

University of Georgia

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

		Plots: 6 by 25 feet													
Reps: 4															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Appl. Amount	Mix Size	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3	Rep 4
1	NO COUNTER NO HERBICIDE										-	101	207	304	406
2	NO COUNTER SHIELDDEX ATRAZINE GROUNDED	3.33 L 4 L		1.0 oz/a 32.0 oz/a 0.83 % v/v		PRE PRE PRE	B B B	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	0.7812 mL/mx 25.0 mL/mx 12.45 mL/mx	1461.8 mL	102	206	305	407
3	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		24.0 oz/a 32.0 oz/a 0.83 % v/v		PRE PRE PRE	B B B	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	18.75 mL/mx 25.0 mL/mx 12.45 mL/mx	1443.8 mL	103	204	306	405
4	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		32.0 oz/a 32.0 oz/a 0.83 % v/v		PRE PRE PRE	B B B	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	25.0 mL/mx 25.0 mL/mx 12.45 mL/mx	1437.6 mL	104	205	307	401
5	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		45.0 oz/a 32.0 oz/a 0.83 % v/v		PRE PRE PRE	B B B	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	35.16 mL/mx 25.0 mL/mx 12.45 mL/mx	1427.4 mL	105	203	301	402
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v		PRE PRE	B B	15 GAL/AC 15 GAL/AC	1.5 L 1.5 L	62.5 mL/mx 12.45 mL/mx	1425.1 mL	106	202	302	403
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v		PRE PRE	B B	15 GAL/AC 15 GAL/AC	1.5 L 1.5 L	50.0 mL/mx 12.45 mL/mx	1437.6 mL	107	201	303	404
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A	-	-	-	-	4.252 g/1 row/1 plot	-	108	214	311	410
9	COUNTER SHIELDDEX ATRAZINE GROUNDED	20 G 3.33 L 4 L		6.0 oz/1000 row-ft 1.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A	-	-	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	4.252 g/1 row/1 plot 0.7812 mL/mx 25.0 mL/mx 12.45 mL/mx	1461.8 mL	109	213	312	414
10	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 24.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A	-	-	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	4.252 g/1 row/1 plot 18.75 mL/mx 25.0 mL/mx 12.45 mL/mx	1443.8 mL	110	212	314	408
11	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 32.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A	-	-	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	4.252 g/1 row/1 plot 25.0 mL/mx 25.0 mL/mx 12.45 mL/mx	1437.6 mL	111	211	313	409
12	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 45.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A	-	-	15 GAL/AC 15 GAL/AC 15 GAL/AC	1.5 L 1.5 L 1.5 L	4.252 g/1 row/1 plot 35.16 mL/mx 25.0 mL/mx 12.45 mL/mx	1427.4 mL	112	210	309	413
13	COUNTER ACURON GROUNDED	20 G 3.44 L		6.0 oz/1000 row-ft 80.0 oz/a 0.83 % v/v	INFR A	-	-	15 GAL/AC 15 GAL/AC	1.5 L 1.5 L	4.252 g/1 row/1 plot 62.5 mL/mx 12.45 mL/mx	1425.1 mL	113	209	308	411
14	COUNTER BICEP II MAGNUM GROUNDED	20 G 5.5 L		6.0 oz/1000 row-ft 64.0 oz/a 0.83 % v/v	INFR A	-	-	15 GAL/AC 15 GAL/AC	1.5 L 1.5 L	4.252 g/1 row/1 plot 50.0 mL/mx 12.45 mL/mx	1437.6 mL	114	208	310	412

Sort Order: Replicate 1

University of Georgia

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Trial Comments

HM1821A = EMPYROS = TOLPYRALATE (0.10 LBS/GAL) + S-METOLACHLOR (3.72 LBS/GAL) + BENOXACOR (SAFENER)

ACURON = BICYCLOPYRONE (0.06 LBS/AGAL) + MESOTRIONE (0.24 LBS/GAL) + ATRAZINE (1.0 LBS/GAL) + S-METOLACHLOR (2.14 LBS/GAL) + BENOXACOR (SAFENER)

BICEP II MAGNUM = ATRAZINE (3.1 LBS/GAL) + S-METOLACHLOR (2.4 LBS/GAL) + BENOXACOR (SAFENER)

0.83% V/V = 16 OZ/A

HARVEST DATE: 09/06/23
HARVEST MOISTURE: 14.925%
YIELDS ADJUSTED TO 15.5%

AGRASS = NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDNG TX PANICUM, CRABGRASS, CROWFOOTGRASS, GOOSEGRASS, AND SANDBUR.

SUMMARY:

- 1) THERE WAS NO INTERACTION BETWEEN COUNTER AND ANY PRE HERBICIDE TREATMENT EXCEPT FOR BLEACHING RATINGS OBTAINED ON APRIL 26 (26 DAT).
- 2) COUNTER HAD NO EFFECT ON CORN STAND, INJURY, AND HEIGHT EXCEPT FOR STUNTING RATINGS OBTAINED ON ON APRIL 7 (7 DAT). MORE STUNTING WITH COUNTER (8% > 1%).
- 3) PRE HERBICIDES HAD NO EFFECT ON CORN STAND OR PLANT HEIGHT.
- 4) SOME MINOR BELACHING AND STUNTING SYMPTOMS WERE OBSERVED FROM THE VARIOUS PRE TREATMENTS BUT NOTHING MORE THAN 10%.
- 5) AT 26 DAT, ALL PRE TREATMENTS PROVIDED EXCELLENT CONTROL (99%) OF PALMER AMARANTH AND CORN SPURRY.
- 6) AT 45 DAT, ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH, CORN SPURRY, AND CARPETWEED (99% CONTROL) BUT POOR CONTROL OF ANNUAL GRASSES (<70% CONTROL). HOWEVER, EMPYROS @ 45 OZ/A, ACURON, AND BICEP II MAGNUM PROVIDED BETTER ANNUAL GRASS CONTROL THAN LOWER RATES OF EMPYROS OR SHIELDEX.
- 7) AT 132 DAT, THE FOLLOWING WEED CONTROL OBSERVATIONS WERE MADE:
 - A) PALMER AMARANTH CONTROL WITH ALL PRE TREATMENTS WAS AT LEAST 98%.
 - B) FLORIDA BEGGARWEED CONTROL WAS AT LEAST 84% WITH ALL TREATMENTS EXCEPT ACURON (24% CONTROL) AND BICEP II MAGNUM (35% CONTROL).
 - C) ANNUAL GRASS CONTROL WAS LESS THAN 65% WITH ALL PRE TREATMENTS BUT EMPYROS @ 45 OZ/A, ACURON, AND BICEP II MAGNUM PROVIDED BETTER GRASS CONTROL THAN LOWER RATES OF EMPYROS OR SHIELDEX.
- 8) TOTAL WEED COVER AT HARVEST WAS THE LOWEST WITH EMPYROS @ 45 OZ/A + ATRAZINE @ 32 OZ/A + GROUNDED.
- 9) COUNTER HAD NO EFFECT ON CORN YIELD (P=0.4188).
- 10) ALL HERBICIDE TREATMENTS RESULTED IN GREATER YIELDS THAN THE NTC. GENERALLY, NO DIFFERENCES IN YIELD BETWEEN HERBICIDE TREATED PLOTS WERE OBSERVED EXCEPT FOR THE FOLLOWING:

BICEP II MAGNUM + GROUNDED HAD HIGHER YIELDS THAN SHIELDEX + ATRAZINE + GROUNDED AND EMPYROS @ 32 OZ/A + ATRAZINE + GROUNDED.

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: ZACH TAYLOR **Title:** _____
Affiliation: _____
Postal Code: _____
Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____
Postal Code: _____

TRIAL LOCATION

City: _____ **Trial Status:** E
State/Prov.: _____ **Trial Reliability:** _____
Postal Code: _____ **Initiation Date:** _____
Country: _____ **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions: _____

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective: _____

Conclusions: _____

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	PA	LMER AMARANTH
2.	RAPRA	WI	LD RADISH
3.	AGRASS	AN	NUAL GRASSES
4.	SPEAR	CO	RN SPURRY
5.	DEDTO	FL	ORIDA BEGGARWEED
6.	LAMAM	HE	NBIT

Crop 1: ZEAMA FIELD CORN **Variety:** DYNAGRO D58VC65
Planting Date: Mar-30-23 **Planting Method:** MONOSEM VACUUM
Rate: 33880 SEED/A **Depth:** 2 IN **Perennial Age:** _____
Row Spacing: 36 IN **Spacing Within Row:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** FACTOR

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	PEANUT		2022

MAINTENANCE

Field Prep./Maintenance: 1 TON/A LIME - PREPLANT
 800 LBS/A 5-15-30 PREPLANT
 PONCHO/VOTIVO SEED TRT
 122-0-0-15 SIDRESS ON APRIL 24 AND MAY 3
 AXILO BMZ @ 2 LBS/A (MICRONUTRIENTS) ON APRIL 20

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

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

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

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-3-23		0.83	IN	RAINFALL		
2.	Apr-7-23		0.45	IN	SPRINKLER - LATERAL MOVE		
3.	Apr-8-23		0.42	IN	RAINFALL		
4.	Apr-14-23		0.11	IN	RAINFALL		
5.	Apr-25-23		0.25	IN	SPRINKLER - LATERAL MOVE		
6.	Apr-27-23		1.0	IN	RAINFALL		
7.	Apr-29-23		0.65	IN	RAINFALL		
8.	May-11-23		0.5	IN	SPRINKLER - LATERAL MOVE		
9.	May-12-23		2.5	IN	RAINFALL		
10.	May-19-23		0.5	IN	SPRINKLER - LATERAL MOVE		
11.	May-20-23		0.1	IN	RAINFALL		
12.	May-22-23		0.75	IN	RAINFALL		

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

APPLICATION DESCRIPTION

	A	B
Application Date:	Mar-31-23	
Time of Day:	7:00AM	
Application Method:	BROADCAST	
Application Timing:	PRE	
Applic. Placement:	SOIL	
Air Temp., Unit:	54 F	
% Relative Humidity:	90	
Wind Velocity, Unit:	2 MPH	
Dew Presence (Y/N):	N	
Water Hardness:	--	
Soil Temp., Unit:	59 F	
Soil Moisture:	OPTIMUM	
% Cloud Cover:	5	

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMA,	ZEAMA,
Stage Scale:		
Height, Unit:		

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

WEED STAGE AT EACH APPLICATION		
	A	B
Weed 1 Code, Stage:	AMAPA,	AMAPA,
Stage Scale:		
Density, Unit:		
Weed 2 Code, Stage:	RAPRA,	RAPRA,
Stage Scale:		
Density, Unit:		
Weed 3 Code, Stage:	AGRAS,	AGRAS,
Stage Scale:		
Density, Unit:		
Weed 4 Code, Stage:	SPEAR,	SPEAR,
Stage Scale:		
Density, Unit:		
Weed 5 Code, Stage:	DEDTO,	DEDTO,
Stage Scale:		
Density, Unit:		
Weed 6 Code, Stage:	LAMAM,	LAMAM,
Stage Scale:		
Density, Unit:		

APPLICATION EQUIPMENT		
	A	B
Appl. Equipment:	BACKPACK	
Operating Pressure:	36	
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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Trial ID:		CN-10-23		Study Dir.:		ZACH TAYLOR									
Location:		PONDER FARM		Investigator:		Eric P. Prostko									
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	----- Zeama Stand #/5 FT Apr-7-23	----- Zeama Stunting % Apr-7-23	----- Zeama Stunting % Apr-13-23	----- Zeama Stunting % Apr-18-23	----- Zeama Stand #/5 ft Apr-18-23	----- Zeama Chlorosis % Apr-18-23	Amapa ----- Control % Apr-18-23	Lamam ----- Control % Apr-18-23	Agrass ----- Control % Apr-18-23		
Trt-Eval Interval					7 DA-A	7 DA-A	13 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8	9
TABLE OF R MEANS															
Replicate 1															
							10.9	2.1	0.0	1.4	10.8	0.4	84.9	84.9	78.5
Replicate 2															
							11.2	5.7	2.9	0.0	10.9	0.0	84.9	84.9	74.2
Replicate 3															
							11.1	3.9	0.0	0.0	11.1	0.0	84.9	84.9	81.9
Replicate 4															
							11.0	5.7	0.0	0.0	11.0	0.0	84.9	84.9	83.9
TABLE OF A (INSECTICIDE) MEANS															
1 NO COUNTER															
							11.1 -	0.7 b	0.7 -	0.4 -	10.9 -	0.0 -	84.9 -	84.9 -	80.1 -
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A															
							11.0 -	8.0 a	0.7 -	0.4 -	11.0 -	0.2 -	84.9 -	84.9 -	79.1 -
LSD P=.10															
Standard Deviation															
							0.57	2.94	.	.	0.48	0.42	.	.	2.77
CV															
							0.91	4.68	0.00	0.00	0.77	0.67	0.00	0.00	4.41
							8.23	106.90	0.00	0.00	7.01	748.33	0.00	0.00	5.54
TABLE OF B (HERBICIDE) MEANS															
1 NO HERBICIDE															
							11.0 -	5.0 -	0.0 b	0.0 -	10.9 -	0.0 -	0.0 b	0.0 b	0.0 c
2 SHIELDDEX 3.33 L 1.0 oz/a PRE B															
							11.1 -	3.8 -	0.0 b	0.0 -	10.9 -	0.0 -	99.0 a	99.0 a	77.4 b
2 ATRAZINE 4 L 32.0 oz/a PRE B															
2 GROUNDED 0.83 % v/v PRE B															
3 HM1821A 3.82 L 24.0 oz/a PRE B															
							10.9 -	4.4 -	2.5 a	0.0 -	10.9 -	0.0 -	99.0 a	99.0 a	93.8 a
3 ATRAZINE 4 L 32.0 oz/a PRE B															
3 GROUNDED 0.83 % v/v PRE B															
4 HM1821A 3.82 L 32.0 oz/a PRE B															
							11.5 -	5.6 -	2.5 a	1.3 -	10.9 -	0.0 -	99.0 a	99.0 a	93.8 a
4 ATRAZINE 4 L 32.0 oz/a PRE B															
4 GROUNDED 0.83 % v/v PRE B															
5 HM1821A 3.82 L 45.0 oz/a PRE B															
							11.0 -	3.8 -	0.0 b	0.0 -	10.9 -	0.0 -	99.0 a	99.0 a	96.1 a
5 ATRAZINE 4 L 32.0 oz/a PRE B															
5 GROUNDED 0.83 % v/v PRE B															
6 ACURON 3.44 L 80.0 oz/a PRE B															
							11.1 -	3.8 -	0.0 b	1.3 -	11.3 -	0.6 -	99.0 a	99.0 a	99.0 a
6 GROUNDED 0.83 % v/v PRE B															
7 BICEP II MAGNUM 5.5 L 64.0 oz/a PRE B															
							10.8 -	4.4 -	0.0 b	0.0 -	11.0 -	0.0 -	99.0 a	99.0 a	97.3 a
7 GROUNDED 0.83 % v/v PRE B															
LSD P=.10															
Standard Deviation															
							0.80	2.70	2.06	1.60	0.75	0.56	.	.	6.50
CV															
							0.95	3.20	2.44	1.89	0.89	0.67	0.00	0.00	7.70
							8.56	73.07	341.57	529.15	8.11	748.33	0.00	0.00	9.67
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS															
1 NO COUNTER															
							10.8 -	0.0 -	0.0 -	0.0 -	10.5 -	0.0 -	0.0 b	0.0 b	0.0 -
1 NO HERBICIDE															
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A															
							11.3 -	10.0 -	0.0 -	0.0 -	11.3 -	0.0 -	0.0 b	0.0 b	0.0 -
1 NO COUNTER															
							11.3 -	0.0 -	0.0 -	0.0 -	11.0 -	0.0 -	99.0 a	99.0 a	80.0 -
2 SHIELDDEX 3.33 L 1.0 oz/a PRE B															
2 ATRAZINE 4 L 32.0 oz/a PRE B															
2 GROUNDED 0.83 % v/v PRE B															
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A															
							11.0 -	7.5 -	0.0 -	0.0 -	10.8 -	0.0 -	99.0 a	99.0 a	74.8 -
2 SHIELDDEX 3.33 L 1.0 oz/a PRE B															
2 ATRAZINE 4 L 32.0 oz/a PRE B															
2 GROUNDED 0.83 % v/v PRE B															

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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Location:		PONDER FARM		Investigator:		Eric P. Prostko								
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	Zeama Stand #/5 FT Apr-7-23	Zeama Stunting % Apr-7-23	Zeama Stunting % Apr-13-23	Zeama Stunting % Apr-18-23	Zeama Stand #/5 ft Apr-18-23	Zeama Chlorosis % Apr-18-23	Amapa Control % Apr-18-23	Lamam Control % Apr-18-23	Agrass Control % Apr-18-23
						7 DA-A	7 DA-A	13 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Appl Stg Code	1	2	3	4	5	6	7	8	9
1	NO COUNTER					11.3 -	1.3 -	2.5 -	0.0 -	10.5 -	0.0 -	99.0 a	99.0 a	95.5 -
3	HM1821A	3.82 L		24.0 oz/a	PRE B									
3	ATRAZINE	4 L		32.0 oz/a	PRE B									
3	GROUNDDED			0.83 % v/v	PRE B									
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	10.5 -	7.5 -	2.5 -	0.0 -	11.3 -	0.0 -	99.0 a	99.0 a	92.0 -
3	HM1821A	3.82 L		24.0 oz/a	PRE B									
3	ATRAZINE	4 L		32.0 oz/a	PRE B									
3	GROUNDDED			0.83 % v/v	PRE B									
1	NO COUNTER					11.5 -	1.3 -	2.5 -	2.5 -	10.8 -	0.0 -	99.0 a	99.0 a	95.5 -
4	HM1821A	3.82 L		32.0 oz/a	PRE B									
4	ATRAZINE	4 L		32.0 oz/a	PRE B									
4	GROUNDDED			0.83 % v/v	PRE B									
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	11.5 -	10.0 -	2.5 -	0.0 -	11.0 -	0.0 -	99.0 a	99.0 a	92.0 -
4	HM1821A	3.82 L		32.0 oz/a	PRE B									
4	ATRAZINE	4 L		32.0 oz/a	PRE B									
4	GROUNDDED			0.83 % v/v	PRE B									
1	NO COUNTER					10.8 -	2.5 -	0.0 -	0.0 -	11.0 -	0.0 -	99.0 a	99.0 a	95.5 -
5	HM1821A	3.82 L		45.0 oz/a	PRE B									
5	ATRAZINE	4 L		32.0 oz/a	PRE B									
5	GROUNDDED			0.83 % v/v	PRE B									
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	11.3 -	5.0 -	0.0 -	0.0 -	10.8 -	0.0 -	99.0 a	99.0 a	96.8 -
5	HM1821A	3.82 L		45.0 oz/a	PRE B									
5	ATRAZINE	4 L		32.0 oz/a	PRE B									
5	GROUNDDED			0.83 % v/v	PRE B									
1	NO COUNTER					11.0 -	0.0 -	0.0 -	0.0 -	11.0 -	0.0 -	99.0 a	99.0 a	99.0 -
6	ACURON	3.44 L		80.0 oz/a	PRE B									
6	GROUNDDED			0.83 % v/v	PRE B									
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	11.3 -	7.5 -	0.0 -	2.5 -	11.5 -	1.3 -	99.0 a	99.0 a	99.0 -
6	ACURON	3.44 L		80.0 oz/a	PRE B									
6	GROUNDDED			0.83 % v/v	PRE B									
1	NO COUNTER					11.3 -	0.0 -	0.0 -	0.0 -	11.5 -	0.0 -	99.0 a	99.0 a	95.5 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B									
7	GROUNDDED			0.83 % v/v	PRE B									
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	10.3 -	8.8 -	0.0 -	0.0 -	10.5 -	0.0 -	99.0 a	99.0 a	99.0 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B									
7	GROUNDDED			0.83 % v/v	PRE B									
LSD P=.10						1.13	3.82	2.91	2.26	1.06	0.80	.	.	9.19
Standard Deviation						0.95	3.20	2.44	1.89	0.89	0.67	0.00	0.00	7.70
CV						8.56	73.07	341.57	529.15	8.11	748.33	0.00	0.00	9.67

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

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN															
Trial ID:		CN-10-23		Study Dir.:		ZACH TAYLOR									
Location:		PONDER FARM		Investigator:		Eric P. Prostko									
Weed Code															
Crop Code															
Rating Data Type															
Rating Unit															
Rating Date															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code									
							10	11	12	13	14	15	16	17	18
TABLE OF R MEANS															
Replicate 1															
							4.3	0.4	0.0	84.9	84.9	15.39	15.71	16.00	15.79
Replicate 2															
							0.7	0.7	0.0	84.9	84.9	15.82	15.96	16.11	15.82
Replicate 3															
							2.5	0.7	0.0	84.9	84.9	16.11	16.00	15.93	15.75
Replicate 4															
							2.1	0.4	0.0	84.9	84.9	16.50	16.50	16.82	16.36
TABLE OF A (INSECTICIDE) MEANS															
1 NO COUNTER															
							2.9 -	0.4 -	0.0 -	84.9 -	84.9 -	16.05 -	16.21 -	16.34 -	15.86 -
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A															
							2.0 -	0.7 -	0.0 -	84.9 -	84.9 -	15.86 -	15.88 -	16.09 -	16.00 -
LSD P=.10															
Standard Deviation															
							1.86	1.09	.	.	.	1.124	0.939	1.186	1.065
CV															
							2.96	1.73	0.00	0.00	0.00	1.787	1.494	1.885	1.694
							122.91	322.03	0.00	0.00	0.00	11.203	9.309	11.626	10.634
TABLE OF B (HERBICIDE) MEANS															
1 NO HERBICIDE															
							0.0 -	0.0 -	0.0 -	0.0 b	0.0 b	16.31 -	16.63 -	16.25 -	16.00 -
2 SHIELDDEX 3.33 L 1.0 oz/a PRE B															
							1.3 -	0.6 -	0.0 -	99.0 a	99.0 a	16.13 -	16.56 -	16.50 -	16.31 -
2 ATRAZINE 4 L 32.0 oz/a PRE B															
2 GROUNDED 0.83 % v/v PRE B															
3 HM1821A 3.82 L 24.0 oz/a PRE B															
							1.9 -	1.3 -	0.0 -	99.0 a	99.0 a	16.44 -	16.19 -	16.44 -	15.94 -
3 ATRAZINE 4 L 32.0 oz/a PRE B															
3 GROUNDED 0.83 % v/v PRE B															
4 HM1821A 3.82 L 32.0 oz/a PRE B															
							3.8 -	0.0 -	0.0 -	99.0 a	99.0 a	15.88 -	15.63 -	16.13 -	16.25 -
4 ATRAZINE 4 L 32.0 oz/a PRE B															
4 GROUNDED 0.83 % v/v PRE B															
5 HM1821A 3.82 L 45.0 oz/a PRE B															
							2.5 -	0.6 -	0.0 -	99.0 a	99.0 a	15.63 -	15.69 -	16.19 -	16.00 -
5 ATRAZINE 4 L 32.0 oz/a PRE B															
5 GROUNDED 0.83 % v/v PRE B															
6 ACURON 3.44 L 80.0 oz/a PRE B															
							4.4 -	1.3 -	0.0 -	99.0 a	99.0 a	15.75 -	15.44 -	15.69 -	15.31 -
6 GROUNDED 0.83 % v/v PRE B															
7 BICEP II MAGNUM 5.5 L 64.0 oz/a PRE B															
							3.1 -	0.0 -	0.0 -	99.0 a	99.0 a	15.56 -	16.19 -	16.31 -	15.69 -
7 GROUNDED 0.83 % v/v PRE B															
LSD P=.10															
Standard Deviation															
							2.99	1.23	.	.	.	0.776	0.817	0.926	1.027
CV															
							3.54	1.46	0.00	0.00	0.00	0.920	0.967	1.097	1.217
							146.95	272.62	0.00	0.00	0.00	5.764	6.030	6.768	7.639
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS															
1 NO COUNTER															
							0.0 -	0.0 b	0.0 -	0.0 b	0.0 b	16.38 -	17.25 a	17.13 -	15.88 -
1 NO HERBICIDE															
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A															
							0.0 -	0.0 b	0.0 -	0.0 b	0.0 b	16.25 -	16.00 b-e	15.38 -	16.13 -
1 NO COUNTER															
							1.3 -	0.0 b	0.0 -	99.0 a	99.0 a	16.00 -	16.25 a-d	16.00 -	16.00 -
2 SHIELDDEX 3.33 L 1.0 oz/a PRE B															
2 ATRAZINE 4 L 32.0 oz/a PRE B															
2 GROUNDED 0.83 % v/v PRE B															
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A															
							1.3 -	1.3 ab	0.0 -	99.0 a	99.0 a	16.25 -	16.88 ab	17.00 -	16.63 -
2 SHIELDDEX 3.33 L 1.0 oz/a PRE B															
2 ATRAZINE 4 L 32.0 oz/a PRE B															
2 GROUNDED 0.83 % v/v PRE B															

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

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN																
Trial ID:		CN-10-23		Study Dir.:		ZACH TAYLOR										
Location:		PONDER FARM		Investigator:		Eric P. Prostko										
Weed Code				-----		-----		-----		-----		-----				
Crop Code				Zeama		Zeama		Amapa		Spear		Zeama				
Rating Data Type				Stunting		Bleaching		Control		Control		Ht1				
Rating Unit				%		%		%		%		In				
Rating Date				Apr-26-23		Apr-26-23		Apr-26-23		Apr-26-23		May-5-23				
Trt-Eval Interval				26 DA-A		26 DA-A		26 DA-A		26 DA-A		35 DA-A				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	10	11	12	13	14	15	16	17	18	
1	NO COUNTER						2.5 -	0.0 b	0.0 -	99.0 a	99.0 a	16.38 -	16.63 abc	16.88 -	16.00 -	
3	HM1821A	3.82 L		24.0 oz/a	PRE	B										
3	ATRAZINE	4 L		32.0 oz/a	PRE	B										
3	GROUNDDED			0.83 % v/v	PRE	B										
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	1.3 -	2.5 a	0.0 -	99.0 a	99.0 a	16.50 -	15.75 b-e	16.00 -	15.88 -	
3	HM1821A	3.82 L		24.0 oz/a	PRE	B										
3	ATRAZINE	4 L		32.0 oz/a	PRE	B										
3	GROUNDDED			0.83 % v/v	PRE	B										
1	NO COUNTER						2.5 -	0.0 b	0.0 -	99.0 a	99.0 a	16.13 -	16.00 b-e	16.50 -	16.25 -	
4	HM1821A	3.82 L		32.0 oz/a	PRE	B										
4	ATRAZINE	4 L		32.0 oz/a	PRE	B										
4	GROUNDDED			0.83 % v/v	PRE	B										
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	5.0 -	0.0 b	0.0 -	99.0 a	99.0 a	15.63 -	15.25 de	15.75 -	16.25 -	
4	HM1821A	3.82 L		32.0 oz/a	PRE	B										
4	ATRAZINE	4 L		32.0 oz/a	PRE	B										
4	GROUNDDED			0.83 % v/v	PRE	B										
1	NO COUNTER						5.0 -	0.0 b	0.0 -	99.0 a	99.0 a	15.38 -	15.00 e	15.75 -	15.25 -	
5	HM1821A	3.82 L		45.0 oz/a	PRE	B										
5	ATRAZINE	4 L		32.0 oz/a	PRE	B										
5	GROUNDDED			0.83 % v/v	PRE	B										
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	0.0 -	1.3 ab	0.0 -	99.0 a	99.0 a	15.88 -	16.38 a-d	16.63 -	16.75 -	
5	HM1821A	3.82 L		45.0 oz/a	PRE	B										
5	ATRAZINE	4 L		32.0 oz/a	PRE	B										
5	GROUNDDED			0.83 % v/v	PRE	B										
1	NO COUNTER						5.0 -	2.5 a	0.0 -	99.0 a	99.0 a	16.13 -	15.63 cde	15.75 -	15.25 -	
6	ACURON	3.44 L		80.0 oz/a	PRE	B										
6	GROUNDDED			0.83 % v/v	PRE	B										
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	3.8 -	0.0 b	0.0 -	99.0 a	99.0 a	15.38 -	15.25 de	15.63 -	15.38 -	
6	ACURON	3.44 L		80.0 oz/a	PRE	B										
6	GROUNDDED			0.83 % v/v	PRE	B										
1	NO COUNTER						3.8 -	0.0 b	0.0 -	99.0 a	99.0 a	16.00 -	16.75 abc	16.38 -	16.38 -	
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B										
7	GROUNDDED			0.83 % v/v	PRE	B										
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	2.5 -	0.0 b	0.0 -	99.0 a	99.0 a	15.13 -	15.63 cde	16.25 -	15.00 -	
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B										
7	GROUNDDED			0.83 % v/v	PRE	B										
LSD P=.10							4.23	1.74	.	.	.	1.098	1.155	1.310	1.453	
Standard Deviation							3.54	1.46	0.00	0.00	0.00	0.00	0.920	0.967	1.097	1.217
CV							146.95	272.62	0.00	0.00	0.00	0.00	5.764	6.030	6.768	7.639

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

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN															
Trial ID: CN-10-23		Study Dir.: ZACH TAYLOR													
Location: PONDER FARM		Investigator: Eric P. Prostko													
Weed Code	-----	-----	-----	-----	Amapa	Agrass	Spear	Molve	Amapa						
Crop Code	Zeama	ZEAMA	Zeama	Zeama	-----	-----	-----	-----	-----						
Rating Data Type	Ht5	HGT-AVG	Stunting	Bleaching	Control	Control	Control	Control	Control						
Rating Unit	In	IN	%	%	%	%	%	%	%						
Rating Date	May-5-23	May-5-23	May-15-23	May-15-23	May-15-23	May-15-23	May-15-23	May-15-23	May-15-23	Aug-15-23					
Trt-Eval Interval	35 DA-A	35 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	137 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code									
							19	20	21	22					
							23	24	25	26					
							27								
TABLE OF R MEANS															
Replicate 1							15.75	15.7	2.5	0.0	84.9	22.8	84.9	84.9	83.7
Replicate 2							16.39	16.0	3.6	0.0	84.9	21.4	84.9	84.6	84.6
Replicate 3							16.18	16.0	2.9	0.0	84.9	35.1	84.9	84.9	84.9
Replicate 4							16.86	16.6	1.4	0.0	84.9	53.1	84.9	84.9	84.6
TABLE OF A (INSECTICIDE) MEANS															
1	NO COUNTER						16.14 -	16.1 -	2.7 -	0.0 -	84.9 -	34.6 -	84.9 -	84.9 -	84.6 -
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	16.45 -	16.1 -	2.5 -	0.0 -	84.9 -	31.6 -	84.9 -	84.7 -	84.3 -
LSD P=.10							0.904	0.86	1.73	.	.	15.69	.	0.34	0.39
Standard Deviation							1.437	1.37	2.75	0.00	0.00	24.94	0.00	0.53	0.62
CV							8.817	8.52	106.39	0.00	0.00	75.34	0.00	0.63	0.73
TABLE OF B (HERBICIDE) MEANS															
1	NO HERBICIDE						16.56 -	16.4 -	0.0 -	0.0 -	0.0 b	0.0 d	0.0 b	0.0 c	0.0 b
2	SHIELDDEX	3.33 L		1.0 oz/a	PRE	B	16.63 -	16.4 -	1.9 -	0.0 -	99.0 a	0.0 d	99.0 a	99.0 a	98.5 a
2	ATRAZINE	4 L		32.0 oz/a	PRE	B									
2	GROUNDED			0.83 % v/v	PRE	B									
3	HM1821A	3.82 L		24.0 oz/a	PRE	B	16.75 -	16.4 -	1.9 -	0.0 -	99.0 a	12.5 cd	99.0 a	99.0 a	99.0 a
3	ATRAZINE	4 L		32.0 oz/a	PRE	B									
3	GROUNDED			0.83 % v/v	PRE	B									
4	HM1821A	3.82 L		32.0 oz/a	PRE	B	16.25 -	16.0 -	3.8 -	0.0 -	99.0 a	31.1 bc	99.0 a	99.0 a	98.0 a
4	ATRAZINE	4 L		32.0 oz/a	PRE	B									
4	GROUNDED			0.83 % v/v	PRE	B									
5	HM1821A	3.82 L		45.0 oz/a	PRE	B	16.19 -	15.9 -	2.5 -	0.0 -	99.0 a	68.3 a	99.0 a	99.0 a	99.0 a
5	ATRAZINE	4 L		32.0 oz/a	PRE	B									
5	GROUNDED			0.83 % v/v	PRE	B									
6	ACURON	3.44 L		80.0 oz/a	PRE	B	15.81 -	15.6 -	3.1 -	0.0 -	99.0 a	62.0 a	99.0 a	99.0 a	98.5 a
6	GROUNDED			0.83 % v/v	PRE	B									
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B	15.88 -	15.9 -	5.0 -	0.0 -	99.0 a	57.9 ab	99.0 a	98.5 b	98.0 a
7	GROUNDED			0.83 % v/v	PRE	B									
LSD P=.10							0.903	0.65	2.86	.	.	27.48	.	0.45	1.09
Standard Deviation							1.070	0.77	3.39	0.00	0.00	32.56	0.00	0.53	1.30
CV							6.566	4.76	130.73	0.00	0.00	98.35	0.00	0.63	1.54
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS															
1	NO COUNTER						16.38 -	16.6 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	0.0 -	0.0 -
1	NO HERBICIDE														
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	16.75 -	16.1 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	0.0 -	0.0 -
1	NO HERBICIDE														
1	NO COUNTER						16.63 -	16.2 -	1.3 -	0.0 -	99.0 a	0.0 -	99.0 a	99.0 -	99.0 -
2	SHIELDDEX	3.33 L		1.0 oz/a	PRE	B									
2	ATRAZINE	4 L		32.0 oz/a	PRE	B									
2	GROUNDED			0.83 % v/v	PRE	B									
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	16.63 -	16.7 -	2.5 -	0.0 -	99.0 a	0.0 -	99.0 a	99.0 -	98.0 -
2	SHIELDDEX	3.33 L		1.0 oz/a	PRE	B									
2	ATRAZINE	4 L		32.0 oz/a	PRE	B									
2	GROUNDED			0.83 % v/v	PRE	B									

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

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN																
Trial ID:		CN-10-23		Study Dir.:		ZACH TAYLOR										
Location:		PONDER FARM		Investigator:		Eric P. Prostko										
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	----- Zeama Ht5 In May-5-23 35 DA-A	----- ZEAMA HGT-AVG IN May-5-23 35 DA-A	----- Zeama Stunting % May-15-23 45 DA-A	----- Zeama Bleaching % May-15-23 45 DA-A	----- Amapa Control % May-15-23 45 DA-A	----- Agrass Control % May-15-23 45 DA-A	----- Spear Control % May-15-23 45 DA-A	----- Molve Control % May-15-23 45 DA-A	----- Amapa Control % Aug-15-23 137 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	19	20	21	22	23	24	25	26	27
1	NO COUNTER							16.88 -	16.6 -	2.5 -	0.0 -	99.0 a	25.0 -	99.0 a	99.0 -	99.0 -
3	HM1821A	3.82 L		24.0 oz/a		PRE	B									
3	ATRAZINE	4 L		32.0 oz/a		PRE	B									
3	GROUNDLED			0.83 % v/v		PRE	B									
2	COUNTER	20 G		6.0 oz/1000 row-ft		INFR	A	16.63 -	16.2 -	1.3 -	0.0 -	99.0 a	0.0 -	99.0 a	99.0 -	99.0 -
3	HM1821A	3.82 L		24.0 oz/a		PRE	B									
3	ATRAZINE	4 L		32.0 oz/a		PRE	B									
3	GROUNDLED			0.83 % v/v		PRE	B									
1	NO COUNTER							15.63 -	16.1 -	3.8 -	0.0 -	99.0 a	37.5 -	99.0 a	99.0 -	98.0 -
4	HM1821A	3.82 L		32.0 oz/a		PRE	B									
4	ATRAZINE	4 L		32.0 oz/a		PRE	B									
4	GROUNDLED			0.83 % v/v		PRE	B									
2	COUNTER	20 G		6.0 oz/1000 row-ft		INFR	A	16.88 -	16.0 -	3.8 -	0.0 -	99.0 a	24.8 -	99.0 a	99.0 -	98.0 -
4	HM1821A	3.82 L		32.0 oz/a		PRE	B									
4	ATRAZINE	4 L		32.0 oz/a		PRE	B									
4	GROUNDLED			0.83 % v/v		PRE	B									
1	NO COUNTER							15.75 -	15.4 -	2.5 -	0.0 -	99.0 a	74.5 -	99.0 a	99.0 -	99.0 -
5	HM1821A	3.82 L		45.0 oz/a		PRE	B									
5	ATRAZINE	4 L		32.0 oz/a		PRE	B									
5	GROUNDLED			0.83 % v/v		PRE	B									
2	COUNTER	20 G		6.0 oz/1000 row-ft		INFR	A	16.63 -	16.5 -	2.5 -	0.0 -	99.0 a	62.0 -	99.0 a	99.0 -	99.0 -
5	HM1821A	3.82 L		45.0 oz/a		PRE	B									
5	ATRAZINE	4 L		32.0 oz/a		PRE	B									
5	GROUNDLED			0.83 % v/v		PRE	B									
1	NO COUNTER							15.88 -	15.7 -	3.8 -	0.0 -	99.0 a	62.0 -	99.0 a	99.0 -	99.0 -
6	ACURON	3.44 L		80.0 oz/a		PRE	B									
6	GROUNDLED			0.83 % v/v		PRE	B									
2	COUNTER	20 G		6.0 oz/1000 row-ft		INFR	A	15.75 -	15.5 -	2.5 -	0.0 -	99.0 a	62.0 -	99.0 a	99.0 -	98.0 -
6	ACURON	3.44 L		80.0 oz/a		PRE	B									
6	GROUNDLED			0.83 % v/v		PRE	B									
1	NO COUNTER							15.88 -	16.3 -	5.0 -	0.0 -	99.0 a	43.5 -	99.0 a	99.0 -	98.0 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a		PRE	B									
7	GROUNDLED			0.83 % v/v		PRE	B									
2	COUNTER	20 G		6.0 oz/1000 row-ft		INFR	A	15.88 -	15.6 -	5.0 -	0.0 -	99.0 a	72.3 -	99.0 a	98.0 -	98.0 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a		PRE	B									
7	GROUNDLED			0.83 % v/v		PRE	B									
LSD P=.10								1.277	0.91	4.04	.	.	38.87	.	0.64	1.55
Standard Deviation								1.070	0.77	3.39	0.00	0.00	32.56	0.00	0.53	1.30
CV								6.566	4.76	130.73	0.00	0.00	98.35	0.00	0.63	1.54

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

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN					
Trial ID: CN-10-23		Study Dir.: ZACH TAYLOR			
Location: PONDER FARM		Investigator: Eric P. Prostko			
Weed Code		Dedto	AGRASS	TOTAL	-----
Crop Code		-----	-----	WEED	ZEAMA
Rating Data Type		Control	Control	Cover	YIELD
Rating Unit		%	%	%	LBS/PLOT
Rating Date		Aug-15-23	Aug-15-23	Aug-15-23	Sep-6-23
Trt-Eval Interval		137 DA-A	137 DA-A	137 DA-A	159 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg
					Appl Code
28					29
29					30
30					31
31					32
32					
TABLE OF R MEANS					
Replicate 1		85.6	16.4	71.8	41.7
Replicate 2		69.5	15.0	82.1	44.7
Replicate 3		66.1	36.8	77.5	45.1
Replicate 4		63.9	52.9	63.6	46.9
TABLE OF A (INSECTICIDE) MEANS					
1	NO COUNTER	71.7 -	31.3 -	72.7 b	44.1 -
2	COUNTER 20 G 6.0 oz/1000 row-ft INFR A	70.9 -	29.3 -	74.8 a	45.2 -
LSD P=.10		5.54	9.69	2.06	2.79
Standard Deviation		8.81	15.41	3.27	4.43
CV		12.36	50.90	4.44	9.93
TABLE OF B (HERBICIDE) MEANS					
1	NO HERBICIDE	84.4 a	0.0 b	93.8 a	39.9 c
2	SHIELDDEX 3.33 L 1.0 oz/a PRE B	94.8 a	0.0 b	80.0 abc	44.0 b
2	ATRAZINE 4 L 32.0 oz/a PRE B				
2	ROUNDED 0.83 % v/v PRE B				
3	HM1821A 3.82 L 24.0 oz/a PRE B	89.3 a	8.1 b	83.8 ab	45.0 ab
3	ATRAZINE 4 L 32.0 oz/a PRE B				
3	ROUNDED 0.83 % v/v PRE B				
4	HM1821A 3.82 L 32.0 oz/a PRE B	87.1 a	19.4 b	64.4 c	44.4 b
4	ATRAZINE 4 L 32.0 oz/a PRE B				
4	ROUNDED 0.83 % v/v PRE B				
5	HM1821A 3.82 L 45.0 oz/a PRE B	84.9 a	64.4 a	35.6 d	46.4 ab
5	ATRAZINE 4 L 32.0 oz/a PRE B				
5	ROUNDED 0.83 % v/v PRE B				
6	ACURON 3.44 L 80.0 oz/a PRE B	23.8 b	63.1 a	91.9 a	45.5 ab
6	ROUNDED 0.83 % v/v PRE B				
7	BICEP II MAGNUM 5.5 L 64.0 oz/a PRE B	35.0 b	56.9 a	66.9 bc	47.3 a
7	ROUNDED 0.83 % v/v PRE B				
LSD P=.10		16.84	23.36	17.26	2.49
Standard Deviation		19.95	27.68	20.44	2.95
CV		27.97	91.43	27.72	6.61
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS					
1	NO COUNTER	83.8 -	0.0 -	91.3 -	38.3 -
1	NO HERBICIDE				
2	COUNTER 20 G 6.0 oz/1000 row-ft INFR A	85.0 -	0.0 -	96.3 -	41.5 -
1	NO HERBICIDE				
1	NO COUNTER	92.5 -	0.0 -	81.3 -	44.3 -
2	SHIELDDEX 3.33 L 1.0 oz/a PRE B				
2	ATRAZINE 4 L 32.0 oz/a PRE B				
2	ROUNDED 0.83 % v/v PRE B				
2	COUNTER 20 G 6.0 oz/1000 row-ft INFR A	97.0 -	0.0 -	78.8 -	43.8 -
2	SHIELDDEX 3.33 L 1.0 oz/a PRE B				
2	ATRAZINE 4 L 32.0 oz/a PRE B				
2	ROUNDED 0.83 % v/v PRE B				

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN											
Trial ID:		CN-10-23		Study Dir.:		ZACH TAYLOR					
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	Dedto Control % Aug-15-23 137 DA-A	AGRASS Control % Aug-15-23 137 DA-A	TOTAL WEED Cover % Aug-15-23 137 DA-A	ZEAMA YIELD LBS/PLOT Sep-6-23 159 DA-A	ZEAMA YIELD BU/A Sep-6-23 159 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code					
1	NO COUNTER						28	29	30	31	32
3	HM1821A	3.82 L		24.0 oz/a	PRE	B	86.3 -	16.3 -	83.8 -	43.3 -	226 -
3	ATRAZINE	4 L		32.0 oz/a	PRE	B					
3	GROUNDED			0.83 % v/v	PRE	B					
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	92.3 -	0.0 -	83.8 -	46.8 -	244 -
3	HM1821A	3.82 L		24.0 oz/a	PRE	B					
3	ATRAZINE	4 L		32.0 oz/a	PRE	B					
3	GROUNDED			0.83 % v/v	PRE	B					
1	NO COUNTER						88.3 -	15.0 -	50.0 -	44.3 -	231 -
4	HM1821A	3.82 L		32.0 oz/a	PRE	B					
4	ATRAZINE	4 L		32.0 oz/a	PRE	B					
4	GROUNDED			0.83 % v/v	PRE	B					
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	86.0 -	23.8 -	78.8 -	44.5 -	232 -
4	HM1821A	3.82 L		32.0 oz/a	PRE	B					
4	ATRAZINE	4 L		32.0 oz/a	PRE	B					
4	GROUNDED			0.83 % v/v	PRE	B					
1	NO COUNTER						85.0 -	75.0 -	36.3 -	45.3 -	236 -
5	HM1821A	3.82 L		45.0 oz/a	PRE	B					
5	ATRAZINE	4 L		32.0 oz/a	PRE	B					
5	GROUNDED			0.83 % v/v	PRE	B					
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	84.8 -	53.8 -	35.0 -	47.5 -	248 -
5	HM1821A	3.82 L		45.0 oz/a	PRE	B					
5	ATRAZINE	4 L		32.0 oz/a	PRE	B					
5	GROUNDED			0.83 % v/v	PRE	B					
1	NO COUNTER						18.8 -	60.0 -	98.8 -	45.8 -	239 -
6	ACURON	3.44 L		80.0 oz/a	PRE	B					
6	GROUNDED			0.83 % v/v	PRE	B					
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	28.8 -	66.3 -	85.0 -	45.3 -	236 -
6	ACURON	3.44 L		80.0 oz/a	PRE	B					
6	GROUNDED			0.83 % v/v	PRE	B					
1	NO COUNTER						47.5 -	52.5 -	67.5 -	47.5 -	248 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B					
7	GROUNDED			0.83 % v/v	PRE	B					
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR	A	22.5 -	61.3 -	66.3 -	47.0 -	245 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B					
7	GROUNDED			0.83 % v/v	PRE	B					
LSD P=.10							23.81	33.04	24.40	3.52	18.4
Standard Deviation							19.95	27.68	20.44	2.95	15.4
CV							27.97	91.43	27.72	6.61	6.6

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN						
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
COMPLETE SPLIT-PLOT AOV For ----- Zeama Stand #/5 FT Apr-7-23 7 DA-A (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	42.839286				
R	3	1.053571	0.351190	0.392	0.7591	
A	1	0.160714	0.160714	0.194	0.6892	0.6
ERROR A	3	2.482143	0.827381			
B	6	2.714286	0.452381	0.506	0.8000	0.8
AB	6	4.214286	0.702381	0.785	0.5874	1.1
ERROR B	36	32.214286	0.894841			
COMPLETE SPLIT-PLOT AOV For ----- Zeama Stunting % Apr-7-23 7 DA-A (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	1403.125000				
R	3	122.767857	40.922619	4.005	0.0147	
A	1	750.446429	750.446429	34.306	0.0099	2.9
ERROR A	3	65.625000	21.875000			
B	6	25.000000	4.166667	0.408	0.8690	2.7
AB	6	71.428571	11.904762	1.165	0.3464	3.8
ERROR B	36	367.857143	10.218254			
COMPLETE SPLIT-PLOT AOV For ----- Zeama Stunting % Apr-13-23 13 DA-A (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	371.428571				
R	3	85.714286	28.571429	4.800	0.0065	
A	1	0.000000	0.000000	0.000	1.0000	.
ERROR A	3	0.000000	0.000000			
B	6	71.428571	11.904762	2.000	0.0913	2.1
AB	6	0.000000	0.000000	0.000	1.0000	2.9
ERROR B	36	214.285714	5.952381			
COMPLETE SPLIT-PLOT AOV For ----- Zeama Stunting % Apr-18-23 18 DA-A (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	192.857143				
R	3	21.428571	7.142857	2.000	0.1314	
A	1	0.000000	0.000000	0.000	1.0000	.
ERROR A	3	0.000000	0.000000			
B	6	17.857143	2.976190	0.833	0.5522	1.6
AB	6	25.000000	4.166667	1.167	0.3455	2.3
ERROR B	36	128.571429	3.571429			
COMPLETE SPLIT-PLOT AOV For ----- Zeama Stand #/5 ft Apr-18-23 18 DA-A (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	36.839286				
R	3	0.625000	0.208333	0.264	0.8505	
A	1	0.160714	0.160714	0.273	0.6376	0.5
ERROR A	3	1.767857	0.589286			
B	6	0.964286	0.160714	0.204	0.9733	0.7
AB	6	4.964286	0.827381	1.050	0.4099	1.1
ERROR B	36	28.357143	0.787698			
COMPLETE SPLIT-PLOT AOV For ----- Zeama Chlorosis % Apr-18-23 18 DA-A (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	24.553571				
R	3	1.339286	0.446429	1.000	0.4040	
A	1	0.446429	0.446429	1.000	0.3910	0.4
ERROR A	3	1.339286	0.446429			
B	6	2.678571	0.446429	1.000	0.4404	0.6
AB	6	2.678571	0.446429	1.000	0.4404	0.8
ERROR B	36	16.071429	0.446429			
COMPLETE SPLIT-PLOT AOV For Amapa ----- Control % Apr-18-23 18 DA-A (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67206.857143				
R	3	0.000000	0.000000	0.000	1.0000	.
A	1	0.000000	0.000000	0.000	1.0000	.
ERROR A	3	0.000000	0.000000			
B	6	67206.857143	11201.142857	0.000	1.0000	.
AB	6	0.000000	0.000000	0.000	1.0000	.
ERROR B	36	0.000000	0.000000			

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

COMPLETE SPLIT-PLOT AOV For Lamam ----- Control % Apr-18-23 18 DA-A (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67206.857143				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	67206.857143	11201.142857	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

COMPLETE SPLIT-PLOT AOV For Agrass ----- Control % Apr-18-23 18 DA-A (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	64693.357143				
R	3	748.071429	249.357143	4.204	0.0120	
A	1	16.071429	16.071429	0.826	0.4304	2.8
ERROR A	3	58.357143	19.452381			
B	6	61620.107143	10270.017857	173.165	0.0001	6.5
AB	6	115.678571	19.279762	0.325	0.9195	9.2
ERROR B	36	2135.071429	59.307540			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Stunting % Apr-26-23 26 DA-A (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	749.553571				
R	3	90.625000	30.208333	2.407	0.0832	
A	1	11.160714	11.160714	1.271	0.3416	1.9
ERROR A	3	26.339286	8.779762			
B	6	108.928571	18.154762	1.447	0.2243	3.0
AB	6	60.714286	10.119048	0.806	0.5717	4.2
ERROR B	36	451.785714	12.549603			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Bleaching % Apr-26-23 26 DA-A (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	133.928571				
R	3	1.785714	0.595238	0.279	0.8401	
A	1	1.785714	1.785714	0.600	0.4950	1.1
ERROR A	3	8.928571	2.976190			
B	6	15.178571	2.529762	1.186	0.3356	1.2
AB	6	29.464286	4.910714	2.302	0.0553	1.7
ERROR B	36	76.785714	2.132937			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Necrosis % Apr-26-23 26 DA-A (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	0.000000	0.000000	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

COMPLETE SPLIT-PLOT AOV For Amapa ----- Control % Apr-26-23 26 DA-A (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67206.857143				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	67206.857143	11201.142857	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

COMPLETE SPLIT-PLOT AOV For Spear ----- Control % Apr-26-23 26 DA-A (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67206.857143				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	67206.857143	11201.142857	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

COMPLETE SPLIT-PLOT AOV For ----- Zeama Ht1 In May-5-23 35 DA-A (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	58.638393				
R	3	9.156250	3.052083	3.609	0.0224	
A	1	0.540179	0.540179	0.169	0.7085	1.12
ERROR A	3	9.584821	3.194940			
B	6	5.607143	0.934524	1.105	0.3786	0.78
AB	6	3.303571	0.550595	0.651	0.6890	1.10
ERROR B	36	30.446429	0.845734			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Ht2 In May-5-23 35 DA-A (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	68.638393				
R	3	4.549107	1.516369	1.620	0.2018	
A	1	1.611607	1.611607	0.722	0.4578	0.94
ERROR A	3	6.691964	2.230655			
B	6	10.544643	1.757440	1.878	0.1117	0.82
AB	6	11.544643	1.924107	2.056	0.0832	1.15
ERROR B	36	33.696429	0.936012			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Ht3 In May-5-23 35 DA-A (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	76.928571				
R	3	7.107143	2.369048	1.967	0.1363	
A	1	0.875000	0.875000	0.246	0.6538	1.19
ERROR A	3	10.660714	3.553571			
B	6	3.428571	0.571429	0.474	0.8227	0.93
AB	6	11.500000	1.916667	1.591	0.1780	1.31
ERROR B	36	43.357143	1.204365			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Ht4 In May-5-23 35 DA-A (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	80.214286				
R	3	3.464286	1.154762	0.780	0.5129	
A	1	0.285714	0.285714	0.100	0.7730	1.07
ERROR A	3	8.607143	2.869048			
B	6	5.589286	0.931548	0.629	0.7059	1.03
AB	6	8.964286	1.494048	1.009	0.4348	1.45
ERROR B	36	53.303571	1.480655			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Ht5 In May-5-23 35 DA-A (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67.888393				
R	3	8.906250	2.968750	2.593	0.0676	
A	1	1.290179	1.290179	0.625	0.4869	0.90
ERROR A	3	6.191964	2.063988			
B	6	6.482143	1.080357	0.944	0.4764	0.90
AB	6	3.803571	0.633929	0.554	0.7638	1.28
ERROR B	36	41.214286	1.144841			

COMPLETE SPLIT-PLOT AOV For ----- ZEAMA HGT-AVG IN May-5-23 35 DA-A (Data Column 20)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	41.401250				
R	3	5.770536	1.923512	3.283	0.0317	
A	1	0.064464	0.064464	0.034	0.8648	0.9
ERROR A	3	5.631964	1.877321			
B	6	4.337500	0.722917	1.234	0.3122	0.6
AB	6	4.506786	0.751131	1.282	0.2900	0.9
ERROR B	36	21.090000	0.585833			

COMPLETE SPLIT-PLOT AOV For ----- Zeama Stunting % May-15-23 45 DA-A (Data Column 21)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	599.553571				
R	3	33.482143	11.160714	0.974	0.4157	
A	1	0.446429	0.446429	0.059	0.8240	1.7
ERROR A	3	22.767857	7.589286			
B	6	121.428571	20.238095	1.766	0.1340	2.9
AB	6	8.928571	1.488095	0.130	0.9917	4.0
ERROR B	36	412.500000	11.458333			

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

COMPLETE SPLIT-PLOT AOV For ----- Zeama Bleaching % May-15-23 45 DA-A (Data Column 22)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	0.000000	0.000000	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

COMPLETE SPLIT-PLOT AOV For Amapa ----- Control % May-15-23 45 DA-A (Data Column 23)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67206.857143				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	67206.857143	11201.142857	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

COMPLETE SPLIT-PLOT AOV For Agrass ----- Control % May-15-23 45 DA-A (Data Column 24)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	95105.357143				
R	3	9102.357143	3034.119048	2.862	0.0502	
A	1	132.071429	132.071429	0.212	0.6763	15.7
ERROR A	3	1866.357143	622.119048			
B	6	42432.107143	7072.017857	6.671	0.0001	27.5
AB	6	3408.678571	568.113095	0.536	0.7773	38.9
ERROR B	36	38163.785714	1060.105159			

COMPLETE SPLIT-PLOT AOV For Spear ----- Control % May-15-23 45 DA-A (Data Column 25)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67206.857143				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
ERROR A	3	0.000000	0.000000			
B	6	67206.857143	11201.142857	0.000	1.0000	
AB	6	0.000000	0.000000	0.000	1.0000	
ERROR B	36	0.000000	0.000000			

COMPLETE SPLIT-PLOT AOV For Molve ----- Control % May-15-23 45 DA-A (Data Column 26)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	67109.428571				
R	3	0.857143	0.285714	1.000	0.4040	
A	1	0.285714	0.285714	1.000	0.3910	0.3
ERROR A	3	0.857143	0.285714			
B	6	67095.428571	11182.571429	39139.000	0.0001	0.5
AB	6	1.714286	0.285714	1.000	0.4404	0.6
ERROR B	36	10.285714	0.285714			

COMPLETE SPLIT-PLOT AOV For Amapa ----- Control % Aug-15-23 137 DA-A (Data Column 27)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	66613.714286				
R	3	10.285714	3.428571	2.038	0.1259	
A	1	1.142857	1.142857	3.000	0.1817	0.4
ERROR A	3	1.142857	0.380952			
B	6	66537.714286	11089.619048	6591.000	0.0001	1.1
AB	6	2.857143	0.476190	0.283	0.9412	1.5
ERROR B	36	60.571429	1.682540			

COMPLETE SPLIT-PLOT AOV For Dedto ----- Control % Aug-15-23 137 DA-A (Data Column 28)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	60641.839286				
R	3	4058.482143	1352.827381	3.400	0.0280	
A	1	9.446429	9.446429	0.122	0.7503	5.5
ERROR A	3	233.053571	77.684524			
B	6	40451.714286	6741.952381	16.946	0.0001	16.8
AB	6	1566.428571	261.071429	0.656	0.6850	23.8
ERROR B	36	14322.714286	397.853175			

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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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

COMPLETE SPLIT-PLOT AOV For AGRASS ----- Control % Aug-15-23 137 DA-A (Data Column 29)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	86920.982143				
R	3	13683.482143	4561.160714	5.955	0.0021	
A	1	54.017857	54.017857	0.228	0.6659	9.7
ERROR A	3	712.053571	237.351190			
B	6	43136.607143	7189.434524	9.387	0.0001	23.4
AB	6	1761.607143	293.601190	0.383	0.8848	33.0
ERROR B	36	27573.214286	765.922619			

COMPLETE SPLIT-PLOT AOV For TOTAL WEED Cover % Aug-15-23 137 DA-A (Data Column 30)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	39512.500000				
R	3	2687.500000	895.833333	2.144	0.1117	
A	1	64.285714	64.285714	6.000	0.0917	2.1
ERROR A	3	32.142857	10.714286			
B	6	19650.000000	3275.000000	7.838	0.0001	17.3
AB	6	2035.714286	339.285714	0.812	0.5676	24.4
ERROR B	36	15042.857143	417.857143			

COMPLETE SPLIT-PLOT AOV For ----- ZEAMA YIELD LBS/PLOT Sep-6-23 159 DA-A (Data Column 31)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	897.125000				
R	3	196.767857	65.589286	7.542	0.0005	
A	1	17.160714	17.160714	0.874	0.4188	2.8
ERROR A	3	58.910714	19.636905			
B	6	271.000000	45.166667	5.194	0.0006	2.5
AB	6	40.214286	6.702381	0.771	0.5980	3.5
ERROR B	36	313.071429	8.696429			

COMPLETE SPLIT-PLOT AOV For ----- ZEAMA YIELD BU/A Sep-6-23 159 DA-A (Data Column 32)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	55	24454.603564				
R	3	5363.667204	1787.889068	7.542	0.0005	
A	1	467.781485	467.781485	0.874	0.4188	15
ERROR A	3	1605.838834	535.279611			
B	6	7387.150693	1231.191782	5.194	0.0006	13
AB	6	1096.195530	182.699255	0.771	0.5980	18
ERROR B	36	8533.969818	237.054717			

<u>Rating Unit</u>						
% = PERCENT						
In = INCH						
<u>ARM Action Codes</u>						
T1 = ([C15]+[C16]+[C17]+[C18]+[C19])/5						
TY2 = 5.22100169*[31]						

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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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko																
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval											
						----- Zeama Stand #/5 FT Apr-7-23 7 DA-A	----- Zeama Stunting % Apr-7-23 7 DA-A	----- Zeama Stunting % Apr-13-23 13 DA-A	----- Zeama Stunting % Apr-18-23 18 DA-A	----- Zeama Stand #/5 ft Apr-18-23 18 DA-A	----- Zeama Chlorosis % Apr-18-23 18 DA-A	----- Amapa Control % Apr-18-23 18 DA-A	----- Lamam Control % Apr-18-23 18 DA-A	----- Agrass Control % Apr-18-23 18 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6	7	8	9
1	NO COUNTER NO HERBICIDE						101 207 304 406 Mean =	11.0 10.0 11.0 11.0 10.8	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 10.0 10.0 12.0 10.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
2	NO COUNTER SHIELDX ATRAZINE GROUNDED	3.33 L 4 L		1.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	102 206 305 407 Mean =	11.0 12.0 11.0 11.0 11.3	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	10.0 12.0 11.0 11.0 11.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	85.0 65.0 85.0 85.0 80.0
3	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		24.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	103 204 306 405 Mean =	12.0 11.0 12.0 10.0 11.3	0.0 5.0 0.0 0.0 1.3	0.0 10.0 0.0 0.0 2.5	0.0 0.0 0.0 0.0 0.0	10.0 11.0 12.0 9.0 10.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	85.0 99.0 99.0 99.0 95.5
4	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		32.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	104 205 307 401 Mean =	10.0 12.0 12.0 12.0 11.5	0.0 5.0 0.0 0.0 1.3	0.0 10.0 0.0 0.0 2.5	10.0 0.0 0.0 0.0 2.5	10.0 11.0 11.0 11.0 10.8	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	85.0 99.0 99.0 99.0 95.5
5	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		45.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	105 203 301 402 Mean =	11.0 11.0 10.0 11.0 10.8	0.0 0.0 5.0 5.0 2.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	12.0 11.0 11.0 10.0 11.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	99.0 85.0 99.0 99.0 95.5
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE PRE	B B	106 202 302 403 Mean =	10.0 13.0 9.0 12.0 11.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	10.0 11.0 11.0 12.0 11.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE PRE	B B	107 201 303 404 Mean =	10.0 12.0 12.0 11.0 11.3	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	11.0 11.0 12.0 12.0 11.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	99.0 85.0 99.0 99.0 95.5
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR	A	108 214 311 410 Mean =	11.0 11.0 11.0 12.0 11.3	10.0 5.0 10.0 15.0 10.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	12.0 11.0 12.0 10.0 11.3	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
9	COUNTER SHIELDX ATRAZINE GROUNDED	20 G 3.33 L 4 L		6.0 oz/1000 row-ft 1.0 oz/a 32.0 oz/a 0.83 % v/v	INFR	A	109 213 312 414 Mean =	10.0 12.0 11.0 11.0 11.0	10.0 10.0 0.0 10.0 7.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	10.0 11.0 11.0 11.0 10.8	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	65.0 50.0 85.0 99.0 74.8
10	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 24.0 oz/a 32.0 oz/a 0.83 % v/v	INFR	A	110 212 314 408 Mean =	11.0 11.0 11.0 9.0 10.5	0.0 10.0 10.0 10.0 7.5	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	11.0 11.0 12.0 11.0 11.3	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	95.0 75.0 99.0 99.0 92.0
11	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 32.0 oz/a 32.0 oz/a 0.83 % v/v	INFR	A	111 211 313 409 Mean =	11.0 12.0 12.0 11.0 11.5	10.0 15.0 5.0 10.0 10.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 9.0 0.0 0.0	12.0 11.0 9.0 12.0 11.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	99.0 85.0 85.0 99.0 92.0

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko																
Weed Code																
Crop Code																
Rating Data Type																
Rating Unit																
Rating Date																
Trt-Eval Interval																
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6	7	8	9
12	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	112		11.0	0.0	0.0	0.0	11.0	0.0	99.0	99.0	90.0
	HM1821A	3.82 L		45.0 oz/a	PRE B	210		10.0	10.0	0.0	0.0	10.0	0.0	99.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	PRE B	309		12.0	5.0	0.0	0.0	10.0	0.0	99.0	99.0	99.0
	GROUNDED			0.83 % v/v	PRE B	413		12.0	5.0	0.0	0.0	12.0	0.0	99.0	99.0	99.0
				Mean =				11.3	5.0	0.0	0.0	10.8	0.0	99.0	99.0	96.8
13	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	113		12.0	0.0	0.0	10.0	12.0	5.0	99.0	99.0	99.0
	ACURON	3.44 L		80.0 oz/a	PRE B	209		10.0	10.0	0.0	0.0	11.0	0.0	99.0	99.0	99.0
	GROUNDED			0.83 % v/v	PRE B	308		11.0	10.0	0.0	0.0	12.0	0.0	99.0	99.0	99.0
						411		12.0	10.0	0.0	0.0	11.0	0.0	99.0	99.0	99.0
				Mean =				11.3	7.5	0.0	2.5	11.5	1.3	99.0	99.0	99.0
14	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	114		11.0	0.0	0.0	0.0	10.0	0.0	99.0	99.0	99.0
	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B	208		10.0	10.0	0.0	0.0	11.0	0.0	99.0	99.0	99.0
	GROUNDED			0.83 % v/v	PRE B	310		11.0	10.0	0.0	0.0	11.0	0.0	99.0	99.0	99.0
						412		9.0	15.0	0.0	0.0	10.0	0.0	99.0	99.0	99.0
				Mean =				10.3	8.8	0.0	0.0	10.5	0.0	99.0	99.0	99.0

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

				-----	-----	-----	Amapa	Spear	-----	-----	-----				
				Zeama	Zeama	Zeama	Control	Control	Zeama	Zeama	Zeama				
				Stunting	Bleaching	Necrosis	%	%	Ht1	Ht2	Ht3				
				%	%	%	%	%	In	In	In				
				Apr-26-23	Apr-26-23	Apr-26-23	Apr-26-23	Apr-26-23	May-5-23	May-5-23	May-5-23				
				26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A	35 DA-A	35 DA-A	35 DA-A				
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Stg	Code	Plot	10	11	12	13	14	15	16	17
1	NO COUNTER NO HERBICIDE						101	0.0	0.0	0.0	0.0	0.0	15.50	17.00	16.00
							207	0.0	0.0	0.0	0.0	0.0	17.00	17.50	17.50
							304	0.0	0.0	0.0	0.0	0.0	16.00	16.50	17.00
							406	0.0	0.0	0.0	0.0	0.0	17.00	18.00	18.00
							Mean =	0.0	0.0	0.0	0.0	0.0	16.38	17.25	17.13
2	NO COUNTER SHIELDDEX ATRAZINE GROUNDED	3.33 L 4 L		1.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B B B	102 206 305 407	0.0 0.0 0.0 5.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	15.00 16.00 17.00 16.00	15.50 18.00 15.50 16.00	15.50 17.00 16.50 15.00
							Mean =	1.3	0.0	0.0	99.0	99.0	16.00	16.25	16.00
3	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		24.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B B B	103 204 306 405	0.0 0.0 5.0 5.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	16.00 16.00 16.50 17.00	15.50 16.00 17.00 18.00	17.50 16.00 17.00 17.00
							Mean =	2.5	0.0	0.0	99.0	99.0	16.38	16.63	16.88
4	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		32.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B B B	104 205 307 401	0.0 0.0 10.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	16.00 16.50 16.00 16.00	17.00 15.50 15.50 16.00	19.00 17.00 14.50 15.50
							Mean =	2.5	0.0	0.0	99.0	99.0	16.13	16.00	16.50
5	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		45.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B B B	105 203 301 402	10.0 0.0 5.0 5.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	12.00 17.00 15.00 17.50	14.50 16.50 14.00 15.00	16.00 16.00 15.00 16.00
							Mean =	5.0	0.0	0.0	99.0	99.0	15.38	15.00	15.75
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE B PRE B	B B	106 202 302 403	10.0 0.0 5.0 5.0	0.0 0.0 5.0 5.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	15.00 17.00 16.00 16.50	15.00 16.00 15.50 16.00	15.00 17.00 16.00 15.00
							Mean =	5.0	2.5	0.0	99.0	99.0	16.13	15.63	15.75
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE B PRE B	B B	107 201 303 404	15.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	15.00 16.00 16.00 17.00	16.00 17.00 16.00 18.00	14.50 17.50 15.50 18.00
							Mean =	3.8	0.0	0.0	99.0	99.0	16.00	16.75	16.38
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A		108 214 311 410	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	17.00 14.00 16.00 18.00	15.00 15.00 16.00 18.00	16.00 14.50 14.00 17.00
							Mean =	0.0	0.0	0.0	0.0	0.0	16.25	16.00	15.38
9	COUNTER SHIELDDEX ATRAZINE GROUNDED	20 G 3.33 L 4 L		6.0 oz/1000 row-ft 1.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A PRE B PRE B PRE B		109 213 312 414	0.0 0.0 0.0 5.0	5.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	16.00 16.00 17.00 16.00	16.00 16.00 18.50 17.00	16.50 16.50 18.00 17.00
							Mean =	1.3	1.3	0.0	99.0	99.0	16.25	16.88	17.00
10	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 24.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A PRE B PRE B PRE B		110 212 314 408	0.0 0.0 5.0 0.0	0.0 5.0 5.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	16.50 16.00 15.50 18.00	17.00 16.00 14.00 16.00	16.50 16.50 14.00 17.00
							Mean =	1.3	2.5	0.0	99.0	99.0	16.50	15.75	16.00
11	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 32.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A PRE B PRE B PRE B		111 211 313 409	5.0 5.0 5.0 5.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	15.50 16.00 15.00 16.00	15.00 15.00 16.00 15.00	15.00 15.00 16.00 17.00
							Mean =	5.0	0.0	0.0	99.0	99.0	15.63	15.25	15.75

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	-----	-----	Amapa	Spear	-----	-----	-----
Crop Code						Zeama	Zeama	Zeama	-----	-----	Zeama	Zeama	Zeama
Rating Data Type						Stunting	Bleaching	Necrosis	Control	Control	Ht1	Ht2	Ht3
Rating Unit						%	%	%	%	%	In	In	In
Rating Date						Apr-26-23	Apr-26-23	Apr-26-23	Apr-26-23	Apr-26-23	May-5-23	May-5-23	May-5-23
Trt-Eval Interval						26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A	35 DA-A	35 DA-A	35 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Appl Stg Code Plot	10	11	12	13	14	15	16	17
12	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A 112	0.0	0.0	0.0	99.0	99.0	16.50	17.50	17.00
	HM1821A	3.82 L		45.0 oz/a	PRE B 210	0.0	5.0	0.0	99.0	99.0	15.00	14.50	15.50
	ATRAZINE	4 L		32.0 oz/a	PRE B 309	0.0	0.0	0.0	99.0	99.0	17.00	17.50	17.00
	GROUNDED			0.83 % v/v	PRE B 413	0.0	0.0	0.0	99.0	99.0	15.00	16.00	17.00
					Mean =	0.0	1.3	0.0	99.0	99.0	15.88	16.38	16.63
13	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A 113	10.0	0.0	0.0	99.0	99.0	15.00	15.00	14.50
	ACURON	3.44 L		80.0 oz/a	PRE B 209	5.0	0.0	0.0	99.0	99.0	15.00	15.00	14.50
	GROUNDED			0.83 % v/v	PRE B 308	0.0	0.0	0.0	99.0	99.0	16.50	16.00	15.50
					411	0.0	0.0	0.0	99.0	99.0	15.00	15.00	18.00
					Mean =	3.8	0.0	0.0	99.0	99.0	15.38	15.25	15.63
14	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A 114	10.0	0.0	0.0	99.0	99.0	14.50	14.00	15.00
	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B 208	0.0	0.0	0.0	99.0	99.0	14.00	15.50	15.00
	GROUNDED			0.83 % v/v	PRE B 310	0.0	0.0	0.0	99.0	99.0	16.00	16.00	17.00
					412	0.0	0.0	0.0	99.0	99.0	16.00	17.00	18.00
					Mean =	2.5	0.0	0.0	99.0	99.0	15.13	15.63	16.25

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN			
Trial ID:	CN-10-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code				-----	-----	-----	-----	-----	-----	-----	-----	-----			
Crop Code				Zeama	Zeama	ZEAMA	Zeama	Zeama	Amapa	Agrass	Spear				
Rating Data Type				Ht4	Ht5	HGT-AVG	Stunting	Bleaching	Control	Control	Control				
Rating Unit				In	In	IN	%	%	%	%	%				
Rating Date				May-5-23	May-5-23	May-5-23	May-15-23	May-15-23	May-15-23	May-15-23	May-15-23				
Trt-Eval Interval				35 DA-A	35 DA-A	35 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A				
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Stg	Code	Plot	18	19	20	21	22	23	24	25
1	NO COUNTER NO HERBICIDE						101 207 304 406 Mean =	15.00 18.00 13.50 17.00 15.88	17.00 17.00 15.50 16.00 16.38	16.1 17.4 15.7 17.2 16.6	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	
2	NO COUNTER SHIELDDEX ATRAZINE GROUNDED	3.33 L 4 L		1.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B	102 206 305 407 Mean =	16.00 17.00 16.00 15.00 16.00	17.00 16.00 17.50 16.00 16.63	15.8 16.8 16.5 15.6 16.2	0.0 0.0 0.0 5.0 1.3	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0
3	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		24.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B	103 204 306 405 Mean =	17.00 14.00 17.00 16.00 16.00	16.00 17.00 18.50 16.00 16.88	16.4 15.8 17.2 16.8 16.6	0.0 5.0 5.0 0.0 2.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	0.0 50.0 0.0 50.0 25.0	99.0 99.0 99.0 99.0 99.0
4	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		32.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B	104 205 307 401 Mean =	18.00 16.00 15.00 16.00 16.25	16.50 16.00 13.00 17.00 15.63	17.3 16.2 14.8 16.1 16.1	0.0 0.0 10.0 5.0 3.8	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	50.0 0.0 50.0 50.0 37.5	99.0 99.0 99.0 99.0 99.0
5	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		45.0 oz/a 32.0 oz/a 0.83 % v/v	PRE B PRE B PRE B	B	105 203 301 402 Mean =	15.00 17.00 13.00 16.00 15.25	15.00 17.00 14.00 17.00 15.75	14.5 16.7 14.2 16.3 15.4	0.0 5.0 5.0 0.0 2.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 50.0 50.0 99.0 74.5	99.0 99.0 99.0 99.0 99.0
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE B PRE B	B	106 202 302 403 Mean =	15.00 15.50 15.50 15.00 15.25	16.00 16.00 16.00 15.50 15.88	15.2 16.3 15.8 15.6 15.7	5.0 5.0 0.0 5.0 3.8	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	0.0 50.0 99.0 99.0 62.0	99.0 99.0 99.0 99.0 99.0
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE B PRE B	B	107 201 303 404 Mean =	15.00 16.50 16.00 18.00 16.38	14.00 17.00 15.00 17.50 15.88	14.9 16.8 15.7 17.7 16.3	10.0 5.0 5.0 0.0 5.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	75.0 0.0 0.0 99.0 43.5	99.0 99.0 99.0 99.0 99.0
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A		108 214 311 410 Mean =	16.00 16.00 16.50 16.00 16.13	16.00 17.00 17.00 17.00 16.75	16.0 15.3 15.9 17.2 16.1	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	
9	COUNTER SHIELDDEX ATRAZINE GROUNDED	20 G 3.33 L 4 L		6.0 oz/1000 row-ft 1.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A PRE B PRE B PRE B		109 213 312 414 Mean =	18.00 15.50 18.00 15.00 16.63	16.00 16.50 17.00 17.00 16.63	16.5 16.1 17.7 16.4 16.7	5.0 0.0 0.0 5.0 2.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0
10	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 24.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A PRE B PRE B PRE B		110 212 314 408 Mean =	16.00 16.00 14.50 17.00 15.88	16.50 17.00 16.00 17.00 16.63	16.5 16.3 14.8 17.0 16.2	0.0 0.0 5.0 0.0 1.3	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0
11	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 32.0 oz/a 32.0 oz/a 0.83 % v/v	INFR A PRE B PRE B PRE B		111 211 313 409 Mean =	15.50 16.00 16.50 17.00 16.25	15.00 16.50 17.00 19.00 16.88	15.2 15.7 16.1 16.8 16.0	5.0 10.0 0.0 0.0 3.8	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	0.0 0.0 0.0 99.0 24.8	99.0 99.0 99.0 99.0 99.0

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	-----	-----	-----	-----	Amapa	Agrass	Spear
Crop Code						Zeama	Zeama	ZEAMA	Zeama	Zeama	-----	-----	-----
Rating Data Type						Ht4	Ht5	HGT-AVG	Stunting	Bleaching	Control	Control	Control
Rating Unit						In	In	IN	%	%	%	%	%
Rating Date						May-5-23	May-5-23	May-5-23	May-15-23	May-15-23	May-15-23	May-15-23	May-15-23
Trt-Eval Interval						35 DA-A	35 DA-A	35 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A
Trt	Treatment	Form	Form	Rate	Grow Appl								
No.	Name	Conc	Type	Rate Unit	Stg Code Plot	18	19	20	21	22	23	24	25
12	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A 112	16.00	16.50	16.7	0.0	0.0	99.0	0.0	99.0
	HM1821A	3.82 L		45.0 oz/a	PRE B 210	16.50	16.00	15.5	5.0	0.0	99.0	50.0	99.0
	ATRAZINE	4 L		32.0 oz/a	PRE B 309	16.50	16.00	16.8	5.0	0.0	99.0	99.0	99.0
	GROUNDED			0.83 % v/v	PRE B 413	18.00	18.00	16.8	0.0	0.0	99.0	99.0	99.0
					Mean =	16.75	16.63	16.5	2.5	0.0	99.0	62.0	99.0
13	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A 113	14.00	15.00	14.7	0.0	0.0	99.0	0.0	99.0
	ACURON	3.44 L		80.0 oz/a	PRE B 209	14.00	15.00	14.7	5.0	0.0	99.0	99.0	99.0
	GROUNDED			0.83 % v/v	PRE B 308	16.50	16.00	16.1	5.0	0.0	99.0	99.0	99.0
					411	17.00	17.00	16.4	0.0	0.0	99.0	50.0	99.0
					Mean =	15.38	15.75	15.5	2.5	0.0	99.0	62.0	99.0
14	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A 114	14.50	14.00	14.4	10.0	0.0	99.0	95.0	99.0
	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B 208	13.50	15.50	14.7	10.0	0.0	99.0	0.0	99.0
	GROUNDED			0.83 % v/v	PRE B 310	16.00	18.00	16.6	0.0	0.0	99.0	95.0	99.0
					412	16.00	16.00	16.6	0.0	0.0	99.0	99.0	99.0
					Mean =	15.00	15.88	15.6	5.0	0.0	99.0	72.3	99.0

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
 IN FIELD CORN
 Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Molve	Amapa	Dedto	AGRASS	TOTAL	-----	-----				
Crop Code				-----	-----	-----	-----	WEED	ZEAMA	ZEAMA				
Rating Data Type				Control	Control	Control	Control	Cover	YIELD	YIELD				
Rating Unit				%	%	%	%	%	LBS/PLOT	BU/A				
Rating Date				May-15-23	Aug-15-23	Aug-15-23	Aug-15-23	Aug-15-23	Sep-6-23	Sep-6-23				
Trt-Eval Interval				45 DA-A	137 DA-A	137 DA-A	137 DA-A	137 DA-A	159 DA-A	159 DA-A				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	26	27	28	29	30	31	32
1	NO COUNTER NO HERBICIDE						101 207 304 406 Mean =	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	95.0 65.0 90.0 85.0 83.8	0.0 0.0 0.0 0.0 0.0	100.0 65.0 100.0 100.0 91.3	28.0 43.0 37.0 45.0 38.3	146 225 193 235 200
2	NO COUNTER SHIELDX ATRAZINE GROUNDED	3.33 L 4 L		1.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	102 206 305 407 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	85.0 95.0 95.0 95.0 92.5	0.0 0.0 0.0 0.0 0.0	80.0 95.0 65.0 85.0 81.3	43.0 42.0 43.0 49.0 44.3	225 219 225 256 231
3	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		24.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	103 204 306 405 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	85.0 90.0 95.0 75.0 86.3	0.0 0.0 0.0 65.0 16.3	100.0 85.0 100.0 50.0 83.8	40.0 47.0 43.0 43.0 43.3	209 245 225 225 226
4	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		32.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	104 205 307 401 Mean =	99.0 99.0 99.0 99.0 99.0	95.0 99.0 99.0 99.0 98.0	90.0 99.0 99.0 65.0 88.3	0.0 0.0 20.0 40.0 15.0	60.0 50.0 40.0 50.0 50.0	42.0 45.0 44.0 46.0 44.3	219 235 230 240 231
5	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		45.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B	105 203 301 402 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	95.0 95.0 90.0 60.0 85.0	90.0 30.0 85.0 95.0 75.0	15.0 65.0 30.0 35.0 36.3	42.0 49.0 44.0 46.0 45.3	219 256 230 240 236
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE PRE	B B	106 202 302 403 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	75.0 0.0 0.0 0.0 18.8	0.0 50.0 95.0 95.0 60.0	100.0 100.0 100.0 95.0 98.8	46.0 47.0 45.0 45.0 45.8	240 245 235 235 239
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE PRE	B B	107 201 303 404 Mean =	99.0 99.0 99.0 99.0 99.0	95.0 99.0 99.0 99.0 98.0	75.0 65.0 0.0 50.0 47.5	65.0 0.0 50.0 95.0 52.5	40.0 100.0 100.0 30.0 67.5	49.0 46.0 46.0 49.0 47.5	256 240 240 256 248
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR	A	108 214 311 410 Mean =	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	85.0 85.0 95.0 75.0 85.0	0.0 0.0 0.0 0.0 0.0	100.0 85.0 100.0 100.0 96.3	33.0 46.0 44.0 43.0 41.5	172 240 230 225 217
9	COUNTER SHIELDX ATRAZINE GROUNDED	20 G 3.33 L 4 L		6.0 oz/1000 row-ft 1.0 oz/a 32.0 oz/a 0.83 % v/v	INFR PRE PRE PRE	A B B B	109 213 312 414 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 95.0 98.0	95.0 99.0 99.0 95.0 97.0	0.0 0.0 0.0 0.0 0.0	75.0 100.0 50.0 90.0 78.8	44.0 39.0 45.0 47.0 43.8	230 204 235 245 228
10	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 24.0 oz/a 32.0 oz/a 0.83 % v/v	INFR PRE PRE PRE	A B B B	110 212 314 408 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0 99.0	90.0 95.0 99.0 85.0 92.3	0.0 0.0 0.0 0.0 0.0	95.0 70.0 85.0 85.0 83.8	43.0 44.0 50.0 50.0 46.8	225 230 261 261 244
11	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft 32.0 oz/a 32.0 oz/a 0.83 % v/v	INFR PRE PRE PRE	A B B B	111 211 313 409 Mean =	99.0 99.0 99.0 99.0 99.0	99.0 95.0 99.0 99.0 98.0	95.0 95.0 99.0 55.0 86.0	0.0 0.0 0.0 95.0 23.8	85.0 90.0 100.0 40.0 78.8	38.0 43.0 48.0 49.0 44.5	198 225 251 256 232

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko															
Weed Code	Molve	Amapa	Dedto	AGRASS	TOTAL WEED	ZEAMA YIELD	ZEAMA YIELD								
Crop Code	-----	-----	-----	-----	-----	-----	-----								
Rating Data Type	Control	Control	Control	Control	Cover	LBS/PLOT	BU/A								
Rating Unit	%	%	%	%	%										
Rating Date	May-15-23	Aug-15-23	Aug-15-23	Aug-15-23	Aug-15-23	Sep-6-23	Sep-6-23								
Trt-Eval Interval	45 DA-A	137 DA-A	137 DA-A	137 DA-A	137 DA-A	159 DA-A	159 DA-A								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	26	27	28	29	30	31	32
12	COUNTER	20 G		6.0 oz/1000	row-ft	INFR A	112		99.0	99.0	99.0	0.0	50.0	47.0	245
	HM1821A	3.82 L		45.0 oz/a		PRE B	210		99.0	99.0	90.0	35.0	50.0	45.0	235
	ATRAZINE	4 L		32.0 oz/a		PRE B	309		99.0	99.0	65.0	95.0	25.0	49.0	256
	GROUNDED			0.83 % v/v		PRE B	413		99.0	99.0	85.0	85.0	15.0	49.0	256
				Mean =					99.0	99.0	84.8	53.8	35.0	47.5	248
13	COUNTER	20 G		6.0 oz/1000	row-ft	INFR A	113		99.0	95.0	75.0	0.0	75.0	42.0	219
	ACURON	3.44 L		80.0 oz/a		PRE B	209		99.0	99.0	0.0	95.0	100.0	44.0	230
	GROUNDED			0.83 % v/v		PRE B	308		99.0	99.0	0.0	95.0	100.0	47.0	245
							411		99.0	99.0	40.0	75.0	65.0	48.0	251
				Mean =					99.0	98.0	28.8	66.3	85.0	45.3	236
14	COUNTER	20 G		6.0 oz/1000	row-ft	INFR A	114		99.0	95.0	60.0	75.0	30.0	47.0	245
	BICEP II MAGNUM	5.5 L		64.0 oz/a		PRE B	208		95.0	99.0	0.0	0.0	95.0	46.0	240
	GROUNDED			0.83 % v/v		PRE B	310		99.0	99.0	0.0	75.0	90.0	47.0	245
							412		99.0	99.0	30.0	95.0	50.0	48.0	251
				Mean =					98.0	98.0	22.5	61.3	66.3	47.0	245

University of Georgia

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN

Trial ID: CN-10-23 Study Dir.: ZACH TAYLOR
Location: PONDER FARM Investigator: Eric P. Prostko

Rating Unit

% = PERCENT

In = INCH

ARM Action Codes

T1 = $([C15]+[C16]+[C17]+[C18]+[C19])/5$

TY2 = 5.22100169*[31]