

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
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 Rate	Appl Unit	Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	7 DBP + 1 DAP NO LIBERTY					A		- -	101	206	303	402
2	7 DBP + 1 DAP LIBERTY	2.34	SL	32.0	oz/a	A	25.0 mL/mx	1475 mL	102	205	304	405
3	7 DBP + 1 DAP LIBERTY	2.34	SL	64.0	oz/a	A	49.99 mL/mx	1450.0 mL	103	204	302	401
4	1 DAP NO LIBERTY					B		- -	104	201	306	403
5	1 DAP LIBERTY	2.34	SL	32.0	oz/a	B	25.0 mL/mx	1475 mL	105	203	305	404
6	1 DAP LIBERTY	2.34	SL	64.0	oz/a	B	49.99 mL/mx	1450.0 mL	106	202	301	406

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

SONALAN @ 32 OZ/A + VALOR EZ @ 3 OZ/A OVER ENTIRE TEST AREA INCLUDING NTC

WARRANT @ 48 OZ/A - JULY 1

7 DBP = 7 DAYS BEFORE PLANTING

1 DAP = 1 DAP AFTER PLANTING

LAST TILLAGE: MAY 18

DIGGING DATE: OCTOBER 14

HARVEST DATE: OCTOBER 19

HARVEST MOISTURE: 15.6%

YIELDS ADJUSTED TO 10%

2% YIELD DEDUCTION FOR FM

SUMMARY:

1) ON JUNE 15 (20 DAP), THERE WAS NO INTERACTION BETWEEN TIME OF APPLICATION AND LIBERTY RATE FOR PEANUT STAND/EMERGENCE ($P=0.6451$). WHEN AVERAGED OVER RATE, TIME OF APPLICATION HAD NO EFFECT ON STAND/EMERGENCE ($P=0.5344$). WHEN AVERAGED OVER TIME OF APPLICATION, PEANUT STAND/EMERGENCE WAS SIGNIFICANTLY REDUCED (-6%) BY LIBERTY APPLIED AT 64 OZ/A. **NOTE: SEED QUALITY ISSUES/SPLITS MAY HAVE INFLUENCED THIS RATING.**

2) ON JUNE 25 (30 DAP), THERE WAS NO INTERACTION BETWEEN TIME OF APPLICATION AND RATE FOR PEANUT CANOPY HEIGHT AND WIDTH ($P>0.25$). NEITHER LIBERTY RATE NOR TIME OF APPLICATION HAD AN EFFECT ON ON PEANUT HEIGHT AND WIDTH ($P>0.15$).

3) FOR PEANUT YIELD, THERE WAS NO INTERACTION BETWEEN TIMING AND LIBERTY RATE ($P=0.6799$). NEITHER TIMING NOR RATE HAD AN EFFECT ON PEANUT YIELD ($P>0.23$).

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: _____ Title: _____
Affiliation: _____ Postal Code: _____

Investigator: Eric P. Prostko Title: _____
Affiliation: _____ Postal Code: _____

Trial Status: E 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: May-26-20
Planting Method: MONOSEM TWIN ROW Rate: 3.1 SEED/FT Depth: 2 IN
Perennial Age: _____ Row Spacing: _____ Seed Bed: _____
Soil Temperature: _____ Soil Moisture: OPTIMUM Emergence Date: _____

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

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: FACTOR

Trial Initiation Comments: THIMET INFR; RANCONA SEED TRT; 300 LBS/A 5-15-30
PREPLANT; 1 TON/A LIME PREPLANT; 36"-9" TWIN ROWS; 1000 LBS/A GYPSUM

Previous: Crops Pesticides Year
1. FIELD CORN _____ 2019

MAINTENANCE

Field Prep./Maintenance:

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: SAND % OM: 0.78 % Sand: 94 % Silt: 4 % Clay: 2
pH: 6.0 CEC: 3.3 Soil Name: TIFTON Fertility Level: GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-17-20	_____	0.11	IN	RAINFALL	_____	_____
2. May-20-20	_____	1.3	IN	RAINFALL	_____	_____
3. May-22-20	_____	1.2	IN	RAINFALL	_____	_____
4. May-26-20	_____	0.26	IN	RAINFALL	_____	_____
5. May-28-20	_____	0.41	IN	RAINFALL	_____	_____
6. May-29-20	_____	0.19	IN	RAINFALL	_____	_____
7. Jun-1-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
8. Jun-6-20	_____	0.07	IN	RAINFALL	_____	_____
9. Jun-7-20	_____	0.59	IN	RAINFALL	_____	_____
10. Jun-9-20	_____	0.15	IN	RAINFALL	_____	_____
11. Jun-12-20	_____	2.67	IN	RAINFALL	_____	_____
12. Jun-19-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
13. Jun-22-20	_____	0.61	IN	RAINFALL	_____	_____
14. Jun-24-20	_____	0.65	IN	RAINFALL	_____	_____
15. Jun-29-20	_____	0.65	IN	SPRINKLER - LATERAL MOVE	_____	_____
16. Jul-5-20	_____	0.5	IN	RAINFALL	_____	_____
17. Jul-6-20	_____	0.5	IN	RAINFALL	_____	_____

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	May-19-20	May-27-20					
Time of Day:	7:30 am	6:50 AM					
Application Method:	BROADCAST	BROADCAST					
Application Timing:	7 DBP	1 DAP					
Applic. Placement:	SOIL	SOIL					
Air Temp., Unit:	70 F	70 F					
% Relative Humidity:	92	97					
Wind Velocity, Unit:	5 MPH	3 MPH					
Dew Presence (Y/N):	Y	N					
Water Hardness:	--	--					
Soil Temp., Unit:	75 F	74 F					
Soil Moisture:	OPTIMUM	WET					
% Cloud Cover:	100	100					

		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	SAME AS A					
Operating Pressure:	40						
Nozzle Type:	TTI						
Nozzle Size:	02						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
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

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	----	-----	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated		Plant -					
Rating Data Type	Stunting	Stand	Hgt1	Hgt2	Hgt3	Hgt4	Hgt5
Rating Unit	Percent	#/5 ft	In	In	In	In	In
Rating Date	Jun-5-20	Jun-15-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20
PRM Data Type							
# Subsamples, Dec.							
Trt Treatment	Form	Form	Rate	Rate	Rate	Rate	Rate
No. Name	Conc	Type	Unit	Unit	Unit	Unit	Unit
	1	2	3	4	5	6	7
TABLE OF R MEANS							
Replicate 1	0.0	19.3	3.17	3.25	3.17	3.42	3.75
Replicate 2	0.0	20.5	3.50	3.25	3.50	3.67	3.75
Replicate 3	0.0	20.2	3.58	3.25	3.67	3.42	3.58
Replicate 4	0.0	19.0	3.58	3.25	3.17	3.00	3.33
TABLE OF A (TIMING) MEANS							
1 7 DBP + 1 DAP A	0.0 a	19.4 a	3.42 a	3.21 a	3.38 a	3.33 a	3.46 a
2 1 DAP B	0.0 a	20.1 a	3.50 a	3.29 a	3.38 a	3.42 a	3.75 a
LSD P=.10	.	2.24	0.253	0.588	0.555	0.467	0.294
Standard Deviation	0.00	2.33	0.264	0.612	0.577	0.486	0.306
CV	0.00	11.81	7.620	18.842	17.107	14.397	8.495
TABLE OF B (RATE) MEANS							
1 NO LIBERTY	0.0 a	20.1 a	3.25 a	3.06 a	3.38 a	3.31 a	3.63 a
2 LIBERTY 2.34 SL 32.0 oz/a	0.0 a	20.3 a	3.44 a	3.25 a	3.50 a	3.31 a	3.81 a
3 LIBERTY 2.34 SL 64.0 oz/a	0.0 a	18.9 b	3.69 a	3.44 a	3.25 a	3.50 a	3.38 a
LSD P=.10	.	1.00	0.685	0.587	0.561	0.409	0.425
Standard Deviation	0.00	1.03	0.705	0.604	0.577	0.421	0.437
CV	0.00	5.24	20.375	18.579	17.107	12.469	12.125
TABLE OF A (TIMING) B (RATE) MEANS							
1 7 DBP + 1 DAP 1 NO LIBERTY A	0.0 a	20.3 a	3.00 a	2.75 a	3.00 a	3.25 a	3.63 a
2 1 DAP 1 NO LIBERTY B	0.0 a	20.0 a	3.50 a	3.38 a	3.75 a	3.38 a	3.63 a
1 7 DBP + 1 DAP 2 LIBERTY 2.34 SL 32.0 oz/a A	0.0 a	19.8 a	3.50 a	3.25 a	3.63 a	3.38 a	3.50 a
2 1 DAP 2 LIBERTY 2.34 SL 32.0 oz/a B	0.0 a	20.8 a	3.38 a	3.25 a	3.38 a	3.25 a	4.13 a
1 7 DBP + 1 DAP 3 LIBERTY 2.34 SL 64.0 oz/a A	0.0 a	18.3 a	3.75 a	3.63 a	3.50 a	3.38 a	3.25 a
2 1 DAP 3 LIBERTY 2.34 SL 64.0 oz/a B	0.0 a	19.5 a	3.63 a	3.25 a	3.00 a	3.63 a	3.50 a
LSD P=.10	.	2.27	0.738	0.578	0.793	0.436	0.465
Standard Deviation	0.00	1.65	0.537	0.421	0.577	0.317	0.339
CV	0.00	8.38	15.523	12.948	17.107	9.402	9.392

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.

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	-----	-----	-----	-----	-----	-----	-----	
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	
Part Rated		Twin -	Twin -	Twin -	Twin -	Twin -	Twin -	
Rating Data Type	Hgt-AVG	Width1	Width2	Width3	Width4	Width5	Width-AVG	
Rating Unit	In	In	In	In	In	In	in	
Rating Date	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	
PRM Data Type	T1						T2	
# Subsamples, Dec.	- 1						- 1	
Trt Treatment	Form Form	Rate Appl						
No. Name	Conc Type Rate Unit Code	8	9	10	11	12	13	14
TABLE OF R MEANS								
Replicate 1		3.4	17.08	16.83	17.33	17.75	18.08	17.4
Replicate 2		3.5	17.75	17.33	18.17	17.83	18.08	17.8
Replicate 3		3.5	17.00	17.33	18.25	17.58	16.58	17.4
Replicate 4		3.3	17.50	17.42	17.08	16.67	17.67	17.3
TABLE OF A (TIMING) MEANS								
1 7 DBP + 1 DAP	A	3.4 a	17.63 a	17.58 a	17.83 a	17.46 a	17.29 a	17.6 a
2 1 DAP	B	3.5 a	17.04 a	16.88 a	17.58 a	17.46 a	17.92 a	17.4 a
LSD P=.10		0.13	0.855	0.757	1.652	0.277	1.849	0.55
Standard Deviation		0.14	0.890	0.788	1.720	0.289	1.925	0.57
CV		4.07	5.133	4.576	9.713	1.654	10.934	3.26
TABLE OF B (RATE) MEANS								
1 NO LIBERTY		3.3 a	17.38 a	16.94 a	17.81 a	17.25 a	17.13 a	17.3 a
2 LIBERTY	2.34 SL 32.0 oz/a	3.5 a	17.25 a	17.69 a	17.88 a	17.56 a	17.69 a	17.6 a
3 LIBERTY	2.34 SL 64.0 oz/a	3.5 a	17.38 a	17.06 a	17.44 a	17.56 a	18.00 a	17.5 a
LSD P=.10		0.23	0.595	1.430	1.351	1.828	1.045	0.44
Standard Deviation		0.24	0.612	1.472	1.391	1.881	1.075	0.45
CV		6.92	3.533	8.543	7.853	10.774	6.108	2.58
TABLE OF A (TIMING) B (RATE) MEANS								
1 7 DBP + 1 DAP	A	3.1 a	18.38 a	17.50 a	17.75 a	16.88 b	16.50 a	17.4 a
1 NO LIBERTY								
2 1 DAP	B	3.5 a	16.38 a	16.38 a	17.88 a	17.63 ab	17.75 a	17.2 a
1 NO LIBERTY								
1 7 DBP + 1 DAP	A	3.5 a	16.88 a	17.88 a	18.50 a	18.38 a	17.38 a	17.8 a
2 LIBERTY	2.34 SL 32.0 oz/a							
2 1 DAP	B	3.5 a	17.63 a	17.50 a	17.25 a	16.75 b	18.00 a	17.4 a
2 LIBERTY	2.34 SL 32.0 oz/a							
1 7 DBP + 1 DAP	A	3.5 a	17.63 a	17.38 a	17.25 a	17.13 ab	18.00 a	17.5 a
3 LIBERTY	2.34 SL 64.0 oz/a							
2 1 DAP	B	3.4 a	17.13 a	16.75 a	17.63 a	18.00 ab	18.00 a	17.5 a
3 LIBERTY	2.34 SL 64.0 oz/a							
LSD P=.10		0.39	2.330	2.074	2.773	1.352	1.761	0.85
Standard Deviation		0.28	1.696	1.509	2.018	0.984	1.282	0.62
CV		8.25	9.782	8.760	11.397	5.638	7.280	3.55

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.

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	-----	-----	-----	-----
Crop Code	Arahy	ARAHY	ARAHY	ARAHY
Part Rated	Plant -	DIRTY -	CLEAN -	CLEAN -
Rating Data Type	STUNTING	YIELD	YIELD	YIELD
Rating Unit	Percent	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Jul-20-20	Oct-19-20	Oct-19-20	Oct-19-20
PRM Data Type		T3	T3	TY6
# Subsamples, Dec.		- 1	- 1	- 0
Trt Treatment	Form Form	Rate Appl		
No. Name	Conc Type Rate Unit Code			
	15	16	17	18
TABLE OF R MEANS				
Replicate 1	0.0	22.2	21.8	5925
Replicate 2	1.7	20.9	20.5	5573
Replicate 3	0.8	22.2	21.7	5916
Replicate 4	0.0	20.2	19.8	5391
TABLE OF A (TIMING) MEANS				
1 7 DBP + 1 DAP A	0.4 a	21.2 a	20.8 a	5653 a
2 1 DAP B	0.8 a	21.5 a	21.1 a	5749 a
LSD P=.10	0.98	1.32	1.29	351.5
Standard Deviation	1.02	1.37	1.34	365.9
CV	163.30	6.42	6.42	6.4
TABLE OF B (RATE) MEANS				
1 NO LIBERTY	0.0 a	20.9 a	20.4 a	5568 a
2 LIBERTY 2.34 SL 32.0 oz/a	1.3 a	21.4 a	21.0 a	5721 a
3 LIBERTY 2.34 SL 64.0 oz/a	0.6 a	21.8 a	21.4 a	5815 a
LSD P=.10	2.36	0.94	0.92	250.2
Standard Deviation	2.43	0.96	0.95	257.5
CV	388.73	4.52	4.52	4.5
TABLE OF A (TIMING) B (RATE) MEANS				
1 7 DBP + 1 DAP A	0.0 a	20.5 a	20.0 a	5458 a
1 NO LIBERTY				
2 1 DAP B	0.0 a	21.3 a	20.8 a	5678 a
1 NO LIBERTY				
1 7 DBP + 1 DAP A	1.3 a	21.4 a	20.9 a	5698 a
2 LIBERTY 2.34 SL 32.0 oz/a				
2 1 DAP B	1.3 a	21.5 a	21.1 a	5745 a
2 LIBERTY 2.34 SL 32.0 oz/a				
1 7 DBP + 1 DAP A	0.0 a	21.8 a	21.3 a	5805 a
3 LIBERTY 2.34 SL 64.0 oz/a				
2 1 DAP B	1.3 a	21.8 a	21.4 a	5825 a
3 LIBERTY 2.34 SL 64.0 oz/a				
LSD P=.10	1.40	1.23	1.21	329.1
Standard Deviation	1.02	0.90	0.88	239.5
CV	163.30	4.20	4.20	4.2

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.

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ---- Arahya Stunting Percent Jun-5-20 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	2	0.000000	0.000000	0.000	1.0000	.
RB	6	0.000000	0.000000			
AB	2	0.000000	0.000000	0.000	1.0000	.
RAB	6	0.000000	0.000000			

COMPLETE FACTORIAL AOV For ----- Arahya Plant Stand #/5 ft Jun-15-20 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	62.500000				
R	3	8.833333	2.944444	1.076	0.4273	
A	1	2.666667	2.666667	0.490	0.5344	2.2
RA	3	16.333333	5.444444			
B	2	9.250000	4.625000	4.325	0.0687	1.0
RB	6	6.416667	1.069444			
AB	2	2.583333	1.291667	0.472	0.6451	2.3
RAB	6	16.416667	2.736111			

COMPLETE FACTORIAL AOV For ----- Arahya Hgt1 In Jun-25-20 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	6.958333				
R	3	0.708333	0.236111	0.819	0.5288	
A	1	0.041667	0.041667	0.600	0.4950	0.25
RA	3	0.208333	0.069444			
B	2	0.770833	0.385417	0.776	0.5014	0.68
RB	6	2.979167	0.496528			
AB	2	0.520833	0.260417	0.904	0.4539	0.74
RAB	6	1.729167	0.288194			

COMPLETE FACTORIAL AOV For ----- Arahya Hgt2 In Jun-25-20 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	6.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.041667	0.041667	0.111	0.7608	0.59
RA	3	1.125000	0.375000			
B	2	0.562500	0.281250	0.771	0.5033	0.59
RB	6	2.187500	0.364583			
AB	2	1.020833	0.510417	2.882	0.1327	0.58
RAB	6	1.062500	0.177083			

COMPLETE FACTORIAL AOV For ----- Arahya Hgt3 In Jun-25-20 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	8.125000				
R	3	1.125000	0.375000	1.125	0.4108	
A	1	0.000000	0.000000	0.000	1.0000	0.55
RA	3	1.000000	0.333333			
B	2	0.250000	0.125000	0.375	0.7023	0.56
RB	6	2.000000	0.333333			
AB	2	1.750000	0.875000	2.625	0.1517	0.79
RAB	6	2.000000	0.333333			

COMPLETE FACTORIAL AOV For ----- Arahya Hgt4 In Jun-25-20 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	4.125000				
R	3	1.375000	0.458333	4.552	0.0546	
A	1	0.041667	0.041667	0.176	0.7027	0.47
RA	3	0.708333	0.236111			
B	2	0.187500	0.093750	0.529	0.6141	0.41
RB	6	1.062500	0.177083			
AB	2	0.145833	0.072917	0.724	0.5227	0.44
RAB	6	0.604167	0.100694			

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.

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- Arahya Hgt5 In Jun-25-20 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	4.489583				
R	3	0.697917	0.232639	2.030	0.2112	
A	1	0.510417	0.510417	5.444	0.1018	0.29
RA	3	0.281250	0.093750			
B	2	0.770833	0.385417	2.018	0.2137	0.42
RB	6	1.145833	0.190972			
AB	2	0.395833	0.197917	1.727	0.2556	0.47
RAB	6	0.687500	0.114583			

COMPLETE FACTORIAL AOV For ----- Arahya Hgt-AVG In Jun-25-20 T1 1 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	1.586250				
R	3	0.284583	0.094861	1.196	0.3881	
A	1	0.070417	0.070417	3.647	0.1522	0.1
RA	3	0.057917	0.019306			
B	2	0.092500	0.046250	0.830	0.4804	0.2
RB	6	0.334167	0.055694			
AB	2	0.270833	0.135417	1.708	0.2588	0.4
RAB	6	0.475833	0.079306			

COMPLETE FACTORIAL AOV For ----- Arahya Twin Width1 In Jun-25-20 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	33.833333				
R	3	2.250000	0.750000	0.261	0.8513	
A	1	2.041667	2.041667	2.579	0.2066	0.85
RA	3	2.375000	0.791667			
B	2	0.083333	0.041667	0.111	0.8966	0.59
RB	6	2.250000	0.375000			
AB	2	7.583333	3.791667	1.319	0.3352	2.33
RAB	6	17.250000	2.875000			

COMPLETE FACTORIAL AOV For ----- Arahya Twin Width2 In Jun-25-20 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	35.989583				
R	3	1.281250	0.427083	0.188	0.9012	
A	1	3.010417	3.010417	4.844	0.1151	0.76
RA	3	1.864583	0.621528			
B	2	2.583333	1.291667	0.596	0.5806	1.43
RB	6	13.000000	2.166667			
AB	2	0.583333	0.291667	0.128	0.8822	2.07
RAB	6	13.666667	2.277778			

COMPLETE FACTORIAL AOV For ----- Arahya Twin Width3 In Jun-25-20 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	55.458333				
R	3	6.208333	2.069444	0.508	0.6910	
A	1	0.375000	0.375000	0.127	0.7454	1.65
RA	3	8.875000	2.958333			
B	2	0.895833	0.447917	0.232	0.8000	1.35
RB	6	11.604167	1.934028			
AB	2	3.062500	1.531250	0.376	0.7017	2.77
RAB	6	24.437500	4.072917			

COMPLETE FACTORIAL AOV For ----- Arahya Twin Width4 In Jun-25-20 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	40.958333				
R	3	5.208333	1.736111	1.792	0.2487	
A	1	0.000000	0.000000	0.000	1.0000	0.28
RA	3	0.250000	0.083333			
B	2	0.520833	0.260417	0.074	0.9299	1.83
RB	6	21.229167	3.538194			
AB	2	7.937500	3.968750	4.097	0.0755	1.35
RAB	6	5.812500	0.968750			

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.

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- Arahy Twin Width5 In Jun-25-20 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	43.989583				
R	3	9.031250	3.010417	1.833	0.2417	
A	1	2.343750	2.343750	0.633	0.4845	1.85
RA	3	11.114583	3.704861			
B	2	3.145833	1.572917	1.360	0.3257	1.04
RB	6	6.937500	1.156250			
AB	2	1.562500	0.781250	0.476	0.6430	1.76
RAB	6	9.854167	1.642361			

COMPLETE FACTORIAL AOV For ----- Arahy Twin Width-AVG in Jun-25-20 T2 1 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	6.393333				
R	3	1.143333	0.381111	0.993	0.4573	
A	1	0.201667	0.201667	0.621	0.4884	0.5
RA	3	0.975000	0.325000			
B	2	0.395833	0.197917	0.978	0.4289	0.4
RB	6	1.214167	0.202361			
AB	2	0.160833	0.080417	0.210	0.8166	0.9
RAB	6	2.302500	0.383750			

COMPLETE FACTORIAL AOV For ----- Arahy Plant STUNTING Percent Jul-20-20 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	65.625000				
R	3	11.458333	3.819444	3.667	0.0824	
A	1	1.041667	1.041667	1.000	0.3910	1.0
RA	3	3.125000	1.041667			
B	2	6.250000	3.125000	0.529	0.6141	2.4
RB	6	35.416667	5.902778			
AB	2	2.083333	1.041667	1.000	0.4219	1.4
RAB	6	6.250000	1.041667			

COMPLETE FACTORIAL AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Oct-19-20 1 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	38.556250				
R	3	17.574583	5.858194	7.272	0.0201	
A	1	0.770417	0.770417	0.410	0.5675	1.3
RA	3	5.637917	1.879306			
B	2	3.490000	1.745000	1.874	0.2332	0.9
RB	6	5.586667	0.931111			
AB	2	0.663333	0.331667	0.412	0.6799	1.2
RAB	6	4.833333	0.805556			

COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Oct-19-20 T3 1 (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	37.029423				
R	3	16.878630	5.626210	7.272	0.0201	
A	1	0.739908	0.739908	0.410	0.5675	1.3
RA	3	5.414655	1.804885			
B	2	3.351796	1.675898	1.874	0.2332	0.9
RB	6	5.365435	0.894239			
AB	2	0.637065	0.318533	0.412	0.6799	1.2
RAB	6	4.641933	0.773656			

COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/A Oct-19-20 TY6 0 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	23	2746250.466601				
R	3	1251786.874488	417262.291496	7.272	0.0201	
A	1	54874.556792	54874.556792	0.410	0.5675	352
RA	3	401572.540807	133857.513602			
B	2	248582.632607	124291.316303	1.874	0.2332	250
RB	6	397922.151145	66320.358524			
AB	2	47247.319856	23623.659928	0.412	0.6799	329
RAB	6	344264.390907	57377.398484			

Part Rated

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

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.

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

PRM Data Type

T1 = ([C3]+[C4]+[C5]+[C6]+[C7])/5

T2 = ([C9]+[C10]+[C11]+[C12]+[C13])/5

T3 = [C16]*0.98

TY6 = 272.3307*[17]

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					----	-----	-----	-----	-----	-----	
Crop Code					Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	
Part Rated						Plant -					
Rating Data Type					Stunting	Stand	Hgt1	Hgt2	Hgt3	Hgt4	
Rating Unit					Percent	#/5 ft	In	In	In	In	
Rating Date					Jun-5-20	Jun-15-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	
PRM Data Type											
# Subsamples, Dec.											
Trt Treatment	Form Form	Rate Appl									
No. Name	Conc Type	Rate Unit	Code Plot		1	2	3	4	5	6	7
1 7 DBP + 1 DAP NO LIBERTY			A 101		0.0	19.0	2.00	3.00	2.00	3.00	4.00
			206		0.0	21.0	3.00	2.50	4.00	4.00	4.00
			303		0.0	20.0	3.50	2.50	3.00	3.50	3.50
			402		0.0	21.0	3.50	3.00	3.00	2.50	3.00
			Mean =		0.0	20.3	3.00	2.75	3.00	3.25	3.63
2 7 DBP + 1 DAP LIBERTY	2.34 SL	32.0 oz/a	A 102		0.0	19.0	3.50	3.00	3.50	3.00	3.50
			205		0.0	21.0	3.00	3.50	3.50	4.00	3.50
			304		0.0	21.0	3.50	3.00	3.50	3.50	3.50
			405		0.0	18.0	4.00	3.50	4.00	3.00	3.50
			Mean =		0.0	19.8	3.50	3.25	3.63	3.38	3.50
3 7 DBP + 1 DAP LIBERTY	2.34 SL	64.0 oz/a	A 103		0.0	15.0	4.00	4.00	4.00	3.50	3.50
			204		0.0	20.0	4.00	2.50	2.50	3.50	3.50
			302		0.0	21.0	4.00	4.50	4.00	3.50	3.50
			401		0.0	17.0	3.00	3.50	3.50	3.00	2.50
			Mean =		0.0	18.3	3.75	3.63	3.50	3.38	3.25
4 1 DAP NO LIBERTY			B 104		0.0	21.0	2.50	3.00	3.50	4.00	4.00
			201		0.0	20.0	4.00	4.00	4.00	3.50	3.50
			306		0.0	20.0	3.50	3.50	4.00	3.50	4.00
			403		0.0	19.0	4.00	3.00	3.50	2.50	3.00
			Mean =		0.0	20.0	3.50	3.38	3.75	3.38	3.63
5 1 DAP LIBERTY	2.34 SL	32.0 oz/a	B 105		0.0	21.0	4.00	3.00	3.00	3.50	4.00
			203		0.0	21.0	3.00	4.00	3.50	3.50	4.00
			305		0.0	22.0	3.50	3.00	4.00	3.00	4.00
			404		0.0	19.0	3.00	3.00	3.00	3.00	4.50
			Mean =		0.0	20.8	3.38	3.25	3.38	3.25	4.13
6 1 DAP LIBERTY	2.34 SL	64.0 oz/a	B 106		0.0	21.0	3.00	3.50	3.00	3.50	3.50
			202		0.0	20.0	4.00	3.00	3.50	3.50	4.00
			301		0.0	17.0	3.50	3.00	3.50	3.50	3.00
			406		0.0	20.0	4.00	3.50	2.00	4.00	3.50
			Mean =		0.0	19.5	3.63	3.25	3.00	3.63	3.50

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					----- Arahy	----- Arahy Twin - Width1	----- Arahy Twin - Width2	----- Arahy Twin - Width3	----- Arahy Twin - Width4	----- Arahy Twin - Width5
Crop Code					Hgt-AVG	In	In	In	In	In
Part Rated					Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20	Jun-25-20
Rating Data Type					T1					
Rating Unit					- 1					
Rating Date										
PRM Data Type										
# Subsamples, Dec.										
Trt Treatment	Form Form	Rate Appl								
No. Name	Conc Type	Rate Unit	Code Plot		8	9	10	11	12	13
1 7 DBP + 1 DAP NO LIBERTY			A 101		2.8	19.00	16.00	18.00	17.00	16.00
			206		3.5	17.50	17.00	21.00	16.50	16.00
			303		3.2	18.00	19.00	17.00	17.00	16.00
			402		3.0	19.00	18.00	15.00	17.00	18.00
			Mean =		3.1	18.38	17.50	17.75	16.88	16.50
2 7 DBP + 1 DAP LIBERTY	2.34 SL	32.0 oz/a	A 102		3.3	15.50	17.00	18.00	19.00	17.00
			205		3.5	19.00	20.50	18.00	17.50	17.50
			304		3.4	16.00	18.00	18.00	19.00	16.00
			405		3.6	17.00	16.00	20.00	18.00	19.00
			Mean =		3.5	16.88	17.88	18.50	18.38	17.38
3 7 DBP + 1 DAP LIBERTY	2.34 SL	64.0 oz/a	A 103		3.8	18.00	19.00	15.00	17.00	17.00
			204		3.2	19.00	16.50	17.00	20.00	20.00
			302		3.9	17.00	16.00	18.00	16.50	19.00
			401		3.1	16.50	18.00	19.00	15.00	16.00
			Mean =		3.5	17.63	17.38	17.25	17.13	18.00
4 1 DAP NO LIBERTY			B 104		3.4	15.50	15.50	19.00	19.50	19.00
			201		3.8	18.00	17.00	17.00	18.00	19.00
			306		3.7	15.00	16.00	18.50	17.00	16.00
			403		3.2	17.00	17.00	17.00	16.00	17.00
			Mean =		3.5	16.38	16.38	17.88	17.63	17.75
5 1 DAP LIBERTY	2.34 SL	32.0 oz/a	B 105		3.5	18.00	18.00	16.00	17.00	20.00
			203		3.6	16.00	17.00	17.00	15.00	18.00
			305		3.5	19.00	18.00	20.00	18.00	16.00
			404		3.3	17.50	17.00	16.00	17.00	18.00
			Mean =		3.5	17.63	17.50	17.25	16.75	18.00
6 1 DAP LIBERTY	2.34 SL	64.0 oz/a	B 106		3.3	16.50	15.50	18.00	17.00	19.50
			202		3.6	17.00	16.00	19.00	20.00	18.00
			301		3.3	17.00	17.00	18.00	18.00	16.50
			406		3.4	18.00	18.50	15.50	17.00	18.00
			Mean =		3.4	17.13	16.75	17.63	18.00	18.00

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	ARAHY	ARAHY	ARAHY
Part Rated	Twin -	Plant -	DIRTY -	CLEAN -	CLEAN -
Rating Data Type	Width-AVG	STUNTING	YIELD	YIELD	YIELD
Rating Unit	in	Percent	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Jun-25-20	Jul-20-20	Oct-19-20	Oct-19-20	Oct-19-20
PRM Data Type	T2			T3	TY6
# Subsamples, Dec.	- 1		- 1	- 1	- 0
Trt Treatment	Form Form	Rate Appl			
No. Name	Conc Type Rate Unit Code Plot				
1 7 DBP + 1 DAP	A 101	17.2	0.0	20.5	20.1
NO LIBERTY	206	17.6	0.0	20.3	19.9
	303	17.4	0.0	21.8	21.4
	402	17.4	0.0	19.2	18.8
	Mean =	17.4	0.0	20.5	20.0
2 7 DBP + 1 DAP	A 102	17.3	0.0	23.6	23.1
LIBERTY	205	18.5	5.0	19.9	19.5
2.34 SL 32.0 oz/a	304	17.4	0.0	21.8	21.4
	405	18.0	0.0	20.1	19.7
	Mean =	17.8	1.3	21.4	20.9
3 7 DBP + 1 DAP	A 103	17.2	0.0	21.8	21.4
LIBERTY	204	18.5	0.0	19.6	19.2
2.34 SL 64.0 oz/a	302	17.3	0.0	23.7	23.2
	401	16.9	0.0	21.9	21.5
	Mean =	17.5	0.0	21.8	21.3
4 1 DAP	B 104	17.7	0.0	21.7	21.3
NO LIBERTY	201	17.8	0.0	21.5	21.1
	306	16.5	0.0	22.5	22.1
	403	16.8	0.0	19.4	19.0
	Mean =	17.2	0.0	21.3	20.8
5 1 DAP	B 105	17.8	0.0	22.5	22.1
LIBERTY	203	16.6	5.0	21.9	21.5
2.34 SL 32.0 oz/a	305	18.2	0.0	21.0	20.6
	404	17.1	0.0	20.7	20.3
	Mean =	17.4	1.3	21.5	21.1
6 1 DAP	B 106	17.3	0.0	23.1	22.6
LIBERTY	202	18.0	0.0	22.1	21.7
2.34 SL 64.0 oz/a	301	17.3	5.0	22.2	21.8
	406	17.4	0.0	19.9	19.5
	Mean =	17.5	1.3	21.8	21.4

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED LIBERTY

Trial ID: PE-21-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

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

PRM Data Type

T1 = $([C3] + [C4] + [C5] + [C6] + [C7]) / 5$

T2 = $([C9] + [C10] + [C11] + [C12] + [C13]) / 5$

T3 = $[C16] * 0.98$

TY6 = $272.3307 * [17]$