

University of Georgia

PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Amt Product to Measure	Diluent	Rep		
								1	2	3
1	ARSENAL POWERLINE PRE	2 AS		0.0			-	101	202	314
2	ARSENAL POWERLINE 30 DAP	2 AS		0.0			-	102	211	303
3	ARSENAL POWERLINE 59 DAP	2 AS		0.0			-	103	214	312
4	ARSENAL POWERLINE PRE	2 AS		0.24 oz/a		0.1875 mL/mx	-	104	206	305
5	ARSENAL POWERLINE 30 DAP	2 AS		0.24 oz/a		0.1875 mL/mx	-	105	204	301
6	ARSENAL POWERLINE 59 DAP	2 AS		0.24 oz/a		0.1875 mL/mx	-	106	203	309
7	ARSENAL POWERLINE PRE	2 AS		2.4 oz/a		1.875 mL/mx	-	107	209	315
8	ARSENAL POWERLINE 30 DAP	2 AS		2.4 oz/a		1.875 mL/mx	-	108	215	307
9	ARSENAL POWERLINE 59 DAP	2 AS		2.4 oz/a		1.875 mL/mx	-	109	205	304
10	ARSENAL POWERLINE PRE	2 AS		4.8 oz/a		3.75 mL/mx	-	110	213	311
11	ARSENAL POWERLINE 30 DAP	2 AS		4.8 oz/a		3.75 mL/mx	-	111	201	313
12	ARSENAL POWERLINE 59 DAP	2 AS		4.8 oz/a		3.75 mL/mx	-	112	207	310
13	ARSENAL POWERLINE PRE	2 AS		24 oz/a		18.75 mL/mx	-	113	208	306
14	ARSENAL POWERLINE 30 DAP	2 AS		24 oz/a		18.75 mL/mx	-	114	210	308
15	ARSENAL POWERLINE 59 DAP	2 AS		24 oz/a		18.75 mL/mx	-	115	212	302

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

STRONGARM @ 0.45 OZ/A + PROWL H2O @ 32 OZ/A - PRE (05/04/21)
 CADRE @ 4 OZ/A + DUAL MAGNUM @ 16 OZ/A - 06/03/21

DIGGING DATE: 09/23/21
 HARVEST DATE: 09/28/21
 HARVEST MOISTURE: 11.0
 YIELDS ADJUSTED TO 10%
 2% YIELD DEDUCTION FOR FM

SUMMARY:

- 1) ON MAY 20 (17 DAP), PEANUT PLANT STAND/DENSITY WAS NOT REDUCED BY ANY PRE RATE OF ARSENAL.
- 2) GENERALLY, ARSENAL APPLIED PRE OR POST CAUSED PEANUT INJURY IN THE FORM OF CHLOROSIS AND STUNTING.
- 3) PEANUT PLANT HEIGHTS ON JULY 6 (64 DAP) WERE REDUCED BY 2.4, 4.8, AND 24 OZ/A OF ARSENAL WHEN APPLIED PRE AND BY ALL RATES OF ARSENAL WHEN APPLIED 30 DAP OR 59 DAP.
- 4) PEANUT PLANT WIDTHS ON JULY 6 (64 DAP) WERE SIGNIFICANTLY REDUCED BY ARSENAL @ 2.4, 4.8, AND 24 OZ/A

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)			
YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

WHEN APPLIED PRE, 30 DAP, OR 59 DAP.

5) FOR PEANUT YIELD, THE FOLLOWING OBSERVATIONS WERE MADE:

A) PRE APPLICATIONS OF ARSENAL @ 2.4, 4.8 AND, 24 OZ/A CAUSED SIGNIFICANT YIELD REDUCTIONS. 24 OZ/A CAUSED THE GREATEST YIELD REDUCTIONS.

B) POST APPLICATIONS OF ARSENAL @ 4.8 AND 24 OZ/A APPLIED EITHER 30 DAP OR 59 DAP CAUSED SIGNIFICANT YIELD REDUCTIONS. 24 OZ/A CAUSED THE GREATEST REDUCTIONS.

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)
 YEAR 2
 Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: CHAD ABBOTT **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-3-21
Planting Method: MONOSEM TWIN ROW **Rate:** 3.1 SEED/FT **Depth:** _____
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** FACTOR
Trial Initiation Comments: 300 LBS/A 5-15-30 PREPLANT; THIMET 20G INFR @ 5.25 LBS/A; RANCONA SEED TRT; 36"-9" TWIN ROW SPACING; 1000 LBS/A GYPSUM

Previous: Crops	Pesticides	Year
1. FALLOW		2020

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.91 **% Sand:** 94 **% Silt:** 0 **% Clay:** 6
pH: 6.0 **CEC:** 3.6 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-3-21	0.1		IN RAINFALL		
2.	May-4-21	1.15		IN RAINFALL		
3.	May-8-21	0.4		IN SPRINKLER - LATERAL MOVE		
4.	May-11-21	0.15		IN RAINFALL		
5.	May-12-21	0.6		IN RAINFALL		
6.	May-20-21	0.5		IN SPRINKLER - LATERAL MOVE		
7.	May-24-21	0.5		IN SPRINKLER - LATERAL MOVE		
8.	Jun-1-21	0.5		IN SPRINKLER - LATERAL MOVE		
9.	Jun-4-21	0.45		IN SPRINKLER - LATERAL MOVE		
10.	Jun-4-21	0.6		IN RAINFALL		
11.	Jun-6-21	0.4		IN RAINFALL		
12.	Jun-7-21	1.25		IN RAINFALL		
13.	Jun-8-21	0.15		IN RAINFALL		
14.	Jun-11-21	0.3		IN RAINFALL		
15.	Jun-15-21	0.3		IN RAINFALL		
16.	Jun-17-21	0.46		IN SPRINKLER - LATERAL MOVE		
17.	Jun-20-21	1.0		IN RAINFALL		
18.	Jun-21-21	2.4		IN RAINFALL		

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

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YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

APPLICATION DESCRIPTION						
	A	B	C	D	E	F
Application Date:	May-4-21	Jun-2-21	Jul-1-21	_____	_____	_____
Time of Day:	7:00 AM	6:45 AM	6:50 AM	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
Application Timing:	PRE	30 DAP	59 DAP	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE	_____	_____	_____
Air Temp., Unit:	68 F	67 F	72 F	_____	_____	_____
% Relative Humidity:	95	95	98	_____	_____	_____
Wind Velocity, Unit:	2 MPH	3 MPH	0 MPH	_____	_____	_____
Dew Presence (Y/N):	N	Y	Y	_____	_____	_____
Water Hardness:	--	--	--	_____	_____	_____
Soil Temp., Unit:	70 F	70 F	76 F	_____	_____	_____
Soil Moisture:	OPTIMUM	WET	WET	_____	_____	_____
% Cloud Cover:	5	100	100	_____	_____	_____

CROP STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Crop 1 Stage:	ARAHY _____					
Stage Scale:	_____	R1	R3/R4	_____	_____	_____
Height, Unit:	_____	3 IN	7 IN	_____	_____	_____

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	SAME AS A	_____	_____	_____
Operating Pressure:	38	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____
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
_____	_____

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy			
Crop Code									
Part Rated									
Rating Data Type	Stand	Stand	Stunt	Chlorosi	Stunt	Chlorosi			
Rating Unit	#/5 ft	#/5ft	%	%	%	%			
Rating Date	May-13-21	May-20-21	May-20-21	May-20-21	Jun-7-21	Jun-7-21			
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	1	2	3	4	5	6
TABLE OF R MEANS									
Replicate 1				22.4	26.9	5.0	1.0	10.3	4.3
Replicate 2				24.0	28.1	4.7	2.0	9.7	6.3
Replicate 3				23.5	28.3	3.0	1.0	9.3	5.7
TABLE OF A (GARLON RATE) MEANS									
1 ARSENAL POWERLINE	2 AS		0.0	25.7 a	27.9 a	0.0 c	0.0 c	0.0 d	0.0 c
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	24.4 a	27.9 a	0.0 c	0.6 c	3.3 d	3.9 b
3 ARSENAL POWERLINE	2 AS		2.4 oz/a	24.3 a	27.9 a	1.7 c	0.6 c	7.2 c	6.7 a
4 ARSENAL POWERLINE	2 AS		4.8 oz/a	21.3 b	27.6 a	5.0 b	2.2 b	12.8 b	8.3 a
5 ARSENAL POWERLINE	2 AS		24 oz/a	20.8 b	27.7 a	14.4 a	3.3 a	25.6 a	8.3 a
LSD P=.10				2.89	2.03	1.90	0.80	3.47	2.36
Standard Deviation				3.29	2.31	2.17	0.91	3.96	2.69
CV				14.13	8.32	51.47	68.47	40.52	49.36
TABLE OF B (GARLON TIMING) MEANS									
1 PRE				22.7 b	27.1 a	12.7 a	4.0 a	23.3 a	6.0 b
2 30 DAP				24.9 a	28.5 a	0.0 b	0.0 b	6.0 b	10.3 a
3 59 DAP				22.4 b	27.7 a	0.0 b	0.0 b	0.0 c	0.0 c
LSD P=.10				1.57	2.58	3.23	1.74	2.90	3.07
Standard Deviation				2.02	3.31	4.15	2.24	3.73	3.94
CV				8.67	11.92	98.29	167.71	38.11	72.44
TABLE OF A (GARLON RATE) B (GARLON TIMING) MEANS									
1 ARSENAL POWERLINE	2 AS		0.0	26.0 a	25.7 a	0.0 d	0.0 d	0.0 e	0.0 f
1 PRE									
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	24.0 a	28.0 a	0.0 d	1.7 c	6.7 de	5.0 e
1 PRE									
3 ARSENAL POWERLINE	2 AS		2.4 oz/a	25.7 a	27.7 a	5.0 c	1.7 c	15.0 c	8.3 cde
1 PRE									
4 ARSENAL POWERLINE	2 AS		4.8 oz/a	20.0 a	27.7 a	15.0 b	6.7 b	28.3 b	10.0 cd
1 PRE									
5 ARSENAL POWERLINE	2 AS		24 oz/a	17.7 a	26.3 a	43.3 a	10.0 a	66.7 a	6.7 de
1 PRE									
1 ARSENAL POWERLINE	2 AS		0.0	27.0 a	28.3 a	0.0 d	0.0 d	0.0 e	0.0 f
2 30 DAP									
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	26.7 a	29.0 a	0.0 d	0.0 d	3.3 de	6.7 de
2 30 DAP									
3 ARSENAL POWERLINE	2 AS		2.4 oz/a	24.3 a	28.7 a	0.0 d	0.0 d	6.7 de	11.7 bc
2 30 DAP									
4 ARSENAL POWERLINE	2 AS		4.8 oz/a	23.0 a	29.0 a	0.0 d	0.0 d	10.0 cd	15.0 ab
2 30 DAP									
5 ARSENAL POWERLINE	2 AS		24 oz/a	23.3 a	27.7 a	0.0 d	0.0 d	10.0 cd	18.3 a
2 30 DAP									
1 ARSENAL POWERLINE	2 AS		0.0	24.0 a	29.7 a	0.0 d	0.0 d	0.0 e	0.0 f
3 59 DAP									
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	22.7 a	26.7 a	0.0 d	0.0 d	0.0 e	0.0 f
3 59 DAP									

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 ARSENAL POWERLINE 2AS (IMAZAPYR)
 YEAR 2
 Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy
Crop Code						
Part Rated						
Rating Data Type	Stand	Stand	Stunt	Chlorosi	Stunt	Chlorosi
Rating Unit	#/5 ft	#/5ft	%	%	%	%
Rating Date	May-13-21	May-20-21	May-20-21	May-20-21	Jun-7-21	Jun-7-21
Trt No.	1	2	3	4	5	6
Treatment Name						
Form Conc						
Form Type						
Rate						
Unit						
3 ARSENAL POWERLINE 3 59 DAP	23.0 a	27.3 a	0.0 d	0.0 d	0.0 e	0.0 f
4 ARSENAL POWERLINE 3 59 DAP	21.0 a	26.0 a	0.0 d	0.0 d	0.0 e	0.0 f
5 ARSENAL POWERLINE 3 59 DAP	21.3 a	29.0 a	0.0 d	0.0 d	0.0 e	0.0 f
LSD P=.10	3.92	3.53	3.10	1.30	7.08	4.10
Standard Deviation	2.75	2.47	2.17	0.91	4.97	2.87
CV	11.81	8.91	51.47	68.47	50.78	52.80

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Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Weed Code	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy
Crop Code						
Part Rated						
Rating Data Type	Stunt	Chlorosi	Stunting	Chlorosi	Lapping	Height1
Rating Unit	%	%	%	%	%	Inches
Rating Date	Jun-16-21	Jun-16-21	Jun-30-21	Jun-30-21	Jun-30-21	Jul-6-21
Trt Treatment No. Name	7	8	9	10	11	12
Form Conc						
Form Type						
Rate Unit						
TABLE OF R MEANS						
Replicate 1	17.0	5.3	22.3	3.3	55.3	7.1
Replicate 2	18.7	5.7	20.3	3.3	55.7	8.2
Replicate 3	17.3	5.3	22.3	3.0	42.7	7.9
TABLE OF A (GARLON RATE) MEANS						
1 ARSENAL POWERLINE 2 AS 0.0	0.0 d	0.0 d	0.0 e	0.0 c	90.6 a	10.6 a
2 ARSENAL POWERLINE 2 AS 0.24 oz/a	1.7 d	0.0 d	5.6 d	0.0 c	74.4 b	8.6 b
3 ARSENAL POWERLINE 2 AS 2.4 oz/a	17.2 c	3.9 c	22.8 c	2.2 b	33.3 c	7.7 bc
4 ARSENAL POWERLINE 2 AS 4.8 oz/a	27.8 b	10.6 b	33.3 b	1.7 bc	27.2 c	6.6 cd
5 ARSENAL POWERLINE 2 AS 24 oz/a	41.7 a	12.8 a	46.7 a	12.2 a	30.6 c	5.2 d
LSD P=.10	2.90	1.22	1.90	2.04	15.83	1.88
Standard Deviation	3.31	1.39	2.17	2.33	18.05	2.14
CV	18.75	25.61	10.03	72.23	35.25	27.78
TABLE OF B (GARLON TIMING) MEANS						
1 PRE	33.7 a	5.3 b	39.7 a	2.3 b	29.7 b	7.0 a
2 30 DAP	19.3 b	11.0 a	25.3 b	7.3 a	37.7 b	8.1 a
3 59 DAP	0.0 c	0.0 c	0.0 c	0.0 c	86.3 a	8.0 a
LSD P=.10	2.25	0.58	2.66	0.92	10.46	1.13
Standard Deviation	2.89	0.75	3.42	1.18	13.44	1.45
CV	16.34	13.69	15.76	36.57	26.23	18.74
TABLE OF A (GARLON RATE) B (GARLON TIMING) MEANS						
1 ARSENAL POWERLINE 2 AS 0.0 1 PRE	0.0 f	0.0 e	0.0 g	0.0 d	88.3 a	10.3 ab
2 ARSENAL POWERLINE 2 AS 0.24 oz/a 1 PRE	3.3 f	0.0 e	13.3 f	0.0 d	60.0 b	9.3 a-d
3 ARSENAL POWERLINE 2 AS 2.4 oz/a 1 PRE	40.0 c	5.0 d	48.3 c	0.0 d	0.0 c	5.3 fgh
4 ARSENAL POWERLINE 2 AS 4.8 oz/a 1 PRE	51.7 b	8.3 c	61.7 b	0.0 d	0.0 c	5.3 fgh
5 ARSENAL POWERLINE 2 AS 24 oz/a 1 PRE	73.3 a	13.3 b	75.0 a	11.7 b	0.0 c	4.7 gh
1 ARSENAL POWERLINE 2 AS 0.0 2 30 DAP	0.0 f	0.0 e	0.0 g	0.0 d	93.3 a	11.3 a
2 ARSENAL POWERLINE 2 AS 0.24 oz/a 2 30 DAP	1.7 f	0.0 e	3.3 g	0.0 d	85.0 a	9.7 a-d
3 ARSENAL POWERLINE 2 AS 2.4 oz/a 2 30 DAP	11.7 e	6.7 cd	20.0 e	6.7 c	10.0 c	9.3 a-d
4 ARSENAL POWERLINE 2 AS 4.8 oz/a 2 30 DAP	31.7 d	23.3 a	38.3 d	5.0 c	0.0 c	6.7 efg
5 ARSENAL POWERLINE 2 AS 24 oz/a 2 30 DAP	51.7 b	25.0 a	65.0 b	25.0 a	0.0 c	3.7 h
1 ARSENAL POWERLINE 2 AS 0.0 3 59 DAP	0.0 f	0.0 e	0.0 g	0.0 d	90.0 a	10.0 abc
2 ARSENAL POWERLINE 2 AS 0.24 oz/a 3 59 DAP	0.0 f	0.0 e	0.0 g	0.0 d	78.3 a	6.7 efg

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy
	Stunt %	Chlorosi %	Stunting %	Chlorosi %	Lapping %	Height1 Inches
	Jun-16-21	Jun-16-21	Jun-30-21	Jun-30-21	Jun-30-21	Jul-6-21
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit		
	7	8	9	10	11	12
3 ARSENAL POWERLINE 3 59 DAP	2 AS	2.4 oz/a	0.0 f	0.0 e	0.0 g	0.0 d
4 ARSENAL POWERLINE 3 59 DAP	2 AS	4.8 oz/a	0.0 f	0.0 e	0.0 g	0.0 d
5 ARSENAL POWERLINE 3 59 DAP	2 AS	24 oz/a	0.0 f	0.0 e	0.0 g	0.0 d
LSD P=.10	4.68	2.46	5.73	3.25	15.56	2.42
Standard Deviation	3.28	1.73	4.02	2.28	10.91	1.70
CV	18.57	31.74	18.57	70.83	21.31	22.01

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Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code	Arahy	Arahy	Arahy	Arahy	ARAHY HEIGHT, - AVERAGE INCHES	Arahy	Arahy
Crop Code	Ht2	Ht3	Ht4	Ht5	Width1	Wt2	
Part Rated	In	In	In	In	Inches	In	
Rating Data Type	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21
Rating Unit							
Rating Date							
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit			
					13	14	15
					16	17	18
					19		
TABLE OF R MEANS							
Replicate 1					8.1	7.9	7.9
Replicate 2					8.1	8.3	8.5
Replicate 3					8.3	8.5	8.7
TABLE OF A (GARLON RATE) MEANS							
1 ARSENAL POWERLINE	2 AS		0.0		10.6 a	10.7 a	10.3 a
2 ARSENAL POWERLINE	2 AS		0.24 oz/a		9.7 b	10.0 a	9.9 a
3 ARSENAL POWERLINE	2 AS		2.4 oz/a		7.7 c	7.9 b	8.4 b
4 ARSENAL POWERLINE	2 AS		4.8 oz/a		7.0 d	7.2 b	7.4 c
5 ARSENAL POWERLINE	2 AS		24 oz/a		5.9 e	5.3 c	5.8 d
LSD P=.10					0.58	1.09	0.94
Standard Deviation					0.66	1.24	1.07
CV					8.07	15.06	12.83
TABLE OF B (GARLON TIMING) MEANS							
1 PRE					7.2 c	7.4 c	7.3 c
2 30 DAP					8.3 b	8.1 b	8.5 b
3 59 DAP					8.9 a	9.1 a	9.3 a
LSD P=.10					0.49	0.27	0.63
Standard Deviation					0.62	0.35	0.81
CV					7.65	4.25	9.66
TABLE OF A (GARLON RATE) B (GARLON TIMING) MEANS							
1 ARSENAL POWERLINE	2 AS		0.0		10.7 a	10.7 a	10.0 ab
1 PRE							
2 ARSENAL POWERLINE	2 AS		0.24 oz/a		9.7 ab	9.7 b	10.0 ab
1 PRE							
3 ARSENAL POWERLINE	2 AS		2.4 oz/a		5.3 e	6.0 e	6.3 f
1 PRE							
4 ARSENAL POWERLINE	2 AS		4.8 oz/a		5.7 e	6.0 e	5.7 f
1 PRE							
5 ARSENAL POWERLINE	2 AS		24 oz/a		4.7 e	4.7 f	4.3 g
1 PRE							
1 ARSENAL POWERLINE	2 AS		0.0		10.7 a	10.7 a	10.3 ab
2 30 DAP							
2 ARSENAL POWERLINE	2 AS		0.24 oz/a		9.7 ab	9.7 b	9.7 bc
2 30 DAP							
3 ARSENAL POWERLINE	2 AS		2.4 oz/a		9.3 bc	9.3 b	10.0 ab
2 30 DAP							
4 ARSENAL POWERLINE	2 AS		4.8 oz/a		7.3 d	7.3 d	8.0 e
2 30 DAP							
5 ARSENAL POWERLINE	2 AS		24 oz/a		4.7 e	3.7 g	4.7 g
2 30 DAP							
1 ARSENAL POWERLINE	2 AS		0.0		10.3 ab	10.7 a	10.7 a
3 59 DAP							
2 ARSENAL POWERLINE	2 AS		0.24 oz/a		9.7 ab	10.7 a	10.0 ab
3 59 DAP							

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 ARSENAL POWERLINE 2AS (IMAZAPYR)
 YEAR 2
 Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy
Crop Code							
Part Rated							
Rating Data Type	Ht2	Ht3	Ht4	Ht5	ARAHY	Width1	Wt2
Rating Unit	In	In	In	In	AVERAGE	Inches	In
Rating Date	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	HEIGHT, -	Jul-6-21	Jul-6-21
					INCHES		
Trt No.	13	14	15	16	17	18	19
Treatment Name							
Form Conc							
Form Type							
Rate							
Unit							
3 ARSENAL POWERLINE 3 59 DAP	8.3 cd	8.3 c	9.0 cd	9.3 bcd	8.7 ef	30.0 bc	30.3 cd
4 ARSENAL POWERLINE 3 59 DAP	8.0 d	8.3 c	8.7 de	9.0 cde	8.3 f	18.3 de	26.7 e
5 ARSENAL POWERLINE 3 59 DAP	8.3 cd	7.7 cd	8.3 de	7.7 ef	7.9 fg	26.3 c	27.7 de
LSD P=.10	1.01	0.99	0.81	1.36	0.81	5.61	2.80
Standard Deviation	0.71	0.70	0.57	0.95	0.57	3.93	1.97
CV	8.67	8.46	6.78	11.24	6.93	15.03	7.26

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 ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code	Arahy	Arahy	Arahy	ARAHY WIDTH, - AVERAGE INCHES	ARAHY DIRTY, - YIELD LBS/PLOT	ARAHY CLEAN, - YIELD LBS/PLOT			
Crop Code	Wt3	Wt4	Wt5	INCHES	LBS/PLOT	LBS/PLOT			
Part Rated	In	In	In	Jul-6-21	Sep-28-21	Sep-28-21			
Rating Data Type	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	Sep-28-21	Sep-28-21			
Rating Unit									
Rating Date									
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	20	21	22	23	24	25
TABLE OF R MEANS									
Replicate 1									
Replicate 2									
Replicate 3									
TABLE OF A (GARLON RATE) MEANS									
1 ARSENAL POWERLINE	2 AS		0.0	34.4 a	34.9 a	34.9 a	34.6 a	21.2 a	20.8 a
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	34.7 a	34.7 a	34.7 a	34.7 a	20.4 ab	20.0 ab
3 ARSENAL POWERLINE	2 AS		2.4 oz/a	26.9 b	26.3 b	27.2 b	26.4 b	18.6 bc	18.3 bc
4 ARSENAL POWERLINE	2 AS		4.8 oz/a	22.9 c	23.6 c	24.8 c	22.2 c	16.8 c	16.4 c
5 ARSENAL POWERLINE	2 AS		24 oz/a	19.4 d	20.2 d	19.6 d	19.2 d	11.9 d	11.7 d
LSD P=.10				2.62	2.20	2.13	2.52	1.95	1.91
Standard Deviation				2.99	2.51	2.43	2.88	2.22	2.18
CV				10.82	8.97	8.62	10.49	12.50	12.50
TABLE OF B (GARLON TIMING) MEANS									
1 PRE									
2 30 DAP									
3 59 DAP									
LSD P=.10				0.75	1.43	1.23	1.57	1.14	1.12
Standard Deviation				0.97	1.83	1.58	2.01	1.47	1.44
CV				3.49	6.57	5.59	7.35	8.23	8.23
TABLE OF A (GARLON RATE) B (GARLON TIMING) MEANS									
1 ARSENAL POWERLINE	2 AS		0.0	33.3 ab	34.0 a	34.0 a	33.7 a	21.5 a	21.0 a
1 PRE									
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	34.0 a	34.0 a	34.0 a	34.0 a	20.1 ab	19.7 ab
1 PRE									
3 ARSENAL POWERLINE	2 AS		2.4 oz/a	21.7 d	21.0 cd	22.0 e	21.0 de	14.9 c	14.6 c
1 PRE									
4 ARSENAL POWERLINE	2 AS		4.8 oz/a	19.0 d	19.3 d	20.3 e	18.6 e	14.2 c	13.9 c
1 PRE									
5 ARSENAL POWERLINE	2 AS		24 oz/a	15.0 e	15.0 e	15.0 f	14.3 f	9.2 d	9.0 d
1 PRE									
1 ARSENAL POWERLINE	2 AS		0.0	36.0 a	36.0 a	36.0 a	36.0 a	20.5 ab	20.1 ab
2 30 DAP									
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	34.0 a	34.0 a	34.0 a	34.0 a	19.2 ab	18.8 ab
2 30 DAP									
3 ARSENAL POWERLINE	2 AS		2.4 oz/a	28.7 c	28.7 b	29.0 bc	28.2 bc	20.6 ab	20.2 ab
2 30 DAP									
4 ARSENAL POWERLINE	2 AS		4.8 oz/a	21.7 d	22.7 c	25.3 d	22.0 d	18.2 b	17.8 b
2 30 DAP									
5 ARSENAL POWERLINE	2 AS		24 oz/a	15.3 e	15.7 e	16.0 f	15.2 f	14.1 c	13.8 c
2 30 DAP									
1 ARSENAL POWERLINE	2 AS		0.0	34.0 a	34.7 a	34.7 a	34.1 a	21.7 a	21.3 a
3 59 DAP									
2 ARSENAL POWERLINE	2 AS		0.24 oz/a	36.0 a	36.0 a	36.0 a	36.0 a	22.0 a	21.6 a
3 59 DAP									

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

PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date	----- Arahy Wt3 In Jul-6-21	----- Arahy Wt4 In Jul-6-21	----- Arahy Wt5 In Jul-6-21	----- ARAHY WIDTH, - AVERAGE INCHES Jul-6-21	----- ARAHY DIRTY, - YIELD LBS/PLOT Sep-28-21	----- ARAHY CLEAN, - YIELD LBS/PLOT Sep-28-21			
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	20	21	22	23	24	25
3 ARSENAL POWERLINE 3 59 DAP	2 AS		2.4 oz/a	30.3 bc	29.3 b	30.7 b	30.1 b	20.4 ab	20.0 ab
4 ARSENAL POWERLINE 3 59 DAP	2 AS		4.8 oz/a	28.0 c	28.7 b	28.7 bc	26.1 c	17.9 b	17.5 b
5 ARSENAL POWERLINE 3 59 DAP	2 AS		24 oz/a	28.0 c	30.0 b	27.7 cd	27.9 bc	12.5 c	12.2 c
LSD P=.10				3.15	2.15	2.80	2.99	2.88	2.82
Standard Deviation				2.21	1.51	1.97	2.09	2.02	1.98
CV				7.98	5.41	6.97	7.64	11.35	11.35

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 ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code	----- ARAHY CLEAN, - YIELD LBS/A Sep-28-21	----- ARAHY YIELD, - LOSS % Sep-28-21
Crop Code		
Part Rated		
Rating Data Type		
Rating Unit		
Rating Date		
Trt Treatment No. Name	Form Conc	Rate Unit
TABLE OF R MEANS		
Replicate 1		
Replicate 2		
Replicate 3		
TABLE OF A (GARLON RATE) MEANS		
1 ARSENAL POWERLINE	2 AS	0.0
2 ARSENAL POWERLINE	2 AS	0.24 oz/a
3 ARSENAL POWERLINE	2 AS	2.4 oz/a
4 ARSENAL POWERLINE	2 AS	4.8 oz/a
5 ARSENAL POWERLINE	2 AS	24 oz/a
LSD P=.10		
Standard Deviation		
CV		
TABLE OF B (GARLON TIMING) MEANS		
1 PRE		
2 30 DAP		
3 59 DAP		
LSD P=.10		
Standard Deviation		
CV		
TABLE OF A (GARLON RATE) B (GARLON TIMING) MEANS		
1 ARSENAL POWERLINE	2 AS	0.0
1 PRE		
2 ARSENAL POWERLINE	2 AS	0.24 oz/a
1 PRE		
3 ARSENAL POWERLINE	2 AS	2.4 oz/a
1 PRE		
4 ARSENAL POWERLINE	2 AS	4.8 oz/a
1 PRE		
5 ARSENAL POWERLINE	2 AS	24 oz/a
1 PRE		
1 ARSENAL POWERLINE	2 AS	0.0
2 30 DAP		
2 ARSENAL POWERLINE	2 AS	0.24 oz/a
2 30 DAP		
3 ARSENAL POWERLINE	2 AS	2.4 oz/a
2 30 DAP		
4 ARSENAL POWERLINE	2 AS	4.8 oz/a
2 30 DAP		
5 ARSENAL POWERLINE	2 AS	24 oz/a
2 30 DAP		
1 ARSENAL POWERLINE	2 AS	0.0
3 59 DAP		
2 ARSENAL POWERLINE	2 AS	0.24 oz/a
3 59 DAP		

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code	-----		-----
Crop Code	ARAHY		ARAHY
Part Rated	CLEAN, -		YIELD, -
Rating Data Type	YIELD		LOSS
Rating Unit	LBS/A		%
Rating Date	Sep-28-21		Sep-28-21
<hr/>			
Trt No.	Treatment Name	Form Conc Type	Rate Rate Unit
			26 27
3	ARSENAL POWERLINE 3 59 DAP	2 AS	2.4 oz/a
			5741 ab 6.5 cd
4	ARSENAL POWERLINE 3 59 DAP	2 AS	4.8 oz/a
			5038 b 15.7 c
5	ARSENAL POWERLINE 3 59 DAP	2 AS	24 oz/a
			3508 c 41.1 b
<hr/>			
LSD P=.10			810.4 11.70
Standard Deviation			568.5 8.21
CV			11.3 49.24

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

University of Georgia

PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2							
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT				
Location:	PONDER FARM	Investigator:	Eric P. Prostko				
COMPLETE FACTORIAL AOV For ----- Arahly Stand #/5 ft May-13-21 (Data Column 1)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	44	521.644444					
R	2	20.311111	10.155556	1.341	0.2895		
A	4	163.866667	40.966667	3.776	0.0520	2.9	
RA	8	86.800000	10.850000				
B	2	54.977778	27.488889	6.723	0.0526	1.6	
RB	4	16.355556	4.088889				
AB	8	58.133333	7.266667	0.959	0.4990	3.9	
RAB	16	121.200000	7.575000				
COMPLETE FACTORIAL AOV For ----- Arahly Stand #/5ft May-20-21 (Data Column 2)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	44	261.777778					
R	2	16.177778	8.088889	1.321	0.2944		
A	4	0.888889	0.222222	0.042	0.9960	2.0	
RA	8	42.711111	5.338889				
B	2	16.177778	8.088889	0.738	0.5334	2.6	
RB	4	43.822222	10.955556				
AB	8	44.044444	5.505556	0.899	0.5397	3.5	
RAB	16	97.955556	6.122222				
COMPLETE FACTORIAL AOV For ----- Arahly Stunt % May-20-21 (Data Column 3)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	44	5797.777778					
R	2	34.444444	17.222222	3.647	0.0495		
A	4	1325.555556	331.388889	70.176	0.0001	1.9	
RA	8	37.777778	4.722222				
B	2	1604.444444	802.222222	46.581	0.0017	3.2	
RB	4	68.888889	17.222222				
AB	8	2651.111111	331.388889	70.176	0.0001	3.1	
RAB	16	75.555556	4.722222				
COMPLETE FACTORIAL AOV For ----- Arahly Chlorosi % May-20-21 (Data Column 4)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	44	420.000000					
R	2	10.000000	5.000000	6.000	0.0114		
A	4	70.000000	17.500000	21.000	0.0003	0.8	
RA	8	6.666667	0.833333				
B	2	160.000000	80.000000	16.000	0.0123	1.7	
RB	4	20.000000	5.000000				
AB	8	140.000000	17.500000	21.000	0.0001	1.3	
RAB	16	13.333333	0.833333				
COMPLETE FACTORIAL AOV For ----- Arahly Stunt % Jun-7-21 (Data Column 5)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	44	13597.777778					
R	2	7.777778	3.888889	0.158	0.8554		
A	4	3614.444444	903.611111	57.575	0.0001	3.5	
RA	8	125.555556	15.694444				
B	2	4404.444444	2202.222222	158.560	0.0002	2.9	
RB	4	55.555556	13.888889				
AB	8	4995.555556	624.444444	25.330	0.0001	7.1	
RAB	16	394.444444	24.652778				
COMPLETE FACTORIAL AOV For ----- Arahly Chlorosi % Jun-7-21 (Data Column 6)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	44	1891.111111					
R	2	31.111111	15.555556	1.882	0.1844		
A	4	452.222222	113.055556	15.654	0.0007	2.4	
RA	8	57.777778	7.222222				
B	2	807.777778	403.888889	25.964	0.0051	3.1	
RB	4	62.222222	15.555556				
AB	8	347.777778	43.472222	5.261	0.0024	4.1	
RAB	16	132.222222	8.263889				

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 ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2						
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- Arahly Stunt % Jun-16-21 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	26680.000000				
R	2	23.333333	11.666667	1.084	0.3619	
A	4	11218.888889	2804.722222	255.620	0.0001	2.9
RA	8	87.777778	10.972222			
B	2	8563.333333	4281.666667	513.800	0.0001	2.2
RB	4	33.333333	8.333333			
AB	8	6581.111111	822.638889	76.426	0.0001	4.7
RAB	16	172.222222	10.763889			
COMPLETE FACTORIAL AOV For ----- Arahly Chlorosi % Jun-16-21 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	3191.111111				
R	2	1.111111	0.555556	0.186	0.8320	
A	4	1274.444444	318.611111	163.857	0.0001	1.2
RA	8	15.555556	1.944444			
B	2	907.777778	453.888889	817.000	0.0001	0.6
RB	4	2.222222	0.555556			
AB	8	942.222222	117.777778	39.442	0.0001	2.5
RAB	16	47.777778	2.986111			
COMPLETE FACTORIAL AOV For ----- Arahly Stunting % Jun-30-21 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	33400.000000				
R	2	40.000000	20.000000	1.236	0.3168	
A	4	13422.222222	3355.555556	710.588	0.0001	1.9
RA	8	37.777778	4.722222			
B	2	12103.333333	6051.666667	518.714	0.0001	2.7
RB	4	46.666667	11.666667			
AB	8	7491.111111	936.388889	57.871	0.0001	5.7
RAB	16	258.888889	16.180556			
COMPLETE FACTORIAL AOV For ----- Arahly Chlorosi % Jun-30-21 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	2157.777778				
R	2	1.111111	0.555556	0.107	0.8995	
A	4	946.666667	236.666667	43.692	0.0001	2.0
RA	8	43.333333	5.416667			
B	2	421.111111	210.555556	151.600	0.0002	0.9
RB	4	5.555556	1.388889			
AB	8	656.666667	82.083333	15.760	0.0001	3.3
RAB	16	83.333333	5.208333			
COMPLETE FACTORIAL AOV For ----- Arahly Lapping % Jun-30-21 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	83357.777778				
R	2	1647.777778	823.888889	6.918	0.0068	
A	4	30685.555556	7671.388889	23.534	0.0002	15.8
RA	8	2607.777778	325.972222			
B	2	28217.777778	14108.888889	78.142	0.0006	10.5
RB	4	722.222222	180.555556			
AB	8	17571.111111	2196.388889	18.442	0.0001	15.6
RAB	16	1905.555556	119.097222			
COMPLETE FACTORIAL AOV For ----- Arahly Height1 Inches Jul-6-21 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	323.244444				
R	2	10.177778	5.088889	1.767	0.2027	
A	4	147.022222	36.755556	8.010	0.0067	1.9
RA	8	36.711111	4.588889			
B	2	11.511111	5.755556	2.755	0.1769	1.1
RB	4	8.355556	2.088889			
AB	8	63.377778	7.922222	2.750	0.0405	2.4
RAB	16	46.088889	2.880556			

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 ARSENAL POWERLINE 2AS (IMAZAPYR)						
YEAR 2						
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- Arahy Ht2 In Jul-6-21 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	207.911111				
R	2	0.311111	0.155556	0.311	0.7370	
A	4	132.800000	33.200000	76.615	0.0001	0.6
RA	8	3.466667	0.433333			
B	2	23.244444	11.622222	29.886	0.0039	0.5
RB	4	1.555556	0.388889			
AB	8	38.533333	4.816667	9.633	0.0001	1.0
RAB	16	8.000000	0.500000			
COMPLETE FACTORIAL AOV For ----- Arahy Ht3 In Jul-6-21 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	243.777778				
R	2	2.177778	1.088889	2.253	0.1374	
A	4	167.333333	41.833333	27.283	0.0001	1.1
RA	8	12.266667	1.533333			
B	2	22.711111	11.355556	92.909	0.0004	0.3
RB	4	0.488889	0.122222			
AB	8	31.066667	3.883333	8.034	0.0002	1.0
RAB	16	7.733333	0.483333			
COMPLETE FACTORIAL AOV For ----- Arahy Ht4 In Jul-6-21 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	212.577778				
R	2	4.977778	2.488889	7.724	0.0045	
A	4	123.688889	30.922222	26.760	0.0001	0.9
RA	8	9.244444	1.155556			
B	2	32.577778	16.288889	24.847	0.0055	0.6
RB	4	2.622222	0.655556			
AB	8	34.311111	4.288889	13.310	0.0001	0.8
RAB	16	5.155556	0.322222			
COMPLETE FACTORIAL AOV For ----- Arahy Ht5 In Jul-6-21 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	243.200000				
R	2	9.733333	4.866667	5.374	0.0164	
A	4	142.755556	35.688889	47.235	0.0001	0.8
RA	8	6.044444	0.755556			
B	2	28.133333	14.066667	15.071	0.0137	0.8
RB	4	3.733333	0.933333			
AB	8	38.311111	4.788889	5.288	0.0023	1.4
RAB	16	14.488889	0.905556			
COMPLETE FACTORIAL AOV For ----- ARAHY HEIGHT AVERAGE INCHES Jul-6-21 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	212.032000				
R	2	4.005333	2.002667	6.222	0.0100	
A	4	139.454222	34.863556	77.208	0.0001	0.6
RA	8	3.612444	0.451556			
B	2	21.989333	10.994667	42.071	0.0021	0.4
RB	4	1.045333	0.261333			
AB	8	36.775111	4.596889	14.281	0.0001	0.8
RAB	16	5.150222	0.321889			
COMPLETE FACTORIAL AOV For ----- Arahy Width1 Inches Jul-6-21 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	3558.577778				
R	2	57.377778	28.688889	1.854	0.1888	
A	4	2453.911111	613.477778	31.469	0.0001	3.9
RA	8	155.955556	19.494444			
B	2	219.244444	109.622222	4.458	0.0959	3.9
RB	4	98.355556	24.588889			
AB	8	326.088889	40.761111	2.634	0.0472	5.6
RAB	16	247.644444	15.477778			

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 ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2						
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- Arahy Wt2 In Jul-6-21 (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	2708.800000				
R	2	19.600000	9.800000	2.536	0.1105	
A	4	1886.355556	471.588889	46.285	0.0001	2.8
RA	8	81.511111	10.188889			
B	2	375.600000	187.800000	72.231	0.0007	1.3
RB	4	10.400000	2.600000			
AB	8	273.511111	34.188889	8.848	0.0001	2.8
RAB	16	61.822222	3.863889			
COMPLETE FACTORIAL AOV For ----- Arahy Wt3 In Jul-6-21 (Data Column 20)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	2446.000000				
R	2	14.533333	7.266667	1.490	0.2551	
A	4	1673.777778	418.444444	46.696	0.0001	2.6
RA	8	71.688889	8.961111			
B	2	339.733333	169.866667	182.000	0.0001	0.8
RB	4	3.733333	0.933333			
AB	8	264.488889	33.061111	6.778	0.0006	3.1
RAB	16	78.044444	4.877778			
COMPLETE FACTORIAL AOV For ----- Arahy Wt4 In Jul-6-21 (Data Column 21)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	2394.800000				
R	2	12.400000	6.200000	2.715	0.0965	
A	4	1574.133333	393.533333	62.631	0.0001	2.2
RA	8	50.266667	6.283333			
B	2	380.933333	190.466667	56.574	0.0012	1.4
RB	4	13.466667	3.366667			
AB	8	327.066667	40.883333	17.905	0.0001	2.2
RAB	16	36.533333	2.283333			
COMPLETE FACTORIAL AOV For ----- Arahy Wt5 In Jul-6-21 (Data Column 22)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	2249.777778				
R	2	20.844444	10.422222	2.697	0.0978	
A	4	1565.555556	391.388889	66.088	0.0001	2.1
RA	8	47.377778	5.922222			
B	2	314.177778	157.088889	63.116	0.0009	1.2
RB	4	9.955556	2.488889			
AB	8	230.044444	28.755556	7.442	0.0004	2.8
RAB	16	61.822222	3.863889			
COMPLETE FACTORIAL AOV For ----- ARAHY WIDTH AVERAGE INCHES Jul-6-21 (Data Column 23)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	2561.552000				
R	2	20.757333	10.378667	2.366	0.1258	
A	4	1800.156444	450.039111	54.376	0.0001	2.5
RA	8	66.211556	8.276444			
B	2	321.328000	160.664000	39.624	0.0023	1.6
RB	4	16.218667	4.054667			
AB	8	266.707556	33.338444	7.601	0.0003	3.0
RAB	16	70.172444	4.385778			
COMPLETE FACTORIAL AOV For ----- ARAHY DIRTY YIELD LBS/PLOT Sep-28-21 (Data Column 24)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	813.760000				
R	2	59.145333	29.572667	7.247	0.0057	
A	4	496.197778	124.049444	25.071	0.0001	1.9
RA	8	39.583556	4.947944			
B	2	76.197333	38.098667	17.742	0.0103	1.1
RB	4	8.589333	2.147333			
AB	8	68.751556	8.593944	2.106	0.0975	2.9
RAB	16	65.295111	4.080944			

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 ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2						
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/PLOT Sep-28-21 (Data Column 25)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	781.535104				
R	2	56.803178	28.401589	7.247	0.0057	
A	4	476.548346	119.137086	25.071	0.0001	1.9
RA	8	38.016047	4.752006			
B	2	73.179919	36.589959	17.742	0.0103	1.1
RB	4	8.249196	2.062299			
AB	8	66.028994	8.253624	2.106	0.0975	2.8
RAB	16	62.709425	3.919339			
COMPLETE FACTORIAL AOV For ----- ARAHY CLEAN YIELD LBS/A Sep-28-21 (Data Column 26)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	64452045.993282				
R	2	4684474.223712	2342237.111856	7.247	0.0057	
A	4	39300238.393504	9825059.598376	25.071	0.0001	549
RA	8	3135127.240518	391890.905065			
B	2	6035039.855197	3017519.927599	17.742	0.0103	321
RB	4	680298.991166	170074.747792			
AB	8	5445313.631508	680664.203939	2.106	0.0975	810
RAB	16	5171553.657675	323222.103605			
COMPLETE FACTORIAL AOV For ----- ARAHY YIELD LOSS % Sep-28-21 (Data Column 27)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	15068.983111				
R	2	54.640444	27.320222	0.405	0.6735	
A	4	10392.983111	2598.245778	38.642	0.0001	7.2
RA	8	537.906222	67.238278			
B	2	1582.283111	791.141556	14.642	0.0144	5.7
RB	4	216.131556	54.032889			
AB	8	1206.396889	150.799611	2.237	0.0812	11.7
RAB	16	1078.641778	67.415111			
PRM Data Type						
T3 = ([C12]+[C13]+[C14]+[C15]+[C16])/5						
T4 = ([18]+[19]+[20]+[21]+[22])/5						
T1 = [C24]*0.98						
TY2 = 287.17333333*[C25]						

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 ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code										
Crop Code	Arahy	Arahy	Arahy	Arahy	Arahy	Arahy				
Part Rated										
Rating Data Type	Stand	Stand	Stunt	Chlorosi	Stunt	Chlorosi				
Rating Unit	#/5 ft	#/5ft	%	%	%	%				
Rating Date	May-13-21	May-20-21	May-20-21	May-20-21	Jun-7-21	Jun-7-21				
Trt Treatment	Form	Form	Rate							
No. Name	Conc	Type	Rate Unit	Plot	1	2	3	4	5	6
1 ARSENAL POWERLINE PRE	2 AS		0.0	101	27.0	25.0	0.0	0.0	0.0	0.0
				202	26.0	21.0	0.0	0.0	0.0	0.0
				314	25.0	31.0	0.0	0.0	0.0	0.0
				Mean =	26.0	25.7	0.0	0.0	0.0	0.0
2 ARSENAL POWERLINE 30 DAP	2 AS		0.0	102	27.0	28.0	0.0	0.0	0.0	0.0
				211	28.0	29.0	0.0	0.0	0.0	0.0
				303	26.0	28.0	0.0	0.0	0.0	0.0
				Mean =	27.0	28.3	0.0	0.0	0.0	0.0
3 ARSENAL POWERLINE 59 DAP	2 AS		0.0	103	23.0	32.0	0.0	0.0	0.0	0.0
				214	26.0	31.0	0.0	0.0	0.0	0.0
				312	23.0	26.0	0.0	0.0	0.0	0.0
				Mean =	24.0	29.7	0.0	0.0	0.0	0.0
4 ARSENAL POWERLINE PRE	2 AS		0.24 oz/a	104	24.0	26.0	0.0	0.0	5.0	5.0
				206	22.0	30.0	0.0	5.0	5.0	5.0
				305	26.0	28.0	0.0	0.0	10.0	5.0
				Mean =	24.0	28.0	0.0	1.7	6.7	5.0
5 ARSENAL POWERLINE 30 DAP	2 AS		0.24 oz/a	105	26.0	31.0	0.0	0.0	5.0	5.0
				204	26.0	26.0	0.0	0.0	0.0	5.0
				301	28.0	30.0	0.0	0.0	5.0	10.0
				Mean =	26.7	29.0	0.0	0.0	3.3	6.7
6 ARSENAL POWERLINE 59 DAP	2 AS		0.24 oz/a	106	22.0	26.0	0.0	0.0	0.0	0.0
				203	25.0	28.0	0.0	0.0	0.0	0.0
				309	21.0	26.0	0.0	0.0	0.0	0.0
				Mean =	22.7	26.7	0.0	0.0	0.0	0.0
7 ARSENAL POWERLINE PRE	2 AS		2.4 oz/a	107	24.0	28.0	10.0	0.0	15.0	10.0
				209	25.0	28.0	5.0	5.0	15.0	10.0
				315	28.0	27.0	0.0	0.0	15.0	5.0
				Mean =	25.7	27.7	5.0	1.7	15.0	8.3
8 ARSENAL POWERLINE 30 DAP	2 AS		2.4 oz/a	108	21.0	27.0	0.0	0.0	10.0	5.0
				215	26.0	31.0	0.0	0.0	5.0	15.0
				307	26.0	28.0	0.0	0.0	5.0	15.0
				Mean =	24.3	28.7	0.0	0.0	6.7	11.7
9 ARSENAL POWERLINE 59 DAP	2 AS		2.4 oz/a	109	25.0	25.0	0.0	0.0	0.0	0.0
				205	22.0	29.0	0.0	0.0	0.0	0.0
				304	22.0	28.0	0.0	0.0	0.0	0.0
				Mean =	23.0	27.3	0.0	0.0	0.0	0.0
10 ARSENAL POWERLINE PRE	2 AS		4.8 oz/a	110	13.0	28.0	20.0	5.0	45.0	15.0
				213	25.0	24.0	20.0	10.0	20.0	10.0
				311	22.0	31.0	5.0	5.0	20.0	5.0
				Mean =	20.0	27.7	15.0	6.7	28.3	10.0
11 ARSENAL POWERLINE 30 DAP	2 AS		4.8 oz/a	111	21.0	26.0	0.0	0.0	5.0	10.0
				201	22.0	28.0	0.0	0.0	15.0	20.0
				313	26.0	33.0	0.0	0.0	10.0	15.0
				Mean =	23.0	29.0	0.0	0.0	10.0	15.0
12 ARSENAL POWERLINE 59 DAP	2 AS		4.8 oz/a	112	20.0	25.0	0.0	0.0	0.0	0.0
				207	18.0	28.0	0.0	0.0	0.0	0.0
				310	25.0	25.0	0.0	0.0	0.0	0.0
				Mean =	21.0	26.0	0.0	0.0	0.0	0.0
13 ARSENAL POWERLINE PRE	2 AS		24 oz/a	113	18.0	25.0	45.0	10.0	65.0	0.0
				208	22.0	27.0	45.0	10.0	70.0	10.0
				306	13.0	27.0	40.0	10.0	65.0	10.0
				Mean =	17.7	26.3	43.3	10.0	66.7	6.7

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)
 YEAR 2
 Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy			
Weed Code									
Crop Code									
Part Rated									
Rating Data Type	Stand	Stand	Stunt	Chlorosi	Stunt	Chlorosi			
Rating Unit	#/5 ft	#/5ft	%	%	%	%			
Rating Date	May-13-21	May-20-21	May-20-21	May-20-21	Jun-7-21	Jun-7-21			
Trt Treatment	Form	Form	Rate						
No. Name	Conc	Type	Rate Unit Plot	1	2	3	4	5	6
14 ARSENAL POWERLINE	2 AS	24 oz/a	114	22.0	25.0	0.0	0.0	5.0	15.0
30 DAP			210	27.0	30.0	0.0	0.0	15.0	20.0
			308	21.0	28.0	0.0	0.0	10.0	20.0
			Mean =	23.3	27.7	0.0	0.0	10.0	18.3
15 ARSENAL POWERLINE	2 AS	24 oz/a	115	23.0	27.0	0.0	0.0	0.0	0.0
59 DAP			212	20.0	32.0	0.0	0.0	0.0	0.0
			302	21.0	28.0	0.0	0.0	0.0	0.0
			Mean =	21.3	29.0	0.0	0.0	0.0	0.0

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)												
YEAR 2												
Trial ID: PE-07-21		Study Dir.: CHAD ABBOTT										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	
						Stunt %	Chlorosi %	Stunting %	Chlorosi %	Lapping %	Height1 Inches	Ht2 In
						Jun-16-21	Jun-16-21	Jun-30-21	Jun-30-21	Jun-30-21	Jul-6-21	Jul-6-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Plot	7	8	9	10	11	12	13
1	ARSENAL POWERLINE PRE	2 AS	AS	0.0	101	0.0	0.0	0.0	0.0	95.0	9.0	11.0
					202	0.0	0.0	0.0	0.0	85.0	11.0	10.0
					314	0.0	0.0	0.0	0.0	85.0	11.0	11.0
					Mean =	0.0	0.0	0.0	0.0	88.3	10.3	10.7
2	ARSENAL POWERLINE 30 DAP	2 AS	AS	0.0	102	0.0	0.0	0.0	0.0	95.0	12.0	10.0
					211	0.0	0.0	0.0	0.0	90.0	12.0	12.0
					303	0.0	0.0	0.0	0.0	95.0	10.0	10.0
					Mean =	0.0	0.0	0.0	0.0	93.3	11.3	10.7
3	ARSENAL POWERLINE 59 DAP	2 AS	AS	0.0	103	0.0	0.0	0.0	0.0	90.0	11.0	10.0
					214	0.0	0.0	0.0	0.0	95.0	9.0	10.0
					312	0.0	0.0	0.0	0.0	85.0	10.0	11.0
					Mean =	0.0	0.0	0.0	0.0	90.0	10.0	10.3
4	ARSENAL POWERLINE PRE	2 AS	AS	0.24 oz/a	104	5.0	0.0	10.0	0.0	85.0	10.0	10.0
					206	0.0	0.0	10.0	0.0	90.0	11.0	10.0
					305	5.0	0.0	20.0	0.0	5.0	7.0	9.0
					Mean =	3.3	0.0	13.3	0.0	60.0	9.3	9.7
5	ARSENAL POWERLINE 30 DAP	2 AS	AS	0.24 oz/a	105	5.0	0.0	10.0	0.0	80.0	8.0	9.0
					204	0.0	0.0	0.0	0.0	95.0	12.0	10.0
					301	0.0	0.0	0.0	0.0	80.0	9.0	10.0
					Mean =	1.7	0.0	3.3	0.0	85.0	9.7	9.7
6	ARSENAL POWERLINE 59 DAP	2 AS	AS	0.24 oz/a	106	0.0	0.0	0.0	0.0	95.0	0.0	10.0
					203	0.0	0.0	0.0	0.0	90.0	11.0	10.0
					309	0.0	0.0	0.0	0.0	50.0	9.0	9.0
					Mean =	0.0	0.0	0.0	0.0	78.3	6.7	9.7
7	ARSENAL POWERLINE PRE	2 AS	AS	2.4 oz/a	107	35.0	5.0	50.0	0.0	0.0	5.0	5.0
					209	50.0	5.0	50.0	0.0	0.0	5.0	5.0
					315	35.0	5.0	45.0	0.0	0.0	6.0	6.0
					Mean =	40.0	5.0	48.3	0.0	0.0	5.3	5.3
8	ARSENAL POWERLINE 30 DAP	2 AS	AS	2.4 oz/a	108	10.0	10.0	25.0	10.0	10.0	9.0	9.0
					215	10.0	5.0	10.0	10.0	10.0	9.0	9.0
					307	15.0	5.0	25.0	0.0	10.0	10.0	10.0
					Mean =	11.7	6.7	20.0	6.7	10.0	9.3	9.3
9	ARSENAL POWERLINE 59 DAP	2 AS	AS	2.4 oz/a	109	0.0	0.0	0.0	0.0	90.0	8.0	8.0
					205	0.0	0.0	0.0	0.0	95.0	8.0	8.0
					304	0.0	0.0	0.0	0.0	85.0	9.0	9.0
					Mean =	0.0	0.0	0.0	0.0	90.0	8.3	8.3
10	ARSENAL POWERLINE PRE	2 AS	AS	4.8 oz/a	110	50.0	10.0	65.0	0.0	0.0	5.0	5.0
					213	55.0	10.0	60.0	0.0	0.0	5.0	5.0
					311	50.0	5.0	60.0	0.0	0.0	6.0	7.0
					Mean =	51.7	8.3	61.7	0.0	0.0	5.3	5.7
11	ARSENAL POWERLINE 30 DAP	2 AS	AS	4.8 oz/a	111	25.0	20.0	35.0	5.0	0.0	7.0	8.0
					201	35.0	25.0	35.0	0.0	0.0	7.0	7.0
					313	35.0	25.0	45.0	10.0	0.0	6.0	7.0
					Mean =	31.7	23.3	38.3	5.0	0.0	6.7	7.3
12	ARSENAL POWERLINE 59 DAP	2 AS	AS	4.8 oz/a	112	0.0	0.0	0.0	0.0	95.0	8.0	8.0
					207	0.0	0.0	0.0	0.0	90.0	7.0	8.0
					310	0.0	0.0	0.0	0.0	60.0	8.0	8.0
					Mean =	0.0	0.0	0.0	0.0	81.7	7.7	8.0
13	ARSENAL POWERLINE PRE	2 AS	AS	24 oz/a	113	75.0	10.0	75.0	10.0	0.0	5.0	4.0
					208	75.0	15.0	75.0	15.0	0.0	4.0	5.0
					306	70.0	15.0	75.0	10.0	0.0	5.0	5.0
					Mean =	73.3	13.3	75.0	11.7	0.0	4.7	4.7

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2												
Trial ID:		PE-07-21		Study Dir.:		CHAD ABBOTT						
Location:		PONDER FARM		Investigator:		Eric P. Prostko						
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	----- Arahy	
						Stunt %	Chlorosi %	Stunting %	Chlorosi %	Lapping %	Height1 Inches	Ht2 In
						Jun-16-21	Jun-16-21	Jun-30-21	Jun-30-21	Jun-30-21	Jul-6-21	Jul-6-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	7	8	9	10	11	12	13
14	ARSENAL POWERLINE 30 DAP	2	AS	24 oz/a	114	50.0	25.0	65.0	25.0	0.0	3.0	5.0
					210	55.0	25.0	65.0	25.0	0.0	4.0	5.0
					308	50.0	25.0	65.0	25.0	0.0	4.0	4.0
					Mean =	51.7	25.0	65.0	25.0	0.0	3.7	4.7
15	ARSENAL POWERLINE 59 DAP	2	AS	24 oz/a	115	0.0	0.0	0.0	0.0	95.0	6.0	9.0
					212	0.0	0.0	0.0	0.0	95.0	8.0	8.0
					302	0.0	0.0	0.0	0.0	85.0	8.0	8.0
					Mean =	0.0	0.0	0.0	0.0	91.7	7.3	8.3

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)
 YEAR 2
 Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	-----	-----	-----	-----	-----	-----
Crop Code	Arahy	Arahy	Arahy	ARAHY	Arahy	Arahy
Part Rated				HEIGHT, -		
Rating Data Type	Ht3	Ht4	Ht5	AVERAGE	Width1	Wt2
Rating Unit	In	In	In	INCHES	Inches	In
Rating Date	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21	Jul-6-21
Trt Treatment	Form	Form	Rate			
No. Name	Conc	Type	Rate Unit	Plot		
	14	15	16	17	18	19
14 ARSENAL POWERLINE	2 AS	24 oz/a	114	4.0	4.0	4.0
30 DAP			210	3.0	6.0	4.0
			308	4.0	4.0	5.0
			Mean =	3.7	4.7	4.3
15 ARSENAL POWERLINE	2 AS	24 oz/a	115	7.0	7.0	6.0
59 DAP			212	8.0	9.0	8.0
			302	8.0	9.0	9.0
			Mean =	7.7	8.3	7.7
					7.9	26.3
					22.0	25.0
					30.0	30.0
					27.0	28.0
					26.3	27.7
						28.0

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date									
	----- Arahy	----- Arahy	----- ARAHY WIDTH, - AVERAGE	----- ARAHY DIRTY, - YIELD	----- ARAHY CLEAN, - YIELD	----- ARAHY CLEAN, - YIELD	----- Arahy	----- Arahy	----- ARAHY WIDTH, - AVERAGE
	Wt4 In Jul-6-21	Wt5 In Jul-6-21	INCHES Jul-6-21	LBS/PLOT Sep-28-21	LBS/PLOT Sep-28-21	LBS/A Sep-28-21			
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit Plot	21	22	23	24	25	26
1 ARSENAL POWERLINE PRE	2 AS		0.0 101 202 314 Mean =	36.0 36.0 30.0 34.0	36.0 36.0 30.0 34.0	36.0 36.0 29.0 33.7	22.2 23.7 18.5 21.5	21.8 23.2 18.1 21.0	6248 6670 5206 6041
2 ARSENAL POWERLINE 30 DAP	2 AS		0.0 102 211 303 Mean =	36.0 36.0 36.0 36.0	36.0 36.0 36.0 36.0	36.0 36.0 36.0 36.0	21.9 21.7 17.9 20.5	21.5 21.3 17.5 20.1	6163 6107 5038 5769
3 ARSENAL POWERLINE 59 DAP	2 AS		0.0 103 214 312 Mean =	36.0 36.0 32.0 34.7	36.0 36.0 32.0 34.7	36.0 36.0 30.2 34.1	23.2 21.5 20.5 21.7	22.7 21.1 20.1 21.3	6529 6051 5769 6116
4 ARSENAL POWERLINE PRE	2 AS		0.24 oz/a 104 206 305 Mean =	30.0 36.0 36.0 34.0	30.0 36.0 36.0 34.0	30.0 36.0 36.0 34.0	22.7 22.1 15.5 20.1	22.2 21.7 15.2 19.7	6388 6220 4362 5657
5 ARSENAL POWERLINE 30 DAP	2 AS		0.24 oz/a 105 204 301 Mean =	30.0 36.0 36.0 34.0	30.0 36.0 36.0 34.0	30.0 36.0 36.0 34.0	20.4 18.8 18.4 19.2	20.0 18.4 18.0 18.8	5741 5291 5178 5403
6 ARSENAL POWERLINE 59 DAP	2 AS		0.24 oz/a 106 203 309 Mean =	36.0 36.0 36.0 36.0	36.0 36.0 36.0 36.0	36.0 36.0 36.0 36.0	25.1 21.8 19.2 22.0	24.6 21.4 18.8 21.6	7064 6135 5403 6201
7 ARSENAL POWERLINE PRE	2 AS		2.4 oz/a 107 209 315 Mean =	21.0 22.0 20.0 21.0	22.0 23.0 21.0 22.0	20.6 21.6 20.8 21.0	16.1 16.6 12.0 14.9	15.8 16.3 11.8 14.6	4531 4672 3377 4193
8 ARSENAL POWERLINE 30 DAP	2 AS		2.4 oz/a 108 215 307 Mean =	27.0 30.0 29.0 28.7	26.0 31.0 30.0 29.0	26.6 29.2 28.8 28.2	21.5 20.4 20.0 20.6	21.1 20.0 19.6 20.2	6051 5741 5629 5807
9 ARSENAL POWERLINE 59 DAP	2 AS		2.4 oz/a 109 205 304 Mean =	30.0 30.0 28.0 29.3	30.0 30.0 32.0 30.7	30.0 30.0 30.4 30.1	21.2 23.7 16.3 20.4	20.8 23.2 16.0 20.0	5966 6670 4587 5741
10 ARSENAL POWERLINE PRE	2 AS		4.8 oz/a 110 213 311 Mean =	19.0 18.0 21.0 19.3	20.0 19.0 22.0 20.3	18.2 17.4 20.2 18.6	10.3 16.1 16.1 14.2	10.1 15.8 15.8 13.9	2899 4531 4531 3987
11 ARSENAL POWERLINE 30 DAP	2 AS		4.8 oz/a 111 201 313 Mean =	23.0 24.0 21.0 22.7	24.0 26.0 26.0 25.3	21.8 23.2 21.0 22.0	19.5 17.5 17.6 18.2	19.1 17.2 17.2 17.8	5488 4925 4953 5122
12 ARSENAL POWERLINE 59 DAP	2 AS		4.8 oz/a 112 207 310 Mean =	30.0 30.0 26.0 28.7	30.0 30.0 26.0 28.7	28.6 29.0 20.6 26.1	18.1 19.6 16.0 17.9	17.7 19.2 15.7 17.5	5094 5516 4503 5038
13 ARSENAL POWERLINE PRE	2 AS		24 oz/a 113 208 306 Mean =	15.0 15.0 15.0 15.0	15.0 15.0 15.0 15.0	14.0 14.4 14.6 14.3	12.1 6.7 8.9 9.2	11.9 6.6 8.7 9.0	3405 1886 2505 2599

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)
 YEAR 2
 Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code										
Crop Code	Arahy	Arahy	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	ARAHY	
Part Rated			WIDTH, -	DIRTY, -	CLEAN, -	CLEAN, -				
Rating Data Type	Wt4	Wt5	AVERAGE	YIELD	YIELD	YIELD				
Rating Unit	In	In	INCHES	LBS/PLOT	LBS/PLOT	LBS/PLOT				
Rating Date	Jul-6-21	Jul-6-21	Jul-6-21	Sep-28-21	Sep-28-21	Sep-28-21			Sep-28-21	
Trt Treatment	Form	Form	Rate							
No. Name	Conc	Type	Rate Unit	Plot	21	22	23	24	25	26
14 ARSENAL POWERLINE	2 AS		24 oz/a	114	16.0	16.0	15.6	14.3	14.0	4024
30 DAP				210	15.0	16.0	14.8	14.0	13.7	3940
				308	16.0	16.0	15.2	13.9	13.6	3912
			Mean =		15.7	16.0	15.2	14.1	13.8	3959
15 ARSENAL POWERLINE	2 AS		24 oz/a	115	30.0	24.0	25.0	11.4	11.2	3208
59 DAP				212	30.0	30.0	30.0	14.1	13.8	3968
				302	30.0	29.0	28.8	11.9	11.7	3349
			Mean =		30.0	27.7	27.9	12.5	12.2	3508

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR) YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	
						----- ARAHY YIELD, - LOSS % Sep-28-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Plot Plot
						27
1	ARSENAL POWERLINE PRE	2	AS	0.0		101 0.0 202 0.0 314 0.0 Mean = 0.0
2	ARSENAL POWERLINE 30 DAP	2	AS	0.0		102 0.0 211 0.0 303 0.0 Mean = 0.0
3	ARSENAL POWERLINE 59 DAP	2	AS	0.0		103 0.0 214 0.0 312 0.0 Mean = 0.0
4	ARSENAL POWERLINE PRE	2	AS	0.24	oz/a	104 0.0 206 0.9 305 18.3 Mean = 6.4
5	ARSENAL POWERLINE 30 DAP	2	AS	0.24	oz/a	105 9.1 204 15.7 301 3.0 Mean = 9.3
6	ARSENAL POWERLINE 59 DAP	2	AS	0.24	oz/a	106 0.0 203 2.2 309 0.0 Mean = 0.7
7	ARSENAL POWERLINE PRE	2	AS	2.4	oz/a	107 28.2 209 25.6 315 36.7 Mean = 30.2
8	ARSENAL POWERLINE 30 DAP	2	AS	2.4	oz/a	108 4.2 215 8.5 307 0.0 Mean = 4.2
9	ARSENAL POWERLINE 59 DAP	2	AS	2.4	oz/a	109 5.5 205 0.0 304 14.1 Mean = 6.5
10	ARSENAL POWERLINE PRE	2	AS	4.8	oz/a	110 54.1 213 27.8 311 15.1 Mean = 32.3
11	ARSENAL POWERLINE 30 DAP	2	AS	4.8	oz/a	111 13.1 201 21.5 313 7.2 Mean = 13.9
12	ARSENAL POWERLINE 59 DAP	2	AS	4.8	oz/a	112 19.3 207 12.1 310 15.6 Mean = 15.7
13	ARSENAL POWERLINE PRE	2	AS	24	oz/a	113 46.1 208 69.9 306 53.1 Mean = 56.4

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)
YEAR 2

Trial ID: PE-07-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					-----
Crop Code					ARAHY
Part Rated					YIELD, -
Rating Data Type					LOSS
Rating Unit					%
Rating Date					Sep-28-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Plot
				Rate Unit	
14	ARSENAL POWERLINE 30 DAP	2 AS		24 oz/a	114
					210
					308
				Mean =	33.4
15	ARSENAL POWERLINE 59 DAP	2 AS		24 oz/a	115
					212
					302
				Mean =	41.1

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PEANUT RESPONSE TO ARSENAL POWERLINE 2AS (IMAZAPYR)			
YEAR 2			
Trial ID:	PE-07-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

<u>PRM Data Type</u> T3 = $([C12]+[C13]+[C14]+[C15]+[C16])/5$ T4 = $([18]+[19]+[20]+[21]+[22])/5$ T1 = $[C24]*0.98$ TY2 = $287.17333333*[C25]$
