

# University of Georgia

**PEANUT RESPONSE TO SINBAR  
APPLIED PRE (YEAR 3)**

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

Reps: 4      Plots: 6 by 25 feet  
Spray vol: 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	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Rep			
									1	2	3	4
1	NTC								101	202	303	405
2	SINBAR	80	WG	4.0 oz/a		PRE	A	2.996 g/mx	102	201	304	401
3	SINBAR	80	WG	2.0 oz/a		PRE	A	1.498 g/mx	103	205	302	403
4	SINBAR	80	WG	1.0 oz/a		PRE	A	0.7489 g/mx	104	203	301	402
5	SINBAR	80	WG	0.5 oz/a		PRE	A	0.3745 g/mx	105	204	305	404

Sort Order: Treatment

Trial Comments

PROWL H20 @ 32 OZ/A +STRONGARM 85WG @ 0.45 OZ/A - MAY 1, 2018

CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A - POST (MAY 14)

MAINTAINED WEED-FREE

AVERAGE 1/2 LIFE OF SINBAR IS 120 DAYS.

DIGGING DATE: SEPTEMBER 19

HARVEST DATES: SEPTEMBER 21

HARVEST MOISTURE: 10.7%

YIELDS ADJUSTED TO 10% MOISTURE

2% YIELD DEDUCTION FOR FM (ROCKS, STEMS, ETC.)

**SUMMARY:**

- 1) GENERALLY, THE 2 HIGHEST RATES OF SINBAR 80WG , 2 AND 4 OZ/A, CAUSED THE MOST PEANUT INJURY AND STAND LOSS. 4 OZ/A WAS MORE INJURIOUS THAN 2 OZ/A.
- 2) PEANUT PLANT HEIGHTS WERE ONLY REDUCED BY THE 4 OZ/A RATE OF SINBAR.
- 3) PEANUT YIELDS WERE ONLY REDUCED WHEN SINBAR WAS APPLIED AT 4 OZ/A (54.9% YIELD REDUCTION).

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**GENERAL TRIAL INFORMATION**

**Study Director:** WEN CARTER      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_      **Postal Code:** \_\_\_\_\_

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

**Trial Status:** \_\_\_\_\_      **Initiation Date:** \_\_\_\_\_      **Country:** \_\_\_\_\_  
**City:** \_\_\_\_\_      **State/Prov.:** \_\_\_\_\_      **Postal Code:** \_\_\_\_\_  
**Conducted Under GLP (Y/N):** N      **Conducted Under GEP (Y/N):** N

**Objective:** \_\_\_\_\_

**Conclusions:** \_\_\_\_\_

**CROP AND PEST DESCRIPTION**

**Weed 1.** \_\_\_\_\_      **2.** \_\_\_\_\_

**Crop 1:** ARAHY PEANUT      **Variety:** GA-06G      **Planting Date:** Apr-30-18  
**Planting Method:** MONOSEM TWIN ROW      **Rate:** 3.1      **SEED/FT**      **Depth:** 2 IN  
**Perennial Age:** \_\_\_\_\_      **Row Spacing:** \_\_\_\_\_      **Seed Bed:** \_\_\_\_\_  
**Soil Temperature:** \_\_\_\_\_      **Soil Moisture:** DRY/OPT      **Emergence Date:** \_\_\_\_\_

**Plot Width, Unit:** 6 FT      **Plot Length, Unit:** 25 FT      **Reps:** 4

**Site Type:** \_\_\_\_\_      **Study Design:** RACOB

**Tillage Type:** CONVENTIONAL

**Trial Initiation Comments:** DYNASTY PD SEED TRT; THIMET INFR @ 7.5 LBS/A; 36"-9" TWIN ROWS; 400 LBS/A 5-15-30 PPLNT;

<b>Previous: Crops</b>	<b>Pesticides</b>	<b>Year</b>
1. CORN	2017	

**MAINTENANCE**

**Field Prep./Maintenance:** \_\_\_\_\_

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

**SOIL DESCRIPTION**

**Texture:** SAND      **% OM:** 0.77      **% Sand:** 92      **% Silt:** 6      **% Clay:** 2  
**pH:** 6.1      **CEC:** 2.6      **Soil Name:** TIFTON      **Fertility Level:** GOOD

**MOISTURE CONDITIONS**

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-2-18		0.5		IN SPRINKLER - LATERAL MOVE		
2.	May-8-18		0.5		IN SPRINKLER - LATERAL MOVE		
3.	May-14-18		0.02		IN RAINFALL		
4.	May-15-18		0.35		IN RAINFALL		
5.	May-16-18		0.69		IN RAINFALL		
6.	May-17-18		0.26		IN RAINFALL		
7.	May-20-18		0.10		IN RAINFALL		
8.	May-21-18		0.07		IN RAINFALL		
9.	May-22-18		0.22		IN RAINFALL		
10.	May-23-18		0.91		IN RAINFALL		
11.	May-24-18		0.01		IN RAINFALL		
12.	May-26-18		0.23		IN RAINFALL		
13.	May-27-18		0.34		IN RAINFALL		
14.	May-28-18		0.32		IN RAINFALL		
15.	May-29-18		1.69		IN RAINFALL		
16.	May-30-18		0.07		IN RAINFALL		
17.							

**Overall Moisture Conditions:** \_\_\_\_\_

**Closest Weather Station:** \_\_\_\_\_      **Distance:** \_\_\_\_\_      **Unit:** \_\_\_\_\_

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APPLICATION DESCRIPTION		A	B	C	D	E	F
Application Date:	May-2-18	_____	_____	_____	_____	_____	_____
Time of Day:	7:30 AM	_____	_____	_____	_____	_____	_____
Application Method:	BROADCAST	_____	_____	_____	_____	_____	_____
Application Timing:	PRE	_____	_____	_____	_____	_____	_____
Applic. Placement:	SOIL	_____	_____	_____	_____	_____	_____
Air Temp., Unit:	58 F	_____	_____	_____	_____	_____	_____
% Relative Humidity:	92	_____	_____	_____	_____	_____	_____
Wind Velocity, Unit:	1 MPH	_____	_____	_____	_____	_____	_____
Dew Presence (Y/N):	N	_____	_____	_____	_____	_____	_____
Water Hardness:	--	_____	_____	_____	_____	_____	_____
Soil Temp., Unit:	69 F	_____	_____	_____	_____	_____	_____
Soil Moisture:	DRY/OPT	_____	_____	_____	_____	_____	_____
% Cloud Cover:	0	_____	_____	_____	_____	_____	_____

CROP STAGE AT EACH APPLICATION		A	B	C	D	E	F
Crop 1 Stage:	ARAHY	_____	_____	_____	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Height, Unit:		_____	_____	_____	_____	_____	_____

WEED STAGE AT EACH APPLICATION		A	B	C	D	E	F
Weed 1 Stage:		_____	_____	_____	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Density, Unit:		_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	27	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	15 IN	_____	_____	_____	_____	_____	_____
Nozzles/Row:	2	_____	_____	_____	_____	_____	_____
Band Width, Unit:		_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60 IN	_____	_____	_____	_____	_____	_____
Boom Height, Unit:	20 IN	_____	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5 MPH	_____	_____	_____	_____	_____	_____
Incorporation Equip.:		_____	_____	_____	_____	_____	_____
Hours to Incorp.:		_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:		_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15 GPA	_____	_____	_____	_____	_____	_____
Spray pH:		_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):		_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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PEANUT RESPONSE TO SINBAR APPLIED PRE (YEAR 3) Trial ID: PE-18-18      Study Dir.: WEN CARTER Location: PONDER FARM      Investigator: Eric P. Prostko							
Weed Code Crop Code Part Rated Rating Data Type Rating Unit  Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.	----- ARAHY INJURY PERCENT  May-9-18 7 DA-A	----- ARAHY PLANT - STAND #/3 FT  May-14-18 12 DA-A	----- ARAHY INJURY PERCENT  May-18-18 16 DA-A	----- ARAHY INJURY PERCENT  May-24-18 22 DA-A	----- ARAHY STUNTING PERCENT  Jun-21-18 50 DA-A	----- ARAHY STAND - LOSS PERCENT  Jun-21-18 50 DA-A	----- ARAHY STUNTING PERCENT  Jul-24-18 83 DA-A
Trt No.    Treatment Name    Form Conc    Form Type    Rate    Grow Unit    Appl Stg    Code	1	2	3	4	5	6	7
1 NTC	0.0 b	16.5 a	0.0 c	0.0 c	0.0 c	3.8 c	0.0 c
2 SINBAR    80 WG    4.0 oz/a    PRE    A	7.5 a	17.0 a	41.3 a	57.5 a	72.5 a	75.0 a	47.5 a
3 SINBAR    80 WG    2.0 oz/a    PRE    A	0.0 b	17.3 a	17.5 b	25.0 b	25.0 b	23.8 b	7.5 b
4 SINBAR    80 WG    1.0 oz/a    PRE    A	0.0 b	16.5 a	10.0 bc	2.5 c	0.0 c	2.5 c	0.0 c
5 SINBAR    80 WG    0.5 oz/a    PRE    A	0.0 b	17.5 a	2.5 c	0.0 c	0.0 c	3.8 c	0.0 c
Tukey's HSD P=.10	4.38	1.39	11.94	10.59	10.13	9.93	6.45
Standard Deviation	2.24	0.71	6.09	5.40	5.16	5.06	3.29
CV	149.07	4.17	42.73	31.77	26.48	23.27	29.92
Grand Mean	1.50	16.95	14.25	17.00	19.50	21.75	11.00
Levene's F		0.349	0.647	4.25	10.00	0.622	0.00
Levene's Prob(F)		0.841	0.638	0.017*	0.001*	0.654	0.00*
Replicate F	1.000	10.500	0.213	1.143	0.688	0.959	0.615
Replicate Prob(F)	0.4262	0.0011	0.8851	0.3713	0.5768	0.4433	0.6181
Treatment F	9.000	1.600	29.629	85.457	149.250	150.561	157.615
Treatment Prob(F)	0.0013	0.2375	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

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Weed Code	-----	-----	-----	-----	-----	-----
Crop Code	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY
Part Rated	STAND -	PLANT -	PLOT -	PLOT -	PLOT -	YIELD -
Rating Data Type	LOSS	HEIGHT	YIELD	YIELD	YIELD	LOSS
Rating Unit	PERCENT	INCHES	LBS/PLOT	LBS/PLOT	LBS/A	PERCENT
Rating Date	Jul-24-18	Aug-28-18	Sep-21-18	Sep-21-18	Sep-21-18	Sep-21-18
Trt-Eval Interval	83 DA-A	118 DA-A	142 DA-A	142 DA-A	142 DA-A	142 DA-A
PRM Data Type				T1	TY2	
# Subsamples, Dec.		- 1	- 2	- 2	- 0	
Trt Treatment Form Form Rate Grow Appl	8	9	10	11	12	13
No. Name Conc Type Rate Unit Stg Code						
1 NTC	0.0 b	17.4 a	22.39 a	21.94 a	6350 a	0.00 b
2 SINBAR 80 WG 4.0 oz/a PRE A	56.3 a	11.0 b	10.21 b	10.01 b	2897 b	54.88 a
3 SINBAR 80 WG 2.0 oz/a PRE A	2.5 b	17.7 a	19.61 a	19.22 a	5563 a	14.30 b
4 SINBAR 80 WG 1.0 oz/a PRE A	0.0 b	17.9 a	21.59 a	21.16 a	6123 a	6.23 b
5 SINBAR 80 WG 0.5 oz/a PRE A	0.0 b	18.6 a	22.66 a	22.21 a	6428 a	2.78 b
Tukey's HSD P=.10	12.14	2.31	3.708	3.633	1051.6	14.768
Standard Deviation	6.19	1.18	1.891	1.853	536.3	7.531
CV	52.69	7.14	9.8	9.8	9.8	48.17
Grand Mean	11.75	16.51	19.293	18.907	5472.2	15.635
Levene's F	0.828	2.999	0.988	0.988	0.988	3.391
Levene's Prob(F)	0.528	0.053	0.444	0.444	0.444	0.036*
Replicate F	0.728	0.673	1.420	1.420	1.420	1.024
Replicate Prob(F)	0.5546	0.5850	0.2853	0.2853	0.2853	0.4163
Treatment F	64.696	28.063	30.423	30.423	30.423	35.971
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

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APPLIED PRE (YEAR 3)

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

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

T1 = [C10]\*0.98

TY2 = 289.432\*[C11]

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Trt Treatment Form Form      Rate Grow Appl No. Name      Conc Type Rate Unit Stg Code Plot	1	2	3	4	5	6	7		
1 NTC 101 202 303 405 Mean =	0.0 0.0 0.0 0.0 0.0	16.0 17.0 16.0 17.0 16.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	5.0 5.0 0.0 5.0 3.8	0.0 0.0 0.0 0.0 0.0		
2 SINBAR      80 WG      4.0 oz/a PRE A 102 201 304 401 Mean =	10.0 0.0 10.0 10.0 7.5	15.0 19.0 17.0 17.0 17.0	50.0 40.0 35.0 40.0 41.3	70.0 50.0 60.0 50.0 57.5	85.0 75.0 65.0 65.0 72.5	85.0 70.0 75.0 70.0 75.0	50.0 40.0 50.0 50.0 47.5		
3 SINBAR      80 WG      2.0 oz/a PRE A 103 205 302 403 Mean =	0.0 0.0 0.0 0.0 0.0	16.0 19.0 17.0 17.0 17.3	20.0 20.0 10.0 20.0 17.5	20.0 30.0 30.0 20.0 25.0	20.0 30.0 30.0 20.0 25.0	25.0 25.0 30.0 15.0 23.8	10.0 10.0 10.0 0.0 7.5		
4 SINBAR      80 WG      1.0 oz/a PRE A 104 203 301 402 Mean =	0.0 0.0 0.0 0.0 0.0	16.0 18.0 17.0 15.0 16.5	10.0 0.0 20.0 10.0 10.0	0.0 0.0 10.0 0.0 2.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 10.0 0.0 2.5	0.0 0.0 0.0 0.0 0.0		
5 SINBAR      80 WG      0.5 oz/a PRE A 105 204 305 404 Mean =	0.0 0.0 0.0 0.0 0.0	17.0 19.0 17.0 17.0 17.5	0.0 10.0 0.0 0.0 2.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	5.0 5.0 0.0 5.0 3.8	0.0 0.0 0.0 0.0 0.0		





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Part Rated  
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)  
PRM Data Type  
T1 = [C10]\*0.98  
TY2 = 289.432\*[C11]