

# University of Georgia

**B-SURE AND GRAMOXONE IN PEANUTS**

Trial ID: PE-18-21      Study Dir.: O.W. CARTER  
 Location: PONDER FARM      Investigator: Eric P. Prostko

Reps: 4      Plots: 6 by 25 feet  
 Appl. Amount: 15 GAL/AC      Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Product Rate	Product Rate	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC									-	101	203	301	403
2	GRAMOXONE INDUCE	2	SL	8.0 oz/a 0.25 % v/v	8.0 oz/a 0.25 % v/v		POST A POST A		6.25 mL/mx 3.75 mL/mx	1490 mL	102	204	302	404
3	GRAMOXONE INDUCE B-SURE	2 9.01	SL SL	8.0 oz/a 16.0 oz/a	8.0 oz/a 16.0 oz/a		POST A POST A POST A		6.25 mL/mx 3.75 mL/mx 12.5 mL/mx	1477.5 mL	103	202	303	402
4	GRAMOXONE INDUCE B-SURE	2 9.01	SL SL	8.0 oz/a 32.0 oz/a	8.0 oz/a 32.0 oz/a		POST A POST A POST A		6.25 mL/mx 3.75 mL/mx 25.0 mL/mx	1465 mL	104	201	304	401

Sort Order: Treatment

**Trial Comments**

B-SURE = 0.5-0-0.5 (FROM MOLASSES AND SHRIMP PROTEIN HYDROLYATE)

DIGGING DATE: 09/23/21  
 HARVEST DATE: 09/28/21  
 HARVEST MOISTURE: 12.0%  
 YIELDS ADJUSTED TO 10%.  
 2% DEDUCTION FOR FM

**SUMMARY:**

1) AT 1 AND 2 DAT, B-SURE AT 32 OZ/A SLIGHTLY DECREASED (4-5%) PEANUT INJURY CAUSED BY GRAMOXONE.  
 2) PEANUT YIELDS WERE NOT REDUCED BY ANY TREATMENT AND B-SURE DID NOT IMPROVE YIELDS (P=0.6679).

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### GENERAL TRIAL INFORMATION

**Study Director:** O.W. CARTER      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** Eric P. Prostko      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** \_\_\_\_\_      **Trial Status:** E  
**State/Prov.:** \_\_\_\_\_      **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_      **Initiation Date:** \_\_\_\_\_  
**Country:** \_\_\_\_\_      **Planned Completion Date:** \_\_\_\_\_  
**E-Longitude of LL Corner °:** \_\_\_\_\_      **N-Latitude of LL Corner °:** \_\_\_\_\_  
**Altitude of LL Corner:** \_\_\_\_\_      **Unit:** \_\_\_\_\_      **Angle y-axis to North °:** \_\_\_\_\_  
**Directions:** \_\_\_\_\_

### COOPERATOR/LANDOWNER

**Cooperator:** \_\_\_\_\_      **Country:** \_\_\_\_\_  
**Org:** \_\_\_\_\_      **Phone No:** \_\_\_\_\_  
**Address 1:** \_\_\_\_\_      **Fax No:** \_\_\_\_\_  
**Address 2:** \_\_\_\_\_  
**City:** \_\_\_\_\_  
**State/Prov:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Conducted Under GLP (Y/N):** N      **Conducted Under GEP (Y/N):** N  
**Guidelines:** \_\_\_\_\_      **Guideline Description:** \_\_\_\_\_

**Objective:**

**Conclusions:**

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			

**Crop 1:** ARAHY      PEANUT      **Variety:** GA-06G  
**Planting Date:** May-7-21      **Planting Method:** MONOSEM TWIN ROW  
**Rate:** 3.1      SEED/FT      **Depth:** 2      IN      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** \_\_\_\_\_      **Spacing Within Row:** \_\_\_\_\_      **Seed Bed:** \_\_\_\_\_  
**Soil Temperature:** \_\_\_\_\_      **Soil Moisture:** OPTIMUM      **Emergence Date:** \_\_\_\_\_

### SITE AND DESIGN

**Plot Width, Unit:** 6      FT      **Plot Length, Unit:** 25 FT      **Reps:** 4  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** CONVENTIONAL      **Study Design:** RACOBL

**Trial Initiation Comments:**

No.	Previous Crops	Previous Pesticides	Year
1.	FALLOW		2020

### MAINTENANCE

**Field Prep./Maintenance:** 300 LBS/A 5-15-30 PREPLANT; THIMET 20G INFR @ 5.25 LBS/A; RANCONA SEED TREATMENT; 36"-9" TWIN ROW SPACING; PROWL H20 @ 32 OZ/A + STRONGARM 84WG @ 0.45 OZ/A - PRE (05/04/21); CADRE 2AS @ 4 OZ/A + DUAL MAGNUM 7.62EC @ 16 OZ/A - POST (06/03/21);

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

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### SOIL DESCRIPTION

% Sand: 92    % OM: 0.77    Texture: SAND  
 % Silt: 6     pH: 6.0      Soil Name: TIFTON  
 % Clay: 2    CEC: 2.6      Fert. Level: GOOD

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Jun-1-21		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	Jun-4-21		0.45	IN	SPRINKLER - LATERAL MOVE		
3.	Jun-4-21		0.6	IN	RAINFALL		
4.	Jun-6-21		0.4	IN	RAINFALL		
5.	Jun-7-21		1.25	IN	RAINFALL		
6.	Jun-8-21		0.15	IN	RAINFALL		
7.	Jun-11-21		0.3	IN	RAINFALL		
8.	Jun-15-21		0.3	IN	RAINFALL		
9.	Jun-17-21		0.46	IN	SPRINKLER - LATERAL MOVE		
10.	Jun-20-21		1.0	IN	RAINFALL		
11.	Jun-21-21		2.4	IN	RAINFALL		

Overall Moisture Conditions: \_\_\_\_\_  
 Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

### APPLICATION DESCRIPTION

	A
Application Date:	Jun-7-21
Time of Day:	7:20 AM
Application Method:	BROADCAST
Application Timing:	POST
Applic. Placement:	FOLIAGE
Air Temp., Unit:	72 F
% Relative Humidity:	94
Wind Velocity, Unit:	3 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	74 F
Soil Moisture:	WET
% Cloud Cover:	90

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ARAHY,
Stage Scale:	6-8LF
Height, Unit:	4, IN

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**WEED STAGE AT EACH APPLICATION**

	<b>A</b>
<b>Weed 1 Code, Stage:</b>	,
<b>Stage Scale:</b>	
<b>Density, Unit:</b>	

**APPLICATION EQUIPMENT**

	<b>A</b>
<b>Appl. Equipment:</b>	BACKPACK
<b>Operating Pressure:</b>	36
<b>Nozzle Type:</b>	AIXR
<b>Nozzle Size:</b>	11002
<b>Nozzle Spacing, Unit:</b>	20 IN
<b>Nozzles/Row:</b>	
<b>Band Width, Unit:</b>	
<b>Boom Length, Unit:</b>	60 IN
<b>Boom Height, Unit:</b>	20 IN
<b>Ground Speed, Unit:</b>	3.5 MPH
<b>Incorporation Equip.:</b>	
<b>Hours to Incorp.:</b>	
<b>Incorp. Depth, Unit:</b>	
<b>Carrier:</b>	
<b>Spray Volume, Unit:</b>	15 GPA
<b>Spray pH:</b>	
<b>Propellant:</b>	CO2
<b>Tank Mix (Y/N):</b>	

Trt No	Treatment Application Comment

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Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code													
Crop Code													
Part Rated													
Rating Data Type													
Rating Unit													
Rating Date													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate	Grow Unit	Appl Code	1	2	3	4	5	6
1	NTC							0.0 c	0.0 c	0.0 b	0.0 a	21.8 a	21.4 a
2	GRAMOXONE INDUCE	2 SL		8.0 oz/a 0.25 % v/v		POST A POST A		40.0 a	16.3 a	27.5 a	3.3 a	21.1 a	20.7 a
3	GRAMOXONE INDUCE B-SURE	2 SL 9.01 SL		8.0 oz/a 0.25 % v/v 16.0 oz/a		POST A POST A POST A		40.0 a	17.5 a	30.0 a	1.5 a	21.8 a	21.4 a
4	GRAMOXONE INDUCE B-SURE	2 SL 9.01 SL		8.0 oz/a 0.25 % v/v 32.0 oz/a		POST A POST A POST A		36.3 b	12.5 b	27.5 a	3.3 a	20.9 a	20.4 a
LSD P=.10								1.62	3.10	3.06	2.82	1.76	1.73
Standard Deviation								1.25	2.39	2.36	2.17	1.36	1.33
CV								4.3	20.7	11.09	108.65	6.37	6.37
Grand Mean								29.06	11.56	21.25	2.00	21.39	20.96
Bartlett's X2^								5.788	1.737	361.786	188.087	0.866	0.866
P(Bartlett's X2)								0.122	0.629	0.00*	0.00*	0.834	0.834

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 ^Calculated from residual.

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Location: PONDER FARM		Investigator: Eric P. Prostko						
Weed Code						-----		
Crop Code						ARAHY		
Part Rated						CLEAN, -		
Rating Data Type						YIELD		
Rating Unit						LBS/A		
Rating Date						Sep-28-21		
Trt-Eval Interval						113 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
								7
1	NTC							6073 a
2	GRAMOXONE INDUCE	2	SL	8.0 oz/a 0.25 % v/v		POST A POST A		5864 a
3	GRAMOXONE INDUCE B-SURE	2 9.01	SL SL	8.0 oz/a 0.25 % v/v 16.0 oz/a		POST A POST A POST A		6066 a
4	GRAMOXONE INDUCE B-SURE	2 9.01	SL SL	8.0 oz/a 0.25 % v/v 32.0 oz/a		POST A POST A POST A		5802 a
LSD P=.10								491.1
Standard Deviation								378.9
CV								6.37
Grand Mean								5951.5
Bartlett's X2^								0.866
P(Bartlett's X2)								0.834

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).  
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 ^Calculated from residual.

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Trial ID: PE-18-21      Study Dir.: O.W. CARTER  
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Randomized Complete Block (RCB) AOV For ----- Arah Leaf Necrosis % Jun-8-21 1 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	4560.937500			
Replicate	3	4.687500	1.562500	1.000	0.4363
Treatment	3	4542.187500	1514.062500	969.000	0.0001
Error	9	14.062500	1.562500		

Randomized Complete Block (RCB) AOV For ----- Arah Leaf Necrosis % Jun-9-21 2 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	835.937500			
Replicate	3	17.187500	5.729167	1.000	0.4363
Treatment	3	767.187500	255.729167	44.636	0.0001
Error	9	51.562500	5.729167		

Randomized Complete Block (RCB) AOV For ----- Arah Leaf Necrosis % Jun-11-21 4 DA-A (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	2475.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	3	2425.000000	808.333333	145.500	0.0001
Error	9	50.000000	5.555556		

Randomized Complete Block (RCB) AOV For ----- Arah Stunting % Jun-14-21 7 DA-A (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	72.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	3	29.500000	9.833333	2.082	0.1729
Error	9	42.500000	4.722222		

Randomized Complete Block (RCB) AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Sep-28-21 113 DA-A (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	41.297500			
Replicate	3	21.622500	7.207500	3.888	0.0492
Treatment	3	2.992500	0.997500	0.538	0.6679
Error	9	16.682500	1.853611		

Randomized Complete Block (RCB) AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Sep-28-21 113 DA-A (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	39.662119			
Replicate	3	20.766249	6.922083	3.888	0.0492
Treatment	3	2.873997	0.957999	0.538	0.6679
Error	9	16.021873	1.780208		

Randomized Complete Block (RCB) AOV For ----- ARAHY CLEAN YIELD LBS/A Sep-28-21 113 DA-A (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	3197786.485164			
Replicate	3	1674293.559549	558097.853183	3.888	0.0492
Treatment	3	231718.047263	77239.349088	0.538	0.6679
Error	9	1291774.878352	143530.542039		

**Part Rated**

Leaf = LEAF / FOLIAGE

Rating Unit

% = PERCENT

ARM Action Codes

T1 = [5]\*0.98

TY2 = 283.94666667\*[6]

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Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	----- Arahy Leaf, - Necrosis % Jun-8-21 1 DA-A	----- Arahy Leaf, - Necrosis % Jun-9-21 2 DA-A	----- Arahy Leaf, - Necrosis % Jun-11-21 4 DA-A	----- Arahy Stunting % Jun-14-21 7 DA-A	----- ARAHY DIRTY, - YIELD LBS/PLOT Sep-28-21 113 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate	Grow Unit	Appl Code	Plot	1	2	3	4	5
1	NTC							101	0.0	0.0	0.0	0.0	24.8
								203	0.0	0.0	0.0	0.0	21.5
								301	0.0	0.0	0.0	0.0	19.1
								403	0.0	0.0	0.0	0.0	21.9
								Mean =	0.0	0.0	0.0	0.0	21.8
2	GRAMOXONE INDUCE	2 SL		8.0 oz/a 0.25 % v/v		POST A POST A		102	40.0	15.0	30.0	3.0	22.3
								204	40.0	20.0	30.0	0.0	22.3
								302	40.0	15.0	25.0	5.0	20.6
								404	40.0	15.0	25.0	5.0	19.1
								Mean =	40.0	16.3	27.5	3.3	21.1
3	GRAMOXONE INDUCE B-SURE	2 SL		8.0 oz/a 0.25 % v/v		POST A POST A		103	40.0	15.0	30.0	0.0	23.5
								202	40.0	15.0	30.0	3.0	21.5
		9.01 SL		16.0 oz/a		POST A		303	40.0	20.0	30.0	3.0	21.9
								402	40.0	20.0	30.0	0.0	20.3
								Mean =	40.0	17.5	30.0	1.5	21.8
4	GRAMOXONE INDUCE B-SURE	2 SL		8.0 oz/a 0.25 % v/v		POST A POST A		104	35.0	10.0	25.0	5.0	22.9
								201	35.0	15.0	25.0	5.0	18.7
		9.01 SL		32.0 oz/a		POST A		304	40.0	10.0	30.0	0.0	20.3
								401	35.0	15.0	30.0	3.0	21.5
								Mean =	36.3	12.5	27.5	3.3	20.9



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Weed Code				-----	-----					
Crop Code				ARAHY	ARAHY					
Part Rated				CLEAN, -	CLEAN, -					
Rating Data Type				YIELD	YIELD					
Rating Unit				LBS/PLOT	LBS/A					
Rating Date				Sep-28-21	Sep-28-21					
Trt-Eval Interval				113 DA-A	113 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code	Plot	6	7
1	NTC							101	24.3	6901
								203	21.1	5983
								301	18.7	5315
								403	21.5	6094
								Mean =	21.4	6073
2	GRAMOXONE INDUCE	2 SL		8.0 oz/a 0.25 % v/v		POST A		102	21.9	6205
						POST A		204	21.9	6205
								302	20.2	5732
								404	18.7	5315
								Mean =	20.7	5864
3	GRAMOXONE INDUCE	2 SL		8.0 oz/a 0.25 % v/v		POST A		103	23.0	6539
						POST A		202	21.1	5983
	B-SURE	9.01 SL		16.0 oz/a		POST A		303	21.5	6094
								402	19.9	5649
								Mean =	21.4	6066
4	GRAMOXONE INDUCE	2 SL		8.0 oz/a 0.25 % v/v		POST A		104	22.4	6372
						POST A		201	18.3	5204
	B-SURE	9.01 SL		32.0 oz/a		POST A		304	19.9	5649
								401	21.1	5983
								Mean =	20.4	5802

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