

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID: PE-16-20 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 Unit	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	PREPLANT NO ROUNDUP P-MAX II					A		-	101	212	311	408
2	PREPLANT ROUNDUP P-MAX II	5.5	SL	32.0	oz/a	A	25.0 mL/mx	1475 mL	102	211	302	407
3	PREPLANT ROUNDUP P-MAX II	5.5	SL	64.0	oz/a	A	49.99 mL/mx	1450.0 mL	103	209	308	409
4	PREPLANT ROUNDUP P-MAX II	5.5	SL	96.0	oz/a	A	74.99 mL/mx	1425.0 mL	104	206	304	412
5	PREPLANT ROUNDUP P-MAX II	5.5	SL	128.0	oz/a	A	99.99 mL/mx	1400.0 mL	105	202	306	410
6	PREPLANT ROUNDUP P-MAX II	5.5	SL	160.0	oz/a	A	125.0 mL/mx	1375 mL	106	201	309	403
7	PREEMERGENCE NO ROUNDUP P-MAX II					B		-	107	208	307	405
8	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	32.0	oz/a	B	25.0 mL/mx	1475 mL	108	205	310	401
9	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	64.0	oz/a	B	49.99 mL/mx	1450.0 mL	109	210	305	404
10	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	96.0	oz/a	B	74.99 mL/mx	1425.0 mL	110	204	303	411
11	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	128.0	oz/a	B	99.99 mL/mx	1400.0 mL	111	203	312	402
12	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	160.0	oz/a	B	125.0 mL/mx	1375 mL	112	207	301	406

Sort Order: Treatment

Trial Comments

LAST TILLAGE (04/27/20)
MAINTAIN WEED-FREE
STRONGARM @ 0.45 OZ/A + VALOR @ 3 OZ/A + PROWL H2O @ 32 OZ/A (04/28/20)
SELECT MAX @ 12 OZ/A + NIS - JUNE 1/JUNE26/JULY 13
WARRANT @ 48 OZ/A - JULY 1

DIGGING DATE: SEPTEMBER 22
HARVEST DATE: OCTOBER 2
HARVEST MOISTURE: 10.8%
YIELD ADJUSTED TO 10%.
2% YIELD DEDUCTION FOR FM

SUMMARY:

- 1) GENERALLY, NO INTERACTIONS BETWEEN TIMING AND RATE WERE OBSERVED ($P > 0.14$).
- 2) AT 10 AND 24 DAP, SOIL APPLIED GLYPHOSATE HAD NO EFFECT ON PEANUT PLANT STAND ($P > 0.22$).
- 3) ON JUNE 23 (50 DAP), SOIL APPLIED GLYPHOSATE HAD NO EFFECT ON PEANUT PLANT HEIGHT OR WIDTH ($P > 0.20$).
- 4) SOIL APPLIED GLYPHOSATE HAD NO EFFECT ON PEANUT YIELD ($P > 0.40$). AVERAGE YIELD FOR THIS TEST WAS 4982 LBS/A

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID: PE-16-20 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-4-20
Planting Method: MONOSEM TWIN ROW Rate: 3.1 SEED/FT Depth: 2 IN
Perennial Age: _____ Row Spacing: _____ Seed Bed: _____
Soil Temperature: _____ Soil Moisture: DRY 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: 1 TON/A LIME PREPLANT; 300 LBS/A 5-15-30 PREPLANT;
RANCONA SEED TRT; THIMET INFR; 36"-9" TWIN ROWS; 1000 LBS/A GYPSUM

Previous: Crops Pesticides Year
1. COTTON _____ 2019

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

Texture: SAND % OM: 0.61 % Sand: 94 % Silt: 2 % Clay: 4
pH: 6.0 CEC: 2.2 Soil Name: TIFTON Fertility Level: GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-30-20	_____	0.9	IN	RAINFALL	_____	_____
2. May-5-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. May-7-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
4. May-13-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
5. May-14-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
6. May-17-20	_____	0.11	IN	RAINFALL	_____	_____
7. May-20-20	_____	1.3	IN	RAINFALL	_____	_____
8. May-22-20	_____	1.2	IN	RAINFALL	_____	_____
9. May-26-20	_____	0.26	IN	RAINFALL	_____	_____
10. May-28-20	_____	0.41	IN	RAINFALL	_____	_____
11. May-29-20	_____	0.19	IN	RAINFALL	_____	_____
12. Jun-6-20	_____	0.07	IN	RAINFALL	_____	_____
13. Jun-7-20	_____	0.59	IN	RAINFALL	_____	_____
14. Jun-9-20	_____	0.15	IN	RAINFALL	_____	_____
15. Jun-12-20	_____	2.67	IN	RAINFALL	_____	_____
16. Jun-19-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
17. Jun-22-20	_____	0.61	IN	RAINFALL	_____	_____
18. Jun-24-20	_____	0.65	IN	SPRINKLER - LATERAL MOVE	_____	_____
19. Jul-5-20	_____	0.5	IN	RAINFALL	_____	_____
20. Jul-6-20	_____	0.5	IN	RAINFALL	_____	_____

Overall Moisture Conditions:

Closest Weather Station: _____ Distance: _____ Unit: _____

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Trial ID: PE-16-20 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	Apr-28-20	May-5-20					
Time of Day:	7:30 AM	7:30 AM					
Application Method:	BROADCAST	BROADCAST					
Application Timing:	PPLNT	PRE					
Applic. Placement:	SOIL	SOIL					
Air Temp., Unit:	56 F	69 F					
% Relative Humidity:	86	90					
Wind Velocity, Unit:	1 MPH	6 MPH					
Dew Presence (Y/N):	Y	N					
Water Hardness:	--	--					
Soil Temp., Unit:	62 F	72 F					
Soil Moisture:	OPTIMUM	OPTIMUM					
% Cloud Cover:	0	0					

		G	H	I	J	K	L
Application Date:							
Time of Day:							
Application Method:							
Application Timing:							
Applic. Placement:							
Air Temp., Unit:							
% Relative Humidity:							
Wind Velocity, Unit:							
Dew Presence (Y/N):							
Water Hardness:							
Soil Temp., Unit:							
Soil Moisture:							
% Cloud Cover:							

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

		G	H	I	J	K	L
Crop 1	Stage:						
	Stage Scale:						
	Height, Unit:						

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

		G	H	I	J	K	L
Weed 1	Stage:						
	Stage Scale:						
	Density, Unit:						

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID: PE-16-20 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK					
Operating Pressure:	42	40					
Nozzle Type:	AIXR	TTI					
Nozzle Size:	11002	02					
Nozzle Spacing, Unit:	20	IN 20	IN				
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN 60	IN				
Boom Height, Unit:	20	IN 20	IN				
Ground Speed, Unit:	3.5	MPH 3.5	MPH				
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER	WATER					
Spray Volume, Unit:	15	GPA 15	GPA				
Spray pH:							
Propellant:	CO2	CO2					
Tank Mix (Y/N):	-	-					
		G	H	I	J	K	L
Appl. Equipment:							
Operating Pressure:							
Nozzle Type:							
Nozzle Size:							
Nozzle Spacing, Unit:							
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:							
Boom Height, Unit:							
Ground Speed, Unit:							
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:							
Spray Volume, Unit:							
Spray pH:							
Propellant:							
Tank Mix (Y/N):	-	-					

Trt No Treatment Application Comment

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID: PE-16-20		Study Dir.: Eric P. Prostko				
Location: PONDER FARM		Investigator:				
Weed Code		----	----	-----	-----	-----
Crop Code		Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated		Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type		Stand	Stunting	Stand	Stunting	Stunting
Rating Unit		#/ 5ft	Percent	#/5 ft	Percent	Percent
Rating Date		May-14-20	May-18-20	May-28-20	May-28-20	Jun-17-20
PRM Data Type						
# Subsamples, Dec.						
Trt Treatment	Form Form	Rate Appl				
No. Name	Conc Type Rate Unit Code					
		1	2	3	4	5
TABLE OF R MEANS						
Replicate 1		7.3	0.0	18.3	0.0	0.8
Replicate 2		10.8	0.0	19.8	0.0	1.7
Replicate 3		11.3	0.0	18.2	0.0	0.8
Replicate 4		10.8	0.0	19.3	0.0	0.8
TABLE OF A (TIMING) MEANS						
1 PREPLANT	A	10.3 a	0.0 a	18.4 a	0.0 a	1.3 a
2 PREEMERGENCE	B	9.9 a	0.0 a	19.4 a	0.0 a	0.8 a
LSD P=.10		2.20	.	1.30	.	2.94
Standard Deviation		3.23	0.00	1.92	0.00	4.33
CV		32.05	0.00	10.16	0.00	415.69
TABLE OF B (RATE) MEANS						
1 NO ROUNDUP P-MAX II		10.1 a	0.0 a	19.3 a	0.0 a	0.0 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a	11.4 a	0.0 a	19.9 a	0.0 a	0.0 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a	10.4 a	0.0 a	18.9 a	0.0 a	0.0 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a	9.8 a	0.0 a	19.4 a	0.0 a	2.5 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a	9.3 a	0.0 a	18.6 a	0.0 a	2.5 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a	9.6 a	0.0 a	17.4 a	0.0 a	1.3 a
LSD P=.10		2.61	.	1.70	.	2.59
Standard Deviation		2.98	0.00	1.93	0.00	2.96
CV		29.59	0.00	10.24	0.00	283.97
TABLE OF A (TIMING) B (RATE) MEANS						
1 PREPLANT	A	11.5 a	0.0 a	20.0 a	0.0 a	0.0 a
1 NO ROUNDUP P-MAX II						
2 PREEMERGENCE	B	8.8 a	0.0 a	18.5 a	0.0 a	0.0 a
1 NO ROUNDUP P-MAX II						
1 PREPLANT	A	12.0 a	0.0 a	21.3 a	0.0 a	0.0 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
2 PREEMERGENCE	B	10.8 a	0.0 a	18.5 a	0.0 a	0.0 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
1 PREPLANT	A	10.5 a	0.0 a	18.8 a	0.0 a	0.0 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
2 PREEMERGENCE	B	10.3 a	0.0 a	19.0 a	0.0 a	0.0 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
1 PREPLANT	A	9.8 a	0.0 a	18.0 a	0.0 a	2.5 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
2 PREEMERGENCE	B	9.8 a	0.0 a	20.8 a	0.0 a	2.5 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
1 PREPLANT	A	8.8 a	0.0 a	16.5 a	0.0 a	2.5 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
2 PREEMERGENCE	B	9.8 a	0.0 a	20.8 a	0.0 a	2.5 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
1 PREPLANT	A	9.0 a	0.0 a	15.8 a	0.0 a	2.5 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a					

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES							
Trial ID: PE-16-20		Study Dir.: Eric P. Prostko					
Location: PONDER FARM		Investigator:					
Weed Code	----	Arahy	---	Arahy	-----	Arahy	-----
Crop Code		Plant -	Arahy	Plant -	Arahy	Plant -	Arahy
Part Rated		Stand	Stunting	Stand	Stunting	Stunting	Height1
Rating Data Type		#/ 5ft	Percent	#/5 ft	Percent	Percent	In
Rating Unit		May-14-20	May-18-20	May-28-20	May-28-20	Jun-17-20	Jun-23-20
Rating Date							
PRM Data Type							
# Subsamples, Dec.							
Trt Treatment	Form Form	Rate Appl					
No. Name	Conc Type Rate Unit Code	1	2	3	4	5	6
2 PREEMERGENCE	B	10.3 a	0.0 a	19.0 a	0.0 a	0.0 a	4.13 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a						
LSD P=.10		2.31	.	3.83	.	4.31	0.877
Standard Deviation		1.86	0.00	3.09	0.00	3.48	0.708
CV		18.49	0.00	16.36	0.00	333.71	15.840

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Trial ID: PE-16-20		Study Dir.: Eric P. Prostko				
Location: PONDER FARM		Investigator:				
Weed Code	-----	Arahy	-----	Arahy	-----	Arahy
Crop Code	Plant -	Plant -	Plant -	Plant -	Plant -	Twin -
Part Rated	Height2	Height3	Height4	Height5	HGT-AVG	Width1
Rating Data Type	In	In	In	In	In	In
Rating Unit	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20
Rating Date						
PRM Data Type						
# Subsamples, Dec.					T1	
					- 1	
Trt Treatment	Form Form	Rate Appl				
No. Name	Conc Type Rate Unit Code					
	7	8	9	10	11	12
TABLE OF R MEANS						
Replicate 1	3.92	4.25	4.00	4.54	4.2	20.71
Replicate 2	4.54	4.42	4.71	4.92	4.6	21.88
Replicate 3	4.75	4.75	4.88	4.96	4.8	22.21
Replicate 4	4.58	4.50	4.75	4.88	4.6	21.33
TABLE OF A (TIMING) MEANS						
1 PREPLANT	A	4.33 b	4.42 a	4.56 a	4.73 a	21.48 a
2 PREEMERGENCE	B	4.56 a	4.54 a	4.60 a	4.92 a	21.58 a
LSD P=.10	0.186	0.247	0.497	0.370	0.23	2.076
Standard Deviation	0.273	0.363	0.731	0.545	0.34	3.056
CV	6.143	8.110	15.954	11.297	7.48	14.193
TABLE OF B (RATE) MEANS						
1 NO ROUNDUP P-MAX II		4.31 a	4.31 a	4.63 bc	5.13 a	21.31 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a	4.75 a	4.63 a	4.81 ab	4.88 a	21.56 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a	4.19 a	4.31 a	4.25 cd	4.75 a	20.94 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a	4.44 a	4.13 a	4.06 d	4.56 a	21.56 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a	4.44 a	4.81 a	5.13 a	5.06 a	22.00 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a	4.56 a	4.69 a	4.63 bc	4.56 a	21.81 a
LSD P=.10	0.676	0.622	0.490	0.451	0.36	1.933
Standard Deviation	0.771	0.710	0.559	0.515	0.41	2.205
CV	17.329	15.852	12.197	10.672	8.96	10.243
TABLE OF A (TIMING) B (RATE) MEANS						
1 PREPLANT	A	4.63 abc	4.88 ab	4.75 a	5.38 ab	21.63 a
1 NO ROUNDUP P-MAX II						
2 PREEMERGENCE	B	4.00 d	3.75 d	4.50 a	4.88 c	21.00 a
1 NO ROUNDUP P-MAX II						
1 PREPLANT	A	4.50 a-d	4.50 abc	5.00 a	4.88 c	22.13 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
2 PREEMERGENCE	B	5.00 a	4.75 ab	4.63 a	4.88 c	21.00 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
1 PREPLANT	A	4.13 cd	3.88 cd	4.38 a	4.63 cd	21.13 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
2 PREEMERGENCE	B	4.25 bcd	4.75 ab	4.13 a	4.88 c	20.75 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
1 PREPLANT	A	4.00 d	4.25 bcd	3.88 a	4.75 cd	21.25 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
2 PREEMERGENCE	B	4.88 a	4.00 cd	4.25 a	4.38 de	21.88 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
1 PREPLANT	A	4.13 cd	4.50 abc	4.75 a	4.63 cd	20.25 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
2 PREEMERGENCE	B	4.75 ab	5.13 a	5.50 a	5.50 a	23.75 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
1 PREPLANT	A	4.63 abc	4.50 abc	4.63 a	4.13 e	22.50 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a					

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.

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Trial ID: PE-16-20		Study Dir.: Eric P. Prostko				
Location: PONDER FARM		Investigator: Eric P. Prostko				
Weed Code	-----	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated	Plant -	Plant -	Plant -	Plant -	Plant -	Twin -
Rating Data Type	Height2	Height3	Height4	Height5	HGT-AVG	Width1
Rating Unit	In	In	In	In	In	In
Rating Date	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20
PRM Data Type					T1	
# Subsamples, Dec.					- 1	
Trt Treatment	Form Form	Rate Appl				
No. Name	Conc Type Rate Unit Code					
	7	8	9	10	11	12
2 PREEMERGENCE						
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a	B	4.50 a-d	4.88 ab	4.63 a	5.00 bc
			4.6 a	5.00 bc	4.6 a	21.13 a
LSD P=.10	0.598	0.696	1.258	0.482	0.46	2.871
Standard Deviation	0.483	0.561	1.015	0.389	0.37	2.316
CV	10.852	12.536	22.149	8.058	8.10	10.756

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Trial ID: PE-16-20		Study Dir.: Eric P. Prostko				
Location: PONDER FARM		Investigator:		Eric P. Prostko		
Weed Code	-----	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated	Twin -	Twin -	Twin -	Twin -	Twin -	Plant -
Rating Data Type	Width2	Width3	Width4	Width5	AVG-WIDT	Stunting
Rating Unit	In	In	In	In	In	Percent
Rating Date	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jul-22-20
PRM Data Type					T2	
# Subsamples, Dec.	- 1					
Trt Treatment	Form	Form	Rate Appl			
No. Name	Conc	Type	Rate	Unit	Code	
	13	14	15	16	17	18
TABLE OF R MEANS						
Replicate 1	19.21	19.33	20.04	20.83	20.0	0.0
Replicate 2	21.88	22.13	21.67	23.33	22.2	0.0
Replicate 3	23.04	23.58	22.88	23.08	23.0	0.0
Replicate 4	22.29	22.71	22.08	22.83	22.3	0.0
TABLE OF A (TIMING) MEANS						
1 PREPLANT	A	21.73 a	22.19 a	21.65 a	22.65 a	21.9 a
2 PREEMERGENCE	B	21.48 a	21.69 a	21.69 a	22.40 a	21.8 a
LSD P=.10		1.476	1.666	2.237	2.187	1.82
Standard Deviation		2.173	2.452	3.292	3.219	2.68
CV		10.059	11.179	15.196	14.293	12.28
TABLE OF B (RATE) MEANS						
1 NO ROUNDUP P-MAX II		21.56 a	21.38 a	22.31 a	21.94 a	21.7 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a	21.38 a	21.50 a	21.19 a	22.44 a	21.6 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a	21.06 a	21.00 a	21.75 a	22.31 a	21.4 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a	21.88 a	22.44 a	21.06 a	22.56 a	21.9 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a	22.00 a	22.06 a	21.94 a	23.31 a	22.3 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a	21.75 a	23.25 a	21.75 a	22.56 a	22.2 a
LSD P=.10		1.453	1.684	1.687	1.616	1.11
Standard Deviation		1.657	1.921	1.925	1.844	1.26
CV		7.672	8.758	8.885	8.188	5.78
TABLE OF A (TIMING) B (RATE) MEANS						
1 PREPLANT	A	22.38 a	22.63 a	22.25 a	22.63 a	22.3 a
1 NO ROUNDUP P-MAX II						
2 PREEMERGENCE	B	20.75 a	20.13 a	22.38 a	21.25 a	21.1 a
1 NO ROUNDUP P-MAX II						
1 PREPLANT	A	22.38 a	21.50 a	21.00 a	22.88 a	22.0 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
2 PREEMERGENCE	B	20.38 a	21.50 a	21.38 a	22.00 a	21.3 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
1 PREPLANT	A	20.88 a	21.38 a	22.25 a	23.25 a	21.8 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
2 PREEMERGENCE	B	21.25 a	20.63 a	21.25 a	21.38 a	21.1 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
1 PREPLANT	A	21.63 a	22.63 a	20.25 a	22.88 a	21.7 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
2 PREEMERGENCE	B	22.13 a	22.25 a	21.88 a	22.25 a	22.1 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
1 PREPLANT	A	21.63 a	21.25 a	21.88 a	22.13 a	21.4 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
2 PREEMERGENCE	B	22.38 a	22.88 a	22.00 a	24.50 a	23.1 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
1 PREPLANT	A	21.50 a	23.75 a	22.25 a	22.13 a	22.4 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a					

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.

PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES							
Trial ID: PE-16-20		Study Dir.:					
Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code		----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	
Crop Code		Twin -	Twin -	Twin -	Twin -	Twin -	Arahy Plant -
Part Rated		Width2	Width3	Width4	Width5	AVG-WIDT	Stunting
Rating Data Type		In	In	In	In	In	Percent
Rating Unit		Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jul-22-20
Rating Date							
PRM Data Type						T2	
# Subsamples, Dec.						- 1	
Trt Treatment	Form Form	Rate Appl					
No. Name	Conc Type Rate Unit Code						
2 PREEMERGENCE	B	22.00 a	22.75 a	21.25 a	23.00 a	22.0 a	0.0 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a						
LSD P=.10		2.704	3.083	3.084	2.129	1.81	.
Standard Deviation		2.182	2.487	2.488	1.717	1.46	0.00
CV		10.098	11.336	11.483	7.625	6.66	0.00

Means followed by same letter or symbol do not significantly differ ($P=0.10$, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID: PE-16-20		Study Dir.: Eric P. Prostko				
Location: PONDER FARM		Investigator:		Eric P. Prostko		
Weed Code	----	----	----	----	----	----
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated	Plant -	Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type	Height1	Height2	Height3	Height4	Height5	Height
Rating Unit	Inches	Inches	Inches	Inches	Inches	Inches
Rating Date	Jul-22-20	Jul-22-20	Jul-22-20	Jul-22-20	Jul-22-20	Jul-22-20
PRM Data Type						
# Subsamples, Dec.						
Trt Treatment	Form	Form	Rate	Appl		
No. Name	Conc	Type	Rate	Unit	Code	
	19	20	21	22	23	24
TABLE OF R MEANS						
Replicate 1	9.88	8.33	9.13	9.38	9.08	9.2
Replicate 2	10.25	9.42	10.13	10.83	10.25	10.2
Replicate 3	11.00	10.33	11.29	11.58	10.67	11.0
Replicate 4	10.88	10.17	11.25	11.92	11.17	11.1
TABLE OF A (TIMING) MEANS						
1 PREPLANT	A	10.21 a	9.38 a	10.42 a	11.00 a	10.33 a
2 PREEMERGENCE	B	10.79 a	9.75 a	10.48 a	10.85 a	10.25 a
LSD P=.10		3.010	1.957	1.532	1.988	2.233
Standard Deviation		4.430	2.881	2.256	2.926	3.287
CV		42.191	30.125	21.591	26.776	31.940
TABLE OF B (RATE) MEANS						
1 NO ROUNDUP P-MAX II		10.88 a	9.69 a	10.94 a	10.88 a	10.56 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a	10.25 a	8.75 a	9.69 a	10.69 a	9.69 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a	10.94 a	9.75 a	10.63 a	11.50 a	10.75 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a	10.94 a	9.75 a	10.69 a	10.88 a	10.44 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a	9.88 a	9.63 a	10.38 a	11.00 a	10.50 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a	10.13 a	9.81 a	10.38 a	10.63 a	9.81 a
LSD P=.10		1.403	1.095	1.129	1.315	1.462
Standard Deviation		1.601	1.249	1.288	1.501	1.667
CV		15.246	13.066	12.329	13.735	16.202
TABLE OF A (TIMING) B (RATE) MEANS						
1 PREPLANT	A	11.25 ab	10.38 a	11.63 a	12.25 a	11.50 a
1 NO ROUNDUP P-MAX II						
2 PREEMERGENCE	B	10.50 bc	9.00 a	10.25 bcd	9.50 d	9.63 a
1 NO ROUNDUP P-MAX II						
1 PREPLANT	A	10.38 bc	8.63 a	9.38 d	10.50 cd	9.88 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
2 PREEMERGENCE	B	10.13 bc	8.88 a	10.00 cd	10.88 a-d	9.50 a
2 ROUNDUP P-MAX II	5.5 SL 32.0 oz/a					
1 PREPLANT	A	11.25 ab	9.38 a	11.00 abc	12.25 a	11.13 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
2 PREEMERGENCE	B	10.63 abc	10.13 a	10.25 bcd	10.75 bcd	10.38 a
3 ROUNDUP P-MAX II	5.5 SL 64.0 oz/a					
1 PREPLANT	A	10.13 bc	9.25 a	10.50 a-d	10.50 cd	10.50 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
2 PREEMERGENCE	B	11.75 a	10.25 a	10.88 abc	11.25 abc	10.38 a
4 ROUNDUP P-MAX II	5.5 SL 96.0 oz/a					
1 PREPLANT	A	8.50 d	9.13 a	9.50 d	10.00 cd	9.63 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
2 PREEMERGENCE	B	11.25 ab	10.13 a	11.25 ab	12.00 ab	11.38 a
5 ROUNDUP P-MAX II	5.5 SL 128.0 oz/a					
1 PREPLANT	A	9.75 c	9.50 a	10.50 a-d	10.50 cd	9.38 a
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a					

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID: PE-16-20		Study Dir.: Eric P. Prostko				
Location: PONDER FARM		Investigator: Eric P. Prostko				
Weed Code		----	----	----	----	----
Crop Code		Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated		Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type		Height1	Height2	Height3	Height4	Height5
Rating Unit		Inches	Inches	Inches	Inches	Inches
Rating Date		Jul-22-20	Jul-22-20	Jul-22-20	Jul-22-20	Jul-22-20
PRM Data Type						
# Subsamples, Dec.						
Trt Treatment	Form Form	Rate Appl				
No. Name	Conc Type Rate Unit Code					
2 PREEMERGENCE						
6 ROUNDUP P-MAX II	5.5 SL 160.0 oz/a	B	10.50 bc	10.13 a	10.25 bcd	10.75 bcd
LSD P=.10			1.179	1.272	1.235	1.468
Standard Deviation			0.951	1.026	0.996	1.184
CV			9.056	10.730	9.536	10.838

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

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University of Georgia

PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES									
Trial ID:		PE-16-20		Study Dir.:					
Location:		PONDER FARM		Investigator:		Eric P. Prostko			
Weed Code				-----		-----		-----	
Crop Code				ARAHY		ARAHY		ARAHY	
Part Rated				DIRTY -		CLEAN -		CLEAN -	
Rating Data Type				YIELD		YIELD		YIELD	
Rating Unit				LBS/PLOT		LBS/PLOT		LBS/A	
Rating Date				Oct-2-20		Oct-2-20		Oct-2-20	
PRM Data Type						T4		TY5	
# Subsamples, Dec.						- 1		- 0	
Trt Treatment		Form Form		Rate Appl					
No. Name		Conc Type Rate		Unit Code		25		26	
TABLE OF R MEANS									
Replicate 1						16.45		16.1	
Replicate 2						17.49		17.1	
Replicate 3						18.45		18.1	
Replicate 4						18.25		17.9	
TABLE OF A (TIMING) MEANS									
1 PREPLANT				A		17.60 a		17.2 a	
2 PREEMERGENCE				B		17.72 a		17.4 a	
LSD P=.10						1.514		1.48	
Standard Deviation						2.228		2.18	
CV						12.615		12.61	
TABLE OF B (RATE) MEANS									
1 NO ROUNDUP P-MAX II						17.59 a		17.2 a	
2 ROUNDUP P-MAX II		5.5 SL		32.0 oz/a		17.64 a		17.3 a	
3 ROUNDUP P-MAX II		5.5 SL		64.0 oz/a		18.13 a		17.8 a	
4 ROUNDUP P-MAX II		5.5 SL		96.0 oz/a		17.20 a		16.9 a	
5 ROUNDUP P-MAX II		5.5 SL		128.0 oz/a		17.55 a		17.2 a	
6 ROUNDUP P-MAX II		5.5 SL		160.0 oz/a		17.86 a		17.5 a	
LSD P=.10						0.738		0.72	
Standard Deviation						0.842		0.83	
CV						4.768		4.77	
TABLE OF A (TIMING) B (RATE) MEANS									
1 PREPLANT				A		17.78 a		17.4 a	
1 NO ROUNDUP P-MAX II									
2 PREEMERGENCE				B		17.40 a		17.1 a	
1 NO ROUNDUP P-MAX II									
1 PREPLANT				A		17.75 a		17.4 a	
2 ROUNDUP P-MAX II		5.5 SL		32.0 oz/a					
2 PREEMERGENCE				B		17.53 a		17.2 a	
2 ROUNDUP P-MAX II		5.5 SL		32.0 oz/a					
1 PREPLANT				A		18.28 a		17.9 a	
3 ROUNDUP P-MAX II		5.5 SL		64.0 oz/a					
2 PREEMERGENCE				B		17.98 a		17.6 a	
3 ROUNDUP P-MAX II		5.5 SL		64.0 oz/a					
1 PREPLANT				A		17.13 a		16.8 a	
4 ROUNDUP P-MAX II		5.5 SL		96.0 oz/a					
2 PREEMERGENCE				B		17.28 a		16.9 a	
4 ROUNDUP P-MAX II		5.5 SL		96.0 oz/a					
1 PREPLANT				A		17.28 a		16.9 a	
5 ROUNDUP P-MAX II		5.5 SL		128.0 oz/a					
2 PREEMERGENCE				B		17.83 a		17.5 a	
5 ROUNDUP P-MAX II		5.5 SL		128.0 oz/a					
1 PREPLANT				A		17.40 a		17.1 a	
6 ROUNDUP P-MAX II		5.5 SL		160.0 oz/a					

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 GLYPHOSATE AT HIGH RATES									
Trial ID:		PE-16-20		Study Dir.:					
Location:		PONDER FARM		Investigator:		Eric P. Prostko			
Weed Code				-----		-----		-----	
Crop Code				ARAHY		ARAHY		ARAHY	
Part Rated				DIRTY -		CLEAN -		CLEAN -	
Rating Data Type				YIELD		YIELD		YIELD	
Rating Unit				LBS/PLOT		LBS/PLOT		LBS/A	
Rating Date				Oct-2-20		Oct-2-20		Oct-2-20	
PRM Data Type						T4		TY5	
# Subsamples, Dec.						- 1		- 0	
Trt Treatment		Form Form		Rate Appl					
No. Name		Conc Type Rate		Unit Code		25		26	
								27	
2 PREEMERGENCE				B		18.33 a		18.0 a	
6 ROUNDUP P-MAX II		5.5 SL		160.0 oz/a				5169 a	
LSD P=.10				1.283		1.26		361.9	
Standard Deviation				1.030		1.01		290.6	
CV				5.833		5.83		5.8	

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID:	PE-16-20	Study Dir.:				
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Stand #/ 5ft May-14-20 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	385.666667				
R	3	123.000000	41.000000	11.789	0.0003	
A	1	1.333333	1.333333	0.128	0.7445	2.2
RA	3	31.333333	10.444444			
B	5	22.166667	4.433333	0.498	0.7729	2.6
RB	15	133.500000	8.900000			
AB	5	22.166667	4.433333	1.275	0.3253	2.3
RAB	15	52.166667	3.477778			
COMPLETE FACTORIAL AOV For --- Arahya Stunting Percent May-18-20 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	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	5	0.000000	0.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			
COMPLETE FACTORIAL AOV For ----- Arahya Plant Stand #/5 ft May-28-20 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	356.479167				
R	3	24.229167	8.076389	0.845	0.4903	
A	1	13.020833	13.020833	3.531	0.1568	1.3
RA	3	11.062500	3.687500			
B	5	29.604167	5.920833	1.582	0.2249	1.7
RB	15	56.145833	3.743056			
AB	5	79.104167	15.820833	1.656	0.2059	3.8
RAB	15	143.312500	9.554167			
COMPLETE FACTORIAL AOV For ---- Arahya Stunting Percent May-28-20 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	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	5	0.000000	0.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			
COMPLETE FACTORIAL AOV For ----- Arahya Stunting Percent Jun-17-20 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	447.916667				
R	3	6.250000	2.083333	0.172	0.9134	
A	1	2.083333	2.083333	0.111	0.7608	2.9
RA	3	56.250000	18.750000			
B	5	60.416667	12.083333	1.381	0.2863	2.6
RB	15	131.250000	8.750000			
AB	5	10.416667	2.083333	0.172	0.9689	4.3
RAB	15	181.250000	12.083333			
COMPLETE FACTORIAL AOV For ----- Arahya Plant Height1 In Jun-23-20 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	19.703125				
R	3	2.015625	0.671875	1.341	0.2985	
A	1	0.046875	0.046875	0.070	0.8088	0.56
RA	3	2.015625	0.671875			
B	5	1.296875	0.259375	0.621	0.6862	0.57
RB	15	6.265625	0.417708			
AB	5	0.546875	0.109375	0.218	0.9492	0.88
RAB	15	7.515625	0.501042			

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID:	PE-16-20	Study Dir.:				
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- Arahya Plant Height2 In Jun-23-20 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	22.619792				
R	3	4.807292	1.602431	6.878	0.0039	
A	1	0.630208	0.630208	8.442	0.0622	0.19
RA	3	0.223958	0.074653			
B	5	1.526042	0.305208	0.514	0.7619	0.68
RB	15	8.911458	0.594097			
AB	5	3.026042	0.605208	2.598	0.0695	0.60
RAB	15	3.494792	0.232986			
COMPLETE FACTORIAL AOV For ----- Arahya Plant Height3 In Jun-23-20 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	22.479167				
R	3	1.562500	0.520833	1.652	0.2198	
A	1	0.187500	0.187500	1.421	0.3189	0.25
RA	3	0.395833	0.131944			
B	5	2.854167	0.570833	1.132	0.3857	0.62
RB	15	7.562500	0.504167			
AB	5	5.187500	1.037500	3.291	0.0333	0.70
RAB	15	4.729167	0.315278			
COMPLETE FACTORIAL AOV For ----- Arahya Plant Height4 In Jun-23-20 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	35.166667				
R	3	5.625000	1.875000	1.819	0.1869	
A	1	0.020833	0.020833	0.039	0.8561	0.50
RA	3	1.604167	0.534722			
B	5	5.854167	1.170833	3.747	0.0212	0.49
RB	15	4.687500	0.312500			
AB	5	1.916667	0.383333	0.372	0.8600	1.26
RAB	15	15.458333	1.030556			
COMPLETE FACTORIAL AOV For ----- Arahya Plant Height5 In Jun-23-20 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	14.744792				
R	3	1.307292	0.435764	2.885	0.0704	
A	1	0.421875	0.421875	1.421	0.3189	0.37
RA	3	0.890625	0.296875			
B	5	2.338542	0.467708	1.765	0.1807	0.45
RB	15	3.973958	0.264931			
AB	5	3.546875	0.709375	4.697	0.0088	0.48
RAB	15	2.265625	0.151042			
COMPLETE FACTORIAL AOV For ----- Arahya Plant HGT-AVG In Jun-23-20 T1 1 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	10.474792				
R	3	2.660625	0.886875	6.498	0.0049	
A	1	0.200208	0.200208	1.721	0.2809	0.2
RA	3	0.348958	0.116319			
B	5	1.393542	0.278708	1.668	0.2028	0.4
RB	15	2.505625	0.167042			
AB	5	1.318542	0.263708	1.932	0.1484	0.5
RAB	15	2.047292	0.136486			
COMPLETE FACTORIAL AOV For ----- Arahya Twin Width1 In Jun-23-20 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	235.203125				
R	3	15.515625	5.171875	0.964	0.4352	
A	1	0.130208	0.130208	0.014	0.9135	2.08
RA	3	28.015625	9.338542			
B	5	5.609375	1.121875	0.231	0.9432	1.93
RB	15	72.953125	4.863542			
AB	5	32.526042	6.505208	1.213	0.3504	2.87
RAB	15	80.453125	5.363542			

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID:	PE-16-20	Study Dir.:				
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- Arahy Twin Width2 In Jun-23-20 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	247.479167				
R	3	100.229167	33.409722	7.019	0.0036	
A	1	0.750000	0.750000	0.159	0.7169	1.48
RA	3	14.166667	4.722222			
B	5	4.791667	0.958333	0.349	0.8751	1.45
RB	15	41.208333	2.747222			
AB	5	14.937500	2.987500	0.628	0.6815	2.70
RAB	15	71.395833	4.759722			
COMPLETE FACTORIAL AOV For ----- Arahy Twin Width3 In Jun-23-20 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	335.812500				
R	3	121.437500	40.479167	6.545	0.0048	
A	1	3.000000	3.000000	0.499	0.5309	1.67
RA	3	18.041667	6.013889			
B	5	27.000000	5.400000	1.463	0.2595	1.68
RB	15	55.375000	3.691667			
AB	5	18.187500	3.637500	0.588	0.7092	3.08
RAB	15	92.770833	6.184722			
COMPLETE FACTORIAL AOV For ----- Arahy Twin Width4 In Jun-23-20 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	250.666667				
R	3	51.291667	17.097222	2.762	0.0785	
A	1	0.020833	0.020833	0.002	0.9678	2.24
RA	3	32.520833	10.840278			
B	5	8.791667	1.758333	0.475	0.7896	1.69
RB	15	55.583333	3.705556			
AB	5	9.604167	1.920833	0.310	0.8991	3.08
RAB	15	92.854167	6.190278			
COMPLETE FACTORIAL AOV For ----- Arahy Twin Width5 In Jun-23-20 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	207.479167				
R	3	47.062500	15.687500	5.320	0.0107	
A	1	0.750000	0.750000	0.072	0.8053	2.19
RA	3	31.083333	10.361111			
B	5	8.166667	1.633333	0.480	0.7855	1.62
RB	15	51.000000	3.400000			
AB	5	25.187500	5.037500	1.708	0.1933	2.13
RAB	15	44.229167	2.948611			
COMPLETE FACTORIAL AOV For ----- Arahy Twin AVG-WIDT In Jun-23-20 T2 1 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	151.099792				
R	3	57.895625	19.298542	9.100	0.0011	
A	1	0.350208	0.350208	0.049	0.8397	1.8
RA	3	21.615625	7.205208			
B	5	4.668542	0.933708	0.585	0.7116	1.1
RB	15	23.950625	1.596708			
AB	5	10.808542	2.161708	1.019	0.4408	1.8
RAB	15	31.810625	2.120708			
COMPLETE FACTORIAL AOV For Arahy Plant Stunting Percent Jul-22-20 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	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	5	0.000000	0.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID:	PE-16-20	Study Dir.:				
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Height1 Inches Jul-22-20 (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	153.500000				
R	3	10.125000	3.375000	3.733	0.0347	
A	1	4.083333	4.083333	0.208	0.6793	3.01
RA	3	58.875000	19.625000			
B	5	8.937500	1.787500	0.698	0.6336	1.40
RB	15	38.437500	2.562500			
AB	5	19.479167	3.895833	4.309	0.0125	1.18
RAB	15	13.562500	0.904167			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Height2 Inches Jul-22-20 (Data Column 20)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	110.312500				
R	3	29.895833	9.965278	9.466	0.0009	
A	1	1.687500	1.687500	0.203	0.6826	1.96
RA	3	24.895833	8.298611			
B	5	6.500000	1.300000	0.833	0.5463	1.10
RB	15	23.416667	1.561111			
AB	5	8.125000	1.625000	1.544	0.2355	1.27
RAB	15	15.791667	1.052778			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Height3 Inches Jul-22-20 (Data Column 21)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	113.119792				
R	3	38.515625	12.838542	12.933	0.0002	
A	1	0.046875	0.046875	0.009	0.9296	1.53
RA	3	15.265625	5.088542			
B	5	7.338542	1.467708	0.884	0.5152	1.13
RB	15	24.890625	1.659375			
AB	5	12.171875	2.434375	2.452	0.0817	1.24
RAB	15	14.890625	0.992708			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Height4 Inches Jul-22-20 (Data Column 22)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	159.494792				
R	3	45.932292	15.310764	10.917	0.0005	
A	1	0.255208	0.255208	0.030	0.8739	1.99
RA	3	25.682292	8.560764			
B	5	3.901042	0.780208	0.346	0.8766	1.32
RB	15	33.786458	2.252431			
AB	5	28.901042	5.780208	4.122	0.0148	1.47
RAB	15	21.036458	1.402431			
COMPLETE FACTORIAL AOV For ---- Arahya Plant Height5 Inches Jul-22-20 (Data Column 23)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	152.916667				
R	3	28.416667	9.472222	5.320	0.0107	
A	1	0.083333	0.083333	0.008	0.9356	2.23
RA	3	32.416667	10.805556			
B	5	7.541667	1.508333	0.542	0.7415	1.46
RB	15	41.708333	2.780556			
AB	5	16.041667	3.208333	1.802	0.1730	1.65
RAB	15	26.708333	1.780556			
COMPLETE FACTORIAL AOV For ---- Arahya hgt avg Inches Jul-22-20 T3 1 (Data Column 24)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	105.259167				
R	3	28.402500	9.467500	15.109	0.0001	
A	1	0.300833	0.300833	0.031	0.8707	2.1
RA	3	28.775833	9.591944			
B	5	4.459167	0.891833	0.671	0.6518	1.0
RB	15	19.947500	1.329833			
AB	5	13.974167	2.794833	4.460	0.0109	1.0
RAB	15	9.399167	0.626611			

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

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES						
Trial ID:	PE-16-20	Study Dir.:				
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Oct-2-20 (Data Column 25) Missing values in column 25 results in unbalanced data, Least Squares Analysis is preferred						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	46	76.658519				
R	3	29.495000	9.831667	9.265	0.0012	
A	1	0.171204	0.171204	0.034	0.8645	1.51
RA	3	14.890833	4.963611			
B	5	3.862963	0.772593	1.090	0.4057	0.74
RB	15	10.635000	0.709000			
AB	5	2.747685	0.549537	0.518	0.7587	1.28
RAB	14	14.855833	1.061131			
COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Oct-2-20 T4 1 (Data Column 26) Missing values in column 26 results in unbalanced data, Least Squares Analysis is preferred						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	46	73.622841				
R	3	28.326998	9.442333	9.265	0.0012	
A	1	0.164424	0.164424	0.034	0.8645	1.5
RA	3	14.301156	4.767052			
B	5	3.709990	0.741998	1.090	0.4057	0.7
RB	15	10.213854	0.680924			
AB	5	2.638877	0.527775	0.518	0.7587	1.3
RAB	14	14.267542	1.019110			
COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/A Oct-2-20 TY5 0 (Data Column 27) Missing values in column 27 results in unbalanced data, Least Squares Analysis is preferred						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	46	6098887.014266				
R	3	2346597.298803	782199.099601	9.265	0.0012	
A	1	13620.822128	13620.822128	0.034	0.8645	427
RA	3	1184702.128392	394900.709464			
B	5	307334.072021	61466.814404	1.090	0.4057	208
RB	15	846111.621386	56407.441426			
AB	5	218603.513596	43720.702719	0.518	0.7587	362
RAB	14	1181917.557941	84422.682710			
<u>Part Rated</u>						
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)						
<u>PRM Data Type</u>						
T1 = ([C6]+[C7]+[C8]+[C9]+[C10])/5						
T2 = ([C12]+[C13]+[C14]+[C15]+[C16])/5						
T3 = ([C19]+[C20]+[C21]+[C22]+[C23])/5						
T4 = [C25]*0.98						
TY5 = 287.8187*[C26]						

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.

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES									
Trial ID: PE-16-20		Study Dir.: Eric P. Prostko							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code					----	---	-----	----	-----
Crop Code					Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated					Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type					Stand	Stand	Stand	Stand	Stand
Rating Unit					#/ 5ft	Percent	#/5 ft	Percent	Percent
Rating Date					May-14-20	May-18-20	May-28-20	May-28-20	Jun-17-20
PRM Data Type									
# Subsamples, Dec.									
Trt Treatment	Form Form	Rate Appl							
No. Name	Conc Type Rate Unit Code Plot				1	2	3	4	5
1 PREPLANT			A	101	7.0	0.0	18.0	0.0	0.0
NO ROUNDUP P-MAX II				212	10.0	0.0	20.0	0.0	0.0
				311	15.0	0.0	23.0	0.0	0.0
				408	14.0	0.0	19.0	0.0	0.0
				Mean =	11.5	0.0	20.0	0.0	0.0
2 PREPLANT			A	102	9.0	0.0	21.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	32.0 oz/a		211	17.0	0.0	24.0	0.0	0.0
				302	9.0	0.0	18.0	0.0	0.0
				407	13.0	0.0	22.0	0.0	0.0
				Mean =	12.0	0.0	21.3	0.0	0.0
3 PREPLANT			A	103	8.0	0.0	22.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	64.0 oz/a		209	12.0	0.0	22.0	0.0	0.0
				308	14.0	0.0	13.0	0.0	0.0
				409	8.0	0.0	18.0	0.0	0.0
				Mean =	10.5	0.0	18.8	0.0	0.0
4 PREPLANT			A	104	5.0	0.0	15.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	96.0 oz/a		206	13.0	0.0	18.0	0.0	0.0
				304	9.0	0.0	17.0	0.0	10.0
				412	12.0	0.0	22.0	0.0	0.0
				Mean =	9.8	0.0	18.0	0.0	2.5
5 PREPLANT			A	105	6.0	0.0	16.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	128.0 oz/a		202	11.0	0.0	16.0	0.0	0.0
				306	9.0	0.0	18.0	0.0	0.0
				410	9.0	0.0	16.0	0.0	10.0
				Mean =	8.8	0.0	16.5	0.0	2.5
6 PREPLANT			A	106	5.0	0.0	11.0	0.0	10.0
ROUNDUP P-MAX II	5.5 SL	160.0 oz/a		201	10.0	0.0	17.0	0.0	0.0
				309	9.0	0.0	15.0	0.0	0.0
				403	12.0	0.0	20.0	0.0	0.0
				Mean =	9.0	0.0	15.8	0.0	2.5
7 PREEMERGENCE			B	107	4.0	0.0	18.0	0.0	0.0
NO ROUNDUP P-MAX II				208	6.0	0.0	22.0	0.0	0.0
				307	17.0	0.0	15.0	0.0	0.0
				405	8.0	0.0	19.0	0.0	0.0
				Mean =	8.8	0.0	18.5	0.0	0.0
8 PREEMERGENCE			B	108	10.0	0.0	19.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	32.0 oz/a		205	12.0	0.0	21.0	0.0	0.0
				310	8.0	0.0	15.0	0.0	0.0
				401	13.0	0.0	19.0	0.0	0.0
				Mean =	10.8	0.0	18.5	0.0	0.0
9 PREEMERGENCE			B	109	9.0	0.0	17.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	64.0 oz/a		210	11.0	0.0	19.0	0.0	0.0
				305	10.0	0.0	21.0	0.0	0.0
				404	11.0	0.0	19.0	0.0	0.0
				Mean =	10.3	0.0	19.0	0.0	0.0
10 PREEMERGENCE			B	110	8.0	0.0	21.0	0.0	0.0
ROUNDUP P-MAX II	5.5 SL	96.0 oz/a		204	9.0	0.0	22.0	0.0	10.0
				303	13.0	0.0	22.0	0.0	0.0
				411	9.0	0.0	18.0	0.0	0.0
				Mean =	9.8	0.0	20.8	0.0	2.5

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID: PE-16-20 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						----	---	-----	----	-----
						Arahy Plant - Stand #/ 5ft May-14-20	Arahy Stunting Percent May-18-20	Arahy Plant - Stand #/5 ft May-28-20	Arahy Stunting Percent May-28-20	Arahy Stunting Percent Jun-17-20
Trt	Treatment	Form	Form	Rate	Appl					
No.	Name	Conc	Type	Rate	Unit	Code	Plot			
11	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	128.0	oz/a	B	111	7.0	0.0	21.0
							203	11.0	0.0	20.0
							312	11.0	0.0	20.0
							402	10.0	0.0	22.0
							Mean =	9.8	0.0	20.8
12	PREEMERGENCE ROUNDUP P-MAX II	5.5	SL	160.0	oz/a	B	112	10.0	0.0	20.0
							207	8.0	0.0	17.0
							301	12.0	0.0	21.0
							406	11.0	0.0	18.0
							Mean =	10.3	0.0	19.0

University of Georgia

PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES											
Trial ID:		PE-16-20		Study Dir.:							
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code						-----	-----	-----	-----	-----	-----
Crop Code						Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated						Plant -	Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type						Height1	Height2	Height3	Height4	Height5	HGT-AVG
Rating Unit						In	In	In	In	In	In
Rating Date						Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20
PRM Data Type						T1					
# Subsamples, Dec.						- 1					
Trt	Treatment	Form	Form	Rate	Appl						
No.	Name	Conc	Type	Rate	Unit Code Plot	6	7	8	9	10	11
1	PREPLANT				A 101	4.00	5.00	4.00	4.50	4.50	4.4
	NO ROUNDUP P-MAX II				212	4.00	4.00	5.00	4.00	5.50	4.5
					311	5.00	5.50	5.50	6.00	6.00	5.6
					408	4.50	4.00	5.00	4.50	5.50	4.7
					Mean =	4.38	4.63	4.88	4.75	5.38	4.8
2	PREPLANT				A 102	3.00	3.50	4.00	4.00	4.00	3.7
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	211	5.00	5.00	4.00	5.50	5.00	4.9
					302	5.50	5.00	5.00	5.50	5.50	5.3
					407	5.00	4.50	5.00	5.00	5.00	4.9
					Mean =	4.63	4.50	4.50	5.00	4.88	4.7
3	PREPLANT				A 103	4.00	4.00	3.00	3.00	4.50	3.7
	ROUNDUP P-MAX II	5.5 SL		64.0 oz/a	209	6.00	4.50	4.50	5.00	4.50	4.9
					308	4.50	5.00	5.00	5.00	5.50	5.0
					409	4.00	3.00	3.00	4.50	4.00	3.7
					Mean =	4.63	4.13	3.88	4.38	4.63	4.3
4	PREPLANT				A 104	3.50	3.00	4.50	4.00	4.50	3.9
	ROUNDUP P-MAX II	5.5 SL		96.0 oz/a	206	4.00	4.00	5.00	4.50	4.50	4.4
					304	4.50	4.00	3.50	2.00	5.00	3.8
					412	5.00	5.00	4.00	5.00	5.00	4.8
					Mean =	4.25	4.00	4.25	3.88	4.75	4.2
5	PREPLANT				A 105	4.00	3.00	4.50	4.00	4.50	4.0
	ROUNDUP P-MAX II	5.5 SL		128.0 oz/a	202	6.00	4.50	4.50	4.50	5.00	4.9
					306	4.00	4.00	4.00	5.00	4.50	4.3
					410	4.00	5.00	5.00	5.50	4.50	4.8
					Mean =	4.50	4.13	4.50	4.75	4.63	4.5
6	PREPLANT				A 106	4.50	4.00	4.50	3.50	4.00	4.1
	ROUNDUP P-MAX II	5.5 SL		160.0 oz/a	201	3.50	4.50	4.00	5.00	4.50	4.3
					309	5.50	5.00	5.00	4.50	4.00	4.8
					403	3.50	5.00	4.50	5.50	4.00	4.5
					Mean =	4.25	4.63	4.50	4.63	4.13	4.4
7	PREEMERGENCE				B 107	4.50	3.50	3.50	3.50	4.00	3.8
	NO ROUNDUP P-MAX II				208	5.00	4.00	4.50	6.00	5.00	4.9
					307	4.50	4.50	4.00	4.00	5.00	4.4
					405	4.00	4.00	3.00	4.50	5.50	4.2
					Mean =	4.50	4.00	3.75	4.50	4.88	4.3
8	PREEMERGENCE				B 108	4.00	4.00	4.50	3.50	4.50	4.1
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	205	4.50	6.00	3.50	5.50	5.00	4.9
					310	4.00	5.00	5.50	5.00	5.50	5.0
					401	5.00	5.00	5.50	4.50	4.50	4.9
					Mean =	4.38	5.00	4.75	4.63	4.88	4.7
9	PREEMERGENCE				B 109	4.50	4.00	4.50	4.00	4.50	4.3
	ROUNDUP P-MAX II	5.5 SL		64.0 oz/a	210	4.50	4.50	5.00	4.00	5.00	4.6
					305	4.50	4.50	5.00	4.50	5.00	4.7
					404	5.00	4.00	4.50	4.00	5.00	4.5
					Mean =	4.63	4.25	4.75	4.13	4.88	4.5
10	PREEMERGENCE				B 110	4.00	5.00	3.50	3.00	4.50	4.0
	ROUNDUP P-MAX II	5.5 SL		96.0 oz/a	204	5.00	4.00	4.00	4.00	5.00	4.4
					303	4.00	4.50	4.50	5.50	3.50	4.4
					411	5.00	6.00	4.00	4.50	4.50	4.8
					Mean =	4.50	4.88	4.00	4.25	4.38	4.4

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES											
Trial ID:		PE-16-20		Study Dir.:							
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code					-----	-----	-----	-----	-----	-----	-----
Crop Code					Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated					Plant -	Plant -	Plant -	Plant -	Plant -	Plant -	Plant -
Rating Data Type					Height1	Height2	Height3	Height4	Height5	HGT-AVG	
Rating Unit					In	In	In	In	In	In	In
Rating Date					Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20
PRM Data Type											T1
# Subsamples, Dec.											- 1
Trt Treatment		Form Form		Rate Appl							
No. Name		Conc Type Rate		Unit Code Plot		6	7	8	9	10	11
11 PREEMERGENCE				B	111	5.50	4.00	5.50	6.00	5.50	5.3
ROUNDUP P-MAX II		5.5 SL	128.0 oz/a		203	4.00	4.50	4.00	5.00	5.00	4.5
					312	5.00	5.00	5.50	6.00	5.50	5.4
					402	5.00	5.50	5.50	5.00	6.00	5.4
				Mean =		4.88	4.75	5.13	5.50	5.50	5.2
12 PREEMERGENCE				B	112	4.00	4.00	5.00	5.00	5.50	4.7
ROUNDUP P-MAX II		5.5 SL	160.0 oz/a		207	4.00	5.00	5.00	3.50	5.00	4.5
					301	4.50	5.00	4.50	5.50	4.50	4.8
					406	4.00	4.00	5.00	4.50	5.00	4.5
				Mean =		4.13	4.50	4.88	4.63	5.00	4.6

PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES											
Trial ID:		PE-16-20		Study Dir.:							
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code						-----	-----	-----	-----	-----	-----
Crop Code						Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated						Twin -	Twin -	Twin -	Twin -	Twin -	Twin -
Rating Data Type						Width1	Width2	Width3	Width4	Width5	AVG-WIDT
Rating Unit						In	In	In	In	In	In
Rating Date						Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20
PRM Data Type											T2
# Subsamples, Dec.											- 1
Trt	Treatment	Form	Form	Rate	Appl						
No.	Name	Conc	Type	Rate	Unit Code Plot	12	13	14	15	16	17
1	PREPLANT				A 101	21.00	20.00	21.00	18.00	20.00	20.0
	NO ROUNDUP P-MAX II				212	21.50	23.00	21.00	24.00	26.00	23.1
					311	25.00	24.50	24.00	23.00	21.50	23.6
					408	19.00	22.00	24.50	24.00	23.00	22.5
					Mean =	21.63	22.38	22.63	22.25	22.63	22.3
2	PREPLANT				A 102	19.00	18.00	18.00	23.00	21.00	19.8
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	211	21.00	21.50	19.00	18.00	22.50	20.4
					302	24.50	25.00	26.00	22.00	26.00	24.7
					407	24.00	25.00	23.00	21.00	22.00	23.0
					Mean =	22.13	22.38	21.50	21.00	22.88	22.0
3	PREPLANT				A 103	18.00	17.00	18.50	19.00	21.00	18.7
	ROUNDUP P-MAX II	5.5 SL		64.0 oz/a	209	26.00	21.00	24.50	23.00	24.00	23.7
					308	18.00	23.00	22.50	28.00	25.00	23.3
					409	22.50	22.50	20.00	19.00	23.00	21.4
					Mean =	21.13	20.88	21.38	22.25	23.25	21.8
4	PREPLANT				A 104	19.50	17.50	18.50	17.00	19.50	18.4
	ROUNDUP P-MAX II	5.5 SL		96.0 oz/a	206	22.00	24.00	22.50	22.00	25.00	23.1
					304	21.50	22.00	23.50	20.00	21.00	21.6
					412	22.00	23.00	26.00	22.00	26.00	23.8
					Mean =	21.25	21.63	22.63	20.25	22.88	21.7
5	PREPLANT				A 105	20.00	20.00	15.50	17.00	20.00	18.5
	ROUNDUP P-MAX II	5.5 SL		128.0 oz/a	202	20.00	22.50	24.50	24.00	26.00	23.4
					306	20.00	22.00	23.00	22.00	20.50	21.5
					410	21.00	22.00	22.00	24.50	22.00	22.3
					Mean =	20.25	21.63	21.25	21.88	22.13	21.4
6	PREPLANT				A 106	19.00	19.00	20.00	18.00	19.50	19.1
	ROUNDUP P-MAX II	5.5 SL		160.0 oz/a	201	25.00	22.00	26.00	24.00	25.00	24.4
					309	24.00	21.00	24.00	23.00	22.00	22.8
					403	22.00	24.00	25.00	24.00	22.00	23.4
					Mean =	22.50	21.50	23.75	22.25	22.13	22.4
7	PREEMERGENCE				B 107	20.00	21.00	19.00	22.00	19.00	20.2
	NO ROUNDUP P-MAX II				208	23.50	20.00	23.50	25.00	24.00	23.2
					307	21.50	23.00	21.50	22.50	22.00	22.1
					405	19.00	19.00	16.50	20.00	20.00	18.9
					Mean =	21.00	20.75	20.13	22.38	21.25	21.1
8	PREEMERGENCE				B 108	2					

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES										
Trial ID:		PE-16-20		Study Dir.:						
Location:		PONDER FARM		Investigator:		Eric P. Prostko				
Weed Code					-----	-----	-----	-----	-----	-----
Crop Code					Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Part Rated					Twin -	Twin -	Twin -	Twin -	Twin -	Twin -
Rating Data Type					Width1	Width2	Width3	Width4	Width5	AVG-WIDT
Rating Unit					In	In	In	In	In	In
Rating Date					Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20	Jun-23-20
PRM Data Type										T2
# Subsamples, Dec.										- 1
Trt Treatment		Form Form	Rate Appl							
No. Name		Conc Type	Rate	Unit Code Plot	12	13	14	15	16	17
11 PREEMERGENCE				B 111	24.00	19.00	24.00	20.00	22.00	21.8
ROUNDUP P-MAX II		5.5 SL	128.0 oz/a	203	23.50	23.50	19.00	20.00	23.00	21.8
				312	24.00	25.00	25.00	25.00	26.00	25.0
				402	23.50	22.00	23.50	23.00	27.00	23.8
				Mean =	23.75	22.38	22.88	22.00	24.50	23.1
12 PREEMERGENCE				B 112	23.00	22.00	18.00	23.00	21.00	21.4
ROUNDUP P-MAX II		5.5 SL	160.0 oz/a	207	19.00	22.00	23.00	21.00	23.00	21.6
				301	25.00	25.00	27.00	22.00	26.00	25.0
				406	17.50	19.00	23.00	19.00	22.00	20.1
				Mean =	21.13	22.00	22.75	21.25	23.00	22.0

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES											
Trial ID:		PE-16-20		Study Dir.:							
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code						Arahy Plant - Stunting Percent Jul-22-20	Arahy Plant - Height1 Inches Jul-22-20	Arahy Plant - Height2 Inches Jul-22-20	Arahy Plant - Height3 Inches Jul-22-20	Arahy Plant - Height4 Inches Jul-22-20	Arahy Plant - Height5 Inches Jul-22-20
Crop Code											
Part Rated											
Rating Data Type											
Rating Unit											
Rating Date											
PRM Data Type											
# Subsamples, Dec.											
Trt	Treatment	Form	Form	Rate	Appl						
No.	Name	Conc	Type	Rate	Unit Code Plot	18	19	20	21	22	23
1	PREPLANT				A 101	0.0	9.00	6.50	9.00	8.00	7.00
	NO ROUNDUP P-MAX II				212	0.0	12.00	10.00	12.00	13.00	14.00
					311	0.0	13.00	13.00	14.00	15.00	13.00
					408	0.0	11.00	12.00	11.50	13.00	12.00
					Mean =	0.0	11.25	10.38	11.63	12.25	11.50
2	PREPLANT				A 102	0.0	7.50	6.50	7.50	9.00	7.00
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	211	0.0	13.00	10.00	10.00	11.00	11.00
					302	0.0	10.00	8.00	10.00	10.00	11.00
					407	0.0	11.00	10.00	10.00	12.00	10.50
					Mean =	0.0	10.38	8.63	9.38	10.50	9.88
3	PREPLANT				A 103	0.0	8.00	8.00	9.00	8.00	8.00
	ROUNDUP P-MAX II	5.5 SL		64.0 oz/a	209	0.0	14.00	8.50	12.00	13.00	11.00
					308	0.0	11.00	11.00	12.00	15.00	13.00
					409	0.0	12.00	10.00	11.00	13.00	12.50
					Mean =	0.0	11.25	9.38	11.00	12.25	11.13
4	PREPLANT				A 104	0.0	8.00	7.00	8.00	9.00	8.50
	ROUNDUP P-MAX II	5.5 SL		96.0 oz/a	206	0.0	9.00	9.00	10.00	10.00	10.00
					304	0.0	10.00	9.00	10.00	9.00	9.00
					412	0.0	13.50	12.00	14.00	14.00	14.50
					Mean =	0.0	10.13	9.25	10.50	10.50	10.50
5	PREPLANT				A 105	0.0	7.00	7.00	7.50	7.50	8.50
	ROUNDUP P-MAX II	5.5 SL		128.0 oz/a	202	0.0	8.00	9.00	10.00	11.00	10.00
					306	0.0	9.00	10.00	9.50	10.00	9.00
					410	0.0	10.00	10.50	11.00	11.50	11.00
					Mean =	0.0	8.50	9.13	9.50	10.00	9.63
6	PREPLANT				A 106	0.0	7.00	6.50	8.50	8.00	7.50
	ROUNDUP P-MAX II	5.5 SL		160.0 oz/a	201	0.0	10.00	10.50	11.00	11.00	10.00
					309	0.0	12.00	12.00	12.00	11.00	10.00
					403	0.0	10.00	9.00	10.50	12.00	10.00
					Mean =	0.0	9.75	9.50	10.50	10.50	9.38
7	PREEMERGENCE				B 107	0.0	11.00	9.00	8.00	8.00	8.00
	NO ROUNDUP P-MAX II				208	0.0	9.00	9.00	10.00	11.00	11.00
					307	0.0	11.00	9.00	11.00	10.00	9.00
					405	0.0	11.00	9.00	12.00	9.00	10.50
					Mean =	0.0	10.50	9.00	10.25	9.50	9.63
8	PREEMERGENCE				B 108	0.0	9.00	8.00	8.00	11.00	10.50
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	205	0.0	10.00	8.50	9.00	10.00	9.50
					310	0.0	11.00	9.00	12.00	11.00	9.00
					401	0.0	10.50	10.00	11.00	11.50	9.00
					Mean =	0.0	10.13	8.88	10.00	10.88	9.50
9	PREEMERGENCE				B 109	0.0	11.50	11.00	11.00	10.00	10.00
	ROUNDUP P-MAX II	5.5 SL		64.0 oz/a	210	0.0	10.00	10.00	8.00	11.00	11.00
					305	0.0	11.00	10.00	11.00	11.00	10.00
					404	0.0	10.00	9.50	11.00	11.00	10.50
					Mean =	0.0	10.63	10.13	10.25	10.75	10.38
10	PREEMERGENCE				B 110	0.0	14.50	9.00	10.00	11.00	11.00
	ROUNDUP P-MAX II	5.5 SL		96.0 oz/a	204	0.0	9.00	9.00	9.50	9.00	8.50
					303	0.0	11.00	11.00	11.00	12.00	10.00
					411	0.0	12.50	12.00	13.00	13.00	12.00
					Mean =	0.0	11.75	10.25	10.88	11.25	10.38

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID: PE-16-20 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						Arahy Plant - Stunting Percent Jul-22-20	Arahy Plant - Height1 Inches Jul-22-20	Arahy Plant - Height2 Inches Jul-22-20	Arahy Plant - Height3 Inches Jul-22-20	Arahy Plant - Height4 Inches Jul-22-20	Arahy Plant - Height5 Inches Jul-22-20
Trt Treatment	Form	Form	Rate	Appl							
No. Name	Conc	Type	Rate	Unit	Code Plot	18	19	20	21	22	23
11 PREEMERGENCE ROUNDUP P-MAX II	5.5 SL		128.0 oz/a	B	111	0.0	14.00	10.50	12.00	12.00	11.00
					203	0.0	9.00	9.00	10.00	10.00	9.00
					312	0.0	12.00	12.00	12.00	15.00	15.00
					402	0.0	10.00	9.00	11.00	11.00	10.50
					Mean =	0.0	11.25	10.13	11.25	12.00	11.38
12 PREEMERGENCE ROUNDUP P-MAX II	5.5 SL		160.0 oz/a	B	112	0.0	12.00	11.00	11.00	11.00	12.00
					207	0.0	10.00	10.50	10.00	10.00	8.00
					301	0.0	11.00	10.00	11.00	10.00	10.00
					406	0.0	9.00	9.00	9.00	12.00	11.00
					Mean =	0.0	10.50	10.13	10.25	10.75	10.25

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES									
Trial ID: PE-16-20		Study Dir.: Eric P. Prostko							
Location: PONDER FARM		Investigator:							
Weed Code					----	-----	-----	-----	
Crop Code					Arahy	ARAHY	ARAHY	ARAHY	
Part Rated					hgt -	DIRTY -	CLEAN -	CLEAN -	
Rating Data Type					avg	YIELD	YIELD	YIELD	
Rating Unit					Inches	LBS/PLOT	LBS/PLOT	LBS/A	
Rating Date					Jul-22-20	Oct-2-20	Oct-2-20	Oct-2-20	
PRM Data Type					T3		T4	TY5	
# Subsamples, Dec.					- 1		- 1	- 0	
Trt Treatment	Form Form	Rate Appl							
No. Name	Conc Type Rate Unit Code Plot				24	25	26	27	
1 PREPLANT				A	101	7.9	15.80	15.5	4457
NO ROUNDUP P-MAX II					212	12.2	17.50	17.2	4936
					311	13.6	18.50	18.1	5218
					408	11.9	19.30	18.9	5444
				Mean =		11.4	17.78	17.4	5014
2 PREPLANT				A	102	7.5	15.50	15.2	4372
ROUNDUP P-MAX II	5.5 SL	32.0 oz/a			211	11.0	18.50	18.1	5218
					302	9.8	18.50	18.1	5218
					407	10.7	18.50	18.1	5218
				Mean =		9.8	17.75	17.4	5007
3 PREPLANT				A	103	8.2	15.70	15.4	4428
ROUNDUP P-MAX II	5.5 SL	64.0 oz/a			209	11.7	18.60	18.2	5246
					308	12.4	19.70	19.3	5557
					409	11.7	19.10	18.7	5387
				Mean =		11.0	18.28	17.9	5155
4 PREPLANT				A	104	8.1			
ROUNDUP P-MAX II	5.5 SL	96.0 oz/a			206	9.6	17.80	17.4	5021
					304	9.4	17.30	17.0	4880
					412	13.6	16.30	16.0	4598
				Mean =		10.2	17.13	16.8	4833
5 PREPLANT				A	105	7.5	14.80	14.5	4175
ROUNDUP P-MAX II	5.5 SL	128.0 oz/a			202	9.6	17.80	17.4	5021
					306	9.5	19.10	18.7	5387
					410	10.8	17.40	17.1	4908
				Mean =		9.4	17.28	16.9	4873
6 PREPLANT				A	106	7.5	13.90	13.6	3921
ROUNDUP P-MAX II	5.5 SL	160.0 oz/a			201	10.5	16.70	16.4	4710
					309	11.4	20.20	19.8	5698
					403	10.3	18.80	18.4	5303
				Mean =		9.9	17.40	17.1	4908
7 PREEMERGENCE				B	107	8.8	16.20	15.9	4569
NO ROUNDUP P-MAX II					208	10.0	17.40	17.1	4908
					307	10.0	18.60	18.2	5246
					405	10.3	17.40	17.1	4908
				Mean =		9.8	17.40	17.1	4908
8 PREEMERGENCE				B	108	9.3	17.10	16.8	4823
ROUNDUP P-MAX II	5.5 SL	32.0 oz/a			205	9.4	17.20	16.9	4851
					310	10.4	17.20	16.9	4851
					401	10.4	18.60	18.2	5246
				Mean =		9.9	17.53	17.2	4943
9 PREEMERGENCE				B	109	10.7	18.60	18.2	5246
ROUNDUP P-MAX II	5.5 SL	64.0 oz/a			210	10.0	17.90	17.5	5049
					305	10.6	17.60	17.2	4964
					404	10.4	17.80	17.4	5021
				Mean =		10.4	17.98	17.6	5070
10 PREEMERGENCE				B	110	11.1	17.40	17.1	4908
ROUNDUP P-MAX II	5.5 SL	96.0 oz/a			204	9.0	15.70	15.4	4428
					303	11.0	18.10	17.7	5105
					411	12.5	17.90	17.5	5049
				Mean =		10.9	17.28	16.9	4873

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID: PE-16-20 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	----	----	----	----
Crop Code	Arahy	ARAHY	ARAHY	ARAHY
Part Rated	hgt -	DIRTY -	CLEAN -	CLEAN -
Rating Data Type	avg	YIELD	YIELD	YIELD
Rating Unit	Inches	LBS/PLOT	LBS/PLOT	LBS/A
Rating Date	Jul-22-20	Oct-2-20	Oct-2-20	Oct-2-20
PRM Data Type	T3		T4	TY5
# Subsamples, Dec.	- 1		- 1	- 0
Trt Treatment	Form Form	Rate Appl		
No. Name	Conc Type Rate Unit Code Plot			
11 PREEMERGENCE	B 111	11.9	16.80	16.5
ROUNDUP P-MAX II	203	9.4	17.50	17.2
	312	13.2	17.70	17.3
	402	10.3	19.30	18.9
	Mean =	11.2	17.83	17.5
12 PREEMERGENCE	B 112	11.4	18.50	18.1
ROUNDUP P-MAX II	207	9.7	17.30	17.0
	301	10.4	18.90	18.5
	406	10.0	18.60	18.2
	Mean =	10.4	18.33	18.0

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PEANUT RESPONSE TO SOIL APPLIED GLYPHOSATE AT HIGH RATES

Trial ID:	PE-16-20	Study Dir.:	
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Part Rated

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

PRM Data Type

$$T1 = ([C6] + [C7] + [C8] + [C9] + [C10]) / 5$$

$$T2 = ([C12] + [C13] + [C14] + [C15] + [C16]) / 5$$

$$T3 = ([C19] + [C20] + [C21] + [C22] + [C23]) / 5$$

$$T4 = [C25] * 0.98$$

$$TY5 = 287.8187 * [C26]$$