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PEANUT RESPONSE TO 2,4-D AMINE - I

Trial ID: PE-19-11 Study Dir.: RAND MERCHANT
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 gal/ac Mix size: 1.5 liters (min .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Amt Product to Measure	Rep 1	2	3	4
1	30 DAP 2,4-D AMINE	3.8	SL	0.0 oz/a		101	217	312	406
2	30 DAP 2,4-D AMINE	3.8	SL	2.0 oz/a	1.562 ml/mx	102	214	309	404
3	30 DAP 2,4-D AMINE	3.8	SL	4.0 oz/a	3.125 ml/mx	103	213	307	405
4	30 DAP 2,4-D AMINE	3.8	SL	8.0 oz/a	6.249 ml/mx	104	218	310	402
5	30 DAP 2,4-D AMINE	3.8	SL	16.0 oz/a	12.5 ml/mx	105	215	311	403
6	30 DAP 2,4-D AMINE	3.8	SL	32.0 oz/a	25.0 ml/mx	106	216	308	401
7	60 DAP 2,4-D AMINE	3.8	SL	0.0 oz/a		107	202	315	412
8	60 DAP 2,4-D AMINE	3.8	SL	2.0 oz/a	1.562 ml/mx	108	203	317	407
9	60 DAP 2,4-D AMINE	3.8	SL	4.0 oz/a	3.125 ml/mx	109	204	313	409
10	60 DAP 2,4-D AMINE	3.8	SL	8.0 oz/a	6.249 ml/mx	110	205	316	410
11	60 DAP 2,4-D AMINE	3.8	SL	16.0 oz/a	12.5 ml/mx	111	206	318	411
12	60 DAP 2,4-D AMINE	3.8	SL	32.0 oz/a	25.0 ml/mx	112	201	314	408
13	91 DAP 2,4-D AMINE	3.8	SL	0.0 oz/a		113	209	301	416
14	91 DAP 2,4-D AMINE	3.8	SL	2.0 oz/a	1.562 ml/mx	114	212	302	417
15	91 DAP 2,4-D AMINE	3.8	SL	4.0 oz/a	3.125 ml/mx	115	210	305	414
16	91 DAP 2,4-D AMINE	3.8	SL	8.0 oz/a	6.249 ml/mx	116	207	306	415
17	91 DAP 2,4-D AMINE	3.8	SL	16.0 oz/a	12.5 ml/mx	117	208	304	418
18	91 DAP 2,4-D AMINE	3.8	SL	32.0 oz/a	25.0 ml/mx	118	211	303	413

Sort Order: Treatment

Trial Comments

AGRISTAR 2,4-D AMINE FORMULATION

MAINTAINED WEED-FREE

PROWL H20 (34 OZ/A) + VALOR (3 OZ/A) + STRONGARM (0.23 OZ/A) - PRE

SELECTMAX @ 16 OZ/A + 1% COC - MAY 31

CADRE @ 4 OZ/A + 1% COC - JUNE 6

BASAGRAN @ 1 QT/A + 1% COC - JUNE 17

DIGGING DATE: SEPTEMBER 21

HARVEST DATE: SEPTEMBER 27

HARVEST MOISTURE: 15%

YIELDS ARE ADJUSTED TO 10% MOISTURE

SUMMARY:

1) THERE WAS A SIGNIFICANT INTERACTION BETWEEN TIME OF APPLICATION AND 2,4-D RATE FOR PEANUT YIELD LOSS AND PEANUT POD WEIGHTS.

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A) WHEN APPLIED AT 30 DAP, 16 AND 32 OZ/A OF 2,4-D CAUSED SIGNIFICANT YIELD LOSSES (8% AND 25%). 100 POD WEIGHTS WERE NOT REDUCED BY ANY RATE OF 2,4-D APPLIED AT 30 DAP.

B) WHEN APPLIED AT 60 DAP, ALL RATES OF 2,4-D CAUSED SIGNIFICANT YIELD LOSSES RANGING FROM 11-51%. THE GREATEST YIELD LOSSES OCCURRED FROM 16 AND 32 OZ/A (25% AND 51%). POD WEIGHTS WERE SIGNIFICANTLY INCREASED WHEN 2,4-D WAS APPLIED AT 16 OZ/A.

C) WHEN APPLIED AT 91 DAP, ONLY 4 OZ/A OF 2,4-D CAUSED A SIGNIFICANT YIELD LOSS (10%). POD WEIGHTS WERE SIGNIFICANTLY INCREASED WHEN 2,4-D WAS APPLIED AT 8 AND 32 OZ/A.

D) NEITHER TIME OF APPLICATION NOR 2,4-D RATE HAD A SIGNIFICANT EFFECT ON PEANUT SEED WEIGHT.

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CROP AND PEST DESCRIPTION

Weed 1. _____ 2. _____

Crop 1: ARAHY PEANUT Variety: GA-06G Planting Date: May-9-11
Planting Method: MONOSEM TWIN ROW Rate: 3.1 SEED/FT Depth: 2 IN
Perennial Age: _____ Row Spacing: _____ Seed Bed: _____
Soil Temperature: _____ Soil Moisture: OPTIMUM Emergence Date: _____

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

Site Type: _____

Tillage Type: CONVENTIONAL Study Design: SPLPLO
Trial Initiation Comments: THIMET 20G INFR @ 3.5 LBS/A; 36"-9" TWIN ROW SPACING

Previous: Crops _____ Pesticides _____ Year _____

1. _____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND % OM: 1.07 % Sand: 94 % Silt: 2 % Clay: 4
pH: 6.0 CEC: _____ Soil Name: TIFTON Fertility Level: _____

MOISTURE CONDITIONS

On: Date _____ Time _____ Amount _____ Unit _____ Type _____ Interval _____ Unit _____
1. _____

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Jun-8-11	Jul-8-11	Aug-9-11			
Time of Day:	7:30 AM	7:30 AM	7:45 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	30 DAP	60 DAP	91 DAP			
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE			
Air Temp., Unit:	76 F	78 F	78 F			
% Relative Humidity:	73	72	80			
Wind Velocity, Unit:	0 MPH	2 MPH	1 MPH			
Dew Presence (Y/N):	Y	Y	Y			
Water Hardness:	--	--	--			
Soil Temp., Unit:	81 F	80 F	F			
Soil Moisture:	DRY	OPTIMUM	DRY			
% Cloud Cover:	10	100	25			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ARAHY		12" WIDE	LAPPED			
Stage Scale:	R1	R3	R6			
Height, Unit:	4 IN	8 IN	15 IN			6" W

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		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME		SAME			
Operating Pressure:	30						
Nozzle Type:	FLAT FAN						
Nozzle Size:	11002XR						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN					
Boom Height, Unit:	17	IN					
Ground Speed, Unit:	3.0	MPH					
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER						
Spray Volume, Unit:	15	GPA					
Spray pH:							
Propellant:	CO2						
Tank Mix (Y/N):							

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PEANUT RESPONSE TO 2,4-D AMINE - I

Trial ID: PE-19-11 Study Dir.: RAND MERCHANT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Weed Density, Unit Trt-Eval Interval PRM Data Type # Subsamples, Dec.	----- ARAHY YIELD LBS/PLOT Sep-27-11	----- ARAHY YIELD LBS/A Sep-27-11	----- ARAHY YIELD - LOSS PERCENT Sep-27-11 4340	----- ARAHY YIELD - LOSS PERCENT Sep-27-11 ST 0	----- ARAHY 25 POD - WEIGHT GRAMS	----- ARAHY 100POD - WEIGHT GRAMS	----- ARAHY 25SEED - WEIGHT GRAMS	----- ARAHY 100 SD - WEIGHT GRAMS
	111 DA-A	111 DA-A	111 DA-A	111 DA-A	- 2	- 2	- 2	- 2
	- 2	- 0	- 0	- 0		T3 - 0		T4 - 0
Trt Treatment Form Form Rate No. Name Conc Type Rate Unit	1	2	3	4	5	6	7	8
TABLE OF R MEANS								
Replicate 1	13.99	3838	12	11	45.581	182	18.7516689	75
Replicate 2	12.81	3513	19	17	41.419	166	17.7977790	71
Replicate 3	15.76	4323	6	6	44.951	180	18.7944431	75
Replicate 4	15.55	4266	6	6	45.888	184	18.7822227	75
TABLE OF A MEANS								
1 30 DAP	15.18	4162	8	7	45.800	183	18.7037506	75
2 60 DAP	12.91	3542	20	19	43.622	174	18.6995849	75
3 91 DAP	15.50	4251	5	4	43.956	176	18.1912517	73
TABLE OF B MEANS								
1 2,4-D AMINE 3.8 SL 0.0 oz/a	15.83	4340	5	0	43.557	174	18.1416663	73
2 2,4-D AMINE 3.8 SL 2.0 oz/a	15.22	4175	7	7	43.655	175	18.1900024	73
3 2,4-D AMINE 3.8 SL 4.0 oz/a	15.07	4133	8	8	44.367	177	18.5133361	74
4 2,4-D AMINE 3.8 SL 8.0 oz/a	15.20	4170	7	7	45.393	182	18.6791687	75
5 2,4-D AMINE 3.8 SL 16.0 oz/a	14.09	3865	13	13	45.494	182	18.8500004	75
6 2,4-D AMINE 3.8 SL 32.0 oz/a	11.76	3226	27	27	44.292	177	18.8150024	75
TABLE OF AB MEANS								
1 30 DAP 1 2,4-D AMINE 3.8 SL 0.0 oz/a	16.53	4532	4	0	47.578	190	19.3600006	77
2 60 DAP 1 2,4-D AMINE 3.8 SL 0.0 oz/a	15.88	4354	4	0	42.253	169	17.6600016	71
3 91 DAP 1 2,4-D AMINE 3.8 SL 0.0 oz/a	15.08	4135	6	0	40.840	163	17.4050024	70
1 30 DAP 2 2,4-D AMINE 3.8 SL 2.0 oz/a	15.58	4272	5	5	43.900	176	18.6550026	75
2 60 DAP 2 2,4-D AMINE 3.8 SL 2.0 oz/a	14.54	3987	12	12	44.620	178	18.5325012	74
3 91 DAP 2 2,4-D AMINE 3.8 SL 2.0 oz/a	15.55	4265	3	3	42.445	170	17.3825014	70
1 30 DAP 3 2,4-D AMINE 3.8 SL 4.0 oz/a	16.23	4450	2	2	46.895	188	19.0675030	76
2 60 DAP 3 2,4-D AMINE 3.8 SL 4.0 oz/a	14.35	3936	11	11	43.723	175	18.5100021	74
3 91 DAP 3 2,4-D AMINE 3.8 SL 4.0 oz/a	14.64	4015	10	10	42.483	170	17.9625014	72
1 30 DAP 4 2,4-D AMINE 3.8 SL 8.0 oz/a	16.34	4481	1	1	45.558	182	18.7775020	75
2 60 DAP 4 2,4-D AMINE 3.8 SL 8.0 oz/a	13.13	3600	17	17	43.515	174	18.9425030	76
3 91 DAP 4 2,4-D AMINE 3.8 SL 8.0 oz/a	16.15	4429	2	2	47.108	188	18.3175029	73
1 30 DAP 5 2,4-D AMINE 3.8 SL 16.0 oz/a	14.59	4001	8	8	45.640	183	18.1150016	72

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Weed Code	----- ARAHY	----- ARAHY	----- ARAHY	----- ARAHY	----- ARAHY	----- ARAHY	----- ARAHY	----- ARAHY
Crop Code								
Part Rated								
Rating Data Type	YIELD	YIELD	YIELD -	YIELD -	25 POD -	100POD -	25SEED -	100 SD -
Rating Unit	LBS/PLOT	LBS/A	PERCENT	PERCENT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
Rating Date	Sep-27-11	Sep-27-11	Sep-27-11	Sep-27-11	GRAMS	GRAMS	GRAMS	GRAMS
Crop Stage			4340	ST 0				
Weed Density, Unit					- 2	- 2	- 2	- 2
Trt-Eval Interval	111 DA-A	111 DA-A	111 DA-A	111 DA-A				
PRM Data Type		TY1	T2			T3		T4
# Subsamples, Dec.	- 2	- 0	- 0	- 0		- 0		- 0
Trt Treatment Form Form Rate	1	2	3	4	5	6	7	8
No. Name Conc Type Rate Unit								
2 60 DAP	11.81	3240	25	25	46.640	187	19.8225022	79
5 2,4-D AMINE 3.8 SL 16.0 oz/a								
3 91 DAP	15.88	4354	6	6	44.203	177	18.6125011	74
5 2,4-D AMINE 3.8 SL 16.0 oz/a								
1 30 DAP	11.80	3236	25	25	45.233	181	18.2475013	73
6 2,4-D AMINE 3.8 SL 32.0 oz/a								
2 60 DAP	7.79	2136	51	51	40.983	164	18.7300014	75
6 2,4-D AMINE 3.8 SL 32.0 oz/a								
3 91 DAP	15.70	4306	4	4	46.660	187	19.4675007	78
6 2,4-D AMINE 3.8 SL 32.0 oz/a								

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COMPLETE SPLIT-PLOT AOV For ----- ARAHY YIELD LBS/PLOT Sep-27-11 111 DA-A 2 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	511.444918				
R	3	104.607675	34.869225	25.237	0.0001	0.66
A	2	95.110345	47.555172	19.371	0.0024	0.88
ERROR A	6	14.729991	2.454999	1.777	0.1255	1.14
B	5	129.044878	25.808976	18.679	0.0001	0.81
AB	10	105.776214	10.577621	7.656	0.0001	1.40
ERROR B	45	62.175815	1.381685			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY YIELD LBS/PLOT Sep-27-11 111 DA-A 2 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	511.444918				
R	3	104.607675	34.869225	23.123	0.0001	0.68
A	2	95.110345	47.555172	31.536	0.0001	0.59
B	5	129.044878	25.808976	17.115	0.0001	0.84
AB	10	105.776214	10.577621	7.015	0.0001	1.45
ERROR	51	76.905806	1.507957			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY YIELD LBS/A Sep-27-11 111 DA-A TY1 0 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	38472025.858324				
R	3	7868825.765946	2622941.921982	25.237	0.0001	181
A	2	7154411.311257	3577205.655629	19.371	0.0024	241
ERROR A	6	1108023.144026	184670.524004	1.777	0.1255	313
B	5	9707044.037629	1941408.807526	18.679	0.0001	222
AB	10	7956720.128302	795672.012830	7.656	0.0001	384
ERROR B	45	4677001.471164	103933.366026			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY YIELD LBS/A Sep-27-11 111 DA-A TY1 0 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	38472025.858324				
R	3	7868825.765946	2622941.921982	23.124	0.0001	188
A	2	7154411.311257	3577205.655629	31.536	0.0001	162
B	5	9707044.037629	1941408.807526	17.115	0.0001	230
AB	10	7956720.128302	795672.012830	7.015	0.0001	398
ERROR	51	5785024.615190	113431.855200			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY YIELD LOSS PERCENT Sep-27-11 4340 111 DA-A T2 0 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	14420.791373				
R	3	2045.488240	681.829413	23.322	0.0001	3
A	2	3059.482167	1529.741084	14.814	0.0048	6
ERROR A	6	619.596761	103.266127	3.532	0.0060	5
B	5	4061.906145	812.381229	27.787	0.0001	4
AB	10	3318.709168	331.870917	11.352	0.0001	6
ERROR B	45	1315.608892	29.235753			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY YIELD LOSS PERCENT Sep-27-11 4340 111 DA-A T2 0 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	14420.791373				
R	3	2045.488240	681.829413	17.969	0.0001	3
A	2	3059.482167	1529.741084	40.314	0.0001	3
B	5	4061.906145	812.381229	21.409	0.0001	4
AB	10	3318.709168	331.870917	8.746	0.0001	7
ERROR	51	1935.205653	37.945209			

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COMPLETE SPLIT-PLOT AOV For ----- ARAHY YIELD LOSS PERCENT Sep-27-11 ST 0 111 DA-A 0 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	14793.273556				
R	3	1526.842463	508.947488	16.967	0.0001	3
A	2	3132.312699	1566.156350	16.633	0.0036	5
ERROR A	6	564.952078	94.158680	3.139	0.0118	5
B	5	4980.860644	996.172129	33.209	0.0001	4
AB	10	3238.446745	323.844675	10.796	0.0001	7
ERROR B	45	1349.858926	29.996865			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY YIELD LOSS PERCENT Sep-27-11 ST 0 111 DA-A 0 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	14793.273556				
R	3	1526.842463	508.947488	13.556	0.0001	3
A	2	3132.312699	1566.156350	41.714	0.0001	3
B	5	4980.860644	996.172129	26.533	0.0001	4
AB	10	3238.446745	323.844675	8.625	0.0001	7
ERROR	51	1914.811004	37.545314			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY 25 POD WEIGHT GRAMS 2 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	1247.384418				
R	3	230.126069	76.708690	7.695	0.0003	1.772
A	2	66.062041	33.031021	0.741	0.5156	3.744
ERROR A	6	267.337704	44.556284	4.469	0.0013	3.070
B	5	41.300292	8.260058	0.829	0.5362	2.171
AB	10	193.945491	19.394549	1.945	0.0634	3.760
ERROR B	45	448.612821	9.969174			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY 25 POD WEIGHT GRAMS 2 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	1247.384418				
R	3	230.126069	76.708690	5.464	0.0025	2.087
A	2	66.062041	33.031021	2.353	0.1053	1.807
B	5	41.300292	8.260058	0.588	0.7088	2.556
AB	10	193.945491	19.394549	1.382	0.2155	4.427
ERROR	51	715.950525	14.038246			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY 100POD WEIGHT GRAMS 2 T3 0 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	19958.150685				
R	3	3682.017103	1227.339034	7.695	0.0003	7
A	2	1056.992658	528.496329	0.741	0.5156	15
ERROR A	6	4277.403262	712.900544	4.469	0.0013	12
B	5	660.804665	132.160933	0.829	0.5362	9
AB	10	3103.127856	310.312786	1.945	0.0634	15
ERROR B	45	7177.805140	159.506781			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY 100POD WEIGHT GRAMS 2 T3 0 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	19958.150685				
R	3	3682.017103	1227.339034	5.464	0.0025	8
A	2	1056.992658	528.496329	2.353	0.1053	7
B	5	660.804665	132.160933	0.588	0.7088	10
AB	10	3103.127856	310.312786	1.382	0.2155	18
ERROR	51	11455.208402	224.611929			

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COMPLETE SPLIT-PLOT AOV For ----- ARAHY 25SEED WEIGHT GRAMS 2 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	136.143142				
R	3	12.938820	4.312940	2.447	0.0761	0.7453031
A	2	4.168614	2.084307	0.981	0.4281	0.8177819
ERROR A	6	12.754454	2.125742	1.206	0.3209	1.2909029
B	5	5.670522	1.134104	0.643	0.6679	0.9128062
AB	10	21.280879	2.128088	1.207	0.3123	1.5810267
ERROR B	45	79.329852	1.762886			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY 25SEED WEIGHT GRAMS 2 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	136.143142				
R	3	12.938820	4.312940	2.389	0.0796	0.7484503
A	2	4.168614	2.084307	1.154	0.3234	0.6481770
B	5	5.670522	1.134104	0.628	0.6791	0.9166606
AB	10	21.280879	2.128088	1.179	0.3268	1.5877028
ERROR	51	92.084307	1.805575			

COMPLETE SPLIT-PLOT AOV For ----- ARAHY 100 SD WEIGHT GRAMS 2 T4 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	2178.290271				
R	3	207.021124	69.007041	2.447	0.0761	3
A	2	66.697819	33.348910	0.981	0.4281	3
ERROR A	6	204.071269	34.011878	1.206	0.3209	5
B	5	90.728352	18.145670	0.643	0.6679	4
AB	10	340.494072	34.049407	1.207	0.3123	6
ERROR B	45	1269.277636	28.206170			

FACTORIAL/POOLED ERROR AOV For ----- ARAHY 100 SD WEIGHT GRAMS 2 T4 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	71	2178.290271				
R	3	207.021124	69.007041	2.389	0.0796	3
A	2	66.697819	33.348910	1.154	0.3234	3
B	5	90.728352	18.145670	0.628	0.6791	4
AB	10	340.494072	34.049407	1.179	0.3268	6
ERROR	51	1473.348905	28.889194			

PRM Data Type

TY1 = 274.2667*[C1]
 T2 = ((4340-[C2])/4340)*100
 T3 = [C5]*4
 T4 = [C7]*4