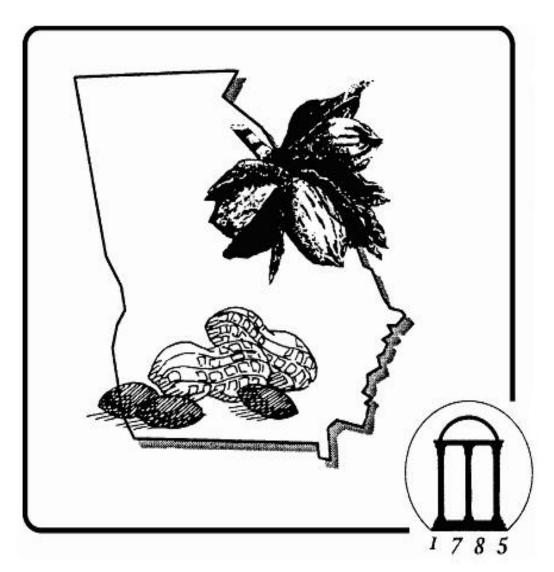
# 2016 TEST RESULTS



Peanut & Pecan Fungicide Evaluations
TIM BRENNEMAN
University of Georgia – Tifton Campus

Date: February 14, 2017

Memo to: Industry Cooperators

From: Tim Brenneman

Subject: Field Trial Results

Attached are the results of our 2016 field trials on peanuts and pecans. This was a drier year with less vine growth on the peanuts and less early season scab on the pecans. There was enough inoculum from last year and rain showers to result in moderate pecan scab pressure. While we also had significant epidemics of leaf spot in our later peanut trials, it was another great year for 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, and Pat Hilton. Summer workers included John Ray, Mattie Coe, and Walker Johnson. 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 Renjie Cui 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 "2016 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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# EVALUATION OF IN FURROW TREATMENTS IN TWIN AND SINGLE ROWS FOR CONTROL OF ROOT KNOT NEMATODES (Bayer Velum Total Twin Row Test, 2016)

A. PURPOSE: To evaluate the comparative efficacy of Velum Total when applied in single and twin rows for diseases and 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 broadcast in 20 GPA with a CO<sub>2</sub> pressurized belt-pack sprayer using 2 liter bottles and a boom with three TX-SS6 conejet nozzles per row at 40 PSI. The 45 DAP chemigation treatment was applied by diluting the treatment in a tractor-mounted spray tank and watering it in with a hose and a sprinkler head calibrated to deliver a volume of water equivalent to 0.1 inch per acre. In furrow sprays were applied in 3.4 GPA (singles) or 6.8 GPA (twins) with a single TP 80015E flat fan nozzle at 22 PSI per row.
- 2. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Convoy (32 fl oz/A) was applied on 6 Jul, 2 Aug and 16 Aug. The 45 DAP chemigation treatment was applied on 17 Jun. In-furrow sprays were applied at planting on 2 May.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Woods Field, Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

NOTE - To promote nematode development,

common vetch was grown as a winter crop between

the 2015 and 2016 peanut crops.

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Cultivated 2 Jun. Gypsum broadcast (1200 lb/A) on

27 Jun.

Soil Fertility: pH - 6.0 P - 25 $K-40 \quad Ca-309$ Mg - 484. 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: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + Non Ionic Surfactant (0.25% v/v) on 27 Jul, Poast (1.4 pt/A) + Crop Oil (1 pt/A)

on 17 Aug.

Acephate 97 (0.7 lb/A) for thrips on 26 May, 27 Jul, Insecticides: 6.

and 17 Aug.

GA-06G, 6 seed/ft (2" deep) single, 3 seed/ft twin 2 Planting Info: 7.

May.

Picked – 27 Sep 8. Harvest Dates: Dug – 23 Sep

		BAYER	R VELUM TO	OTAL TWI	N ROW T	EST, 201	6			
	ı	В	LACKSHAN	K FARM,	woods i	FIELD	ı			
				_	1			. 2		
TOFATAFAITS	DOW/ DAT	Ammin	DATE	Plant	•	1C Man	% Dead		C 1	Thrips <sup>3</sup>
1 Nontrooted	ROW PAT	App's	RATE	16-May	23-May	16-May	23-May	30-May	6-Jun	
1. Nontreated	Single			2.9	3.0	0.0	0.0	1.2	1.2	3.6
2. Velum Total	Single	In Furrow	14.0 oz	3.0	3.1	0.0	0.0	0.0	0.0	1.8
3. Velum Total	Single	In Furrow	18.0 oz	3.1	3.1	0.0	0.0	0.2	0.4	1.4
4. Velum Total	Single	In Furrow		2.8	3.2	0.0	0.0	1.0	1.0	1.4
+ Propulse		45 DAP	13.7 fl oz*							
5. Velum Total	Single	In Furrow	18 0 07	3.4	3.2	0.0	0.0	1.0	1.0	1.2
+ Propulse	Jiligie	45DAP	13.7 fl oz*	3.4	5.2	0.0	0.0	1.0	1.0	1.2
+ FTOpulse		4JDAF	13.7 11 02							
6. Nontreated	Double			4.0	4.6	0.0	0.9	1.2	1.4	4.4
7. Velum Total	Double	In Furrow	14.0 oz <sup>4</sup>	3.7	4.6	0.0	0.0	0.8	0.8	2.2
8. Velum Total	Double	In Furrow	18.0 oz <sup>4</sup>	4.1	4.4	0.0	0.0	0.8	0.8	1.8
9. Velum Total	Double	In Furrow	14.0 oz <sup>4</sup>	4.2	4.5	0.0	0.0	0.2	0.4	2.4
+ Propulse		45 DAP	13.7 fl oz*							
			4							
10. Velum Total	Double	In Furrow		4.1	4.5	0.0	0.0	0.8	0.8	1.8
+ Propulse		45 DAP	13.7 fl oz*							
LSD (P<0.05)				0.4	0.4	n.s.	0.1	n.s.	n.s.	0.7
						_				
Plants/ft <sup>1</sup> =Stand							16 May, a	and 23 Ma	у.	
% Dead Plants <sup>2</sup> =										
Thrips <sup>3</sup> =Based o										
			% terminal				-			
			jured and 5							
			leaves injur	ed and 9	∪‰ termi	מטמ ומו	mjurea, a	ana 10=06	au piar	IL.
NOTE <sup>4</sup> =1/2 of fu	ii rate appi	ieu in each	twin row.							-

\*Chemigated in 0.1 inches water.

			R VELUM TO			•	<b>5</b>			
		В	LACKSHANI	N FARIVI,	W OODS	LIELD				
					Nema	Nema				
				$WM^4$	Pods <sup>5</sup>	Roots <sup>6</sup>	TSWV <sup>7</sup>	Rootknot <sup>8</sup>	Ring <sup>9</sup>	Yield
TREATMENTS	ROW PAT	App's	RATE	23-Sep	23-Sep	23-Sep	10-Aug	8-Sep	8-Sep	lb/A
1. Nontreated	Single			12.0	56.3	71.3	3.2	211	103	2637
2. Velum Total	Single	In Furrow	14.0 oz	2.0	26.3	36.3	4.5	213	93	3250
3. Velum Total	Single	In Furrow	18.0 oz	5.0	22.5	33.8	2.4	324	79	2535
4. Velum Total	Single	In Furrow	14.0 oz	1.5	12.5	30.0	2.0	258	169	3344
+ Propulse		45 DAP	13.7 fl oz*							
5. Velum Total	Single	In Furrow	18.0 oz	2.0	8.8	27.5	1.6	237	117	2914
+ Propulse	J	45DAP	13.7 fl oz*							
6. Nontreated	Double			6.0	41.3	67.5	1.2	156	46	3238
7. Velum Total	Double	In Furrow	14.0 oz <sup>10</sup>	3.0	28.8	48.8	2.8	274	69	3361
8. Velum Total	Double	In Furrow	18.0 oz <sup>10</sup>	3.0	27.5	42.5	1.2	138	39	3791
9. Velum Total	Double	In Furrow	14.0 oz <sup>10</sup>	1.5	10.0	36.3	0.8	183	60	3884
+ Propulse		45 DAP	13.7 fl oz*							
10. Velum Total	Double	In Furrow	18.0 oz <sup>10</sup>	2.0	12.5	32.5	2.0	200	100	3354
+ Propulse	Double	45 DAP	13.7 fl oz*	2.0	12.0	02.0	2.0	200	100	333 .
LSD (P<0.05)				5.5	14.8	16.2	1.4	137	97	n.s.
WM <sup>4</sup> =Percent of r										
Nema Pods <sup>5</sup> =Visu		•			isible dan	nage from	root knot	nematode.		
Nema Roots <sup>6</sup> =Visu										
TSWV <sup>7</sup> =Percent of					o 12" of li	near row)	per plot.			
Rootknot <sup>8</sup> =Numb										
Ring <sup>9</sup> =Population				l.						
NOTE <sup>10</sup> =1/2 of ful	I rate applie	ed in each tv	vin row.							

#### NEMATODE MANAGEMENT TEST I, 2016

A. PURPOSE: To evaluate nematacide efficacy and the susceptibility of peanut lines to root knot nematode.

#### 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: GA-06G, TifNV-High O/L, GA-14N

#### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 of Chlorothalonil 720 (1/5 pt/A) were applied on 8 Jun, 22 Jul, 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 30 Aug. Cover sprays for white mold control of Provost (10.7 fl oz) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug, and 30 Aug. Convoy (32 oz/A) was applied on 6 Jul, 2 Aug and 16 Aug. The 45 DAP chemigation treatment was applied on 17 Jun.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Woods Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 2 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr. Telon injected (4.5

gal/A) sealed and irrigated on 28 Apr.

POST: Spray 24D-B 1.75 at (17 fl oz/A) on 21 Jul. Select Max (16 fl oz/A) + 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, 21 Jul,

and 17 Aug.

7. Planting Info: GA-06G, TifNV-High O/L, GA-14N, 6 seed/ft (2"

deep) infurrow sprays in (3.6 gal/A) on 9 May.

8. Harvest Dates: Dug – 4 Oct Picked – 10 Oct

				NAGEMEN	-				
		BLA	ACKSHANK	FARM, W	OODS FIELI	)			
			Plan	ts/ft¹		% Dead P	lants <sup>2</sup>		Thrips <sup>3</sup>
Treatments	App's	RATE	23-May	30-May	23-May	30-May	6-Jun	13-Jun	3-Jun
GA-06G	1 44			, , , , , , , , , , , , , , , , , , , ,					
1. Nontreated			3.2	3.9	0.0	0.0	0.0	0.0	2.3
2. Velum Total	In Furrow	18.0 oz	3.2	3.7	0.0	0.0	0.3	0.3	1.1
3. Telone	PP Injected	4.5 gal	3.0	3.7	0.0	0.9	0.3	0.3	1.7
4. Velum Total	In Furrow	18.0 oz	3.3	3.7	0.0	0.0	0.0	0.3	1.0
+ Telone	PP Injected	4.5 gal							
5. Velum Total	In Furrow	18.0 oz	3.3	3.7	0.0	0.0	0.0	0.1	1.0
+ Telone	PP Injected	4.5 gal							
+ Propulse	45 DAP	13.7 fl oz*							
TifN/V-High O/L									
6. Nontreated			3.4	3.6	0.0	0.0	0.0	0.1	2.4
GA-14N									
7. Nontreated			3.1	3.9	0.0	0.0	0.0	0.1	2.0
LSD (P<0.05)			0.2	n.s.	n.s.	n.s.	n.s.	n.s.	0.5
Plants/ft <sup>1</sup> =Stand of Mead Plants <sup>2</sup> =T				•		3 May, and	30 May.		
Thrips <sup>3</sup> =Based on		•				injured 1-E	:0% loavo	injured	
	eaves injured								
	ed, 7=>50% l								ć
	uds injured, 9				-		-		
*Chemigated in 0	.1 inches wat	er.							

			BLA	CKSHANI	K FARM, WO	ODS FIEL	D		
				TSWV <sup>4</sup>	RootKnot <sup>5</sup>	Ring <sup>6</sup>	Galling <sup>7</sup>	WM <sup>8</sup>	Yield
	Treatments	App's	RATE	10-Aug	8-Sep	8-Sep	4-Oct	4-Oct	lb/A
	GA-06G			_	-	-			
1.	Nontreated			4.0	34	77	19	6.6	3807
2.	Velum Total	In Furrow	18.0 oz	2.9	27	66	10	1.4	4335
3.	Telone	PP Injected	4.5 gal	4.6	11	157	7	4.6	3689
4.	Velum Total	In Furrow	18.0 oz	5.1	28	117	5	3.0	4364
	+ Telone	PP Injected	4.5 gal						
5.	Velum Total	In Furrow	18.0 oz	4.6	4	148	2	2.0	4443
	+ Telone	PP Injected	-						
	+ Propulse	45 DAP	13.7 fl oz*						
Ti	fN/V-High O/L								
6.	Nontreated			2.0	1	146	0	2.0	4469
G	A-14N								
7.	Nontreated			5.1	1	159	0	1.4	4200
	LSD (P<0.05)			n.s.	25	73	6	3.5	789
	SWV <sup>4</sup> =Percent of					row) per	plot.		
	ootknot <sup>5</sup> =Numbe		•	•					
	ng <sup>6</sup> =Population				l. ts (1-100) witl				

	NEMATODE MANAGEMENT TEST I, 2016 BLACKSHANK FARM, WOODS FIELD												
		BLACKSHAN	IK FARM, V	VOODS FIE	LD								
Treatments	App's	RATE	IMM	SMKSS	DAM	DOLAC	DOLTON						
GA-06G													
1. Nontreated			3.1	69.4	3.6	632.1	333.2						
2. Velum Total	In Furrow	18.0 oz	2.7	70.3	3.3	737.9	340.5						
3. Telone	PP Injected	4 E gal	3.4	68.3	4.3	606.1	321.3						
5. Teloffe	rr injecteu	4.3 gai	3.4	06.5	4.3	000.1	321.3						
4. Velum Total	In Furrow	18.0 oz	2.9	68.4	4.3	704.0	317.5						
+ Telone	PP Injected	4.5 gal											
5. Velum Total	In Furrow	18.0 oz	2.9	69.5	3.4	738.5	330.3						
+ Telone	PP Injected	4.5 gal											
+ Propulse	45 DAP	13.7 fl oz*											
TifN/V-High O/L													
C. November			2.4	64.0	4.6	664.5	200.6						
6. Nontreated			3.1	64.9	4.6	661.5	298.6						
GA-14N													
OA 1714													
7. Nontreated			3.3	66.9	5.2	618.6	296.3						
LSD (P<0.05)			n.s.	3.9	1.9	n.s.	35.8						

<sup>&</sup>quot;Peanut grades and values were based on 500 gram sample per plot dried to 10% moisture and graded accoringing to Official Federal-State Inspection Service Method."

## EVALUATION OF NEMATICIDES FOR THE CONTROL OF PEANUT ROOTKNOT NEMATODES (ADAMA NEMATODE MANAGEMENT TEST, 2016)

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: GA-06G and TifN/V-High O/L

#### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 Chlorothalanil 750 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 30 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug, and 30 Aug. Convoy (32 fl oz/A) were applied on 6 Jul, 2 Aug and 16 Aug. In Furrow sprays were applied at planting on 4 May.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Woods Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated on 2 Jun.

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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24 D-B 1.75 at (17 fl oz/A) on 21 Jul. Select Max (16 fl oz/A) + 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, 27 Jul,

and 17 Aug.

7. Planting Info: GA-06G, TifN/V-High O/L, 6 seed/ft (2" deep) of

row on 4 May.

8. Harvest Dates: Dug – 20 Sep Picked – 23 Sep

	70		MATODE			-	•			
		BLAC	CKSHANK	1				. 2		T
				1	ts/ft <sup>1</sup>		% Dead P			Thrips
Treatments	Variety	App's	Rate	18-May	25-May	18-May	25-May	1-Jun	8-Jun	3-Jun
1. Nontreated	GA-6G			2.9	3.5	0.0	0.0	0.0	0.0	3.6
2. Velum Total	GA-6G	IF <sup>4</sup>	14.0 oz	3.0	3.4	0.0	0.0	0.0	0.0	1.1
3. Nimitz 480EC	GA-6G	IF <sup>4</sup>	12.5 oz*	2.1	2.7	0.0	0.0	0.0	0.1	3.3
4. Nimitz 480EC	GA-6G	IF <sup>4</sup>	8.9 oz*	2.5	3.3	0.0	0.0	0.0	0.3	3.3
5. Nimitz 480EC	GA-6G	IF <sup>4</sup>	6.3 oz*	2.8	3.4	0.0	0.0	0.0	0.0	2.9
6. Nimitz 480EC	Ga-06G	IF <sup>4</sup>	4.5 oz*	2.6	3.4	0.0	0.0	0.1	0.4	2.9
7. Nontreated	Tifn/V-Hi O/L			2.9	3.9	0.0	0.0	0.0	0.0	3.6
LSD (P<0.05)				0.2	0.4	n.s.	n.s.	n.s.	0.4	0.8
Plants/ft <sup>1</sup> =Stand co % Dead Plants <sup>2</sup> =Th							May, and	d 25 Ma	ay.	
Thrips <sup>3</sup> =Based on	a scale of 0-10 (	0=no in	jured, 1=1	.0% leave	s injured,	, 3=30% i	njured, 4=	=50% le	aves in	jured,
	aves injured and				-		-			
	ed, 7=>50% leav									
terminal bu	ds injured, 9=>5	50% leav	ves injured	d and 90%	termina	l buds in	jured, an	d 10=de	ead pla	nt.
NOTE <sup>4</sup> = In furrow	application in 3	.4 GPA o	of water.							

	AD		MATODE			•			
		BLAC	CKSHANK I	FARM, W	OODS FIE	LD			
Treatments	Variety	Ammia	Rate	TSWV <sup>4</sup>	WM <sup>5</sup> 20-Sep	Galling <sup>6</sup> 20-Sep	Yield lb/A	Root Knot <sup>7</sup> 7-Sep	Ring <sup>8</sup> 7-Sep
1. Nontreated	GA-6G	App's	Nate	3.1	6.3	33.2	2102	113	30
1. Nonticated	GA 00			3.1	0.5	33.2	2102	113	30
2. Velum Total	GA-6G	IF <sup>9</sup>	14.0 oz	2.9	1.1	24.1	2685	114	83
3. Nimitz 480EC	GA-6G	IF <sup>9</sup>	12.5 oz*	2.6	4.3	27.1	2491	182	67
4. Nimitz 480EC	GA-6G	IF <sup>9</sup>	8.9 oz*	2.9	6.7	30.4	2333	116	84
5. Nimitz 480EC	GA-6G	IF <sup>9</sup>	6.3 oz*	2.0	4.3	31.9	2345	164	93
6. Nimitz 480EC	Ga-06G	IF <sup>9</sup>	4.5 oz*	2.0	6.3	34.9	1911	162	46
7. Nontreated	Tifn/V-Hi O/L			1.4	2.6	0.7	4287	9	76
LSD (P<0.05)				n.s.	4.2	10.0	861	103.0	n.s.
TSWV <sup>4</sup> =Percent of ro				• •					
WM <sup>5</sup> =Percent of rov				• •					
Galling <sup>6</sup> =Visual ratir	-				th visible	damage fr	om root	knot nen	natode.
Rootknot <sup>7</sup> =Number				SOII.					
Ring <sup>8</sup> =Population of		•							
NOTE <sup>9</sup> =In furrow ap	plication in 3.4 G	PA OT W	ater.						

### DAILY RAINFALL AND IRRIGATION, 2016 BLACKSHANK FARM, POND FIELD

DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	2.8				0.4	0.6	
2	0.5	0.2			0.5	4.7	
3		0.2					
4				0.1	1.0		
6	0.1		2.4				
7	0.1						
8					1.9		
9					0.2		
12	0.2				0.3		
13					0.7	0.7	
14	1.2				0.2		
15	0.2						
16			0.2				
17		0.9	0.6	1.3			
18							
19		0.2				0.1	
21					0.3		
23					0.5		
24				0.1			
29			0.6		0.2		
30	1.3		0.1	1.9	0.1		
Total	6.4	1.5	3.9	3.4	6.3	6.1	0.0
IDDICATION							
IRRIGATIOI DATE	N APR	NAAV	JUN	JUL	AUG	SEP	ОСТ
3	AFN	MAY	JOIN	JOL	AUG	JEP	0.5
7							0.5
10		0.3					
11		0.5		0.6			
14				0.4			
16			0.4	• • • • • • • • • • • • • • • • • • • •			
18					0.5		
25				0.5	0.5		
26		0.3					
27	0.5						
28	0.4						
29				0.5	0.6		
Total	0.9	0.6	0.4	2.0	1.6	0.0	0.5
Rain & Irr	7.3	2.1	4.3	5.4	7.9	6.1	0.5

#### **NEMATODE MANAGEMENT TEST II, 2016**

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 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, GA-14N and TifN/V-High O/L

#### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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, Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 30 Aug. Cover Sprays for white mold control of Provost (10.7 fl oz/A) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug, and 30 Aug. Convoy (32 fl oz/A) was applied on 6 Jul, 2 Aug, and 16 Aug. The 45 DAP chemigation treatments were applied on 17 Jun.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Pond Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 2 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr. Telone injected (4.5

gal/A) sealed and irrigated on 28 Apr.

POST: 24 D-B 1.75 at (17 fl oz/A) on 21 Jul. Select Max (16 fl oz/A) + 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, 27 Jul,

and 17 Aug.

7. Planting Info: GA-06G, GA-15N, TifN/V-High O/L, 6 seed/ft (2"

deep) on 9 May.

8. Harvest Dates: Dug – 4 Oct Picked – 10 Oct

		BLAC	CKSHANK FA	ARM, PONI	FIELD				
CULTIVAR AND			Dlan	ts/ft¹		% Dead F	Nonto <sup>2</sup>		Thrips <sup>3</sup>
TREATMENTS	App's	RATE	23-May	30-May	23-May			13-Jun	2-Jun
GA-06G	App 3	NAIL	23-iviay	30-iviay	23-iviay	30-iviay	0-Juli	13-Juli	Z-Juli
GA-00G									
1. Nontreated			2.9	3.2	0.0	0.0	0.0	0.4	3.6
2. Velum Total	In Furrow	18.0 oz	3.3	3.3	0.0	0.0	0.0	0.0	1.4
3. Telone	PP Injected	4.5 gal	3.3	3.0	0.0	0.0	0.4	1.0	3.0
4. Velum Total	In Furrow	18.0 oz	3.3	3.1	0.0	0.0	0.0	0.2	1.2
+ Telone	PP Injected	4.5 gal							
5. Velum Total	In Furrow	18.0 oz	3.2	3.0	0.0	0.0	0.0	0.0	1.0
+ Telone	PP Injected	4.5 gal							
+ Propulse	45 DAP*	13.7 fl oz							
TifN/V-High O/L									
Tilly V-High O/L									
6. Nontreated			3.1	2.9	0.0	0.0	0.0	0.2	3.6
o. Noncicated			3.1	2.3	0.0	0.0	0.0	0.2	3.0
GA-14N									
7. Nontreated			3.2	3.3	0.0	0.0	0.0	0.4	3.0
LSD (P<0.05)			0.3	n.s.	n.s.	n.s.	0.3	0.8	0.6
Plants/ft <sup>1</sup> =Stand c	ount is the nu	mber of emer	ged plants p	er foot of r	ow on 23 I	May, and 3	80 May.		
% Dead Plants <sup>2</sup> =Th					•				
Thrips <sup>3</sup> =Based on	a scale of 0-10	(0=no injure	d, 1=10% lea	ves injured,	, 3=30% inj	ured, 4=50	0% leave	es injured	,
	aves injured a					-			
-	ed, 7=>50% le				-				%
terminal bu	uds injured, 9=	>50% leaves	injured and	90% termin	al buds inj	ured, and	10=dea	d plant.	
*Chemigated in (	J.1 inches of	water.							

TREATMENTS         App's         RATE         5-Aug         8-Sep         8-Sep         4-Oct				
TREATMENTS         App's         RATE         5-Aug         8-Sep         4-Oct	WM <sup>8</sup>	alling <sup>7</sup>	WM <sup>8</sup>	Yield
1. Nontreated	4-Oct	-Oct 4	4-Oct	lb/A
2. Velum Total In Furrow 18.0 oz 6.8 415 84 53.0 4  3. Telone PP Injected 4.5 gal 6.4 59 31 19.6 2  4. Velum Total In Furrow 18.0 oz 3.6 513 129 24.0 4  + Telone PP Injected 4.5 gal 5.0 513 129 24.0 4  + Telone PP Injected 4.5 gal 5.0 513 129 24.0 6  5. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 33  + Telone PP Injected 4.5 gal 5.0 513 129 24.0 6  Fropulse 45 DAP* 13.7 fl oz 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0				
2. Velum Total In Furrow 18.0 oz 6.8 415 84 53.0 4  3. Telone PP Injected 4.5 gal 6.4 59 31 19.6 2  4. Velum Total In Furrow 18.0 oz 3.6 513 129 24.0 4  + Telone PP Injected 4.5 gal 5.0 velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  + Telone PP Injected 4.5 gal 7.2 286 106 16.0 3  TifN/V-High O/L 5. Velum Total 13.7 fl oz 5.0 velum Total 13.7 fl oz 5.0 velum Total 14.5 gal 15.0 velum Total 15.0 velum Total 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0				
3. Telone PP Injected 4.5 gal 6.4 59 31 19.6 2  4. Velum Total In Furrow 18.0 oz 3.6 513 129 24.0 4  + Telone PP Injected 4.5 gal 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  + Telone PP Injected 4.5 gal 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  + Telone PP Injected 4.5 gal 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 286 106 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 26 73 1.6 20  - TifN/V-High O/L 55. Velum Total In Furrow 18.0 oz 7.2 286 106 106 106 106 106 106 106 106 106 10	5.6	74.0	5.6	2530
3. Telone PP Injected 4.5 gal 6.4 59 31 19.6 2  4. Velum Total In Furrow 18.0 oz 3.6 513 129 24.0 4 + Telone PP Injected 4.5 gal   5. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3 + Telone PP Injected 4.5 gal  + Propulse 45 DAP* 13.7 fl oz   TifN/V-High O/L  6. Nontreated 2.4 18 97 1.6 2  GA-14N  7. Nontreated 7.2 6 73 1.6 1 LSD (P<0.05) 3.7 406 93 10.3 m				
4. Velum Total In Furrow 18.0 oz 3.6 513 129 24.0 4 + Telone PP Injected 4.5 gal	4.8	53.0	4.8	2616
4. Velum Total In Furrow 18.0 oz 3.6 513 129 24.0 4 + Telone PP Injected 4.5 gal  5. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3 + Telone PP Injected 4.5 gal + Propulse 45 DAP* 13.7 fl oz  TifN/V-High O/L  6. Nontreated 2.4 18 97 1.6 2  GA-14N  7. Nontreated 7.2 6 73 1.6 1 LSD (P<0.05) 3.7 406 93 10.3 m				
+ Telone	2.0	19.6	2.0	3556
+ Telone				
5. Velum Total In Furrow 18.0 oz 7.2 286 106 16.0 3 + Telone PP Injected 4.5 gal	4.8	24.0	4.8	4275
+ Telone				
+ Telone				
+ Propulse       45 DAP*       13.7 fl oz       Image: Control of the propulse of th	3.2	16.0	3.2	4054
TifN/V-High O/L  6. Nontreated  7. Nontreated  93				
6. Nontreated 2.4 18 97 1.6 2  GA-14N 7. Nontreated 7.2 6 73 1.6 1  LSD (P<0.05) 3.7 406 93 10.3 n  TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.				
6. Nontreated 2.4 18 97 1.6 2  GA-14N  7. Nontreated 7.2 6 73 1.6 1  LSD (P<0.05) 3.7 406 93 10.3 n  TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.				
GA-14N       7.2       6       73       1.6       1         LSD (P<0.05)				
GA-14N       7.2       6       73       1.6       1         LSD (P<0.05)				
7. Nontreated 7.2 6 73 1.6 1  LSD (P<0.05) 3.7 406 93 10.3 n  TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.	2.0	1.6	2.0	4178
7. Nontreated 7.2 6 73 1.6 1  LSD (P<0.05) 3.7 406 93 10.3 n  TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.				
TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.				
TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.				
TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 12" linear row) per plot.	1.6	1.6	1.6	3719
	n.s.	10.3	n.s.	848
		r plot.		
Root Knot <sup>5</sup> =Number of <i>M.arenaria</i> juveniles per 100 cc of soil.				
Ring <sup>6</sup> =Populations of ring nematode per 100 cm <sup>3</sup> of soil.				
Galling <sup>7</sup> =Visual rating of the percent of pods and roots (1-100) with visible damage from root	oot kno	from ro	root knot i	nematodes.

		BLACKSH	ANK FARM,	POND FIE	LD		
CULTIVAR AND			IMM	DAM	SMKSS	Dolac	Dolton
TREATMENTS	App's	RATE	5-Aug	8-Sep	8-Sep	4-Oct	4-Oct
GA-06G				•	•		
1. Nontreated			3.5	2.2	77.9	528.5	383.2
2. Velum Total	In Furrow	18.0 oz	2.2	1.8	72.4	460.7	355.0
3. Telone	PP Injected	4.5 gal	2.3	1.7	72.2	585.6	354.1
4. Velum Total	In Furrow	18.0 oz	3.5	1.5	80.1	809.0	396.0
+ Telone	PP Injected	4.5 gal					
5. Velum Total	In Furrow	18.0 oz	3.3	1.6	79.9	795.1	393.1
+ Telone	PP Injected	4.5 gal					
+ Propulse	45 DAP*	13.7 fl oz					
TifN/V-High O/L							
							0.40.6
6. Nontreated			3.3	1.4	69.2	802.8	342.6
GA-14N							
UA-14IN							
7. Nontreated			2.1	1.3	70.3	612.7	643.5
LSD (P<0.05)			n.s.	n.s.	4.9	152.9	23.2

<sup>&</sup>quot;Peanut grades and values were based on a 500 gram sample pler plot dried to 10% moisture and graded according to official Federal-State Inspection Service method."

#### BAYER PROPULSE/VELUM TOTAL TEST I, 2016

A. PURPOSE: To evaluate the comparative efficacy of experimental treatments for control of diseases and 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 CO<sub>2</sub> 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. The 45 DAP chemigation treatment was applied by diluting the treatment in a tractormounted spray tank and watering it in with a hose and a sprinkler head calibrated to deliver a volume of water equivalent to 0.1 inch per acre.
- 2. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Convoy (32 fl oz/A) was applied on 6 Jul, 2 Aug and 16 Aug. The 45 DAP sprays were applied on 20 Jun to treatment 5 & 6 and then immediately irrigated with 0.18". Treatments 3, 4 and 7 were applied the same day, but after the irrigation event.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Pond Field, Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

NOTE – To promote nematode development,

Common vetch was grown as a winter crop between

the 2015 and 2016 peanut crops.

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 2 Jun.

Soil Fertility: pH - 6.0 P - 25 K - 40 Ca - 309Mg - 484. 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: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + Non Ionic Surfactant (0.25% v/v) on 27 Jul, Poast (1.4 pt/A) + Crop Oil (1 pt/A)

on 17 Aug.

Acephate 97 (0.7 lb/A) for thrips on 26 May, 27 Jul, Insecticides: 6.

and 17 Aug.

Planting Info: GA-06G, 6 seed/ft (2" deep) 3 May 7.

8. Harvest Dates: Dug – 4 Oct Picked – 10 Oct

	BAYER PROPUL	SE/VELUM	TOTAL 1	ΓΕST I, 20:	16			
	BLACKSH	ANK FARM	I, POND	FIELD	I			
				. 45.1			2	
TREATMENTS	A m m l n	ts/ft <sup>1</sup>	17 0400	% Dead		7 1		
1. Admire Pro	App's In Furrow*	<b>RATE</b> 9.0 fl oz	2.7	<b>24-May</b> 3.4		0.0	0.4	7-Jun 0.4
1. Admire Pro	III FULLOW '	9.0 11 02	2.7	3.4	0.0	0.0	0.4	0.4
2. Velum Total	In Furrow*	18.0 fl oz	2.9	3.7	0.0	0.0	0.2	0.6
3. Velum Total	In Furrow*	18.0 fl oz	2.9	3.4	0.0	0.0	0.0	0.2
Propulse	B'cast 20 GPA, 45 DAP**	13.7 fl oz						
4. Velum Total	In Furrow*	18.0 oz	2.8	3.6	0.0	0.0	0.2	0.2
Propulse	B'cast 40 GPA, 45 DAP**	13.7 fl oz						
5. Velum Total	In Furrow*	18.0 oz	2.9	3.5	0.0	0.0	0.0	0.4
+ Propulse	B'cast 20 GPA, 45 DAP***	13.7 fl oz						
6. Velum Total		18.0 oz	2.7	3.8	0.0	0.0	0.4	0.6
+ Propulse	B'cast 20 GPA, 45 DAP***	13.7 fl oz						
7. Velum Total	In Furrow*	18.0 oz	2.8	3.6	0.0	0.0	0.0	0.2
Propulse	Chemigated 0.1",45 DAP**							
LSD (P<0.05)			n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
Dlants/ft1_Stand	count is the number of eme	rand plant	s nor for	at of row	on 17 N/a	w and ?	4 May	
	The % of emerged plants tha					ay, and 2	4 IVIdy.	
70 Dead Flaints -1	The 70 of efficiged plants tha	vvas aca	a or ayını	P her bior				
**Treatment 3, 4	and 7 applied AFTER an irri	gation eve	nt (0.1-0	.2 inches)				
***Treatment 5	and 6 applied BEFORE an irri	igation eve	ent (0.1-0	0.2 inches	).			

	BAYER PROPUL	SE/VELUM	TOTAL	TEST I, 201	.6			
	BLACKSHA	ANK FARM	, POND	FIELD				
			TSWV <sup>3</sup>	Rotknot <sup>4</sup>	Ring <sup>5</sup>	Galling <sup>6</sup>	WM <sup>7</sup>	Yield
TREATMENTS	App's	RATE	5-Aug	8-Sep	8-Sep	4-Oct	4-Oct	lb/A
1. Admire Pro	In Furrow*	9.0 fl oz	6.4	287	18	85.0	12.4	3308
2. Velum Total	In Furrow*	18.0 fl oz	12.4	159	43	46.0	8.4	3908
3. Velum Total	In Furrow*	18.0 fl oz	8.4	305	31	45.0	10.4	3948
Propulse I	B'cast 20 GPA, 45 DAP**	13.7 fl oz						
4. Velum Total	In Furrow*	18.0 oz	10.4	333	36	42.0	5.2	3824
Propulse I	B'cast 40 GPA, 45 DAP**	13.7 fl oz						
5. Velum Total	In Furrow*	18.0 oz	9.2	249	8	42.0	5.6	4356
+ Propulse	B'cast 20 GPA, 45 DAP***	13.7 fl oz						
6. Velum Total		18.0 oz	9.6	234	29	39.0	6.4	4415
+ Propulse I	B'cast 20 GPA, 45 DAP***	13.7 fl oz						
7. Velum Total	In Furrow*	18.0 oz	6.4	296	42	58.0	7.2	3754
Propulse	Chemigated 0.1",45 DAP**	13.7 fl oz						
LSD (P<0.05)			4.5	157	n.s.	23.0	5.2	822
TSWV <sup>3</sup> =Percent of r	ow feet infected based on dis	ease loci (u	ıp to 12"	linear row)	per plot			
Rootknot <sup>4</sup> =Number	of <i>M.arenarie juveniles</i> per 1	.00 cc of soi	il.					
Ring <sup>5</sup> =Population o	f ring nematodes per 100 cc o	f soil.						
Galling <sup>6</sup> =Visual ratio	ng of the percent of pods and	roots (1-10	00) with v	visible dama	age from	root knot	nemato	des.
WM <sup>7</sup> =Percent of ro	w feet infected based on dise	ase loci (up	to 12" li	near row) p	er plot.			
**Treatments 3,4 a	nd 7 applied AFTER an irrigati	on event (0	).1-0.2 in	ches).				
***Treatments 5 ar	nd 6 applied BEFORE an irrigat	tion event (	0.1-0.2 ir	nches).				

#### BAYER PROPULSE/VELUM TOTAL TEST IV, 2016

Α. PURPOSE: To evaluate the comparative efficacy of experimental treatments for control of diseases and 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 and GA-14N

#### 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. The 45 DAP chemigation treatment was applied by diluting the treatment in a tractormounted spray tank and watering it in with a hose and a sprinkler head calibrated to deliver a volume of water equivalent to 0.1 inch per acre.
- 2. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Convoy (32 fl oz/A) was applied on 6 Jul, 2 Aug and 16 Aug. The 45 DAP sprays was applied chemigated on 20 Jun. In furrow sprays were applied at planting on 3 May.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Pond Field, Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

Common vetch was grown as a winter crop between

NOTE – To promote nematode development,

The 2015 and 2016 peanut crops.

3. Moldboard plowed and marked rows on 20 Apr. Land Preparation:

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 2 Jun.

4. Soil Fertility: pH - 6.0 P - 25 K - 40 Ca - 309Mg - 48

Tifton loamy sand, 2 - 5% slope. Soil type:

5. Herbicides: PPI: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + 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, 27 Jul,

and 17 Aug.

7. Planting Info: GA-06G, 6 seed/ft (2" deep) 3 May

8. Harvest Dates: Dug – 4 Oct Picked – 10 Oct

	BAYER PROPULSE,	/VELUM T	OTAL TE	ST IV, 20:	16			
	BLACKSHAM	NK FARM,	POND FI	ELD		I	I	
	App's	RATE	Plants/ft <sup>1</sup>		% Dead Plants <sup>2</sup>			
TREATMENTS			17-May	24-May	17-May	24-May	31-May	7-Jun
Trt 1-5 Cultivar GA-06G								
1. Admire Pro	In Furrow*	9.0 fl oz	3.0	3.4	0.0	0.0	0.0	0.0
2. Velum Total	In Furrow*	14.0 fl oz	2.9	3.6	0.0	0.0	0.2	0.4
3. Velum Total	In Furrow*	18.0 fl oz	2.9	3.6	0.0	0.0	0.2	0.2
4. Velum Total	In Furrow*	14.0 fl oz	2.9	3.5	0.0	0.0	0.0	0.4
Propulse	Chemigated 0.1", 45 DAP**	* 13.7 fl oz						
5. Velum Total	In Furrow*	18.0 oz	2.8	3.5	0.0	0.0	0.0	0.2
+ Propulse	Chmigated 0.1", 45 DAP**	13.7 fl oz						
Trt 6 Cultivar GA-14N								
6. Admire pro		9.0 fl oz	2.9	3.6	0.0	0.0	0.0	0.4
LSD (P<0.05)			n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
	s the number of emerged pl	-			ay, and 2	4 May.		
% Dead Plants = The % 0	f emerged plants that was d	iead or dyl	ng per þi	Ji.				

TREATMENTS         App's         RATE         2           Trt 1-5 Cultivar GA-06G         9.0 fl oz         2           1. Admire Pro         In Furrow*         9.0 fl oz         2           2. Velum Total         In Furrow*         14.0 fl oz         2           3. Velum Total         In Furrow*         14.0 fl oz         2           4. Velum Total         In Furrow*         13.7 fl oz           5. Velum Total         In Furrow*         18.0 oz         1           + Propulse         Chmigated 0.1", 45 DAP**         13.7 fl oz           Trt 6 Cultivar GA-14N         9.0 fl oz         1           6. Admire pro         9.0 fl oz         1           LSD (P<0.05)         0         0	2.0 4 2.2 5 1.8 4 2.0 3	4.4		Ring <sup>6</sup> 8-Sep 38 41 59 33	<b>Galling</b> <sup>7</sup> <b>4-Oct</b> 82.0  55.0  47.0		<b>Ib/A</b> 2726
Trt 1-5 Cultivar GA-06G       In Furrow*       9.0 fl oz       2         1. Admire Pro       In Furrow*       14.0 fl oz       2         2. Velum Total       In Furrow*       18.0 fl oz       1         3. Velum Total       In Furrow*       14.0 fl oz       2         4. Velum Total       In Furrow*       13.7 fl oz       1         5. Velum Total       In Furrow*       18.0 oz       1         + Propulse       Chmigated 0.1", 45 DAP**       13.7 fl oz       1         Trt 6 Cultivar GA-14N       9.0 fl oz       1         6. Admire pro       9.0 fl oz       1         LSD (P<0.05)       0       0	2.0 4 2.2 5 1.8 4 2.0 3	4.4 5.2 4.4 3.6	528 386 459 383	38 41 59	82.0 55.0 47.0	12.4 10.4 8.8	2726 3140 2841
1. Admire Pro	2.2 5 1.8 4 2.0 3	5.2 4.4 3.6	386 459 383	41	55.0 47.0	10.4	
2. Velum Total In Furrow* 14.0 fl oz 2  3. Velum Total In Furrow* 18.0 fl oz 1  4. Velum Total In Furrow* 14.0 fl oz 2  Propulse Chemigated 0.1", 45 DAP** 13.7 fl oz 1  5. Velum Total In Furrow* 18.0 oz 1  + Propulse Chmigated 0.1", 45 DAP** 13.7 fl oz 1  Trt 6 Cultivar GA-14N 9.0 fl oz 1  LSD (P<0.05) 0.0 fl oz 1	2.2 5 1.8 4 2.0 3	5.2 4.4 3.6	386 459 383	41	55.0 47.0	10.4	3140 2841
3. Velum Total In Furrow* 18.0 fl oz 1 4. Velum Total In Furrow* 14.0 fl oz 2 Propulse Chemigated 0.1", 45 DAP** 13.7 fl oz  5. Velum Total In Furrow* 18.0 oz 1 + Propulse Chmigated 0.1", 45 DAP** 13.7 fl oz  Trt 6 Cultivar GA-14N  6. Admire pro 9.0 fl oz 1 LSD (P<0.05)	1.8 4	4.4	459	59	47.0	8.8	2841
4. Velum Total In Furrow* 14.0 fl oz 2 Propulse Chemigated 0.1", 45 DAP** 13.7 fl oz 5. Velum Total In Furrow* 18.0 oz 1 + Propulse Chmigated 0.1", 45 DAP** 13.7 fl oz 7  Trt 6 Cultivar GA-14N 9.0 fl oz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.0 3	3.6	383				
Propulse         Chemigated 0.1", 45 DAP**         13.7 fl oz           5. Velum Total         In Furrow*         18.0 oz         1           + Propulse         Chmigated 0.1", 45 DAP**         13.7 fl oz           Trt 6 Cultivar GA-14N         9.0 fl oz         1           6. Admire pro         9.0 fl oz         1           LSD (P<0.05)				33	47.0	8.4	3885
5. Velum Total In Furrow* 18.0 oz 1 + Propulse Chmigated 0.1", 45 DAP** 13.7 fl oz  Trt 6 Cultivar GA-14N  6. Admire pro 9.0 fl oz 1 LSD (P<0.05) 0	1.4 2	2.0	560				
+ Propulse Chmigated 0.1", 45 DAP** 13.7 fl oz  Trt 6 Cultivar GA-14N  6. Admire pro 9.0 fl oz 1 LSD (P<0.05) 0	1.4 2	2.0	ECO				
6. Admire pro 9.0 fl oz 1 LSD (P<0.05) 0			300	50	42.0	5.2	2853
6. Admire pro 9.0 fl oz 1 LSD (P<0.05) 0							
LSD (P<0.05) 0							
	1.2 4	4.4	5	28	1.6	5.2	3956
Thering 3 December 2 and 2 and 20 (0 and injury d 1 100/ leaves injury	0.8 n	n.s.	333	n.s.	15.3	4.9	539
Thrips <sup>3</sup> =Based on a scale of 0-10 (0=no injured, 1=10% leaves injured)	ıred, 3=30	30% injure	ed, 4=50%	% leave	es injured	d,	
5=>50% leaves injured and <5% terminal buds injured, 6=		-					
buds injured, 7=>50% leaves injured and 50% terminal but terminal buds injured, 9=>50% leaves injured and 90% term	-			-		5%	
TSWV <sup>4</sup> =Percent of row feet infected based on disease loci (up to 1		-					
Rootknot <sup>5</sup> =Number of <i>M.arenarie juveniles</i> per 100 cc of soil.		,,,,,					
Ring <sup>6</sup> =Population of ring nematodes per 100 cc of soil.							
Galling <sup>7</sup> =Visual rating of the percent of pods and roots (1-100) with			e from ro	ot kno	t nemato	odes.	

## DAILY RAINFALL AND IRRIGATION, 2016 BLACKSHANK FARM, POND FIELD

DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	2.8				0.4	0.6	
2	0.5	0.2			0.5	4.7	
3		0.2					
4				0.1	1.0		
6	0.1		2.4				
7	0.1						
8					1.9		
9					0.2		
12	0.2				0.3		
13					0.7	0.7	
14	1.2				0.2		
15	0.2						
16			0.2				
17		0.9	0.6	1.3			
18							
19		0.2				0.1	
21					0.3		
23					0.5		
24				0.1			
29			0.6		0.2		
30	1.3		0.1	1.9	0.1		
Total	6.4	1.5	3.9	3.4	6.3	6.1	0.0
IRRIGATION	J						
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
3							0.5
7			0.5				
10		0.3					
11				0.6			
16			0.4				
18					0.5		
20			0.2				
25				0.5			
26		0.3			0.6		
27	0.5						
28	0.4						
29				0.3	0.6		
Total	0.9	0.6	1.1	1.4	1.7	0.0	0.5
Rain & Irr	7.3	2.1	5.0	4.8	8.0	6.1	0.5

#### BAYER PROPULSE/VELUM TOTAL TEST V, 2016

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

#### 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: 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 Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 29 Jun, 20 Jul, 2 Aug, 16 Aug and 30 Aug., Convoy (32 fl oz/A) was applied on 6 Jul, 2 Aug and 16 Aug. The in furrow sprays were applied at planting on 4 May.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Irr/Non Field, Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

NOTE – To promote nematode development,

Common vetch was grown as a winter crop between

the 2015 and 2016 peanut crops.

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + 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, 27 Jul,

and 17 Aug.

7. Planting Info: GA-06G, 6 seed/ft (2" deep) 4 May

8. Harvest Dates: Dug – 12 Oct Picked – 17 Oct

	BAYER PROPULSE/VELUM TOTAL TEST V, 2016									
	В	LACKSHAN	K FARM,	IRR NON I	FIELD					
			Plan	ts/ft <sup>1</sup>		% Dead	Plants <sup>2</sup>			
TREATMENTS	App's	RATE	18-May	25-May	18-May	25-May	1-Jun	8-Jun		
1. Admire Pro	In Furrow*	10.5 fl oz	3.3	3.3	0.0	0.1	0.7	1.0		
2. Velum Total	In Furrow*	14.0 fl oz	3.5	3.4	0.0	0.1	0.3	0.5		
		10.05								
3. Velum Total	In Furrow*	18.0 fl oz	3.4	3.2	0.0	0.1	0.8	0.8		
4. Admire Pro	In Furrow*	10.5 fl oz	3.1	3.3	0.0	0.0	0.0	0.0		
+ Propulse	III I UI I OW	10.5 fl oz	3.1	3.3	0.0	0.0	0.0	0.0		
Поризс		10.0 11 02								
5. Admire Pro	In Furrow*	10.5 fl oz	3.1	3.3	0.0	0.0	0.0	0.0		
+ Propulse		12.0 fl oz								
6. Admire Pro	In Furrow*	10.5 fl oz	2.9	3.3	0.0	0.0	0.0	0.0		
+ Propulse		13.7 fl oz								
7. Admire Pro	In Furrow*	10.5 fl oz	3.4	3.4	0.0	0.0	0.0	0.0		
+ Luna Priviledge		4.0 fl oz								
+ Proline		2.8 fl oz								
		10 = 6								
8. Admire Pro	In Furrow*	10.5 fl oz	3.2	3.4	0.0	0.1	0.2	0.2		
+ Luna Priviledge		5.0 fl oz								
+ Proline		3.5 fl oz								
9. Admire Pro	In Furrow*	10.5 fl oz	3.2	3.2	0.0	0.0	0.0	0.0		
+ Luna Priviledge		6.0 fl oz			2.0		2.0	2.0		
+ Proline		4.2 fl oz								
LSD (P<0.05)			0.4	n.s.	n.s.	n.s.	n.s.	0.9		
, ,			Ì							

Plants/ft<sup>1</sup>=Stand count is the number of emerged plants per foot of row on 18 May, and 25 May. % Dead Plants<sup>2</sup>=The % of emerged plants that was dead or dying per plot.

	В	LACKSHAN	K FARM,	IRR NON F	FIELD			
			TSWV <sup>3</sup>	WM <sup>4</sup>	Yield	Rootknot <sup>5</sup>	Ring <sup>6</sup>	Galling <sup>7</sup>
TREATMENTS	App's	RATE	5-Aug	12-Oct	lb/A	12-Sep	12-Sep	12-Oct
1. Admire Pro	In Furrow*	10.5 fl oz	9.0	11.0	4542	29	8	9.5
2. Velum Total	In Furrow*	14.0 fl oz	8.0	12.7	4238	63	5	10.0
3. Velum Total	In Furrow*	18.0 fl oz	10.7	12.0	4298	21	7	5.8
4. Admire Pro	In Furrow*	10.5 fl oz	10.3	11.3	4908	87	14	7.0
+ Propulse		10.0 fl oz						
5. Admire Pro	In Furrow*	10.5 fl oz	5.3	10.0	4579	62	5	8.3
+ Propulse		12.0 fl oz						
6. Admire Pro	In Furrow*	10.5 fl oz	7.6	8.0	4817	113	13	5.8
+ Propulse		13.7 fl oz						
7. Admire Pro	In Furrow*	10.5 fl oz	11.4	12.0	4618	40	15	9.3
+ Luna Priviledge	III I all ow	4.0 fl oz		12.0	1010	10		3.3
+ Proline		2.8 fl oz						
		2.0 11 02						
8. Admire Pro	In Furrow*	10.5 fl oz	9.0	9.7	4381	83	7	10.3
+ Luna Priviledge		5.0 fl oz						
+ Proline		3.5 fl oz						
9. Admire Pro	In Furrow*	10.5 fl oz	5.6	9.0	4696	92	6	10.2
+ Luna Priviledge		6.0 fl oz						
+ Proline		4.2 fl oz						
LSD (P<0.05)			n.s.	n.s.	n.s.	86	n.s.	4.4
TSWV <sup>3</sup> =Percent of row								
WM <sup>4</sup> =Percent of row fo					ear row)	per plot.		
Rootknot <sup>5</sup> =Number of		· ·		oil.				
Ring <sup>6</sup> =Population of rir Galling <sup>7</sup> =Visual rating o								

## EVALUATION OF A CANOPY OPENER FOR IMPROVED CONTROL OF PEANUT WHITE MOLD (CANOPY OPENER (DIRECTED SPRAY) TEST I, 2016)

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 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:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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. Cover sprays of Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun 6 Jul, 20 Jul 2 Aug, 16 Aug, and 30 Aug. Applied spray treatments using a push-type CO<sub>2</sub> sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The PVC Pipe running 4-6 inches above the soil and ahead of the spray tip served as a canopy opener. Applications were made on 13 Jul and 11 Aug.

#### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 May.

POST: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + 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, 27 Jul

and 16 Aug.

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

8. Harvest Dates: Dug – 12 Oct Picked – 17 Oct

	CANOR	PY OPENER (	DIRECTED SPR	AY) TEST I,	2016		
		BLACKSHAN	K FARM, IRR N	ON FIELD			
					TSWV <sup>1</sup>	WM <sup>2</sup>	Yield
TREATMENTS	App's	RATE	Nozzle	Boom	29-Aug	12-Oct	lb/A
1. Convoy	3 & 5	24 fl oz	TX-SS6	B'cast	5.0	18.6	3643
2. Priaxor	3 & 5	8.0 fl oz	TX-SS6	B'cast	6.0	11.4	4310
3. Convoy	3 & 5	24 fl oz	TX-SS6	Directed	7.7	20.3	3784
4. Priaxor	3 & 5	8.0 fl oz	TX-SS6	Directed	11.7	9.7	4381
5. Convoy	3 & 5	24 fl oz	AI11006-VS	B'cast	5.0	15.1	3738
6. Priaxor	3 & 5	8.0 fl oz	AI11006-VS	B'cast	9.7	7.7	4205
7. Convoy	3 & 5	24 fl oz	AI11006-VS	Directed	8.0	19.7	3602
8. Priaxor	3 & 5	8.0 fl oz	AI11006-VS	Directed	9.0	10.6	4191
9. Nontreated					7.0	32.3	3033
LSD (P<0.05)					4.8	5.7	382
TSWV <sup>1</sup> =Percent of row							

			BLACKSHAN	IK FARM, I	RR NON	FIELD			
TREATMENTS	App's	RATE	Nozzle	Boom	lmm	DAM	SMKSS	DOLAC	DOLTON
1. Convoy	3 & 5	24 fl oz	TX-SS6	B'cast	2.2	3.0	69.6	613.3	337.0
2. Priaxor	3 & 5	8.0 fl oz	TX-SS6	B'cast	2.5	3.2	69.1	717.4	332.4
3. Convoy	3 & 5	24 fl oz	TX-SS6	Directed	2.0	4.0	68.0	608.2	321.2
4. Priaxor	3 & 5	8.0 fl oz	TX-SS6	Directed	2.2	2.6	69.3	730.6	334.5
5. Convoy	3 & 5	24 fl oz	AI11006-VS	B'cast	2.4	3.4	71.7	648.6	346.5
6. Priaxor	3 & 5	8.0 fl oz	AI11006-VS	B'cast	2.9	2.5	69.5	715.8	340.2
7. Convoy	3 & 5	24 fl oz	AI11006-VS	Directed	2.4	3.2	68.1	592.0	329.9
8. Priaxor	3 & 5	8.0 fl oz	AI11006-VS	Directed	2.5	3.0	69.8	697.4	339.1
9. Nontreated					2.6	3.2	69.5	510.4	335.8
LSD (P<0.05)					0.6	1.0	3.0	80.4	16.5

# EVALUATION OF FUNGICIDE PROGRAMS FOR THE CONTROL OF PEANUT SOILBORNE DISEASES (RHIZOCTONIA TEST, 2016)

A. PURPOSE: To evaluate the efficacy of different programs for Rhizoctonia limb rot.

### 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-12Y

### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 8 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug and 30 Aug. Spray treatment, broadcast in (20 gal/A) were applied on 5 Jul, 20 Jul, 4 Aug, and 31 Aug. All plots except treatment # 1 were inoculated with R. solani oat grain inoculum in Jul just after spray # 3.

### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Irr/Non Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 Jun.

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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 May.

POST: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + 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, 27 Jul

and 16 Aug.

7. Planting Info: GA-12Y, 6 seed/ft (2" deep) 2 May

8. Harvest Dates: Dug – 12 Oct Picked – 17 Oct

E: SUMMARY:

	RHIZ	ZOCTONIA T	EST, 2016			
	BLACKSH	ANK FARM,	IRR NON F	IELD		
			TSWV <sup>1</sup>	WM <sup>2</sup>	Rhizoctonia <sup>3</sup>	Yield
TREATMENTS	App's	RATE	19-Aug	12-Oct	12-Oct	lb/A
1. Untreated, Not inoculated			2.8	18.8	13.9	3337
2. Untreated			3.2	23.6	19.9	3828
3. Convoy	3 - 5	21.0 fl oz	1.2	12.4	10.6	4252
4. Elatus 45WG	3 - 5	7.14 oz	2.4	4.8	3.8	4073
5. Provost	3 - 5	10.2 fl oz	1.2	5.2	6.1	4597
6. Fontelis	3 - 5	16.0 fl oz	2.0	8.4	7.8	3866
7. Abound	3 - 5	16.0 fl oz	4.0	5.6	7.0	4073
8. Priaxor	3 - 5	8.0 fl oz	0.8	6.0	3.8	4377
9. EXP 7	3 & 5	2.0 fl oz	2.8	3.6	7.5	3915
10. EXP 7	3 - 5	1.33 fl oz	1.2	4.4	6.3	4143
LSD (P<0.05)			2.9	7.5	3.8	716

TSWV<sup>1</sup>=Percent of row feet infected based on disease loci (up to 12" linear row) per plot.

WM<sup>2</sup>=Percent of row feet infected based on disease loci (up to 12" linear row) per plot.

Rhizoctonia<sup>3</sup>=Visual estimate after inverting of the % of vines colonized with R. solani.

			INFALL ANI				
		BLACKS	HANK FAR	M, IRR/NO	N FIELD		
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	2.8				0.4	0.6	
2	0.5	0.2			0.5	4.7	
3		0.2					
4				0.1	1.0		
6	0.1		2.4				
7	0.1						
8					1.9		
9					0.2		
12	0.2				0.3		
13					0.7	0.7	
14	1.2				0.2		
15	0.2						
16			0.2				
17		0.9	0.6	1.3			
18							
19		0.2				0.1	
21					0.3		
23					0.5		
24				0.1			
29			0.6		0.2		
30	1.3		0.1	1.9	0.1		
Total	6.4	1.5	3.9	3.4	6.3	6.1	0.0
IRRIGA	TION						
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
2					0.3		
3							0.5
4					0.4		
10		0.3					
11				0.6			0.4
15				0.6			
18					0.5		
22						0.5	
29				0.5	0.6		
Total	0.0	0.3	0.0	1.7	1.8	0.5	0.9
Rain & Irr	6.4	1.8	3.9	5.1	8.1	6.6	0.9

### EVALUATIONS OF GENOTYPE SUSCEPTIBILITY TO WHITE MOLD (MULTI-STATE DISEASE EVALUATION TEST, 2016)

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 with 100% chloropicrin (300 lb/A). Six plants per plot were inoculated with *Sclerotium rolfsii* at midseason (3 Aug), and length of each disease locus measured after inverting at harvest.
- 5. Variety: Multiple

### C. APPLICATION OF TREATMENTS:

1. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied for leaf spot on 15 Jun, 13 Jul and 28 Jul.

### D. ADDITIONAL INFORMATION:

1. Location: Blackshank Farm, Banana Field, Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Disc Harrow on 15 March. Tri-est injected 100%

Chloropicin at (300 lb/A) and covered with plastic tarp on 14 Apr. Pulled plastic 22 Apr. Moldboard plowed and marked rows on 25 Apr. Subsoil shank

ran under each row on 25 Apr. Gypsum

broadcast (1200 lb/A) on 27 Jun.

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 25 Apr.

6. Insecticides: Acephate 97 (0.7 lb/A) for thrips on 8 Jun, 28 Jul,

and 17 Aug.

7. Planting Info: Multiple Varieties, 6 seed/ft (2" deep) on 19 May

8. Harvest Dates: Dug –13 Oct Picked – 18 Oct

	M	ULTI-STATI	DISEASE	<b>EVALUATION,</b>	2016		
		BLACKSHA	ANK FARM	I, BANANA FIE	LD		
	TSWV <sup>1</sup>	LEAF :	SPOT <sup>2</sup>	WHITE M	1OLD <sup>3</sup>	Percent <sup>4</sup>	YIELD
CULTIVAR	31-Aug	21-Sep	11-Oct	<b>NO ZEROES</b>	ALL	Zeroes	(LB/A)
GA01	27.5	2.7	5.8	93.1	93.1	0.0	2026
GA02	16.7	3.4	5.3	70.0	70.0	0.0	3284
GA03	15.8	2.4	4.4	58.0	55.4	4.2	3957
GA04	16.7	2.9	5.9	46.8	45.4	4.2	4283
GA05	19.1	3.3	5.8	41.7	41.7	0.0	4441
GA06	18.3	2.7	5.8	51.6	46.3	8.3	4557
GA07	15.0	3.9	7.4	59.0	59.0	0.0	3678
GA08	19.1	2.7	5.1	52.1	52.1	0.0	3107
GA09	35.8	2.8	5.1	63.5	63.5	0.0	3163
GA10	12.5	2.1	4.5	39.5	38.1	4.2	4540
GA11	25.8	2.3	4.7	39.4	39.4	0.0	4213
TD1	21.6	2.9	5.0	23.0	20.6	12.5	4646
TD2	20.0	2.9	5.9	28.1	24.0	12.5	4784
TD3	17.5	2.1	5.0	36.6	30.2	16.7	4712
TD4	24.1	2.2	4.0	25.6	24.0	8.3	3993
TD5	30.0	2.6	5.0	33.0	28.6	12.5	4758
TD6	22.5	2.8	5.4	14.5	11.7	20.8	4395
KM1	15.0	2.6	4.9	25.8	23.8	8.3	4189
KM2	4.2	2.1	3.5	10.1	5.8	45.8	4927
KM3	11.7	3.8	6.5	51.1	49.2	4.2	4421
FL1	35.8	2.6	5.0	44.4	44.4	0.0	4175
FL2	8.3	2.9	6.1	26.4	24.7	8.3	4876
FL3	15.8	2.9	5.6	49.7	49.7	0.0	3511
FL4	35.8	4.0	7.4	61.7	61.7	0.0	2599
FL5	27.5	2.8	6.2	48.5	48.5	0.0	3550
FL6	20.8	2.6	5.5	72.5	68.1	4.2	3732
FL7	22.5	3.1	5.5	53.8	53.8	0.0	3405
FL8	27.5	2.6	6.9	27.7	25.1	8.3	5389
FL9	16.7	2.9	6.1	37.3	37.3	0.0	4855
AG1	17.5	2.8	4.8	53.6	44.6	16.7	4516
AG2	30.0	2.9	6.3	42.7	41.3	4.2	4489
AG3	27.5	3.7	8.1	120.4	120.4	0.0	1348
GA-14N	16.7	2.8	5.3	22.7	21.5	8.3	4247
GA-13M	15.0	4.6	9.0	57.5	57.5	0.0	3497
GA-12Y	4.2	2.6	6.5	30.8	32.5	8.3	4833
TUFRUNNER 511	24.1	5.1	9.5	56.7	54.2	8.3	3766
TIFNV HIGH O/L	10.0	2.4	4.6	27.8	26.5	8.3	5348
GA-06G	19.1	2.9	7.8	54.0	54.0	0.0	3465
FLORUN 157	45.8	3.8	6.6	54.6	54.6	0.0	2439
<b>TUFRUNNER 297</b>	19.1	3.4	7.8	49.6	44.6	8.3	4271
FLORUN 107	29.1	3.0	6.8	52.9	52.9	0.0	2926
LSD (P<0.05)	10.4	0.7	1.1	21.8	21.4	11.7	916

TSWV<sup>1</sup>=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot. Leaf Spot<sup>2</sup>=Florida 1-10 scale where 1=no disease and 10=dead plant.

White Mold<sup>3</sup>=Average length of the white mold "hit" (cm) calculated with and without "0's".

<sup>4</sup>Percent of plants inoculated with *S. rolfsii* that had no disease.

			INFALL ANI HANK FARI				
		DE TORO		, D,,	/		
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	2.8			0.0	0.4	0.6	
2	0.5	0.2			0.5	4.7	
3		0.2					
4				0.1	1.0		
6	0.1		2.4				
7	0.1						
8					1.9		
9					0.2		
12	0.2				0.3		
13					0.7	0.7	
14	1.2				0.2		
15	0.2						
16			0.2				
17		0.9	0.6	1.3			
18							
19		0.2				0.1	
21					0.3		
23					0.5		
24				0.1			
29			0.6		0.2		
30	1.3		0.1	1.9	0.1		
Total	6.4	1.5	3.9	3.4	6.3	6.1	0.0
IRRIGA	TION						
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
3					0.5		0.6
4					0.5		
7				0.5			
11				0.6			0.5
13			0.4				
14				0.4			
18					0.6		
22						0.5	
25				0.5			
26		0.5					
29				0.6	0.7		
Total	0.0	0.5	0.4	2.6	2.3	0.5	1.1
ain & Irr	6.4	2.0	4.3	6.0	9.6	6.6	1.1

### Bayer Provost-Propulse Test III, 2016

A. PURPOSE: To evaluate the comparative efficacy of Bayer products on foliar and soilborne peanut diseases with no nematode pressure.

### 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 broadcast in 20 GPA with a CO<sub>2</sub> pressurized belt-pack sprayer using 2 liter bottles and a boom with three TP-SS6 conejet nozzles per row at 40 PSI. The 45 DAP chemigation treatment was applied by diluting the treatment in a tractor-mounted spray tank and watering it in with a hose and a sprinkler head calibrated to deliver a volume of water equivalent to 0.1 inch per acre. In furrow sprays were applied in 3.4 GPA (singles) with a single TP 80015E flat fan nozzle at 22 psi per row.
- 2. No cover sprays were applied to this test. Treatments were made on 9 Jun, 22 Jun, 6 Jul, 19 Jul, 2 Aug, 16 Aug and 31 Aug. The chemigation treatments were applied 19 Jul, and the in-furrow sprays were applied at planting on 6 May.

### D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 21 Jul, Select Max (16 fl oz/A) + 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, 27 Jul,

and 17 Aug.

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

8. Harvest Dates: Dug – 27 Sep Picked – 3 Oct

			LANG FAR	M, SOUTI	H FIELD				
				Plan	its/ft <sup>1</sup>		% Dead F	Plants <sup>2</sup>	
TF	REATMENTS	App's	RATE	20-May	27-May	20-May	27-May	3-Jun	10-Jun
1.	Bravo 720	1 - 7	1.5 pt	3.3	3.7	0.0	0.0	0.2	0.2
2.	Brovo	1, 2 & 7	1.5 pt	3.3	3.6	0.0	0.1	0.2	0.6
	Provost	3 - 6	10.7 fl oz						
3	Bravo	1, 2 & 7	1.5 pt	2.9	3.6	0.0	0.0	0.2	0.6
	Provost	3 & 5	10.7 fl oz	2.3	3.0	0.0	0.0	0.2	0.0
	Abound	4 & 6	18.0 fl oz						
	Abound	4 & 0	10.0 11 02						
4.	Velum Total	In Furrow*	18.0 fl oz	3.0	3.7	0.0	0.0	0.0	0.0
	Bravo	1, 2 & 7	1.5 pt						
	Provost	3 & 5	10.7 fl oz						
	Abound	4 & 6	18.0 fl oz						
5.	Proline	In Furrow*	5.7 fl oz	3.0	3.5	0.0	0.0	0.0	0.0
	Bravo	1, 2 & 7	1.5 pt	0.0					
	Provost	3 & 5	10.7 fl oz						
	Abound	4 & 6	18.0 fl oz						
	Abound	4 & 0	10.0 11 02						
6.	Velum Total	In furrow*	18.0 fl oz	2.9	3.4	0.0	0.0	0.6	0.6
	+ Proline	In furrow*	5.7 fl oz						
	Bravo	1, 2 & 7	1.5 pt						
	Provost	3 & 5	10.7 fl oz						
	Abound	4 & 6	18.0 fl oz						
7.	Velum Total	In Furrow*	18.0 fl oz	3.0	3.4	0.0	0.0	0.0	0.2
	Bravo	1, 2, & 7	1.5 pt	0.0	<b></b>	0.0	0.0		0.1
	Provost	3 & 5	10.7 fl oz						
	Abound	4 & 6	18.0 fl oz						
_	Propulse	4, Chemigated 0.1"**							
	Пориле	-, chemigatea oil	13.7 11 02						
8.	Absolute	1 & 2	3.5 oz	3.1	3.6	0.0	0.0	0.0	0.0
	Provost	3 & 5	10.7 fl oz						
	Abound	4 & 6	18.0 fl oz						
	Bravo	7	1.5 pt						
9.	Velum Total	In Furrow*	18.0 fl oz	3.0	3.6	0.0	0.0	0.0	0.0
	Absolute	1 & 2	3.5 oz	-	-	_	-		_
	Provost	3 & 5	10.7 fl oz						
	Abound	4 & 6	18.0 fl oiz						
	Bravo	7	1.5 pt	-					
-	D (P<0.05)	<b>'</b>	±.5 μι	0.3	n.s.	n.s.	0.1	0.5	n.s.

Plants/ft<sup>1</sup>=Stand count is the number of emerged plants per foot of row on 20 May and 27 May. % Dead Plants<sup>2</sup>=The % of emerged plants that was dead or dying per plot.

		LANG FARI	M, SOUT	H FIELD			
			Thrips <sup>3</sup>	Leaf Spot <sup>4</sup>	TSWV <sup>5</sup>	WM <sup>6</sup>	Yield
<b>TREATMENTS</b>	App's	RATE	3-Jun	22-Sep	10-Aug	27-Sep	lb/A
1. Bravo 720	1 - 7	1.5 pt	4.6	3.0	5.6	45.6	3011
2. Brovo	1, 2 & 7	1.5 pt	4.6	3.1	5.6	29.6	3239
Provost	3 - 6	10.7 fl oz		0.1	3.0	23.0	3233
3. Bravo	1, 2 & 7	1.5 pt	4.8	3.0	8.4	17.6	3759
Provost	3 & 5	10.7 fl oz	1.0	3.0	0. 1	17.0	3733
Abound	4 & 6	18.0 fl oz					
4. Velum Total		18.0 fl oz	2.8	2.8	9.2	19.6	3641
Bravo	1, 2 & 7	1.5 pt	2.0	2.0	٦.٢	15.0	3041
Provost	3 & 5	10.7 fl oz					
Abound	4 & 6	18.0 fl oz					
			4.0	2.0	6.0	10.2	2621
5. Proline Bravo	In Furrow*	5.7 fl oz	4.0	3.0	6.8	19.2	3631
	1, 2 & 7	1.5 pt					
Provost	3 & 5	10.7 fl oz					
Abound	4 & 6	18.0 fl oz					
6. Velum Total		18.0 fl oz	2.2	3.1	9.6	15.2	3837
+ Proline	In furrow*	5.7 fl oz					
Bravo	1, 2 & 7	1.5 pt					
Provost	3 & 5	10.7 fl oz					
Abound	4 & 6	18.0 fl oz					
7. Velum Total	In Furrow*	18.0 fl oz	2.6	3.0	8.0	13.2	4234
Bravo	1, 2, & 7	1.5 pt					
Provost	3 & 5	10.7 fl oz					
Abound	4 & 6	18.0 fl oz					
Propulse	4, Chemigated 0.1"**	13.7 fl oz					
8. Absolute	1 & 2	3.5 oz	4.2	3.1	4.0	28.4	3584
Provost	3 & 5	10.7 fl oz			-		
Abound	4 & 6	18.0 fl oz					
Bravo	7	1.5 pt					
9. Velum Total	In Furrow*	18.0 fl oz	2.8	3.1	3.6	20.8	3811
Absolute	1 & 2	3.5 oz					
Provost	3 & 5	10.7 fl oz					
Abound	4 & 6	18.0 fl oiz					
Bravo	7	1.5 pt					
LSD (P<0.05)			1.2	n.s.	n.s.	10.7	656

Thrips³=Based on a scale of 0-10 (0=no injured, 1=10% leaves injured, 3=30% injured, 4=50% leaves injured, 5=>50% leaves injured and <5% terminal buds injured, 6=>50% leaves injured and 25% terminal buds injured, 7=>50% leaves injured and 50% terminal buds injured, 8=>50% leaves injured and 75% terminal buds injured, 9=>50% leaves injured and 90% terminal buds injured, and 10=dead plant.

Leaf Spot⁴=Florida 1-10 scale where 1=no disease and 10=dead plant.

TSWV⁵=Percent of row feet infected based on disease loci (up to 12" linear row) per plot.

WM<sup>6</sup>=Percent of row feet infected based on disease loci (up to 12" linear row) per plot.

### EVALUATION OF PEANUT FUNGICIDE PROGRAMS UNDER NONIRRIGATED CONDITIONS (SYNGENTA/DUPONT IRRIGATION TEST I, 2016)

A. PURPOSE: To evaluate peanut fungicide programs for efficacy and yield under nonirrigated conditions.

### 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:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 21 DAP spray was applied broadcast with one 8003 nozzle in a volume of 20 GPA.
- 2. Treatments were applied on 9 Jun, 22 Jun, 6 Jul, 19 Jul, 2 Aug, 16 Aug, and 31Aug, 1.5 spray was applied on 15 Jun and 4.5 spray on 27 Jul. No cover sprays were applied. The 21 DAP spray was applied on 26 May.

### D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated on 1 Jun.

4. Soil Fertility: pH - 6.4 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: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

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

8. Harvest Dates: Dug – 27 Sep Picked – 3 Oct

		SYNGENTA DUPONT II			DIADLE		
		LANG FAR	RM, SOUTH	FIELD			
				TSWV <sup>1</sup>	Leaf Spot <sup>2</sup>	WM <sup>3</sup>	Yield
	TREATMENTS	App's	RATE	18-Aug	22-Sep	27-Sep	lb/A
1.	Nontreated			5.5	4.0	56.0	2391
_	Dec - Miletil	1 2 6 7	4.5.1	7.5	2.0	20.0	2675
۷.	Bravo W'stik	1, 2, 6, 7	1.5 pt	7.5	2.8	29.0	3675
	Fontelis	3 - 5	16.0 fl oz				
3.	Bravo W'stik	1, 6, 7	1.5 pt	5.5	2.7	35.5	3161
	Provost	2 - 5	8.0 fl oz				
_		7	0.00			100	
4.	Priaxor	1.5	6.0 fl oz	4.5	2.8	19.0	3775
	Bravo W'stik	5 & 6	1.5 pt				
	+ Orius 3.6F	<b>7</b> .	7.2 fl oz				
	Priaxor	4	8.0 fl oz				
	Bravo W'stik	3 & 7	1.5 pt				
5.	Elatus 45WG	1, 3 & 5	7.3 oz	7.0	2.8	12.0	3727
	Bravo W'stik	2, 4, 6, & 7	1.5 pt				
6.	Alto	1 & 6	5.5 fl oz	5.0	2.9	13.5	3981
	+ Bravo		1.0 pt				
	Bravo	2, 4, & 7	1.5 pt				
	Elatus 45WG	3 & 5	9.5 oz				
,	Alto	1 & 6	5.5 fl oz	3.5	2.7	12.5	3875
/.		1 0 0		3.3	2.7	12.5	36/3
	+ Bravo Bravo	2 & 7	1.0 pt				
			1.5 pt				
	Elatus 45WG	3 & 4.5	9.5 oz				
8.	Elatus 45WG	21 DAP B'cast & 3	9.5 oz	5.0	2.7	10.5	3431
	Alto	1.5	5.5 fl oz				
	+ Bravo		1.5 pt				
	Bravo W'stik	4 - 7	1.5 pt				
9.	Alto	1 & 7	5.5 fl oz	6.5	2.8	8.5	4298
	+ Bravo		1.0 pt				
	Elatus 45WG	3 & 5	9.5 oz				
	+ A19649		3.42 fl oz				
10	). Alto	1.5	5.5 fl oz	5.0	3.0	10.5	3902
•	+ Bravo		1.5 pt				
	Elatus 45WG	3 & 4.5	9.5 oz				
	+ A19649		3.42 fl oz				
	Bravo W'stik	6 & 7	1.5 pt				
C	ontinued on next page		p.				

	SYNGENTA DUPON		-	6 TABLE		
	LANG F	ARM, SOUTH I	FIELD			
TREATMENTS	App's	RATE	TSWV <sup>1</sup>	Leaf Spot <sup>2</sup> 22-Sep	WM <sup>3</sup> 27-Sep	Yield lb/A
11. Elatus 45WG	1 & 5	7.3 oz	6.5	2.5	9.0	3974
A19649	103	3.42 fl oz	0.5	2.5	5.0	3374
Bravo W'stik	2, 4, 6 & 7	1.5 pt				
Elatus 45WG	3	7.3 oz				
12. Alto	1	5.5 fl oz	5.5	2.8	5.5	3598
+ Bravo		1.5 pt	0.0		0.0	
Bravo	2 & 7	1.5 pt				
Elatus 45WG	3 & 5	9.5 oz				
+ A19649		3.42 fl oz				
13. Aproach 2.08	1 & 2	5.5 fl oz	4.5	2.6	13.5	3581
+ Alto		5.5 fl oz				
+ Induce		0.25%				
Fontelis	3 - 5	16.0 fl oz				
Bravo W'stik	6 & 7	1.5 pt				
14. Aproach Prima	1 & 2	6.8 fl oz	4.5	2.7	17.5	3479
+ Induce		0.25%				
Fontelis	3 - 5	16.0 fl oz				
Bravo W'stik	6 & 7	1.5 pt				
15. Priaxor	1 & 2	4.0 fl oz	2.0	2.7	14.5	3865
+ Induce		0.25%				
Elatus 45WG	3 - 5	7.3 oz				
Bravo W'stik	6 & 7	1.5 pt				
16. Priaxor	1 & 2	4.0 fl oz	4.0	2.8	7.5	4234
+ Induce		0.25%				
Elatus 45WG	3 & 5	9.5 oz				
Bravo	4	1.0 pt				
+ Alto		1.5 fl oz				
Bravo W'stik	6 & 7	1.5 pt		_	_	_
			5.4	0.2	12.4	638

TSWV<sup>1</sup>=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.

Leaf<sup>2</sup> Spot=Florida scale of 1-10 where 1=no disease and 10=dead plant.

WM<sup>3</sup>=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot.

### NEW CULTIVAR HIGH-LOW INPUT TEST, 2016

A. PURPOSE: To evaluate the comparative disease susceptibility and yield of new cultivars to two levels of fungicide input.

### 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: Multiple Varieties

### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 9 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 31 Aug. Treatment # 2 spray of Provost (10.7 fl oz/A) was applied on 6 Jul, 20 Jul, 2 Aug, 16 Aug and 31 Aug. Also Convoy (32 fl oz/A) was applied on 2 Aug, and 16 Aug.

### D. ADDITIONAL INFORMATION:

1.	Location:	Lang Farm, South Field Tifton,	GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

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

8. Harvest Dates: Dug – 27 Sep Picked – 3 Oct

	LANGIA	ARM, SOUTH	IILLD	<b></b> 1	14 th a <sup>2</sup>	
				TSWV <sup>1</sup>	WM <sup>2</sup>	Yield
Cultivar	Treatments	App's	Rate/A	10-Aug	27-Sep	lb/A
1. GA-06G	1. Bravo W'stik	1 - 7		5.0	53.5	2378
	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	6.5	18.0	3659
LSD(P<0.05)				n.s.	4.0	1258
2. GA-12Y	1. Bravo W'stik	1 - 7		2.0	21.5	3328
	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	0.5	6.5	3745
LSD(P<0.05)				n.s.	13.9	n.s.
3. Tufrunner 511	1. Bravo W'stik	1 - 7		8.0	34.5	3485
	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	9.0	12.5	4289
LSD(P<0.05)				n.s.	n.s.	497
4. GA-13M	1. Bravo W'stik	1 - 7		3.0	49.5	3203
	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	6.5	11.0	3630
LSD(P<0.05)				3.0	33.6	n.s.
5. Tufrunner 297	1. Bravo W'stik	1 - 7		4.0	46.0	3219
	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	3.5	22.5	3842
LSD(P<0.05)				n.s.	n.s.	n.s.
6. GA-14N	1. Bravo W'stik	1 - 7		11.5	29.5	3456
	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	10.0	12.0	3765
LSD(P<0.05)				n.s.	n.s.	115
7. TifNV-High O/L	1. Bravo W'stik	1 - 7		2.5	31.5	3616
U -1-	2. Bravo W'stik	1 - 7				
	Provost 3.6SC	3 - 6	8.0 fl oz	0.5	10.5	4147
LSD(P<0.05)				n.s.	n.s.	n.s.
8. Florun 157	1. Bravo W'stik	1 - 7		9.5	36.5	2689
	2. Bravo W'stik	1 - 7		3.3	33.3	
	Provost 3.6SC	3 - 6	8.0 fl oz	11.0	19.0	2887
LSD(P<0.05)		3 0	0.0 11 02	n.s.	9.5	n.s.
L3D(F \0.03)				11.3.	ر. ر	11.3.

# EVALUATION OF TWO CULTIVARS AND FUNGICIDES FOR THE CONTROL OF PEANUT DISEASES (SYNGENTA SEED TREATMENT TEST, 2016)

A. PURPOSE: To evaluate the comparative efficacy of different levels of input for white mold and leaf spot on GA-06G and Tifguard peanuts.

### B. EXPERIMENTAL DESIGN:

- 1. Split plot with whole plots being cultivars and sub-plots were fungicide treatments 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:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 banded spray was applied in a narrow band (about 6 inches) directly over the row with a single 8003 nozzle in a spray volume of 20 GPA.
- 2. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 9 Jun, 22 Jun, 6 Jul, 19 Jul, 2 Aug, 16 Aug, and 31 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 31 Aug. Convoy (32 fl oz/A) was applied on 2 Aug and 16 Aug. All inoculated plots were inoculated with R. Solani at 4" band at row just before plant on 10 May.

### D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

7. Planting Info: Tifguard 6 seed/ft (3.5" deep) 10 May.

8. Harvest Dates: Dug – 27 Sep Picked – 4 Oct

				SYNGE	NTA SEE	D TRT T	EST I, 2	2016				
				LAI	NG FARM	1, SOUTI	1 FIELI	)	,			
				1					. 3	4	. 5	
			Plan			% Dead P			Plant wt <sup>3</sup>	-	TSWV⁵	Yield
Seed Trt	IF	Rate		31-May		31-May			2-Jun	3-Jun	15-Aug	lb/A
1. As trt	None		1.3	1.3	0.0	3.9	1.4	2.6	5.8	4.3	6.8	2993
2. As trt	None		3.4	3.3	0.0	0.0	0.4	0.3	6.0	3.3	8.3	4332
3. As trt	None		3.3	3.1	0.0	0.0	0.1	0.1	6.5	3.4	10.8	4539
4. As trt	None		3.4	3.4	0.0	0.1	0.1	0.6	5.8	3.0	6.5	4175
5. As trt	Abound	8.7 fl oz	3.4	3.3	0.0	0.0	0.1	0.1	5.7	3.0	8.8	4260
6. As trt	A21617	18.0 fl oz	2.9	2.7	0.0	0.4	0.5	0.5	6.0	2.4	12.5	4237
7. As trt	A21617	18.0 fl oz	3.2	3.2	0.0	0.0	0.3	0.0	6.6	2.1	10.3	4732
8. As trt	A21617	18.0 fl oz	3.4	3.3	0.0	0.0	0.1	0.3	6.4	1.8	10.8	4474
D(P<0.05)			0.4	0.3	n.s.	0.8	0.6	0.7	n.s.	0.5	4.0	388
		e number o					24 Ma	ay and 3	31 May.			
		l plants the										
		ght in gran	•									
			•	-		-			jured, 4=50			
		-				-			njured and >50% leave			
	-			-					jured, and	-		)
		row feet ir								10-000	, piurit.	
				2224 211 4		J. (GP 10			, , , , , , , , , , , , , , , , , , , ,			
NOTE:Dat	a are me	ans of plo	ts inocula	ted at pla	anting wi	th Rhizo	tonia :	and the	se are inoc	culated		
		ant differ		-								
,,,,	2.5											

### EVALUATION OF SEED TREATMENTS FOR CONTROL OF PEANUT SEEDLING DISEASES (ARYSTA IN FURROW SEED TRT TEST, 2016)

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 77% germination.

### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 9 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 31 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 6 Jul and 20 Jul, 2 Aug, 16 Aug, and 31 Aug. Convoy (32 fl oz/A) on 2 Aug and 16 Aug.

### D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 17

Jul.

7. Planting Info: Tifguard, 6 pre-treated seed/ft (3.5" deep) 10 May.

8. Harvest Dates: Dug – 27 Sep Picked – 4 Oct

		ARY	STA IN FUF	RROW SEE	TRT TEST	Γ, 2016			
			LANG F	ARM, SOU	TH FIELD				
				Plant/ft <sup>1</sup>			Plants <sup>2</sup>		TSWV <sup>3</sup>
Seed Trt*	In Furrow	Rate	24-May	31-May	24-May	31-May	7-Jun	14-Jun	18-Aug
1. Nontrt	None	0	1.1	1.1	0.0	6.2	6.2	7.4	8.0
2. Nontrt	Abound	6 oz	1.4	1.3	0.0	5.6	6.4	6.7	10.0
3. Nontrt	Abound	3 oz	1.2	1.3	0.0	4.9	4.9	6.1	11.5
4. Nontrt	Evito	2 oz	1.3	1.3	0.0	4.0	4.4	5.3	15.5
5. Nontrt	Evito	1 oz	1.1	1.1	0.0	9.3	9.3	10.2	12.0
6. Rancona V PD	None	0	3.4	3.4	0.0	0.0	0.2	0.5	7.5
7. Rancona V PD	Abound	6 oz	3.4	3.4	0.0	0.0	0.1	0.1	5.0
8. Rancona V PD	Abound	3 oz	3.4	3.5	0.0	0.0	0.0	0.0	6.5
9. Rancona V PD	Evito	2 oz	3.5	3.5	0.0	0.1	0.1	0.1	6.0
10. Rancona V PD	Evito	1oz	3.2	3.4	0.0	0.5	0.5	0.5	10.0
LSD(P<0.5)			0.3	0.3	n.s.	3.0	2.7	2.6	4.8
<sup>1</sup> Stand count is th	e number o	of emerg	ged plants p	per foot of	row on 24	4 May and	31 May.		
<sup>2</sup> The % of emerge	d plants tha	at was d	ead or dyir	ng per plot	•				
TSWV <sup>3</sup> =Percent of	f row feet in	nfected l	based on d	isease loci	(up to 12	" linear ro	w) per pl	ot.	
*Seed Trt applied	at 4 oz/100	lb.							

ARY			ED TRT TEST	, 2016					
LANG FARM, SOUTH FIELD									
			Tap Root Count <sup>4</sup>	Yield					
Seed Trt*	In Furrow	Rate	27-Sep	lb/A					
1. Nontrt	None	0	0.9	2599					
2. Nontrt	Abound	6 oz	1.0	3023					
3. Nontrt	Abound	3 oz	1.0	2781					
4. Nontrt	Evito	2 oz	1.0	2913					
5. Nontrt	Evito	1 oz	1.3	2315					
6. Rancona V PD	None	0	1.8	4205					
7. Rancona V PD	Abound	6 oz	1.9	3793					
8. Rancona V PD	Abound	3 oz	2.0	4298					
9. Rancona V PD	Evito	2 oz	1.6	4138					
10. Rancona V PI		1oz	1.7	3938					
LSD(P<0.05	)		0.6	660					

Tap Root Count<sup>4</sup>=The number of tap roots per foot after digging.

### EVALUATION OF SEED TREATMENTS FOR CONTROL OF PEANUT SEEDLING DISEASES (ARYSTA SEED TRT TEST, 2016)

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 77% germination

### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 volum of 3.4 GPA.
- 2. Cover sprays for leaf spot control of Chlorothalonil 720 (1.5 pt/A) were applied on 9 Jun, 22 Jun, 6 Jul, 20 Jul, 2 Aug, 16 Aug, and 31 Aug. Cover sprays for white mold control of Provost (10.7 fl oz/A) were applied on 6 Jul and 20 Jul, 2 Aug, 16 Aug and 31 Aug. Convoy (32 fl oz/A) on 2 Aug and 16 Aug.

### D. ADDITIONAL INFORMATION:

1. Location: Lang Farm, South Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

7. Planting Info: Tifguard plant, 6 seed/ft (3.5" deep) 10 May.

8. Harvest Dates: Dug – 27 Sep Picked – 4 Oct

			ARYS	TA SEED	TRT TEST	, 2016				
			LAN	G FARM,	SOUTH F	IELD				
		Plan	t/ft¹		% Dead I	Plants <sup>2</sup>		TSWV <sup>3</sup>	Tap Root	Yield
Seed/Inoc*	Rate	24-May	31-May	24-May	31-May	7-Jun	14-Jun	18-Aug	27-Sep	lb/A
1. Nontrt/None		0.5	0.6	0.0	10.3	10.9	3.3	6.0	0.5	1774
2. Nontrt		0.7	0.6	0.0	6.1	8.1	3.0	5.5	0.4	1455
3. Rancona V PD	4.0 oz	3.5	3.5	0.0	0.4	0.6	1.3	3.5	1.5	3264
4. Dynasty PD	4.0 oz	3.2	3.5	0.0	0.0	0.1	1.3	3.5	1.4	3314
5. Rancona V PD	4.0 oz	3.6	3.3	0.0	0.2	0.2	1.5	4.5	1.6	3499
+ ALS 1603	8.3 g									
LSD(P<0.05)		0.4	0.2	n.s.	6.1	5.1	1.3	n.s.	0.5	608
<sup>1</sup> Stand count is th	e numb	er of eme	erged pla	ints per f	oot of ro	w on 24	4 May aı	nd 31 Ma	у.	
<sup>2</sup> The % of emerge	d plants	that was	s dead o	dying pe	er plot.					
TSWV <sup>3</sup> =Percent of	•				•	p to 12	" linear i	row) per	plot.	
Tap Root Count <sup>4</sup> =								, pe.	p. 0 0.	
Tap Noot Count =	THE HUI		ap 100t3	per 100t	arter dig	ייטיייט				
* All the treatmer	nts (exce	nt treatn	nent 1) w	vere inoc	ulated w	ith <i>Rhiz</i>	octonia	solani		
Isolate RS20133	•	•	-							
over the row im			•		acci, aila	Spiaye				
STEE CHE TOWN		, ancaa	or plant	6.						

		DAILY RAIN LAN	G FARM, S				
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	7	0.6					
2					0.2	4.9	
3		0.2			1.1	0.4	
4	0.2	0.3			0.8		
6			0.8				
7			1.9				
8					0.8		
9					0.2		
14					0.6	0.4	
15	1.2						
16			0.3				
17				2.3			
18		1.5					
19							
20		0.1	0.4				
21					0.5		
24				0.1			
29			0.3				
30			0.1				
31					0.2		
TOTAL	1.4	2.9	3.8	2.4	4.4	5.7	0.0
IRRIGAT	ION						
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1					0.5		
2			0.7				
12		0.4					
13		0.4					
14				0.7			
16		0.6					
23		0.7					
24			0.7				
25				0.6			
30			0.7		0.5		
TOTAL	0.0	2.1	2.1	1.3	1.0	0.0	0.0
AIN & IRR	1.4	5	5.9	4.7	5.4	5.7	0.0

# EVALUATION OF PEANUT FUNGICIDE PROGRAMS UNDER NONIRRIGATED CONDITIONS (FMC-Adjuvant Plus-Helm TEST, 2016)

A. PURPOSE: To evaluate peanut fungicide programs for efficacy and yield under nonirrigated conditions.

### 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:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 13 Jun, 27 Jun, 11 Jul, 25 Jul, 8 Aug, 22Aug, and 5 Sep. No cover sprays were applied.

### D. ADDITIONAL INFORMATION:

1. Location: Rigdon Farm, New Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated on 2 Jun.

4. Soil Fertility: pH - 6.4 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: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

7. Planting Info: Tifguard, 6 seed/ft (2" deep) 9 May.

8. Harvest Dates: Dug – 27 Sep Picked – 4 Oct

	FMC - AD	JUVANT PL	US - HELM	TEST, 2016			
	R	IGDON FAR	M, NEW F	IELD			
			TSWV <sup>1</sup>	Leaf Spot <sup>2</sup>	WM <sup>3</sup>	Yield	
Treatments	App's	RATE/A	19-Jun	21-Sep	9-Jan	lbA	
1. Nontreated			7.5	3.2	62.0	2849	
2. Bravo W'stik	1, 2, 4, 6, 7	1.5 pt	7.0	2.4	61.5	3107	
Topguard EQ	3 & 5	6.0 fl oz					
3. Bravo W'stik	1, 2, 4, 6, 7	1.5 pt	6.0	2.5	59.0	3074	
Topguard EQ	3 & 5	7.0 fl oz					
4. Bravo W'stik	1, 2, 4, 6, 7	1.5 pt	7.5	2.4	64.0	2927	
Topguard EQ	3 & 5	8.0 fl oz					
5. Bravo W'stik	1, 2, 4, 6, 7	1.5 pt	7.0	2.2	52.0	3199	
Alto	3 & 5	5.5 oz					
+ Abound		18 fl oz					
6. Bravo	1, 2, 7	1.5 pt	6.5	2.4	43.0	3794	
Helmstar Plus	3 - 6	13.0 fl oz					
7. Bravo	1, 2, 7	1.5 pt	8.0	2.1	39.5	3891	
Custodia	3 - 6	15.5 fl oz					
8. Bravo	1, 2, 7	1.5 pt	3.5	2.4	46.0	3266	
Provost	3 - 6	8.0 fl oz					
9. Bravo	1, 2, 7	1.5 pt	4.0	2.9	34.0	4026	
Artisan	3 - 6	26.0 fl oz					
10. Bravo	1 - 7	1.5 pt	4.5	2.6	52.0	3340	
11. Bravo	1 - 7	1.5 pt	5.0	2.3	48.5	3180	
+ 88-710		125 g					
12. Bravo	1 - 7	1.5 pt	4.5	2.6	51.5	2577	
+ ACM941		125 g					
13. ACM941	1 - 7	125 g	6.5	3.5	55.5	3026	
		-					
14. 88-710	1 - 7	125 g	3.5	3.2	69.0	2725	
LSD(P<0.05)			n.s.	0.4	14.1	686	

TSWV<sup>1</sup>=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot. Leaf<sup>2</sup> Spot=Florida scale of 1-10 where 1=no disease and 10=dead plant.

WM<sup>3</sup>=Percent of row feet infected based on stem rot loci (up to 12" linear row) per plot.

### EVALUATION OF FUNGICIDE PROGRAMS FOR THE CONTROL OF PEANUT SOILBORNE DISEASES (NICHINO TEST, 2016)

A. PURPOSE: To evaluate the efficacy of different programs for southern stem rot (white mold).

#### В. **EXPERIMENTAL DESIGN:**

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

#### APPLICATION OF TREATMENTS: C.

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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. No cover sprays were applied to this test. Treatments sprays were applied on 27 Jun, 11 Jul, 25 Jul, 8 Aug, 22 Aug and 5 Sep.

#### ADDITIONAL INFORMATION: D.

T = ==4:==.

1.	Location:	Lang Farm, New Field 11fton, GA 31/94
2.	Crop History:	Peanut – 2015, Peanut – 2014, Peanut – 2013
3.	Land Preparation:	Moldboard plowed and marked rows on 20 Apr. Gypsum broadcast (1200 lb/A) on 27 Jun.

Long Form Now Field Tiften CA 21704

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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5 pt/A) tank mix on 20 Apr. POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select

Max (16 fl oz/A) + Non Ionic Surfactant (0.25% v/v) on 27 Jul, Poast (1.4 pt/A) + Crop Oil (1 pt/A)

on 17 Aug.

- Insecticides: 6. Acephate 97 (0.7 lb/A) for thrips on 26 May and 27 Jul.
- 7. Planting Info: Tifguard, 6 seed/ft (2" deep) 9 May

8. Harvest Dates: Dug – 27 Sep Picked – 4 Oct

			NICHINO	TEST, 20	16			
			RIGDON FAI	RM, NEW	FIELD			
	Treatments	App's	RATE/A	TSWV <sup>1</sup> 19-Jun	Leaf Spot <sup>2</sup> 21-Sep	WM <sup>3</sup> 27-Sep	Yield lb/A	
1	Priaxor	2	8. 0 fl oz	5.0	21-3ep 2.6	34.0	4034	
1.	Alto 100	3 & 5	8. 0 fl oz	3.0	2.0	34.0	4034	
	+ Bravo	3 & 3	16.0 fl oz					
	Bravo	4, 6, & 7	24.0 fl oz					
	ыачо	4, 0, & 7	24.0 11 02					
2.	Priaxor	2	8. 0 fl oz	4.0	2.4	15.0	4278	
	Alto 100	3 & 5	8. 0 fl oz					
	+ Bravo		16.0 fl oz					
	+ Convoy		32.0 fl oz					
	Bravo	4, 6, & 7	24.0 fl oz					
3.	Priaxor	2	8.0 fl oz	5.5	2.7	5.0	4263	
	NNF-1680 SC	3 & 5	40.5 fl oz					
	Bravo	7	24.0 fl oz					
4.	Priaxor	2	8.0 fl oz	3.5	2.4	6.5	3836	
	NNF-1680 Sc	3 & 5	40.5 fl oz					
	Bravo	4, 6, & 7	24.0 fl oz					
5.	Priaxor	2	8.0 fl oz	6.5	2.6	12.5	4205	
	Alto 100	3 & 5	8.0 fl oz					
	+ Bravo		16.0 fl oz					
	+ Convoy		16.0 fl oz					
	Bravo	4 & 6	24.0 fl oz					
	+ Convoy		16.0 fl oz					
	Bravo	7	24.0 fl oz					
		_			_			
6.	Priaxor	2	8.0 fl oz	3.5	2.7	17.0	3711	
	Convoy	3 & 5	32.0 fl oz					
	+ Bravo		24.0 fl oz					
	Bravo	4, 6, & 7	24.0 fl oz					
7	Driavor	2	8.0 fl oz	E 0	2.7	0.0	4497	
7.	Priaxor			5.0	2.7	9.0	4437	
	Elatus	3 & 5	9.5 oz					
1 0	Bravo	4,7&7	24.0 fl oz	n c	n c	12 E	n s	
L	D (P<0.05)	<u> </u>		n.s.	n.s.	13.5	n.s.	

TSWV<sup>1</sup>=Percent of row feet infected based on disease loci (up to 12" of linear row) per plot. Leaf<sup>2</sup> Spot=Florida scale of 1-10 where 1=no disease and 10=dead plant.

WM<sup>3</sup>=Percent of row feet infected based on stem rot loci (up to 12" linear row) per plot.

# EVALUATION OF A CANOPY OPENER TO IMPROVE FUNGICIDE PENETRATION OF THE CANOPY AND CONTROL OF WHITE MOLD (CANOPY OPENER (DIRECTED SPRAY) TEST II, 2016)

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 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: Tifguard

### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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. Cover sprays of Bravo (24 oz/A) were applied on 17 Jun, 1 Jul, 15 Jul, 29 Jul, 12 Aug, 26 Aug, and 9 Sep. Applied spray treatments using a push-type CO<sub>2</sub> sprayer using 2 liter bottles and a 20 GPA broadcast boom with three TX-SS6 conejet nozzles per row at 40 PSI. The PVC Pipe running 4-6 inches above the soil and ahead of the spray tip served as a canopy opener. Applications were made on 26 Jul and 24 Aug.

### D. ADDITIONAL INFORMATION:

1. Location: Rigdon Farm, New Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 2 May.

7. Planting Info: Tifguard, planted 6 seed/ft (2" deep) on 9 May.

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

			RIGDON FA	RM, NEW	FIELD		
					WM <sup>1</sup>	Yield	
Treatments	App's	RATE/A	Nozzle	Boom	28-Sep	lb/A	
1. Convoy	3 & 5	24 fl oz	TX-SS6	B'cast	13.3	4242	
2. Priaxor	3 & 5	8.0 fl oz	TX-SS6	B'cast	27.3	4459	
3. Convoy	3 & 5	24 fl oz	TX-SS6	Directed	13.0	4270	
4. Priaxor	3 & 5	8.0 fl oz	TX-SS6	Directed	16.3	4420	
5. Convoy	3 & 5	24 fl oz	AI11006-VS	B'cast	16.7	4666	
6. Priaxor	3 & 5	8.0 fl oz	AI11006-VS	B'cast	33.7	4255	
7. Convoy	3 & 5	24 fl oz	AI11006-VS	Directed	13.3	4317	
8. Priaxor	3 & 5	8.0 fl oz	AI11006-VS	Directed	12.7	4758	
0. Noviloret 1					64.7	2070	
9. Nontreated					61.7	2978	
LSD(P<0.05)					11.4	663	

#### EVALUATION OF NEMATODE MANAGEMENT TEST, 2016

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

#### 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: GA-06G, Tif-NV-High O/L, and GA-14N

#### C. APPLICATION OF TREATMENTS:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 singles. Nimitz was applied in a 12" band just ahead of planting in 40 GPA with a single 80-10 nozzle per row.
- 2. Cover sprays of Bravo (24 oz/A) were applied on 17 Jun, 1 Jul and 9 Sep. Convoy (16 oz/A) on 15 Jul and 26 Jul. Provost (8 fl oz/A) on 12 Aug. Convoy (24 oz/A) on 9 Aug. The in furrow sprays were applied at planting on 5 May.

### D. ADDITIONAL INFORMATION:

1.	Location:	Rigdon Farm,	Cotton Field	Tifton.	GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 1 May.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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.

7. Planting Info: TifN/V-High O/L, GA-06G, and GA-14N, 6 seed/ft

(2" deep) on 5 May.

8. Harvest Dates: Dug – 26 Sep Picked – 30 Sep

				ENT TEST, FON FIELD				
			, , ,					
			Plan	ts/ft <sup>1</sup>		% Dead	Plants <sup>2</sup>	
<b>Cultivar and</b>								
Treatments	App's	Rate/A	19-May	26-May	19-May	26-May	2-Jun	9-Jun
GA-06G								
1. Nontreated			3.0	3.3	0.0	0.0	0.1	0.4
2. Velum Total	In Furrow	14.0 oz	3.2	3.5	0.0	0.0	0.0	0.0
3. Velum Total	In Furrow	18.0 oz	3.1	3.4	0.0	0.0	0.0	0.0
4. Nimitz 480	In Furrow	12.5 oz	2.6	3.0	0.0	0.0	0.7	1.1
5. Nimitz 480	Banding @pre-plant	12.5 oz	3.1	3.5	0.0	0.0	0.0	0.0
TIFN/V-High O/L								
6. Velum Total	In Furrow	18.0 oz	3.4	3.9	0.0	0.0	0.0	0.1
7. Nontreated			3.3	3.9	0.0	0.0	0.0	0.0
GA-14N								
8. Velum Total	In Furrow	18.0. oz	2.9	3.4	0.0	0.0	0.0	0.0
9. Nontreated			3.1	3.5	0.0	0.0	0.4	0.4
LSD (P<0.05)			0.3	0.3	n.s.	n.s.	0.5	0.5
1=All in furrow a	pplications applied in	n 3.4 GP <i>A</i>	A singles,	mixed in 2	2 L volume	•		
1Ctond oc :- :-	ho numbor of ore	مط مامید-	nor fort	of rows	10 14	md 2C N4-		
_	he number of emergo ed plants that was do				i 19 iviay, a	ina zo Ma	ay.	

		LANG	FARM, C	OTTON FI	ELD				
			Thrips <sup>3</sup>	TSWV <sup>4</sup>	Galling <sup>5</sup>	WM <sup>6</sup>	YIELD	Rootknot <sup>7</sup>	Ring <sup>8</sup>
Cultivar and				40.4	26.6	26.6	11. /4	42.6	42.5
Treatments	App's	Rate/A	2-Jun	10-Aug	26-Sep	26-Sep	lb/A	12-Sep	12-Sep
GA-06G									
1. Nontreated			4.3	4.9	61.4	53.4	1685	213	86
2. Velum Total	In Furrow	14.0 oz	1.4	8.6	30.7	55.4	2042	199	81
3. Velum Total	In Furrow	18.0 oz	1.3	4.9	32.9	49.7	1927	180	101
4. Nimitz 480	In Furrow	12.5 oz	3.7	3.7	38.6	40.6	2379	174	157
5. Nimitz 480	Banding @ pre-plant	12.5 oz	4.1	3.7	32.9	49.7	2260	167	37
TIFN/V-High O/L									
6. Velum Total	In Furrow	18.0 oz	1.1	2.9	0.7	44.9	4389	34	82
7. Nontreated			4.6	0.9	1.0	40.6	4188	20	46
GA-14N									
8. Velum Total	In Furrow	18.0. oz	1.3	7.4	0.0	22.0	4252	5	86
9. Nontreated			4.4	6.3	0.0	30.3	3749	4	71
LSD (P<0.05)			0.5	3.5	16.0	10.5	586	137	94
	a scale of 0-10 (0=no ir eaves injured and <5%								
	ed, 7=>50% leaves inju uds injured, 9=>50% lea								
	row feet infected base								
	ting of the percent of p						ot knot	nematode.	
	ow feet infected based				ear row) pe	r plot.			
Rootknot <sup>7</sup> =Numbe	er of M.arenarie juvenil	<i>les</i> per 10	0 cc of so	i.					

### EVALUATION OF FUNGICIDES FOR FOLIAR AND SOILBORN DISEASE CONTROL ON TIFGUARD (CERTIS TEST, 2016)

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 CO<sub>2</sub> 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. Belt-pack spray treatments were applied on 13 Jun, 27 Jun, 11 Jul, 25 Jul, 8 Aug, 22 Aug, and 5 Sep. No cover sprays were applied to this test.

#### D. ADDITIONAL INFORMATION:

1.	Location:	Rigdon Farm, Cotton Tifton, GA 31794

2. Crop History: Peanut -2015, Peanut -2014, Peanut -2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 2 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) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 20 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

7. Planting Info: Tifguard, 6 seed/ft (2" deep) 9 May.

8. Harvest Dates: Dug – 12 Oct Picked –16 Oct

	CEF	RTIS TEST, 201	.6					
RIGDON FARM, COTTON FIELD								
Tuestanouto	Anala	DATE	Leaf Spot <sup>1</sup>		WM <sup>3</sup>	Yield		
Treatments	App's	RATE	21-Sep	22-Aug	26-Sep	lb/A		
1. Bravo	1 - 7	1.5 pt	2.7	5.2	63.6	2866		
2. CX-10250	1 - 7	1.0 oz	4.3	8.4	61.6	2924		
3. CX-10250	1, 3, 5, 7	1.0 oz	3.8	8.0	64.0	2865		
Bravo	2, 4, 6	1.5 pt						
4. Nontreated			4.9	9.2	61.6	2926		
LSD(P<0.05)			0.3	n.s.	ns.	n.s.		
Leaf Spot <sup>1</sup> =Florida 1-10 sca	le where 1=no dis	ease and 10=	dead plant.					
TSWV <sup>2</sup> =Percent of row fee	t infected based or	n disease loci	(up to 12" li	near row)	per plot.			
WM <sup>3</sup> =Percent of row feet	nfected based on	disease loci (ı	up to 12" lin	ear row) p	er plot.			

### EVALUATION OF FUNGICIDE PROGRAMS FOR THE CONTROL OF PEANUT DISEASES UNDER IRRIGATION (SYNGENTA/DUPONT IRRIGATION TEST II, 2016)

A. PURPOSE: To evaluate experimental peanut fungicide programs in irrigated fields.

#### 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:

- 1. Equipment: Midseason spray treatments were applied with a CO<sub>2</sub> 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 21 DAP spray was applied broadcast over the row with a single 8003 nozzle in a spray volume of 20 GPA.
- 2. Treatment sprays 1-7 were applied on 13 Jun, 27 Jun, 11 Jul, 25 Jul, 8 Aug, 22 Aug and 5 Sep. The 1.5 treatment was applied on 20 Jun and the 4.5 treatment was applied on 1 Aug. The 21 DAP was applied on 26 May. No cover sprays were applied to this test.

#### D. ADDITIONAL INFORMATION:

1. Location: Rigdon Farm, Cotton Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Disc Harrow on 26 Mar. Moldboard plowed and

marked rows on 9 Apr. Gypsum broadcast (1000

lb/A) on 15 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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 20 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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 27

Jul.

7. Planting Info: Tifguard, 6 seed/ft (2" deep) 9 May

8. Harvest Dates: Dug – 12 Oct Picked – 16 Oct

SYNGENTA DUPONT IRRIGATED TEST II, 2016 TABLE RIGDON FARM, COTTON FIELD								
			Leaf Spot <sup>1</sup>	TSWV <sup>2</sup>	YIELD			
TREATMENTS	App's	RATE	21-Sep	22-Aug	WM <sup>3</sup> 26-Sep	lb/A		
1. Nontreated	7.1616-0	10112	3.9	9.5	45.5	3663		
			0.0					
2. Bravo W'stik	1, 2, 6, 7	1.5 pt	2.6	7.0	33.0	4668		
Fontelis	3 - 5	16.0 fl oz						
3. Bravo W'stik	1, 6, 7	1.5 pt	2.9	4.0	55.0	4026		
Provost	2 - 5	8.0 fl oz						
1. Priaxor	1.5	6.0 fl oz	2.3	6.5	40.0	4019		
Bravo W'stik	5 & 6	1.5 pt						
+ Orius 3.6F		7.2 fl oz						
Priaxor	4	8.0 fl oz						
Bravo W'stik	3 & 7	1.5 pt						
5. Elatus 45WG	1, 3 & 5	7.3 oz	2.5	4.5	16.0	4658		
Bravo W'stik	2, 4, 6, & 7	1.5 pt						
5. Alto	1 & 6	5.5 fl oz	2.4	6.0	23.5	5313		
+ Bravo		1.0 pt						
Bravo	2, 4, & 7	1.5 pt						
Elatus 45WG	3 & 5	9.5 oz						
7. Alto	1 & 6	5.5 fl oz	2.4	6.0	23.5	5327		
+ Bravo		1.0 pt						
Bravo	2 & 7	1.5 pt						
Elatus 45WG	3 & 4.5	9.5 oz						
8. Elatus 45WG	21 DAP B'cast & 3	9.5 oz	2.3	3.0	11.0	5473		
Alto	1.5	5.5 fl oz						
+ Bravo		1.5 pt						
Bravo W'stik	4 - 7	1.5 pt						
		·						
9. Alto	1 & 7	5.5 fl oz	2.9	7.0	26.5	5311		
+ Bravo		1.0 pt						
Elatus 45WG	3 & 5	9.5 oz						
+ A19649		3.42 fl oz						
LO. Alto	1.5	5.5 fl oz	2.9	2.5	20.5	5250		
+ Bravo	1.5	1.5 pt	2.3	2.5		3230		
Elatus 45WG	3 & 4.5	9.5 oz						
+ A19649	3 4	3.42 fl oz						
Bravo W'stik	6 & 7	1.5 pt						
Continued on next pa		5 ρι						

TREATMENTS         App's         RATE           11. Elatus 45WG         1 & 5         7.3 oz           A19649         3.42 fl oz           Bravo W'stik         2, 4, 6 & 7         1.5 pt           Elatus 45WG         3         7.3 oz           12. Alto         1         5.5 fl oz           + Bravo         2 & 7         1.5 pt           Bravo         2 & 7         1.5 pt           Elatus 45WG         3 & 5         9.5 oz           + A19649         3.42 fl oz           13. Aproach 2.08         1 & 2         5.5 fl oz           + Alto         5.5 fl oz         0.25%           Fontelis         3 - 5         16.0 fl oz           Bravo W'stik         6 & 7         1.5 pt           14. Aproach Prima         1 & 2         6.8 fl oz           + Induce         0.25%           Fontelis         3 - 5         16.0 fl oz           Bravo W'stik         6 & 7         1.5 pt	21-Sep 2.4 2.8	TSWV <sup>2</sup> 22-Aug 2.0 3.5	WM <sup>3</sup> 26-Sep 17.5	YIELD Ib/A 4660
TREATMENTS         App's         RATE           11. Elatus 45WG         1 & 5         7.3 oz           A19649         3.42 fl oz           Bravo W'stik         2, 4, 6 & 7         1.5 pt           Elatus 45WG         3         7.3 oz           12. Alto         1         5.5 fl oz           + Bravo         1.5 pt         1.5 pt           Bravo         2 & 7         1.5 pt           Elatus 45WG         3 & 5         9.5 oz           + A19649         3.42 fl oz           13. Aproach 2.08         1 & 2         5.5 fl oz           + Alto         5.5 fl oz         5.5 fl oz           + Alto         0.25%         16.0 fl oz           Bravo W'stik         6 & 7         1.5 pt           14. Aproach Prima         1 & 2         6.8 fl oz           + Induce         0.25%           Fontelis         3 - 5         16.0 fl oz	<b>21-Sep</b> 2.4	22-Aug 2.0	26-Sep	lb/A
11. Elatus 45WG	2.4	2.0		
A19649       3.42 fl oz         Bravo W'stik       2, 4, 6 & 7       1.5 pt         Elatus 45WG       3       7.3 oz         12. Alto       1       5.5 fl oz         + Bravo       1.5 pt       1.5 pt         Bravo       2 & 7       1.5 pt         Elatus 45WG       3 & 5       9.5 oz         + A19649       3.42 fl oz         13. Aproach 2.08       1 & 2       5.5 fl oz         + Alto       5.5 fl oz       0.25%         Fontelis       3 - 5       16.0 fl oz         Bravo W'stik       6 & 7       1.5 pt         14. Aproach Prima       1 & 2       6.8 fl oz         + Induce       0.25%         Fontelis       3 - 5       16.0 fl oz			17.5	4660
Bravo W'stik       2, 4, 6 & 7       1.5 pt         Elatus 45WG       3       7.3 oz         12. Alto       1       5.5 fl oz         + Bravo       1.5 pt       1.5 pt         Bravo       2 & 7       1.5 pt         Elatus 45WG       3 & 5       9.5 oz         + A19649       3.42 fl oz         13. Aproach 2.08       1 & 2       5.5 fl oz         + Alto       5.5 fl oz         - Induce       0.25%         Fontelis       3 - 5       16.0 fl oz         14. Aproach Prima       1 & 2       6.8 fl oz         + Induce       0.25%         Fontelis       3 - 5       16.0 fl oz	2.8	2 5		
Elatus 45WG       3       7.3 oz         12. Alto       1       5.5 fl oz         + Bravo       1.5 pt         Bravo       2 & 7       1.5 pt         Elatus 45WG       3 & 5       9.5 oz         + A19649       3.42 fl oz         13. Aproach 2.08       1 & 2       5.5 fl oz         + Alto       5.5 fl oz       0.25%         Fontelis       3 - 5       16.0 fl oz         Bravo W'stik       6 & 7       1.5 pt         14. Aproach Prima       1 & 2       6.8 fl oz         + Induce       0.25%         Fontelis       3 - 5       16.0 fl oz	2.8	2 5		
12. Alto	2.8	2 5		
+ Bravo       1.5 pt         Bravo       2 & 7         Elatus 45WG       3 & 5         + A19649       3.42 fl oz         13. Aproach 2.08       1 & 2         + Alto       5.5 fl oz         + Induce       0.25%         Fontelis       3 - 5         Bravo W'stik       6 & 7         14. Aproach Prima       1 & 2         + Induce       0.25%         Fontelis       3 - 5         16.0 fl oz	2.8	2 5		
+ Bravo       1.5 pt         Bravo       2 & 7         Elatus 45WG       3 & 5         + A19649       3.42 fl oz         13. Aproach 2.08       1 & 2         + Alto       5.5 fl oz         + Induce       0.25%         Fontelis       3 - 5         Bravo W'stik       6 & 7         14. Aproach Prima       1 & 2         + Induce       0.25%         Fontelis       3 - 5         16.0 fl oz	2.8	2 5		
Bravo       2 & 7       1.5 pt         Elatus 45WG       3 & 5       9.5 oz         + A19649       3.42 fl oz         13. Aproach 2.08       1 & 2       5.5 fl oz         + Alto       5.5 fl oz         + Induce       0.25%         Fontelis       3 - 5       16.0 fl oz         Bravo W'stik       6 & 7       1.5 pt         14. Aproach Prima       1 & 2       6.8 fl oz         + Induce       0.25%         Fontelis       3 - 5       16.0 fl oz		3.3	18.5	4668
Elatus 45WG 3 & 5 9.5 oz 3.42 fl oz 3.42 fl oz 3.42 fl oz 4.13. Aproach 2.08 1 & 2 5.5 fl oz 5.5 fl oz 5.5 fl oz 6.25% 5.5 fl oz 6.25% 5.5 fl oz 6.8 fl oz 6				
+ A19649  3.42 fl oz  13. Aproach 2.08				
13. Aproach 2.08				
+ Alto 5.5 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz Bravo W'stik 6 & 7 1.5 pt  14. Aproach Prima 1 & 2 6.8 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz				
+ Alto 5.5 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz Bravo W'stik 6 & 7 1.5 pt  14. Aproach Prima 1 & 2 6.8 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz	2.8	6.5	23.5	4887
+ Induce       0.25%         Fontelis       3 - 5       16.0 fl oz         Bravo W'stik       6 & 7       1.5 pt         14. Aproach Prima       1 & 2       6.8 fl oz         + Induce       0.25%         Fontelis       3 - 5       16.0 fl oz	_			
Fontelis 3 - 5 16.0 fl oz Bravo W'stik 6 & 7 1.5 pt  14. Aproach Prima 1 & 2 6.8 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz				
Bravo W'stik 6 & 7 1.5 pt  14. Aproach Prima 1 & 2 6.8 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz				
14. Aproach Prima 1 & 2 6.8 fl oz + Induce 0.25% Fontelis 3 - 5 16.0 fl oz				
+ Induce 0.25% Fontelis 3 - 5 16.0 fl oz				
Fontelis 3 - 5 16.0 fl oz	2.7	4.5	31.0	4962
Bravo W'stik 6 & 7 1.5 pt				
15. Priaxor 1 & 2 4.0 fl oz	2.3	4.0	12.5	5104
+ Induce 0.25%				
Elatus 45WG 3 - 5 7.3 oz				
Bravo W'stik 6 & 7 1.5 pt				
16. Priaxor 1 & 2 4.0 fl oz	2.6	4.5	17.5	4885
+ Induce 0.25%	2.0	5	27.0	.003
Elatus 45WG 3 & 5 9.5 oz				
Bravo 4 1.0 pt				
+ Alto 1.5 fl oz				
Bravo W'stik 6 & 7 1.5 pt				
υ ανο νν στικ υ α / 1.3 μτ	0.5	5.1	11.5	1241
	0.5	J. 1	11.3	1241
Leaf <sup>1</sup> Spot=Florida scale of 1-10 where 1=no disease and 1	LO=dead pla	nt.		
TSWV <sup>2</sup> =Percent of row feet infected based on disease loci			) per plot.	

# EVALUATION OF VARIOUS FUNGICIDE PROGRAMS FOR THE CONTROL OF PEANUT WHITE MOLD WHEN APPLIED VIA CHEMIGATION AND GROUND SPRAYS (CHEMIGATION TEST I, 2016)

A. PURPOSE: To evaluate peanut fungicide programs for control of white mold when applied conventionally or chemigated.

#### 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 CO<sub>2</sub> 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 were applied on 11 Jul, 25 Jul, and Aug. Cover sprays of Bravo (24 oz/A) were applied on 17 Jun, 1 Jul, 15 Jul, 29 Jul, 12 Aug, 26, and 9 Sep.

#### D. ADDITIONAL INFORMATION:

1. Location: Rigdon Farm, Cotton Field Tifton, GA 31794

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 20 Apr.

Gypsum broadcast (1200 lb/A) on 27 Jun.

Cultivated 1 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: Sonalan (2 pt/A) 4 inches + Dual Magnum (1.5

pt/A) tank mix on 21 Apr.

POST: 24D-B (1.75 @ 17 fl oz/A) on 22 Jul, Select Max (16 fl oz/A) + 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.

7. Planting Info: Tifguard, 6 seed/ft (2" deep) 9 May

8. Harvest Dates: Dug – 26 Sep Picked – 30- Sep

		CHEMIGATION	TEST I, 2016			
		LANG FARM, CO	OTTON FIELD			
				TSWV <sup>1</sup>	WM <sup>2</sup>	YIELD
TREATMENTS	App's	Method	RATE	18-Aug	26-Sep	lb/A
1. Untreated				0.4	29.2	3494
2. Convoy	3 - 5	Ground	21.0 fl oz	5.6	21.6	4370
3. Convoy	3 - 5	Chemigation**	21. 0 fl oz	4.8	16.4	4206
4. Elatus 45WG	3 - 5	Ground	7.14 oz	6.0	9.2	5372
5. Elatus 45WG	3 - 5	Chemigation**	7.14 oz	3.2	7.4	5589
6. Evito	3 - 5	Ground	5.7 fl oz	5.6	16.2	4372
7. Evito	3 - 5	Chemigation**	5.7 fl oz	5.2	13.4	4873
8. Priaxor	3 - 5	Ground	8.0 fl oz	4.0	19.4	4720
9. Priaxor	3 - 5	Chemigation**	8.0 fl oz	12.0	7.8	5144
10. Fontelis	3 - 5	Ground	16.0 fl oz	4.8	10.2	4843
11. Fontelis	3 - 5	Chemigation**	16.0 fl oz	5.6	9.0	5012
LSD (P<0.05)				4.9	4.9	895
_		nfected based on o				
WM <sup>2</sup> =Percent of	row feet inf	ected based on di	sease loci (u	p to 12" lir	near row) p	er plot.
Ground enrage ar	nlied in 20	GPA and chemigate	tion in 0.10 i	nch of wat	or	

			NFALL AND				
		RIGDO	ON FARM, (	COTTON FI	ELD		
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1		0.6					
2					0.2	4.9	
3		0.2			1.1	0.4	
4	0.2	0.3			0.8		
6			0.8				
7			1.9				
8					0.8		
9					0.2		
14					0.6	0.4	
15	1.2						
16			0.3				
17				2.3			
18		1.5					
19							
20		0.1	0.4				
21					0.5		
24				0.1			
29			0.3				
30			0.1				
31					0.2		
TOTAL	1.4	2.9	3.8	2.4	4.4	5.7	0.0
IRRIGAT	ION						
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
7				0.6			
15				0.4			
24			0.3				
29			0.3	0.5			
TOTAL	0.0	0.0	0.6	1.5	0.0	0.0	0.0
RAIN & IRR	1.4	2.9	4.4	3.9	4.4	5.7	0.0

# EVALUATION OF PEANUT GENOTYPES FOR RESISTANCE TO PEANUT ROOT KNOT NEMATODE, (Bill Branch Genotype Evaluation Test I, 2016)

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: Midseason spray treatments were applied with a CO<sub>2</sub> 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. Spray Treatments of Priaxor (8 oz/A) was applied on 16 Jun, and 27 Jun. Cover spray of Provost (10 oz/A) was applied on 7 Jul, 19 Jul and 2 Aug. Custodia (15.5 oz/A) was applied on 16 Aug. Bravo (1.5 pt/A) was applied on 29 Aug.

#### D. ADDITIONAL INFORMATION:

1. Location: Attapulgus Research & Education Center,

Attapulgus, GA

2. Crop History: Peanut – 2015, Peanut – 2014, Peanut – 2013

3. Land Preparation: Moldboard plowed and marked rows on 5 May.

Manganese (2 qt/A) on 31 Aug.

4. Soil Fertility: pH - 6.0 P - 25 K - 40 Ca - 309 Mg - 48

Soil type: Norfolk loamy sand

5. Herbicides: PPI: Prowl (1qt/A) on 18 May Valor (3 oz/A) on 18

May, Strongarm (0.45 oz/A) on 18 May, Roundup (1 qt/A) on 18 May. Boron (1 qt/A) was applied on 27 Jun. Manganese (1.5 qt/A) was applied on 7 Jul

and 19 Jul.

POST: Select (12 oz/A) on 25 Jul, and Select (16

oz/A) on 17 Aug.

6. Insecticides: Intrepid Edge (8 oz/A) on 2 Aug.

7. Planting Info: Different varieties, 6 seed/ft (2" deep) 17 May

8. Harvest Dates: Dug – 11 Oct Picked – 18 Oct

BILL BRANCH GENOTYPE EVALUATION TEST I, 2016								
			ATTAPUI	LGUS, GA, NEW	FIELD			
VARIETIES	Amm's	Data	TSWV <sup>1</sup> 9-Sep	GallingPods <sup>2</sup>	Yield lb/A	Galling Roots <sup>2</sup>		Ring <sup>4</sup>
1. GA-07W	App's	Rate	2.0	26.2	3968	38.0	<b>9-Sep</b> 653	<b>9-Sep</b> 23
1. GA 07 W			2.0	20.2	3300	30.0	033	23
2. GA-152701			1.6	18.2	5431	22.5	493	55
3. GA-152702			4.8	22.6	5181	44.0	325	31
4. GA-152703			0.8	0.0	5471	0.4	18	54
5. GA-152704			2.4	17.2	4739	35.0	354	26
6. GA-152705			1.2	5.6	4681	11.0	163	20
7. GA-152706			1.6	14.4	4235	27.0	536	38
8. GA-152707			0.8	11.2	4226	19.0	532	61
9. GA-152708			1.2	10.4	4211	19.0	553	43
10. GA-152709			0.0	14.2	3996	30.0	291	30
LSD(P<0.05)			2.2	12.5	796	16.2	380	39
TSWV <sup>1</sup> =Percent of ro	w feet infect	ed based on	disease loci (	up to 12" of linear	row) per plo	ot.		
Galling <sup>2</sup> =Visual rating	of the perce	nt of pods an	d roots (1-10	00) with visible dam	age from ro	ootknot nematodes		
Roots=The % of roots								
Rootknot <sup>3</sup> =Number o		-		oil.				
Ring <sup>4</sup> =Population of r	ing nematod	es per 100 cc	of soil.					

# EVALUATION OF PEANUT GENOTYPES FOR RESISTANCE TO PEANUT ROOT KNOT NEMATODE, (Bill Branch Genotype Evaluation Test II, 2016)

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.
- 2. Cover sprays of Priazor (8 oz/A) was applied on 16 Jun and 27 Jun, Provost (10 pt/A) was applied on 7 Jul, 19 Jul and 2 Aug. Custodia (15.5 oz/A) was applied on 16 Aug. Bravo (1.5 pt/A) was applied on 29 Aug.

#### D. ADDITIONAL INFORMATION:

1.	Location:	Attapulgus Research & Education Center,
		Attapulgus, GA

- 2. Crop History: Peanut 2015, Peanut 2014, Peanut 2013
- 3. Land Preparation: Moldboard plowed and marked rows on 5 May. 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.
- 4. Soil Fertility: pH-6.0 P-25 K-40 Ca-309 Mg-48 Soil type: Norfolk loamy sand
- 5. Herbicides: PPI: Prowl (1qt/A) on 18 May Valor (3 oz/A) on 18

May, Strongarm (0.45 oz/A) on 18 May, Roundup (1 qt/A) on 18 May. Boron (1 qt/A) was applied on 27 Jun. Manganese (1.5 qt/A) was applied on 7 Jul

and 19 Jul.

POST: Select (12 oz/A) on 25 Jul, and Select (16

oz/A) on 17 Aug

POST: Select (12 oz/A) on 25 Jul, and Select (160

oz/A) on 17 Aug.

6. Insecticides: Intrepid Edge (8 oz/A) on 2 Aug.

7. Planting Info: Different varieties, 6 seed/ft (2" deep) 17 May

8. Harvest Dates: Dug – 18 Oct Picked – 25 Oct

В	BILL BRANCH GENOTYPE EVALUATION TEST II, 2016										
	ATT	APULGUS,	GA, Tubb's	Old FIELD							
	4	Galling	Galling		2	4					
	TSWV <sup>1</sup>	Roots <sup>2</sup>	Pods <sup>2</sup>	Yield	Rootknot <sup>3</sup>	Ring <sup>4</sup>					
VARIETIES	9-Sep	6-Oct	6-Oct	lb/A	9-Sep	9-Sep					
1. GA-07W	2.8	79.0	70.0	2051	885	57					
2. GA-122706	6.0	85.0	64.0	2754	597	59					
3. GA-152507	2.0	92.0	60.0	2270	437	76					
4. GA-152511	4.4	0.6	0.6	5766	3	72					
5. GA-152512	1.2	75.0	70.0	2977	797	92					
6 64 450546	4.0	76.0	76.0	2524	750						
6. GA-152516	4.8	76.0	76.0	2521	758	59					
7 64 152517	0.4	Γ0.0	CE O	2046	021	0.					
7. GA-152517	0.4	58.0	65.0	3046	831	85					
8. GA-152518	4.8	79.0	73.0	2399	856	74					
6. GA-132316	4.0	79.0	73.0	2333	630	74					
9. GA-152519	0.8	43.0	37.0	3564	537	98					
J. GA 132313	0.0	43.0	37.0	3304	337	- 50					
10. GA-152520	1.2	67.6	48.0	3208	686	55					
LSD(P<0.05)	3.9	25.2	23.3	1259	342	n.s.					
		-			-						
TSWV <sup>1</sup> =Percent c	of row feet i	nfected bas	sed on disea	se loci (up	to 12" of linea	ar row) per	plot.				
Galling <sup>2</sup> =Visual ra								t nematodes.			
Root Knot <sup>3</sup> =Num		•	•			<u> </u>					
Ring <sup>4</sup> =Population											
opaiatioi	.5 51 11116 110	atouc pc	. 100 0111 0	3311.							

			INFALL ANI ulgus FARN				
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	4.3					1.0	
2	1.0	0.8				1.4	
3		0.5				=	
4		0.5				0.3	
5			0.1		1.8	0.0	
6	0.2		5.3		1.0		
7	0.2		3.3		0.1		
9					0.1		
10					0.4		
11				0.4	0.9	2.0	
12				0.4	0.3	2.0	
	0.0			0.2	0.3	0.4	
13	0.8			1.0		0.1	
14	0.3			1.6			2.4
15			0.2	0.6			2.1
16			0.3	0.1			0.1
17		0.2		0.9	0.1		
18		0.6		0.2	0.3	0.4	
19		0.1			_	0.4	
20		0.9			0.8		
21				0.1	0.1		
22				0.5			
25	0.2						
26			0.1	0.1			
27	0.2						
28	0.1						
29			0.1		0.1		
31			0.1	0.8			
Total	7.0	3.0	5.9	5.6	4.9	5.5	2.2
IRRIGA	ATION						
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1				0.5	0.5		
2			0.5				
4							0.5
5	0.5						
6		0.5				0.5	
7		0.5		0.5			0.5
10		0.5		Λ.Γ			0.5
11 12		0.5		0.5			
		0.5	0.5			A F	
13			0.5			0.5	
17		0.5	0.5				
18		0.5					
22						0.5	
77			0.5				
23				0.5	0.5		
25							
25 26		0.5					
25 26 28	0.5	0.5 0.5				2 -	
25 26 28 29	0.5				0.5	0.5	
25 26 28	0.5		2.0	2.0	0.5 1.5	0.5	1.0

## EVALUATION OF VARIOUS FUNGICIDES FOR SCAB CONTROL ON WICHITA PECAN NORTH ORCHARD (PECAN FUNGICIDE TEST, 2016)

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 13 Apr, 26 Apr, 10 May, 24 May, 7 Jun, 21 Jun, 5 Jul, 19 Jul, 2 Aug, and 16 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 - 44Soil 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 30 Aug.

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 from each tree to

determine yield and quality.

E: Summary:

		PONDER	FARM, WIG	CHITA, NOR	TH ORCH	ARD			
			Leaf Inc.1	Leaf Sev. <sup>2</sup>	NI	N <sup>3</sup>	NS	EV <sup>4</sup>	Neofusicoccum
Treatments	Rate/A	App's	26-Jul	26-Jul	26-Jul	19-Sep	26-Jul	19-Sep	22-Sep
1. EXP 1	3.0 fl oz	2, 4, 6, 8, 10	15.0	1.3	54.4	91.7	2.8	22.1	2.3
+ Latron B-1956	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
2. EXP 1	5.0 fl oz	2, 4, 6, 8, 10	18.5	1.6	51.7	89.1	2.1	16.0	2.8
+ Latron B-1956	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
3. EXP 2	7.0 fl oz	2, 4, 6, 8, 10	26.4	2.0	60.7	96.9	3.1	25.9	3.5
+ Latron B-1956	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
4. EXP 3	5.0 fl oz	2, 4, 6, 8, 10	18.2	1.7	69.0	92.2	3.5	22.0	3.3
+ Latron B-1956		. , , .							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
5. EXP 3	8.5 fl oz	2, 4, 6, 8, 10	16.0	1.5	46.1	84.0	1.8	13.0	1.3
+ Latron B-1956		. , , .							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz	, , , , , ,							
	-		_		_				
6. Merivon	5.5 fl oz	2, 4, 6, 8, 10	18.7	1.6	75.0	100.0	5.3	51.3	3.3
+ Latron B-1956	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
7. Quadris Top	14.0 fl oz	2, 4, 6, 8, 10	14.3	1.2	58.9	89.1	3.2	12.7	1.3
+ Remain	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
8. EXP 4	11.0 fl oz	2, 4, 6, 8, 10	22.1	2.1	83.6	88.5	4.6	24.8	4.5
+ Remain	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								

				ICIDE TEST,					
		PONDER		HITA, NOR		ARD			
			Leaf Inc.1	Leaf Sev. <sup>2</sup>	NI	N <sup>3</sup>	NS	EV <sup>4</sup>	Neofusicoccum <sup>5</sup>
Treatments	Rate/A	App's	26-Jul	26-Jul	26-Jul	19-Sep	26-Jul	19-Sep	22-Sep
9. EXP 4	13.7 fl oz	2, 4, 6, 8, 10	21.0	2.1	71.2	78.4	4.4	13.8	2.8
+ Remain	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
10. ExP 5	5.13 fl oz	2, 4, 6, 8, 10	17.2	1.6	67.5	94.3	3.4	21.6	2.3
+ Remain	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
11. Aprovia Top	10.6 fl oz	2, 4, 6, 8, 10	28.4	3.2	54.4	80.2	2.8	24.5	3.8
+ Remain	8.0 fl oz								
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
12. Super Tin 4L	6.0 fl ox	1, 3, 5, 7, 9	31.2	3.2	90.0	98.4	8.6	41.1	6.0
+ Elast 400F	25.0 fl oz								
13. Super Tin 4L	6.0 fl oz	1 - 10	42.0	4.5	87.2	100.0	11.3	44.8	7.5
+ Elast 400F	25.0 fl oz								
14. Nontreated			68.0	6.8	100.0	97.3	45.2	99.3	14.3
LSD(P<0.05	)		9.5	1.0	18.1	12.6	4.1	10.3	3.8

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

Leaf Sev.<sup>2</sup>=Leaf scab severity, based o 8 terminals per tree (% of leaflets covered with scab).

NIN<sup>3</sup>=Nut scab incidence, based on ratings of 8 nut clusters per tree (% of nuts with any scab).

NSEV<sup>4</sup>=Nut scab severity, based on ratings of 8 nuts clusters per tree (% of schuck area covered with scab).

Neofusicoccum<sup>5</sup>=Visual estimate of the % of terminals on the tree with symptomatic leaves.

### EVALUATION OF VARIOUS FUNGICIDES FOR SCAB CONTROL ON DESIRABLE PECAN NORTH ORCHARD (PECAN FUNGICIDE TEST, 2016)

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.

#### В. **EXPERIMENTAL DESIGN:**

- 1. Randomized complete blocks with four replicates.
- Each replication consisted of single-tree treatments. 2.
- 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.

#### **APPLICATION OF TREATMENTS:** C.

- 1. Equipment: All spray treatments were applied with a Durand Wayland PTOdriven 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 13 Apr, 26 Apr, 10 May, 24 May, 7 Jun, 21 Jun, 5 Jul, 19 Jul, 2 Aug, and 16 Aug.

#### ADDITIONAL INFORMATION: D.

1. Location: Ponder Farm, CPES Tifton, GA 31794

2. Soil Fertility: pH - 6.0K - 71 Ca - 810Mg - 44P - 65Soil type: Tifton loamy sand, 2-5 % slope

3. Herbicides: Roundup (2 qt/A) and Alion (10 oz/A) on 21 and

Paraquait (8 oz/A) on 16 Jun.

Insecticides: 4. Dimilin 2L (12 oz/A) on 30Aug

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.

E: Summary:

	D	PECAN FUNG PONDER FARM,			RCHARD			
	<b>-</b>	CHELIT I AIMVI,		Leaf Sev. <sup>2</sup>		IIN <sup>3</sup>	NSI	EV <sup>4</sup>
Treatments	Rate/A	App's	26-Jul	26-Jul	26-Jul	19-Sep	26-Jul	19-Sep
1. EXP 1	3.0 fl oz	2, 4, 6, 8, 10	7.3	0.8	29.9	96.9	1.3	31.4
+ Latron B-1956	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
2. EXP 1	5.0 fl oz	2, 4, 6, 8, 10	13.4	1.2	30.7	83.1	1.1	11.3
+ Latron B-1956	8.0 fl oz	. ,						
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz	, , , .						
3. EXP 2	7.0 fl oz	2, 4, 6, 8, 10	9.9	1.3	25.0	96.9	0.8	22.8
+ Latron B-1956	8.0 fl oz	, , -, -, -						
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz	_, _, _, _, _						
4. EXP 3	5.0 fl oz	2, 4, 6, 8, 10	9.8	1.2	26.6	96.9	0.8	21.6
+ Latron B-1956	8. fl oz	2, 4, 0, 0, 10	5.6	1.2	20.0	50.5	0.0	21.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz	1, 3, 3, 7, 3						
5. EXP 3	8.5 fl oz	2, 4, 6, 8, 10	9.6	1.1	14.8	84.4	0.6	11.0
+ Latron B-1956	8.0 fl oz	2, 4, 0, 8, 10	9.0	1.1	14.0	04.4	0.0	11.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz	1, 3, 3, 7, 9						
	O	2.4.6.0.40	7.0		24.4	100.0	0.7	
6. Merivon	5.5 fl oz	2, 4, 6, 8, 10	7.3	0.8	21.4	100.0	0.7	52.7
+ Latron B-1956	8.0 fl oz	4 2 5 7 2						
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
7. Quadris Top	14.0 fl oz	2, 4, 6, 8, 10	7.6	0.5	27.1	72.4	0.7	16.1
+ Remain	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
8. EXP 4	11.0 fl oz	2, 4, 6, 8, 10	10.6	1.1	30.2	96.9	1.1	18.4
+ Remain	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							

				TEST, 2016				
	P	ONDER FARM,		Leaf Sev.2		IIN <sup>3</sup>	NC	EV <sup>4</sup>
Trootmonts	Doto /A	Ammia						
Treatments	Rate/A	App's	26-Jul	26-Jul	26-Jul	19-Sep	26-Jul	19-Sep
9. EXP 4	13.7 fl oz	2, 4, 6, 8, 10	8.1	0.8	17.7	92.2	0.4	21.5
+ Remain	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
10. ExP 5	5.13 fl oz	2, 4, 6, 8, 10	9.6	1.3	29.7	86.5	1.0	14.3
+ Remain	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
11. Aprovia Top	10.6 fl oz	2, 4, 6, 8, 10	10.2	1.1	21.9	78.1	0.8	17.5
+ Remain	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
12. Super Tin 4L	6.0 fl ox	1, 3, 5, 7, 9	13.4	1.2	49.2	96.9	1.8	29.9
+ Elast 400F	25.0 fl oz							
13. Super Tin 4L	6.0 fl oz	1 - 10	8.3	0.8	40.1	96.9	1.1	36.2
+ Elast 400F	25.0 fl oz							
14. Nontreated			24.0	2.8	84.4	100.0	6.0	86.9
LSD(P<0.05	)		5.7	0.7	18.9	12.8	1.0	9.2

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

Leaf Sev. <sup>2</sup>=Leaf scab severity, based o 8 terminals per tree (% of leaflets covered with scab).

NIN<sup>3</sup>=Nut scab incidence, based on ratings of 8 nut clusters per tree (% of nuts with any scab).

NSEV<sup>4</sup>=Nut scab severity, based on ratings of 8 nuts clusters per tree (% of schuck area covered with scab).

### EVALUATION OF VARIOUS FUNGICIDES FOR SCAB CONTROL ON DESIRABLE PECAN SOUTH ORCHARD (PECAN FUNGICIDE TEST II, 2016)

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 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 13 Apr, 26 Apr, 10 May, 24 May, 7 Jun, 21 Jun, 5 Jul, 19 Jul, 2 Aug, and 16 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 - 44Soil type: Tifton loamy sand, 2 - 5% slope

3. Herbicides: Roundup (2 qt/A) and Alion (10 oz/A) on 21 and

Paraquait (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: Desirable Trees were shaken with a Savage Model

2138 PTO-driven trunk shaker on 9 Nov. A 50 nut sample was collected from each tree on 10 Nov to

determine yield and quality.

### E: Summary:

	PONI	PECAN FUNGI DER FARM, DESI		•	ARD				
	_	, -		Leaf Sev. <sup>2</sup>		Inc. <sup>3</sup>	Nut Sev <sup>4</sup>		
Treatments	Rate/A	App's	26-Jul	26-Jul		20-Sep	26-Jul	20-Sep	
1. Rampart	96.0 fl oz	2, 4, 6, 8, 10	16.5	1.7	51.3	86.3	2.3	9.2	
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
2. KFD-86-02	6.0 lb	2, 4, 6, 8, 10	15.9	1.3	31.7	82.5	1.6	6.5	
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
3. KFD-86-02	3.0 lb	2, 4, 6, 8, 10	16.3	1.5	32.5	80.8	2.2	10.5	
+ 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. Ziram	3.0 lb	2, 4, 6, 8, 10	16.4	2.1	61.3	95.0	2.9	13.1	
+ 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	14.5	1.6	48.8	93.8	2.3	23.0	
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	14.5	1.0	40.0	33.0	2.5	25.0	
+ Elast 400F	25.0 fl oz	1, 3, 3, 7, 3							
6. SA-0040309	20.0 fl oz	2, 4, 6, 8, 10	16.4	1.8	52.1	86.3	2.3	13.1	
Super Tin 4L	6.0 fl oz		10.4	1.0	32.1	80.3	2.3	13.1	
+ Elast 400F	25.0 fl oz	1, 3, 5, 7, 9							
+ Liast 400F	23.0 11 02								
7. Andiamo	8.0 fl oz	2, 4, 6, 8, 10	17.6	1.7	70.4	97.5	4.4	16.1	
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
8. Andiamo Duo	36.0 fl oz	2, 4, 6, 8, 10	11.5	1.6	36.9	83.8	1.5	9.7	
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								
9. Quadris Top	14.0 fl oz	2, 4, 6, 8, 10	13.3	1.4	35.0	71.3	1.4	6.8	
+ Induce	0.06% v/v	, , -, -, -							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz	, -, -, , -							
10. Ph-D 11.3 WG	6.2 oz	2, 4, 6, 8, 10	14.9	1.8	53.8	95.0	2.8	16.2	
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz	, , -, , -							
11. Ph-D 11.3 WG	6.2 oz	2, 4, 6, 8, 10	21.6	2.6	52.5	92.5	4.2	15.8	
+ Orius 3.6F	8.0 fl oz	, , , -, -	-		<u> </u>				
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9							
+ Elast 400F	25.0 fl oz								

	PONI	PECAN FUNG DER FARM, DESI		-	RD			
			-	Leaf Sev. <sup>2</sup>		Inc. <sup>3</sup>	Nut	Sev <sup>4</sup>
Treatments	Rate/A	App's	26-Jul	26-Jul	26-Jul	20-Sep	26-Jul	20-Sep
1. Rampart	96.0 fl oz	2, 4, 6, 8, 10	16.5	1.7	51.3	86.3	2.3	9.2
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
2. KFD-86-02	6.0 lb	2, 4, 6, 8, 10	15.9	1.3	31.7	82.5	1.6	6.5
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
3. KFD-86-02	3.0 lb	2, 4, 6, 8, 10	16.3	1.5	32.5	80.8	2.2	10.5
+ 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. Ziram	3.0 lb	2, 4, 6, 8, 10	16.4	2.1	61.3	95.0	2.9	13.1
+ 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. Monerva Duo	16.0 fl oz	2, 4, 6, 8, 10	14.5	1.6	48.8	93.8	2.3	23.0
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9			10.0	30.0		
+ Elast 400F	25.0 fl oz	1,0,0,7,0						
6. SA-0040309	20.0 fl oz	2, 4, 6, 8, 10	16.4	1.8	52.1	86.3	2.3	13.1
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9	10.4	1.0	32.1	00.5	2.3	13.1
+ Elast 400F	25.0 fl oz	1, 3, 3, 7, 3						
7. Andiamo	9.0 fl a-	2.4.6.9.10	17.6	1.7	70.4	07.5	4.4	16.1
	8.0 fl oz	2, 4, 6, 8, 10	17.6	1.7	70.4	97.5	4.4	16.1
Super Tin 4L + Elast 400F	6.0 fl oz 25.0 fl oz	1, 3, 5, 7, 9						
8. Andiamo Duo	36.0 fl oz	2, 4, 6, 8, 10	11.5	1.6	36.9	83.8	1.5	9.7
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
9. Quadris Top	14.0 fl oz	2, 4, 6, 8, 10	13.3	1.4	35.0	71.3	1.4	6.8
+ Induce	0.06% v/v							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
10. Ph-D 11.3 WG	6.2 oz	2, 4, 6, 8, 10	14.9	1.8	53.8	95.0	2.8	16.2
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
11. Ph-D 11.3 WG	6.2 oz	2, 4, 6, 8, 10	21.6	2.6	52.5	92.5	4.2	15.8
+ Orius 3.6F	8.0 fl oz							
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							

	DONE	PECAN FUNGI		-	<b>DD</b>			
	PONL	DER FARM, DESI		Leaf Sev. <sup>2</sup>		Inc. <sup>3</sup>	Nut	Sev <sup>4</sup>
Treatments	Rate/A	App's	26-Jul	26-Jul	26-Jul		26-Jul	20-Sep
12. Serenade Opti WP	16.0 oz	2, 4, 6, 8, 10	13.7	1.6	33.5	76.3	1.5	6.3
+ Absolute	7.5 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							
13. Absolute	7.5 oz	2, 4, 6, 8, 10	14.4	1.6	50.0	95.0	2.5	15.0
+ Induce	0.06% v/v	_, ,, ,, ,, _,						
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
14. Luna Sensation	5.0 fl oz	2, 4, 6, 8, 10	16.4	1.6	38.8	85.0	2.2	25.3
+ Induce	0.06% v/v	2, 4, 0, 0, 10	10.4	1.0	30.0	05.0		23.3
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz	1, 3, 3, 7, 3						
15. Luna Sensation	9.0 fl oz	2, 4, 6, 8, 10	13.8	1.7	60.8	78.8	5.0	18.4
+ Induce	0.06% v/v	2, 4, 0, 8, 10	13.0	1.7	00.8	76.6	3.0	10.4
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz	1, 3, 3, 7, 9						
			40-			0-0		200
16. Enable	8.0 fl oz	2, 4, 6, 8, 10	16.7	1.9	67.1	95.0	3.8	30.9
+ Induce	0.06% v/v	1 2 5 7 2						
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
17. Topguard EQ	8.0 fl oz	2, 4, 6, 8, 10	14.7	1.5	39.6	87.5	2.0	8.9
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
18. Enable	5.0 fl oz	2, 4, 6, 8, 10	15.6	1.7	34.0	84.2	1.6	13.0
+Abound	10.0 fl oz	, , -, -, -				_		
Super Tin 4L	6.0 fl oz	1, 3, 5, 7, 9						
+ Elast 400F	25.0 fl oz							
19. Super Tin 4L	6.0 fl oz	1 - 10	13.2	1.5	49.0	91.3	1.5	14.3
+ Elast 400F	25.0 fl oz	1 10	13.2	1.5	73.0	71.3	1.5	17.5
20. Super Tin 4L	6.0 fl oz	1 - 10	21.7	2.4	32.1	87.5	1.1	11.3
+ EXP 6	25.0 fl oz	1 10	21./	2.7	J2.1	07.5	1.1	11.5
	25.0 11 02							
21. Untreated			23.6	3.2	98.8	100.0	14.0	67.0
LSD(P<0.05)			5.3	0.8	20.0	13.6	1.9	6.7

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

Leaf Sev. <sup>2</sup>=Leaf scab severity, based on 8 clusters per tree (% of leaflets covered with scab).

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

Nut Sev <sup>4</sup>=Nut scab severity, based on ratings of 8 nut clusters per tree (% of shuck area covered with scab).

		DAILY RA	INFALL AN	D IRRIGAT	ION, 2016		
		Р	onder FAR	М, ТуТу, С	ìΑ		
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
1	3.0				0.1	0.5	
2	0.3	0.1			0.1	4.1	
3		0.5					
4			0.1	0.4			
5					0.6		
6	0.1		3.9				
7	0.1						
8					0.6		
9					0.1		
10					0.1		
11							
12	0.2						
13					0.6	0.4	
14	1.8				0.1		
15	0.1		0.2				
16			0.1				
17		1.5		0.5			
18				0.2			
19		0.3			1.1	0.1	
20		0.1					
21				0.3	0.1		
22							
23					0.2		
24							
25							
26						0.8	
27			0.1				
28							
29			0.1				
30			0.4				
31							
Total	5.6	2.6	4.7	1.5	3.6	5.8	0.0
IRRIGA	TION	Δς Ne	eded				
DATE	APR	MAY	JUN	JUL	AUG	SEP	ОСТ
<i>5</i> 7112	7 11 11	WAI	7514	,,,,	,,,,,,	921	
Rain & Irr	5.6	2.6	4.7	1.5	3.6	5.8	0.0