.5, 2, 2.5, 3, 4, 4.5, 5, 6 and 7 were applied on 8 Jun, 15 Jun, 22 Jun, 29 Jun, 6 Jul, 20 Jul, 27 July, 3 Aug, 17 Aug, and 31 Aug, respectively. No chlorothalonil cover sprays were applied to this test.
- D. ADDITIONAL INFORMATION:
1. Location: Rigdon Farm, New Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Cultivated 7 Jun.
 4. Soil Fertility: pH – 5.8 P – 21 K – 89 Ca – 779 Mg – 98
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 26 Apr.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 2 Jun. Spray 24DB (1 pt/A) on 17 Aug.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.

7. Planting Info: Tifguard, 6 seed/ft (2" deep) 2 May

8. Harvest Dates: Dug – 28 Sep Picked – 4 Oct

E: SUMMARY:

MISCELLANEOUS FUNGICIDE TEST II, 2018					
RIGDON FARM, NEW FIELD					
			Leaf Spot ¹	WM ²	Yield
Treatments	App's	Rate/A	24-Sep	28-Sep	lb/A
1. Bravo	1 - 7	1.5 pt	5.5	40.8	3630
2. Bravo W'stik	1, 2, 6, 7	1.5 pt	4.0	19.2	4617
Fontelis	3 - 5	16.0 fl oz			
3. Bravo W'stik	1, 6, 7	1.5 pt	4.8	22.0	4211
Provost Opti	2 - 5	8.0 fl oz			
4. Priaxor	1.5	6.0 fl oz	5.3	28.4	3717
Bravo W'stik	3 & 5	1.5 pt			
+ Convoy		32.0 fl oz			
Bravo W'stik	4, 6, 7	1.5 pt			
5. Priaxor	1.5	6.0 fl oz	5.3	16.4	4443
Bravo W'stik	3 & 7	1.5 pt			
Priaxor	4	8.0 fl oz			
Bravo	5 & 6	1.5 pt			
+ Orius 3.6		7.2 fl oz			
6. Alto	1	5.5 fl oz	2.0	13.6	4443
+ Bravo		1.0 pt			
Bravo	2 & 7	1.5 pt			
Elatus 45WG	3 & 5	9.5 oz			
+ Miravis		3.4 fl oz			
7. Alto	1	5.5 fl oz	3.3	19.6	4066
+ Bravo		1.0 pt			
Elatus 45 WG	2.5 & 4.5	9.5 oz			
+ Miravis		9.5 oz			
Bravo	6 & 7	1.5 pt			
8. Elatus 45WG	1	7.3 oz	3.8	18.8	4530
+ Bravo		1.5 pt			
Elatus 45WG	2.5 & 4.5	7.3 oz			
+ Miravis		3.4 fl oz			
Bravo	6 & 7	1.5 pt			
9. Alto	1 & 6	5.5 fl oz	3.3	14.0	4901
+ Bravo		1.0 pt			
Bravo	2, 4, & 7	1.5 pt			
Elatus 45WG	3 & 5	9.5 oz			

10. Alto	1	5.5 fl oz	2.3	13.2	4850
+ Bravo		1.0 pt			
Elatus 45WG	3 & 5	9.5 oz			
+ Miravis		3.4 fl oz			
Bravo	7	1.5 pt			
11. Nontreated			7.3	49.0	2904
12. Aproach Prima	1.5	6.8 fl oz	4.6	17.2	4066
+ Induce		0.25%			
Fontelis	3 & 5	16.0 fl oz			
+ Induce		0.25%			
Orius 3.6F	4	7.2 fl oz			
+ Induce		0.25%			
Bravo W'stik	6 & 7	1.5 pt			
13. Priaxor	1.5	6.0 fl oz	4.3	12.5	4574
+ Induce		0.25%			
Fontelis	3 & 5	16.0 fl oz			
+ Induce		0.25%			
Orius 3.6F	4	7.2 fl oz			
+ Induce		0.25%			
Bravo W'stik	6 & 7	1.5 pt			
14. Aproach Prima	1.5	6.8 fl oz	4.6	18.8	3949
+ Induce		0.25%			
Fontelis	3 & 5	16.0 fl oz			
+ Induce		0.25%			
Convoy	4	16.0 fl oz			
+ Bravo		1.5 pt%			
Bravo W'stik	6 & 7	1.5 pt			
15. Aproach Prima	1.5	6.8 fl oz	5.2	18.0	4008
+ Induce		0.25%			
Fontelis	3 & 5	10.0 fl oz			
+ Induce		0.25%			
+ Convoy		16.0 fl oz			
Bravo W'stik	4, 6, & 7	1.5 pt%			
16. Aproach Prima	1.5	6.8 fl oz	4.1	20.8	4008
+ Induce		0.25%			
Fontelis	3 & 5	10.0 fl oz			
+ Onset 3.6L		7.2 fl oz			
+ Induce		0.25%			
Bravo W'stik	4, 6, & 7	1.5 pt			

17. Aproach Prima	1.5	6.8 fl oz	5.0	18.4	4182
+ Induce		0.25%			
Fontelis	3 & 4	10. fl oz			
+ Induce		0.25%			
Bravo W'stik	4, 6, & 7	1.5 pt			
18. Aproach Prima	1.5	6.8 fl oz	4.8	20.0	4153
+ Induce		0.25%			
Fontelis	3 & 4	10.0 fl oz			
+ Incude		0.25%			
Convoy	5	16.0 fl oz			
+ Bravo		1.5 pt			
Bravo W'stik	6 & 7	1.5 pt			
19. Alto	1.5	5.5 fl oz	4.5	14.4	4008
+ Bravo		1.5 pt			
Elatus	3 & 5	9.5 oz			
Bravo W'stik	4, 6, & 7	1.5 pt			
LSD(P<0.05)			0.8	10.1	612.0
Leaf Spot ¹ =Florida 1 - 10 scale where 1=no disease and 10=dead plant.					
White Mold ² = Percent of row feet infected based on disease loci (up to 12" linear row) per plot.					

EVALUATION OF FUNGICIDE PROGRAMS FOR THE CONTROL OF PEANUT SOILBORNE DISEASES (CORTEVA TEST, 2018)

- A. PURPOSE: To evaluate the efficacy of different programs for southern stem rot (white mold).
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI.
 2. Treatments sprays 1.5 and 3-7 were applied on 15 Jun, 7 Jul, 20 Jul, 3 Aug, 17 Aug, and 31 Aug. No chlorothalonil cover sprays were applied.
- D. ADDITIONAL INFORMATION:
1. Location: Lang Farm, New Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Cultivated 7 Jun.
 4. Soil Fertility: pH – 5.8 P – 21 K – 89 Ca – 779 Mg – 98
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 26 Apr.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 19 Jun. Spray 24DB (1pt/A) on 17 Aug.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: Tifguard, 6 seed/ft (2” deep) 2 May

8. Harvest Dates: Dug – 28 Sep Picked –4 Oct

CORTEVA TEST, 2018					
RIGDON FARM, NEW FIELD					
			Leaf Spot ¹	WM ²	Yield
Treatments	App's	Rate/A	21-Sep	28-Sep	lb/A
1. Nontreated			7.8	52.8	3136
2. Aproach Prima	1.5	6.8 fl oz	4.8	23.6	4792
+ Induce		0.25%			
Fontelis	3 & 5	16.0 fl oz			
+ Induce		0.25%			
Orius 3.6F	4	7.2 fl oz			
+ Induce		0.25%			
Bravo W'stik	6 & 7	1.5 pt			
3. Priaxor	1.5	6.0 fl oz	3.9	31.6	4821
+ Induce		0.25%			
Fontelis	3 & 5	16.0 fl oz			
+ Induce		0.25%			
Orius 3.6F	4	7.2 fl oz			
+ Induce		0.25%			
Bravo W'stik	6 & 7	1.5 pt%			
4. Aproach Prima	1.5	6.8 fl oz	4.0	31.2	5024
+ Induce		0.25%			
Fontelis	3 & 5	16.0 fl oz			
+ Induce		0.25%			
Convoy	4	16.0 fl oz			
+ Bravo W'stik		1.5 pt			
Bravo W'stik	6 & 7	1.5 pt			
5. Aproach Prima	1.5	6.8 fl oz	4.5	29.2	4414
+ Induce		0.25%			
Fontelis	3 & 5	10.0 fl oz			
+ Induce		0.25%			
+ Convoy		16.0 fl oz			
Bravo W'stik	4, 6, & 7	1.5 pt			

6. Aproach Prima	1.5	6.8 fl oz	3.7	36.0	4472
+ Induce		0.25%			
Fontelis	3 & 5	10.0 fl oz			
+ Onset 3.6L		7.2 fl oz			
+ Induce		0.25%			
Bravo W'stik	4, 6, & 7	1.5 pt			
7. Aproach Prima	1.5	6.8 fl oz	4.2	39.2	4298
+ Induce		0.25%			
Fontelis	3 & 4	10.0 fl oz			
+ Induce		7.2 fl oz			
Bravo W'stik	4, 6, & 7	1.5 pt			
8. Aproach Prima	1.5	6.8 fl oz	4.7	31.6	4763
+ Induce		0.25%			
Fontelis	3 & 4	10.0 fl oz			
+ Induce		0.25%			
Convoy	5	16.0 fl oz			
+ Bravo		1.5 pt			
Bravo W'stik	6 & 7	1.5 pt			
9. Alto	1.5	5.5 floz	4.2	18.0	5460
+ Bravo		1.5 pt			
Elatus	3 & 5	9.5 oz			
Bravo W'stik	4, 6, & 7	1.5 pt			
LSD (P<0.05)			0.6	13.5	583
Leaf Spot ¹ =Florida 1 - 10 scale where 1=no disease and 10=dead plant.					
White Mold ² = Percent of row feet infected based on disease loci (up to 12" linear row) per plot.					

SYNGENTA MANAGEMENT TEST (COMPETITIVE COMPARISONS), 2018

A. PURPOSE: To evaluate the efficacy of an experimental canopy opener to improve control of white mold by improved fungicide deposition near the crown.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with five replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Tifguard

C. APPLICATION OF TREATMENTS:

1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI.
3. Treatment sprays 1, 1.5, 2, 2.5, 3, 4, 4.5, 5, 6 and 7 were applied on 8 Jun, 15 Jun, 22 Jun, 29 Jun, 6 Jul, 20 Jul, 27 July, 3 Aug, 17 Aug, and 31 Aug, respectively. No chlorothalonil cover sprays were applied to this test.

D. ADDITIONAL INFORMATION:

1. Location: Rigdon Farm, New Field Tifton, GA 31794
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized with 5-10-15 (500 lb/A) on 23 Mar. Cultivated 7 Jun.
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
5. Herbicides: PPI: Prowl (2 pt/A) + Dual Magnum (1.5pt/A) tank mix on 26 Apr.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 19 Jun. Spray 24DB (1pt/A) on 17 Aug.
6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
7. Planting Info: Tifguard, planted 6 seed/ft (2” deep) on 2 May.

8. Harvest Dates: Dug – 28 Sep Picked – 4 Oct

SYNGENTA MANAGEMENT TEST					
(Competitive Comparisons), 2018					
RIGDON FARM, NEW FIELD					
			Leaf Spot ¹	WM ²	Yield
Treatments	App's	Rate/A	24-Sep	28-Sep	lb/A
1. Bravo	1 - 7	1.5 pt	4.8	46.4	3078
2. Bravo W'stik	1, 2, 6, 7	1.5 pt	3.7	19.5	4719
Fontelis	3 - 5	16.0 fl oz			
3. Bravo W'stik	1, 6, 7	1.5 pt%	3.7	36.0	3485
Provost Opti	2 - 5	8.0 fl oz			
4. Priaxor	1.5	6.0 fl oz	3.5	30.0	4124
Bravo W'stik	3 & 5	1.5 pt			
+ Convoy		32.0 fl oz			
Bravo W'stik	4, 6, & 7	1.5 pt			
5. Priaxor	1.5	6.0 fl oz	3.5	25.2	4385
Bravo W'stik	3 & 7	1.5 pt			
Priaxor	4	8.0 fl oz			
Bravo	5 & 6	1.5 pt			
+ Orius 3.6		7.2 fl oz			
6. Alto	1	5.5 fl oz	1.7	16.8	5191
+ Bravo		1.0 pt			
Bravo	2 & 7	1.5 pt			
Elatus 45WG	3 & 5	9.5 oz			
+ Miravis		3.4 fl oz			
7. Alto	1	5.5 fl oz	2.6	26.4	4683
+ Bravo		1.0 pt			
Elatus 45WG	2.5 & 4.5	9.5 oz			
+ Miravis		3.4 fl oz			
Bravo	6 & 7	1.5 pt			

8. Elatus 45WG	1	7.3 oz	2.5	17.5	4792
+ Bravo		1.5 pt			
Elatus 45WG	2.5 & 4.5	7.3 oz			
+ Miravis		3.4 fl oz			
Bravo	6 & 7	1.5 pt			
9. Alto	1 & 6	5.5 fl oz	3.3	19.2	4821
+ Bravo		1.0 pt			
Bravo	2, 4 & 7	1.5 pt			
Elatus 45WG	3 & 5	9.5 oz			
10. Alto	1	5.5 fl oz	1.7	16.0	4538
+ Bravo		1.0 pt			
Elatus 45WG	3 & 5	9.5 oz			
+ Miravis		3.4 fl oz			
Bravo	7	1.5 pt			
LSD (P<0.05)			0.7	11.7	648
Leaf Spot ¹ = Florida 1 - 10 scale where 1=no disease and 10=dead plant.					
White Mold ² = Percent of row feet infected based on disease loci (up to 12" linear row) per plot.					

OFFICIAL DAILY RAINFALL 2018

BLACKSHANK FARM, NEW FIELD

TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
3			0.5					
TOTAL	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Rain & Irr	3.4	2.7	7.4	5.8	5.9	9.4	2.3	2.7

BAYER PROPULSE TIMING NEMATODE TEST, 2018

- A. PURPOSE: To evaluate the efficacy of Propulse for nematode control when applied at different times.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with six replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: GA-06G
- C. APPLICATION OF TREATMENTS:
1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. All in furrow applications applied in 3.4 GPA.
 2. Treatment sprays were applied on 12 Jun, 26 Jun, 10 Jul, and 24 Jul. Cover sprays of Bravo (1.5 pt/A) were applied on 16 Jun, 30 Jun, 25 Aug, and 8 Sept. Cover sprays of Bravo (1.5 pt/A) +Convoy (16 oz/A) were applied on 14 Jul, 28 Jul, and 11 Aug.
- D. ADDITIONAL INFORMATION:
1. Location: Rigdon Farm, Cotton Field Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized with 5-10-15 (500 lb/A) 23 Mar. Cultivated 8 Jun.
 4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Sonalan (2 pt/A) + Dual Magnum (1.5 pt/A) tank mix on 21 Apr.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/100 gal water) on 2 Jun.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: GA-06G, 6 seed/ft (2” deep) on 3 May.

8. Harvest Dates: Dug – 25 Sep Picked – 2 Oct

BAYER PROPULSE TIMING NEMATODE TEST, 2018

LANG FARM, COTTON FIELD

			TSWV ¹	L. Spot ²	White Mold ³	Pod Galling ⁴	Root Galling ⁴
GA-06G							
Treatments	App's	Rate	18-Jul	21-Sep	25-Sep	25-Sep	25-Sep
1. Admire Pro	In Furrow*	8.5 fl oz	4.0	5.5	21.3	14.7	9.7
2. Velum Total	In Furrow*	18.0 fl oz	5.0	4.1	19.7	8.3	2.8
3. Velum Total	In Furrow *	18.0 fl oz	2.7	4.1	20.3	6.2	3.5
Propulse	B'cast, 30 DAP**	13.7 fl oz					
4. Velum Total	In Furrow *	18.0 fl oz	3.3	3.7	15.3	3.5	1.5
Propulse	B'cast, 45 DAP**	13.7 fl oz					
5. Velum Total	In Furrow *	18.0 fl oz	3.0	3.6	10.3	4.0	1.8
Propulse	B'cast, 60 DAP**	13.7 fl oz					
6. Velum Total	In Furrow *	18.0 fl oz	1.3	3.8	8.3	4.5	1.8
Propulse	B'cast, 75 DAP**	13.7 fl oz					
GA-14N							
7. Admire Pro	In Furrow *	8.5 fl oz	3.3	3.8	4.7	0.0	0.0
LSD(P<0.05)			2.9	0.6	9.6	5.4	3.4

*In furrow applications applied in 3.4 GPA singles, mixed in 2 L. volume.

**Apply the Propulse in 20 GPA and irrigate with 0.1-0.5 inches afterwards.

TSWV¹=Percent of row feet infected based on disease loci (up to 12" linear row) per plot.

Leaf Spot²=Florida 1 - 10 scale where 1=no disease and 10=dead plant.

White Mold³=Percent of row feet infected based on stem rot loci (up to 12" linear row) per plot.

Galling⁴=Visual rating of the % pods and roots (1-100) with visible damage from rootknot nematode.

BAYER PROPULSE TIMING NEMATODE TEST, 2018

LANG FARM, COTTON FIELD

GA-06G								
Treatments	App's	Rate	Yield lb/A	Root-knot⁵ 1-Oct	Ring⁶ 1-Oct	SMKSS⁷	\$/Ton	\$/Acre
1. Admire Pro	In Furrow*	8.5 fl oz	5276	4.0	64.3	71.1	350.1	923.0
2. Velum Total	In Furrow*	18.0 fl oz	5614	55.8	78.8	72.5	358.4	1008.5
3. Velum Total	In Furrow *	18.0 fl oz	6171	16.5	27.7	73.7	363.5	1122.0
Propulse	B'cast, 30 DAP**	13.7 fl oz						
4. Velum Total	In Furrow *	18.0 fl oz	5760	6.0	27.5	73.9	365.8	1056.0
Propulse	B'cast, 45 DAP**	13.7 fl oz						
5. Velum Total	In Furrow *	18.0 fl oz	6340	5.3	74.8	74.2	367.1	1165.0
Propulse	B'cast, 60 DAP**	13.7 fl oz						
6. Velum Total	In Furrow *	18.0 fl oz	5663	11.0	51.3	72.7	360.3	1028.0
Propulse	B'cast, 75 DAP**	13.7 fl oz						
GA-14N								
7. Admire Pro	In Furrow *	8.5 fl oz	5053	0.0	41.3	73.5	364.5	925.9
LSD(P<0.05)			1031	49.8	N.S.	2.0	10.2	198.3
*In furrow applications applied in 3.4 GPA singles, mixed in 2 L. volume.								
**Apply the Propulse in 20 GPA and irrigate with 0.1-0.5 inches afterwards.								
Root-knot ⁵ = Number of M. arenaria juvenile per 100 cc of soil.								
Ring ⁶ = Population of ring nematodes per 100 cc of soil.								
SMKSS ⁷ = The percent of sound mature kernels and sound splits.								

EVALUATION OF FUNGICIDES FOR FOLIAR AND SOILBORNE DISEASE CONTROL ON TIFGUARD (MISCELLANEOUS FUNGICIDE TEST I, 2018)

- A. PURPOSE: To evaluate the comparative efficacy of fungicides applied for the control foliar and soil borne diseases.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
 3. There are eight foot alleyways between blocks.
 4. Plots were established in an area of continuous peanut production.
 5. Variety: Tifguard
- C. APPLICATION OF TREATMENTS:
1. Equipment: Midseason spray treatments were applied with a CO₂ pressurized belt-pack sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI.
 2. Treatments were applied on 7 Jun, 5 Jul, 19 Jul, 2 Aug and 16 Aug. Cover sprays of Bravo (1.5 pt/A) were applied on 7 Jun, 27 Jun, 5 Jul, 19 Jul, 2 Aug, 16 Aug, 30 Aug. and 6 Sep.
- D. ADDITIONAL INFORMATION:
1. Location: Rigdon Farm, Cotton Tifton, GA 31794
 2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
 3. Land Preparation: Moldboard plowed and marked rows on 17 Apr. Fertilized 5-10-15 500 lbs on 23 Mar. Cultivated 8 Jun.
 4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Soil type: Tifton loamy sand, 2 – 5% slope.
 5. Herbicides: PPI: Prowl (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 26 Apr.
POST: Cadre (4 fl oz/A) + Non Ionic Surfactant (2 pt/ 100 gal water) on 19 Jun.
 6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 13 Jun.
 7. Planting Info: Tifguard, 6 seed/ft (2” deep) 2 May.

8. Harvest Dates: Dug – 25 Sept Picked – 2 Oct

MISCELLANEOUS FUNGICIDE TEST I, 2018					
LANG FARM, COTTON FIELD					
			Leaf Spot ¹	White Mold ²	Yield
Treatments	App's	Rate	21-Sep	25-Sep	lb/A
1. Untreated			5.4	19.0	4029
2. Convoy	3 - 6	13.0 fl oz	4.7	24.0	5046
3. Elatus	1, 3, 5	7.3 oz	3.6	10.0	4501
4. Elatus	3 & 5	7.3 oz	3.6	10.0	5009
5. Fontelis	3 - 5	16.9 fl oz	3.5	17.5	4320
6. S-2399 2.84SC	3 - 6	2.0 fl oz	4.6	11.0	5155
7. S-2399 2.84SC	1, 3, 5	2.65 fl oz	4.2	11.0	5227
8. S-2399 2.84SC	3 - 5	2.65 fl oz	3.9	9.0	5046
9. S-2399 2.84SC	3 & 5	2.0 fl oz	4.8	11.0	5009
10. S-2399 2.84SC	3 & 5	4.0 fl oz	4.6	7.5	5082
11. Pyraziflumid	3 - 6	3.08 fl oz	3.9	21.0	3920
12. Pyraziflumid	3 - 6	1.54 fl oz	4.2	32.0	4901
13. Pyraziflumid + Abound	3 - 6	3.08 fl oz 11.0 fl oz	3.8	13.0	5191
14. Pyraziflumid + Abound	3 - 6	1.54 fl oz 11.0 fl oz	3.5	11.5	5009
15. Copper Quick	1, 3, 5	8.0 fl oz	5.2	30.0	4828
16. Propulse	3	13.6 fl oz	3.7	21.5	4211
LSD(P<0.05)			0.6	11.9	1305

Leaf Spot¹=Florida 1 - 10 scale where 1=no disease and 10=dead plant.
White Mold²=Percent of row feet infected based on stem rot loci (up to 12" linear row) per plot.

OFFICIAL DAILY RAINFALL 2018
BLACKSHANK FARM, COTTON FIELD
TIFTON, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						0.08	0.3	
2				0.8		0.6		
3				0.7		0.8		
4					0.1	0.9		
5					0.3			
6	0.1					0.1		
7		0.5			0.7		0.1	
8								0.2
9					0.3	0.4		
10						2.7		2.5
11	0.9							
14			0.1		0.9			
15		1.2	0.7		0.3	1.5		
16			0.1	0.1				
17			0.1	0.4		0.2		
18	0.1		0.4			0.1	0.5	
19	1.2				0.1	0.2		
20			0.2		0.3	1.1		
21			0.1		0.5	0.1		
22		0.4	0.2			0.1		
23		0.7	0.6		0.3			
24			0.3		0.9			
25				0.1				0.1
26	0.1	0.1	0.1				0.1	
27			0.3	1.1	0.1			
28			1.2	0.5		0.4		
29			2.4		0.7		1.4	
30	1.0			2.4	0.2			
31					0.2	0.1		
TOTAL	3.4	2.7	6.9	5.8	5.9	9.4	2.3	2.7
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
4			0.4					
7			0.5					
11		0.5					0.6	
12		0.4						
27					0.3			
TOTAL	0.0	0.9	0.9	0.0	0.3	0.0	0.6	0.0
Rain & Irr	3.4	3.7	7.8	5.8	6.2	9.4	2.9	2.7

EVALUATION OF FUMIGANTS FOR CONTROL OF PEANUT ROOT KNOT NEMATODE, (TRI-EST FUMIGATION TEST, 2018, Old Tubbs Field)

A. PURPOSE: To evaluate the effect of fumigants on peanut root knot nematode.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with three replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: GA06G

C. APPLICATION OF TREATMENTS:

1. Equipment: All sprays were applied with a commercial, tractor-mounter sprayer. A full fungicide program was applied to maintain good control of foliar and soilborne diseases.
2. Fumigant treatments were applied prior to planting by Tri-Est.

D. ADDITIONAL INFORMATION:

1. Location: Attapulgus Research & Education Center, Attapulgus, GA (Old Tubbs Field w/Monfort)
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 5 May. Manganese (1 pt/A) on 13 Aug, 24 Jul
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48 Boron (1 qt/A) on 16 Jun, 27 Jun; Manganese (1.5 qt/A) on 7 Jul, 19 Jul; Sulfur (1 qt/A) on 2 Aug.
Soil type: Norfolk loamy sand
5. Herbicides: PPI: Prowl (1qt/A) on 18 May Valor (3 oz/A) on 18 May, Strongarm (.45 oz/A) on 18 May. POST: Cadre (4 oz/A) was applied on 27 Jun and 13 Jul.
6. Insecticides: Intrepid Edge (8 oz/A) on 13 Jul and 16 Aug; Bifenture (5 oz/A) on 24 Aug.

7. Planting Info: GA-06G, 5 seed/ft (2" deep) 17 May
8. Harvest Dates: Dug – 16 Oct Picked –23 Oct

TRI-EST FUMIGATION TEST, 2018							
ATTAPULGUS							
Treatments	Rate/A	TSWV ¹ 21-Sep	Ring ² 1-Oct	Root-knot ³ 1-Oct	Root Gall ⁴ 16-Oct	Pod Gall ⁴ 16-Oct	Yield lb/A
1. Telone II	150 lb	4.0	126	498	28	35	5230
2. Pic-Clor 80	120 lb	8.7	217	1024	47	35	5295
3. TRI-02	120 lb	6.0	139	804	48	57	4759
4. Pic 80 + TRO-01	30 + 100 lb	6.0	191	923	47	52	5040
5. Untreated		4.0	251	1172	70	63	4398
LSD(P<0.05)		n.s.	103	n.s.	32	25	n.s.
TSWV ¹ = Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.							
Ring ² = population of ring nematodes per 100 cc of soil.							
Root-knot ³ = number of <i>M. arenaria</i> juveniles per 100 cc of soil prior to harvest.							
Galling ⁴ = Visual rating of the percent of pods and roots (1-100) with visible galling.							

EVALUATION OF PEANUT GENOTYPES FOR RESISTANCE TO PEANUT ROOT KNOT NEMATODE, (Bill Branch Genotype Evaluation Test I, 2018, w/Holbrook Field)

A. PURPOSE: To evaluate the susceptibility of genotypes to root knot nematode.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with five replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Different varieties

C. APPLICATION OF TREATMENTS:

1. Equipment: All fungicides were broadcast over all plots with a conventional sprayer. A full fungicide program was applied to maintain good control of foliar and soilborne diseases.

D. ADDITIONAL INFORMATION:

1. Location: Attapulcus Research & Education Center, Attapulcus, GA
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 5 May.
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Boron (1 qt/A) on 16 Jun, 27 Jun; Manganese (1.5 qt/A) on 7 Jul, 19 Jul; Sulfur (1 qt/A) on 2 Aug.
Soil type: Norfolk loamy sand
5. Herbicides: PPI: Prowl (1qt/A) on 18 May Valor (3 oz/A) on 18 May, Strongarm (.45 oz/A) on 18 May.
POST: Cadre (4 oz/A) was applied on 27 Jun and 13 Jul.
6. Insecticides: Intrepid Edge (8 oz/A) on 13 Jul and 16 Aug; Bifenture (5 oz/A) on 24 Aug.
7. Planting Info: Different varieties, 5 seed/ft (2” deep) 17 May
8. Harvest Dates: Dug – 16 Oct Picked – 23 Oct

BILL BRANCH NEMATODE EVALUATION TEST I, 2018						
ATTAPULGUS w/ Holbrook Field						
	TSWV¹	Root Gall²	Pod Gall²	Yield	Root-knot³	Ring⁴
Entry	21-Sep	16-Oct	16-Oct	lb/A	1-Oct.	1-Oct.
1. GA-07W	0.8	37.0	40.0	5239	397	82
2. GA-163101	1.2	0.0	0.0	4896	4	73
3. GA-163102	1.2	0.0	5.2	5756	68	93
4. GA-163103	0.0	0.0	0.0	5889	49	133
5. GA-163104	0.4	0.0	0.0	4908	74	141
6. GA-163105	1.2	9.0	10.4	4739	239	101
7. GA-163106	2.8	0.0	0.0	5709	11	149
8. GA-163107	0.4	6.0	8.0	5076	258	121
9. GA-163109	0.0	0.0	0.0	5849	5	141
10. GA-163110	0.8	0.0	0.0	6226	2	150
LSD(P<0.05)	1.9	7.4	8.5	917	215	n.s.
TSWV ¹ =Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.						
Galling ² =Visual rating of the percent of pods and roots (1-100) with visible damage from rootknot						
Root-knot ³ = Number of M. arenaria juvenile per 100 cc of soil.						
Ring ⁴ = Population of ring nematodes per 100 cc of soil.						

EVALUATION OF PEANUT GENOTYPES FOR RESISTANCE TO PEANUT ROOT KNOT NEMATODE, (Bill Branch Genotype Evaluation Test II, 2018, Old Tubbs Field)

A. PURPOSE: To evaluate the susceptibility of genotypes to root knot nematode.

B. EXPERIMENTAL DESIGN:

1. Randomized complete blocks with five replicates.
2. One two-row bed (25ft x 6ft) per plot, 36-inch row spacing.
3. There are eight foot alleyways between blocks.
4. Plots were established in an area of continuous peanut production.
5. Variety: Different varieties

C. APPLICATION OF TREATMENTS:

1. Equipment: All fungicides were broadcast over all plots with a conventional sprayer. A full fungicide program was applied to maintain good control of foliar and soilborne diseases.

D. ADDITIONAL INFORMATION:

1. Location: Attapulcus Research & Education Center, Attapulcus, GA
2. Crop History: Peanut – 2017, Peanut – 2016, Peanut – 2015
3. Land Preparation: Moldboard plowed and marked rows on 5 May.
4. Soil Fertility: pH – 6.0 P – 25 K – 40 Ca – 309 Mg – 48
Boron (1 qt/A) on 16 Jun, 27 Jun; Manganese (1.5 qt/A) on 7 Jul, 19 Jul; Sulfur (1 qt/A) on 2 Aug.
Soil type: Norfolk loamy sand
5. Herbicides: PPI: Prowl (1qt/A) on 18 May Valor (3 oz/A) on 18 May, Strongarm (.45 oz/A) on 18 May.
POST: Cadre (4 oz/A) was applied on 27 Jun and 13 Jul.
6. Insecticides: Intrepid Edge (8 oz/A) on 13 Jul and 16 Aug; Bifenture (5 oz/A) on 24 Aug.
7. Planting Info: Different varieties, 5 seed/ft (2” deep) 17 May
8. Harvest Dates: Dug – 16 Oct Picked – 23 Oct

BILL BRANCH NEMATODE EVALUATION TEST II, 2018						
ATTAPULGUS, Old Tubbs FIELD						
Entry	TSWV¹ 21-Sep	Root Gall² 16-Oct	Pod Gall² 16-Oct	Yield lb/A	Root-knot³ 1-Oct.	Ring⁴ 1-Oct.
11. GA-07W	0.0	57.5	53.8	4458	1086	207
12. GA-163111	0.0	0.0	0.0	6803	6	257
13. GA-163114	0.0	0.0	0.0	6498	2	292
14. GA-163115	0.3	9.5	9.5	3790	362	350
15. GA-163116	0.5	6.3	8.8	4646	4	360
16. GA-163117	0.3	0.0	0.0	6868	4	330
17. GA-163118	0.0	0.0	0.0	6570	0	333
18. GA-163119	0.3	0.0	0.0	6396	6	257
19. GA-163120	0.0	0.0	0.0	6345	1	363
20. GA-14N	0.0	0.0	0.3	6062	8	458
LSD(P<0.05)	0.5	11.1	14.7	664	247	211
<p>TSWV¹=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.</p> <p>Galling²=Visual rating of the percent of pods and roots (1-100) with visible damage from rootknot nematode.</p> <p>Root-knot³ = Number of <i>M. arenaria</i> juvenile per 100 cc of soil.</p> <p>Ring⁴ = Population of ring nematodes per 100 cc of soil.</p>						

OFFICIAL DAILY RAINFALL 2018

Attapulugus

Attapulugus, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1						1.2		
2				0.6	0.5	0.7	0.1	
3						1.6		
4		0.3				0.4	0.1	
5								
6	0.2					0.6		
7		0.7			0.1		0.1	
8					0.2	0.4		
9				0.7	0.4	0.1		
10						0.4		4.1
11	0.8			0.7				
12			0.1				0.6	
13								
14				2.2	0.9			
15		0.9	0.4	0.1				
16			0.1	1.3				
17			1.0			0.1		
18	0.6		0.6		0.1			
19	0.8					0.5		
20						0.3		
21			0.4		1.4	0.4		
22		0.6	0.1	0.1	0.1			
23		0.1	1.3		0.1			
24			0.3					
25								0.2
26			0.1					0.1
27			0.7		0.3	0.5	1.2	
28			2.0	0.2		0.8	0.1	
29			0.6		0.6	0.4		
30	1.4			1.4	0.5	0.4		
31					0.9	0.2		
TOTAL	3.7	2.5	7.8	7.0	6.0	8.9	2.1	4.3
IRRIGATION								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
19							0.5	
22						0.5		
25				0.5				
26							0.5	
27				0.5				
TOTAL	0.0	0.0	0.0	1.0	0.0	0.5	1.0	0.0
Rain & Irr	3.7	2.5	7.8	8.0	6.0	9.4	3.1	4.3

EVALUATION OF VARIOUS FUNGICIDES FOR SCAB CONTROL ON WICHITA PECAN NORTH ORCHARD (PECAN FUNGICIDE TEST, 2018)

- A. PURPOSE: To evaluate the comparative efficacy of registered and experimental fungicides against pecan foliar and nut diseases, mainly scab, on a highly susceptible cultivar.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with four replicates.
 2. Each replication consisted of single-tree treatments.
 3. The orchard was established in 1988 with alternating rows of Wichita and desirable trees planted on a 40 ft x 40 ft spacing running north and south. Every other tree in each row was replanted in 2000, and these were the test trees. Alternating trees were replanted in 2008 and were not sprayed, serving as buffer trees. This test used Wichita trees only.
- C. APPLICATION OF TREATMENTS:
1. Equipment: All spray treatments were applied with a Durand Wayland PTO-driven air-blast sprayer (AF-100-32) delivering 95 gallon per acre at 125 PSI traveling 2 MPH.
 2. Calendar-based spray treatments (1-10) were applied on 12 Apr, 24 Apr, 9 May, 22 May, 5 Jun, 19 Jun, 3 Jul, 17 Jul, 31Jul, and 14 Aug.
- D. ADDITIONAL INFORMATION:
1. Location: Ponder Farm, CPES Tifton, GA 31794
 2. Soil Fertility: pH – 6.0 P – 65 K – 71 Ca – 810 Mg – 44
Soil type: Tifton loamy sand, 2 – 5 % slope.
 3. Herbicides: Roundup (2 qt/A) and Alion (10 oz/A) on 21 and Paraquat (8 oz/A) on 16 Jun.
 4. Insecticides: Dimilin 2L (12 oz/A) on 12Jul.
 5. Fertilizer: (100 lb/K), and (60 lb/N/A) on 28 Apr.
 6. Harvest Information: Wichita Trees were shaken with a Savage Model 2138 PTO-driven trunk shaker on 3 & 9 Nov. A 50 nut sample was collected for yield and quality.

PECAN FUNGICIDE TEST, 2018
PONDER FARM, WICHITA, NORTH ORCHARD

Witchita Treatments	Rate/A	App's	Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Def. ⁵
			11-Jul	11-Jul	11-Jul	23-Aug	11-Jul	23-Aug	13-Nov
1. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	48.2	2.7	98.8	100.0	21.6	71.7	31.3
+ Elast 400F	25.0 fl oz								
EXP 1	4.0 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
2. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	15.3	2.0	100.0	100.0	13.1	71.7	28.8
+ Elast 400F	25.0 fl oz								
EXP 2	7.0 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
3. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	27.3	2.8	91.4	100.0	24.3	79.7	42.5
+ Elast 400F	25.0 fl oz								
Ziram	6.0 lb	2, 4, 6, 8, 10							
4. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	38.6	5.2	94.5	100.0	31.3	78.3	32.5
+ Elast 400F	25.0 fl oz								
Ziram	6.0 lb	2, 4, 6, 8, 10							
+ Elast 400F	25.0 fl oz								
5. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	31.5	2.7	76.3	100.0	15.7	58.6	28.8
+ Elast 400F	25.0 fl oz								
Ziram	4.0 lb	2, 4, 6, 8, 10							
+ Elast 400F	25.0 fl oz								
6. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	31.0	1.2	73.1	100.0	4.9	48.6	23.8
+ Elast 400F	25.0 fl oz								
Amistar Top (=Q Top)	14.0 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
7. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	23.6	1.7	50.2	100.0	3.4	30.9	28.8
+ Elast 400F	25.0 fl oz								
Miravis Prime 3.3SC	6.8 oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
8. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	26.5	2.1	74.1	99.2	4.7	35.3	26.3
+ Elast 400F	25.0 fl oz								
Miravis Prime 3.3SC	4.6 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								

PECAN FUNGICIDE TEST, 2018									
PONDER FARM, WICHITA, NORTH ORCHARD									
Treatments	Rate/A	App's	Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Def. ⁵
			11-Jul	11-Jul	11-Jul	23-Aug	11-Jul	23-Aug	13-Nov
9. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	11.4	1.7	44.5	100.0	2.8	24.3	23.8
+ Elast 400F	25.0 fl oz								
Miravis Top	13.7 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
10. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	37.1	6.5	89.6	100.0	19.6	68.1	30.0
+ Elast 400F	25.0 fl oz								
Luna Sensation	5.00 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
11. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	29.6	2.4	73.9	100.0	20.2	66.9	33.8
+ Elast 400F	25.0 fl oz								
Absolute	7.86 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
+ Serenade Opti	16.0 oz								
12. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	29.3	1.9	92.2	100.0	8.8	75.2	26.3
+ Elast 400F	25.0 fl oz								
Luna Sensation	7.60 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
13. Super Tin 4L	6.0 fl oz	1 - 10	27.3	5.0	86.1	100.0	9.9	56.1	16.3
+ Elast 400F	25.0 fl oz								
14. Nontreated			69.8	5.6	100.0	100.0	91.3	100.0	83.8
LSD(P<0.05)			11.4	1.8	14.9	0.6	8.1	11.5	17.3

Leaf Inc.¹ = Leaf scab incidence, based on 8 terminals per tree (% of leaflets on middle leaf with scab).

Leaf Sev.² = Leaf scab severity, based on middle leaf of 8 terminals per tree.

Nut Inc.³ = Nut scab incidence, based on ratings of 8 nut clusters per tree (% of nuts with any scab).

Nut Sev.⁴ = Nut scab severity, based on 8 nuts clusters per tree (% of schuck covered with scab).

Defoliation⁵ = % of leaves that have fallen off the tree.

EVALUATION OF VARIOUS FUNGICIDES FOR SCAB CONTROL ON DESIRABLE PECAN NORTH ORCHARD (PECAN FUNGICIDE TEST, 2018)

- A. PURPOSE: To evaluate the comparative efficacy of registered and experimental fungicides against pecan foliar and nut diseases, mainly scab, on a standard commercial cultivar.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with four replicates.
 2. Each replication consisted of single-tree treatments.
 3. The orchard was established in 1988 with alternating rows of Wichita and Desirable trees planted on a 40 ft x 40 ft spacing running north and south. Every other tree in each row was replanted in 2000, and these were the test trees. Alternating trees were replanted in 2008 and were not sprayed, serving as buffer trees. This test used Desirable trees only.
- C. APPLICATION OF TREATMENTS:
1. Equipment: All spray treatments were applied with a Durand Wayland PTO-driven air-blast sprayer (AF-100-32) delivering 95 gallon per acre at 125 PSI traveling 2 MPH.
 2. Calendar-based spray treatments (1-10) were applied on 12 Apr, 24 Apr, 9 May, 22 May, 8 Jun, 19 Jun, 3 Jul, 17 Jul, 31 Jul, and 14 Aug.
- D. ADDITIONAL INFORMATION:
1. Location: Ponder Farm, CPES Tifton, GA 31794
 2. Soil Fertility: pH – 6.0 P – 65 K – 71 Ca – 810 Mg – 44
Soil type: Tifton loamy sand, 2 – 5 % slope
 3. Herbicides: Roundup (2 qt/A) and Alion (10 oz/A) on 21 and Paraquat (8 oz/A) on 16 Jun.
 4. Insecticides: Dimilin 2L (12 oz/A) on 12 Jul.
 5. Fertilizer: (100 lb/K), and (60 lb/N/A) on 28 Apr.
 6. Harvest Information: Desirable Trees were shaken with a Savage Model 2138 PTO-driven trunk shaker on 3 & 9 Nov. A 50 nut sample was collected from each tree on 4 & 10 Nov. to determine yield and quality.

PECAN FUNGICIDE TEST, 2018									
PONDER FARM, DESIRABLE, NORTH ORCHARD									
DESIRABLE			Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Def. ⁵
Treatments	Rate/A	App's	11-Jul	11-Jul	11-Jul	10-Sep	11-Jul	10-Sep	13-Nov
1. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	79.4	1.0	76.6	100.0	1.9	33.1	44.8
+ Elast 400F	25.0 fl oz								
EXP 1	4.0 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
2. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	69.8	1.0	78.9	100.0	1.8	38.4	36.3
+ Elast 400F	25.0 fl oz								
EXP 2	7.0 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
3. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	69.6	1.2	83.1	100.0	1.8	67.3	47.5
+ Elast 400F	25.0 fl oz								
Ziram	6.0 lb	2, 4, 6, 8, 10							
4. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	67.7	1.0	71.6	100.0	1.1	59.8	40.0
+ Elast 400F	25.0 fl oz								
Ziram	6.0 lb	2, 4, 6, 8, 10							
+ Elast 400F	25.0 fl oz								
5. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	83.4	1.1	68.8	100.0	1.1	40.9	40.0
+ Elast 400F	25.0 fl oz								
Ziram	4.0 lb	2, 4, 6, 8, 10							
+ Elast 400F	25.0 fl oz								
6. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	81.4	1.0	70.3	100.0	1.0	24.0	35.0
+ Elast 400F	25.0 fl oz								
Amistar Top (=Q Top)	14.0 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
7. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	78.8	1.0	50.3	93.8	0.7	14.3	37.5
+ Elast 400F	25.0 fl oz								
Miravis Prime 3.3SC	6.8 oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
8. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	98.0	1.0	57.8	87.5	0.7	10.0	42.5
+ Elast 400F	25.0 fl oz								
Miravis Prime 3.3SC	4.6 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								

PECAN FUNGICIDE TEST, 2018									
PONDER FARM, DESIRABLE, NORTH ORCHARD									
Treatments	Rate/A	App's	Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Def. ⁵
			11-Jul	11-Jul	11-Jul	10-Sep	11-Jul	10-Sep	13-Nov
9. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	55.1	0.9	45.3	100.0	0.6	16.3	38.8
+ Elast 400F	25.0 fl oz								
Miravis Top	13.7 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
10. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	58.3	0.9	58.1	100.0	0.8	33.6	43.8
+ Elast 400F	25.0 fl oz								
Luna Sensation	5.00 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
11. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	63.4	1.1	55.2	100.0	0.8	30.4	30.0
+ Elast 400F	25.0 fl oz								
Absolute	7.86 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
+ Serenade Opti	16.0 oz								
12. Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	94.1	1.2	78.1	100.0	1.2	56.4	40.0
+ Elast 400F	25.0 fl oz								
Luna Sensation	7.60 fl oz	2, 4, 6, 8, 10							
+ Remain	8.0 fl oz								
13. Super Tin 4L	6.0 fl oz	1 - 10	74.0	1.0	50.9	100.0	0.6	21.6	23.8
+ Elast 400F	25.0 fl oz								
14. Nontreated			73.0	2.0	100.0	100.0	13.6	99.6	76.3
LSD(P<0.05)			10.9	0.2	19.7	5.4	1.4	8.9	14.6
Leaf Inc. ¹ =Leaf scab incidence, based on 8 terminals per tree (% of leaflets on middle leaf with scab).									
Leaf Sev. ² =Leaf scab severity, based on middle leaf of 8 terminals per tree.									
Nut Inc. ³ =Nut scab incidence, based on ratings of 8 nut clusters per tree (% of nuts with any scab).									
Nut Sev. ⁴ =Nut scab severity, based on 8 nuts clusters per tree (% of shuck covered with scab).									
Defoliation ⁵ = % of leaves that have fallen off the tree.									
NOTE - Stems were rated for stromata but there were virtually none present									

EVALUATION OF VARIOUS FUNGICIDES FOR SCAB CONTROL ON
DESIRABLE PECAN SOUTH ORCHARD (PECAN FUNGICIDE TEST II, 2018)

- A. PURPOSE: To evaluate the efficacy of registered and experimental fungicides against pecan scab on a standard commercial cultivar.
- B. EXPERIMENTAL DESIGN:
1. Randomized complete blocks with five replicates.
 2. Each replication consisted of single-tree treatments.
 3. The orchard was established in 1988 planted on a 40 ft x 40 ft spacing running north and south. This test used Desirable trees only. Every other row was removed and replanted. These younger trees serve as unsprayed borders, and all treatments were applied to the original trees.
- C. APPLICATION OF TREATMENTS:
1. Equipment: All spray treatments were applied with a Durand Wayland PTO-driven air-blast sprayer (AF-100-32) delivering 95 gallon per acre at 125 PSI traveling 2 MPH.
 2. Calendar-based spray treatments (1-21) were applied on 12 Apr, 25 Apr, 10 May, 23 May, 6 Jun, 20 Jun, 4 Jul, 18 Jun, 1 Aug and 15 Aug.
- D. ADDITIONAL INFORMATION:
1. Location: Ponder Farm, CPES Tifton, GA 31794
 2. Soil Fertility: pH – 6.0 P – 65 K – 71 Ca – 810 Mg – 44
Soil type: Tifton loamy sand, 2 – 5 % slope
 3. Herbicides: Roundup (2 qt/A) and Alion (10 oz/A) on 21 and Paraquat (8 oz/A) on 16 Jun.
 4. Insecticides: Dimilin 2L (12 oz/A) on 30Aug
 5. Fertilizer: (100 lb/K), and (60 lb/N/A) on 28 Apr.
 6. Harvest Information: Trees were shaken with a Savage Model 2138 PTO-driven trunk shaker on 9 Nov. A 50 nut sample was collected per tree for yield and quality.

PECAN FUNGICIDE TEST II, 2018									
PONDER FARM, DESIRABLE, SOUTH ORCHARD									
Treatments	Rate/A	App's	Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Stem Lesions ⁵
			11-Jul	11-Jul	11-Jul	11-Sep	11-Jul	11-Sep	11-Sep
1. LifeGard WG	4.5 oz	2, 4, 6, 8, 10	34.7	1.9	66.3	100.0	3.4	64.6	0.1
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
2. CX-1025	20.0 fl oz	2, 4, 6, 8, 10	35.4	1.8	60.8	100.0	3.0	56.8	0.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
3. Andiamo	8.5 fl oz	2, 4, 6, 8, 10	32.6	1.7	70.0	100.0	3.8	50.9	0.0
+ Elast 400F	25.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
4. Brixen	20 fl oz	2, 4, 6, 8, 10	24.7	1.6	26.3	97.5	0.7	24.2	0.1
+ Elast 400F	25.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
5. Minerva Duo	16.0 fl oz	2, 4, 6, 8, 10	31.3	1.5	31.3	100.0	0.7	37.3	0.1
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
6. Pyraziflumid 22	4.6 fl oz	2, 4, 6, 8, 10	31.0	1.4	60.8	100.0	2.3	54.2	0.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
7. Helmstar Plus	14.4 fl oz	2, 4, 6, 8, 10	32.3	1.4	48.8	100.0	1.7	49.5	0.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
8. Enable	8.0 fl oz	2, 4, 6, 8, 10	33.4	1.6	66.7	100.0	3.0	43.3	0.1
+ Aproach	8.0 fl oz								
+ Enduce	0.06% v/v								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
9. Enable	8.0 fl oz	2, 4, 6, 8, 10	29.3	1.4	42.5	100.0	2.0	34.7	0.1
+Aproach	12.0 fl oz								
+ Induce	0.06% v/v								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								

PECAN FUNGICIDE TEST II, 2018									
PONDER FARM, DESIRABLE, SOUTH ORCHARD									
Treatments	Rate/A	App's	Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Stem Lesions ⁵
			11-Jul	11-Jul	11-Jul	11-Sep	11-Jul	11-Sep	11-Sep
10. Aproach	12.0 fl oz	2, 4, 6, 8, 10	28.0	1.4	47.5	100.0	0.8	37.7	0.1
+ Induce	0.06 % v/v								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
11. Enable	8.0 fl oz	2, 4, 6, 8, 10	30.0	1.5	46.3	100.0	1.5	49.2	0.0
+ Elast 400F	25.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
12. Super Tin	6.0 fl oz	2, 4, 6, 8, 10	31.3	1.9	38.5	100.0	0.8	28.8	0.4
+ EXP 3	25.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
13. Sovran 50W	3.2 oz	2, 4	34.4	1.2	51.3	100.0	1.8	44.0	0.1
+ Induce	0.06% v/v								
Topguard 1.04	14.0 fl oz	6, 8, 10							
+ Induce	0.06% v/v								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
14. Sovran 50W	3.2 oz	2, 4	34.3	1.6	39.4	100.0	1.0	38.8	0.1
+ Induce	0.06% v/v								
Topguard 1.04	7.0 fl oz	6, 8, 10							
+ Induce	0.06% v/v								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
15. Sovran 50W	3.2 oz	2, 4	34.8	2.0	67.9	100.0	2.8	55.4	0.1
+ Induce	0.06% v/v								
F-4406-1	6.0 fl oz	6, 8, 10							
+ Induce	0.06% v/v								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
16. EXP 4	6.8 fl oz	2, 4, 6, 8, 10	29.1	1.5	73.8	100.0	2.5	48.7	0.1
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
17. EXP 4	10.3 fl oz	2, 4, 6, 8, 10	33.4	1.4	69.2	100.0	3.2	55.8	0.1
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								

PECAN FUNGICIDE TEST II, 2018
PONDER FARM, DESIRABLE, SOUTH ORCHARD

Treatments	Rate/A	App's	Leaf Inc. ¹	Leaf Sev ²	Nut Inc. ³		Nut Sev. ⁴		Stem Lesions ⁵
			11-Jul	11-Jul	11-Jul	11-Sep	11-Jul	11-Sep	11-Sep
18. EXP 4	13.7 fl oz	2, 4, 6, 8, 10	38.9	1.5	50.0	100.0	2.2	46.7	0.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
19. Pyraziflumid	3.1 fl oz	2, 4, 6, 8, 10	34.4	2.1	49.2	100.0	1.2	45.8	0.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
20. Super Tin 4L	6.0 fl oz	1 - 10	31.6	1.4	22.5	100.0	0.3	26.8	0.0
+ Elast 400F	25.0 fl oz								
21. Nontreated			45.9	2.5	98.8	100.0	9.5	95.1	0.1
LSD(P<0.05)			8.0	0.6	20.3	n.s.	1.7	10.7	0.1

Leaf Inc.¹=Leaf scab incidence, 8 terminals per tree (% of leaflets on middle leaf with any scab).

Leaf Sev.²=Leaf scab severity, 8 clusters per tree (% of leaflets on middle leaf with any scab).

Nut Inc.³=Nut scab incidence, based on ratings of 8 nut clusters per tree (% of nuts with any scab).

Nut Sev.⁴=Nut scab severity, ratings of 8 nut clusters per tree (% of shuck area covered with scab).

Stem Lesions⁵=The number of lesions per 3 inches of stem on new wood.

OFFICIAL DAILY RAINFALL 2018

PONDER FARM

TY TY, GA

Rainfall								
DATE	Mar	Apr	May	JUN	JUL	AUG	SEP	OCT
1							0.1	
2				0.4		0.4		
3				0.5		0.3		
4								
5					0.5			
6	0.1				0.9			
7		0.4			0.1			
8					0.1			0.1
9					0.4			
10						0.5		3.1
11	0.7					1.5		
12								
13				0.3				
14				0.1		0.2		
15		1.0	0.4		1.3	0.7		
16			0.7	0.1	2.3			
17			0.3	0.6		0.2		
18	0.4					0.2		
19	0.7			0.2	0.7	0.4		
20			0.1			0.1		
21			0.1		0.3			
22		0.3	0.2			0.2		
23		1.2	0.9					
24								
25					0.6			
26	0.1		0.2				0.3	
27			0.3	1.5	0.4		0.2	
28			0.3	1.0	0.4	0.1		
29			1.7					
30	1.0		0.1	0.5		0.7		
31					0.1	0.1		
TOTAL	3.1	2.9	5.3	5.1	8.1	5.4	0.5	3.1
IRRIGATION	AS NEEDED							
Rain & Irr	3.1	2.9	5.3	5.1	8.1	5.4	0.5	3.1