

University of Georgia

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3

Plots: 6 by 25 feet

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	2	3
1	NO COUNTER NO HERBICIDE									- -	101	207	304
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 GPA 15 GPA 15 GPA	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
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 GPA 15 GPA 15 GPA	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
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 GPA 15 GPA 15 GPA	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
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 GPA 15 GPA 15 GPA	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
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE PRE	B B	15 GPA 15 GPA	1.5 L 1.5 L	62.5 mL/mx 12.45 mL/mx	- 1425.1 mL	106	202	302
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE PRE	B B	15 GPA 15 GPA	1.5 L 1.5 L	50.0 mL/mx 12.45 mL/mx	- 1437.6 mL	107	201	303
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR	A	-	-	4.252 g/1 row/1 plot	- -	108	214	311
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 PRE PRE PRE	A B B B	- 15 GPA 15 GPA 15 GPA	- 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
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	- 15 GPA 15 GPA 15 GPA	- 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
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	- 15 GPA 15 GPA 15 GPA	- 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

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN-YEAR 2 Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko	
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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Appl. Amount	Mix Size	Amt Product to Measure	Diluent	Rep 1	2	3
12	COUNTER HM1821A ATRAZINE GROUNDED	20 G 3.82 L 4 L		6.0 oz/1000 row-ft		INFR A	-	-	-	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
13	COUNTER ACURON GROUNDED	20 G 3.44 L		6.0 oz/1000 row-ft		INFR A	-	-	-	4.252 g/1 row/1 plot 62.5 mL/mx 12.45 mL/mx	- 1425.1 mL	113	209	308
14	COUNTER BICEP II MAGNUM GROUNDED	20 G 5.5 L		6.0 oz/1000 row-ft		INFR A	-	-	-	4.252 g/1 row/1 plot 50.0 mL/mx 12.45 mL/mx	- 1437.6 mL	114	208	310

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

NEMATODE RESULTS 06/26/24: ROOT-KNOT = 120/100 CC; STUBBY = 20/100 CC

HARVEST DATE: 08/30/24
HARVEST MOISTURE: 16.3%
YIELDS ADJUSTED TO 15.5%

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

SUMMARY:

1) GENERALLY, COUNTER HAD NO MAJOR EFFECTS ON CROP INJURY OR STAND EXCEPT FOR PLANT HEIGHT. CORN PLANTS WERE SHORTER WHEN COUNTER WAS APPLIED INFR.

2) FROM WEED CONTROL RATINGS OBTAINED ON MAY 15 (27 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:

A) PALMER AMARANTH AND CARPETWEED CONTROL EXCEEDED 94% WITH ALL PRE TREATMENTS.

B) WILD RADISH CONTROL WAS LESS THAN 83% WITH WITH EMPYROS @ 24 OZ/A (72% CONTROL) AND BICEP II MAGNUM (68% CONTROL).

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C) ONLY 2 PRE TREATMENTS PROVIDED >96% CONTROL OF ANNUAL GRASSES INCLUDING EMPYROS @ 45 OZ/A (98% CONTROL) AND ACURON (96% CONTROL) 3) FOR CORN YIELD, THERE WAS NO INTERACTION BETWEEN COUNTER AND HERBICDE TREATMENT (P=0.9898). WHEN AVERAGED OVER HERBICIDE, COUNTER HAD NO EFFECT ON YIELD (P=0.9141). WHEN AVERAGED OVER COUNTER, HERBICIDE TREATMENT HAD NO EFFECT ON YIELD (P=0.4394).

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES
IN FIELD CORN-YEAR 2
Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: ZACH TAYLOR

Affiliation: _____

Postal Code: _____

Title: _____

Investigator: Eric P. Prostko

Affiliation: _____

Postal Code: _____

Title: _____

TRIAL LOCATION

City: _____

State/Prov.: _____

Postal Code: _____

Country: _____

E-Longitude of LL Corner °: _____

Altitude of LL Corner: _____ Unit: _____

Directions: _____

Trial Status: E

Trial Reliability: _____

Initiation Date: _____

Planned Completion Date: _____

N-Latitude of LL Corner °: _____

Angle y-axis to North °: _____

COOPERATOR/LANDOWNER

Cooperator: _____

Org: _____

Address 1: _____

Address 2: _____

City: _____

State/Prov: _____

Postal Code: _____

Country: _____

Phone No: _____

Fax No: _____

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.	MOLVE	CA	RPETWEED

Crop 1: ZEAMA

FIELD CORN

Variety: DEKALB DKC68-35

Planting Date: Apr-17-24

Planting Method: MONOSEM VACUUM

Rate: 33880

SEED/A

Depth: 1.5

IN

Perennial Age: _____

Row Spacing: 36

IN

Spacing Within Row: _____

Seed Bed: _____

Soil Temperature: _____

Soil Moisture: OPTIMUM

Emergence Date: _____

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IN FIELD CORN-YEAR 2
Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

Plot Width, Unit: 6 FT

SITE AND DESIGN
Plot Length, Unit: 25 FT Reps: 3

Site Type:

Tillage Type: CONVENTIONAL Study Design: SPLPLO

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	FALLOW		2023

MAINTENANCE
Field Prep./Maintenance: 1000 LBS/A 5-15-30 PREPLANT
AXILO BMZ (MICRO-NUTRIENTS) - APRIL 30
SIDEDRESS: 125-0-0-16: MAY 1
SIDEDRESS: 83-0-0-10: MAY 13
SIDEDRESS: 83-0-0-10: JUNE 1

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

% Sand: 94 % OM: 0.54 Texture: SAND
% Silt: 4 pH: 6.4 Soil Name: DOTHAN/FUQUAY
% Clay: 2 CEC: 2.6 Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

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Location: PONDER FARM Investigator: Eric P. Prostko

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-18-24		0.2	IN	SPRINKLER - LATERAL MOVE		
2.	Apr-19-24		0.15	IN	SPRINKLER - LATERAL MOVE		
3.	Apr-21-24		1.0	IN	RAINFALL		
4.	May-2-24		0.3	IN	SPRINKLER - LATERAL MOVE		
5.	May-4-24		0.9	IN	RAINFALL		
6.	May-9-24		0.75	IN	RAINFALL		
7.	May-10-24		0.75	IN	RAINFALL		
8.	May-13-24		1.1	IN	RAINFALL		
9.	May-17-24		0.96	IN	RAINFALL		
10.	May-18-24		1.35	IN	RAINFALL		
11.	May-19-24		0.69	IN	RAINFALL		
12.	May-25-24		0.44	IN	RAINFALL		
13.	May-27-24		0.62	IN	RAINFALL		
14.	Jun-1-24		0.15	IN	SPRINKLER - LATERAL MOVE		
15.	Jun-3-24		0.5	IN	SPRINKLER - LATERAL MOVE		
16.	Jun-4-24		0.4	IN	SPRINKLER - LATERAL MOVE		
17.	Jun-7-24		0.25	IN	SPRINKLER - LATERAL MOVE		
18.	Jun-10-24		0.25	IN	SPRINKLER - LATERAL MOVE		
19.	Jun-11-24		0.45	IN	SPRINKLER - LATERAL MOVE		
20.	Jun-27-24		0.9	IN	RAINFALL		

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

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IN FIELD CORN-YEAR 2
Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr-18-24	Apr-18-24
Time of Day:	7:00 AM	7:00 am
Application Method:	BROADCAST	BROADCAST
Application Timing:	INFR	PRE
Applic. Placement:	SOIL	SOIL
Air Temp., Unit:		61 F
% Relative Humidity:		99
Wind Velocity, Unit:		0 mph
Dew Presence (Y/N):		N
Water Hardness:		--
Soil Temp., Unit:		64 F
Soil Moisture:		OPTIMUM
% Cloud Cover:		5

CROP STAGE AT EACH APPLICATION

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

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:	MOLVE,	MOLVE,
Stage Scale:		
Density, Unit:		

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Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION EQUIPMENT		
	A	B
Appl. Equipment:	TRACTOR	BACKPACK
Operating Pressure:		35
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-03A-24				Study Dir.: ZACH TAYLOR/NICK SHAY												
Location: PONDER FARM				Investigator: Eric P. Prostko												
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	----- ZEAMA STAND #/5 FT Apr-26-24	Zeama Stunting % May-2-24	Zeama Bleching % May-2-24	Zeama Necrosis % May-2-24	Amapa Control % May-2-24	Rapra Control % May-2-24	Agrass Control % May-2-24	Molve Control % May-2-24	Zeama Hgt1 In May-6-24	Zeama Hgt2 In May-6-24		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8	9	10
TABLE OF R MEANS																
Replicate 1							10.8	2.9	0.7	0.0	84.9	77.9	70.7	84.6	6.6	7.1
Replicate 2							11.1	0.0	0.0	0.0	84.9	79.1	66.9	84.9	7.4	7.1
Replicate 3							11.3	0.0	0.0	0.0	84.9	77.4	60.8	84.9	7.6	7.7
TABLE OF A (INSECTICIDE) MEANS																
1	NO COUNTER						11.0 -	1.2 -	0.0 -	0.0 na	84.9 na	78.9 -	66.9 -	84.7 -	7.3 -	7.5 a
2	COUNTER	20 G		6.0 oz/1000 row-ft INFR A			11.1 -	0.7 -	0.5 -	0.0 na	84.9 na	77.4 -	65.4 -	84.9 -	7.0 -	7.1 b
LSD P=.10							1.09	1.39	1.39	.	.	3.86	14.60	0.42	0.37	0.28
Standard Deviation							1.21	1.54	1.54	0.00	0.00	4.28	16.20	0.46	0.41	0.31
CV							10.91	162.02	648.07	0.00	0.00	5.48	24.50	0.55	5.70	4.21
TABLE OF B (HERBICIDE) MEANS																
1	NO HERBICIDE						11.0 -	0.0 -	0.0 -	0.0 na	0.0 na	0.0 d	0.0 c	0.0 c	7.3 -	7.2 -
2	SHILEDDEX	3.33 L		1.0 oz/a	PRE B		11.0 -	0.0 -	0.0 -	0.0 na	99.0 na	86.3 bc	56.3 b	99.0 a	7.2 -	7.2 -
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		11.0 -	1.7 -	0.0 -	0.0 na	99.0 na	88.8 abc	80.3 ab	99.0 a	7.5 -	7.5 -
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		11.2 -	0.8 -	0.0 -	0.0 na	99.0 na	93.5 ab	72.7 ab	99.0 a	7.3 -	7.5 -
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 -	1.7 -	0.8 -	0.0 na	99.0 na	97.5 ab	99.0 a	99.0 a	6.5 -	7.3 -
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		11.0 -	2.5 -	0.8 -	0.0 na	99.0 na	99.0 a	99.0 a	99.0 a	6.8 -	7.0 -
6	GROUNDED			0.83 % v/v	PRE B											
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B		11.2 -	0.0 -	0.0 -	0.0 na	99.0 na	81.7 c	55.7 b	98.5 b	7.5 -	7.7 -
7	GROUNDED			0.83 % v/v	PRE B											
LSD P=.10							0.70	2.20	0.98	.	.	11.47	37.71	0.46	0.87	0.62
Standard Deviation							0.71	2.23	1.00	0.00	0.00	11.61	38.17	0.46	0.88	0.63

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-YEAR 2												
Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko												
Weed Code	-----			ZEAMA	Zeama	Zeama	Zeama	Amapa	Rapra	Agrass	Molve	Zeama
Crop Code				STAND	Stunting	Bleching	Necrosis	Control	Control	Control	Control	Hgt1
Rating Data Type				#/5 FT	%	%	%	%	%	%	%	In
Rating Unit				Apr-26-24	May-2-24	May-2-24	May-2-24	May-2-24	May-2-24	May-2-24	May-2-24	May-6-24
Rating Date												
Trt Treatment	Form Form	Rate	Grow Appl									
No. Name	Conc Type	Rate Unit	Stg Code	1	2	3	4	5	6	7	8	9
CV				6.40	233.85	418.33	0.00	0.00	14.87	57.71	0.55	12.27
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS												
1 NO COUNTER				10.7 -	0.0 -	0.0 -	0.0 na	0.0 na	0.0 -	0.0 -	0.0 -	7.3 -
1 NO HERBICIDE												7.0 -
2 COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	11.3 -	0.0 -	0.0 -	0.0 na	0.0 na	0.0 -	0.0 -	0.0 -	7.3 -
1 NO HERBICIDE												7.3 -
1 NO COUNTER				11.0 -	0.0 -	0.0 -	0.0 na	99.0 na	88.0 -	61.3 -	99.0 -	7.3 -
2 SHIELDEX	3.33 L	1.0 oz/a	PRE B									7.3 -
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 -	0.0 -	0.0 -	0.0 na	99.0 na	84.7 -	51.3 -	99.0 -	7.0 -
2 SHIELDEX	3.33 L	1.0 oz/a	PRE B									7.0 -
2 ATRAZINE	4 L	32.0 oz/a	PRE B									
2 GROUNDED		0.83 % v/v	PRE B									
1 NO COUNTER				11.0 -	3.3 -	0.0 -	0.0 na	99.0 na	84.7 -	96.0 -	99.0 -	7.3 -
3 HM1821A	3.82 L	24.0 oz/a	PRE B									7.7 -
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	11.0 -	0.0 -	0.0 -	0.0 na	99.0 na	93.0 -	64.7 -	99.0 -	7.7 -
3 HM1821A	3.82 L	24.0 oz/a	PRE B									7.3 -
3 ATRAZINE	4 L	32.0 oz/a	PRE B									
3 GROUNDED		0.83 % v/v	PRE B									
1 NO COUNTER				10.7 -	1.7 -	0.0 -	0.0 na	99.0 na	96.0 -	66.0 -	99.0 -	7.3 -
4 HM1821A	3.82 L	32.0 oz/a	PRE B									7.7 -
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	11.7 -	0.0 -	0.0 -	0.0 na	99.0 na	91.0 -	79.3 -	99.0 -	7.3 -
4 HM1821A	3.82 L	32.0 oz/a	PRE B									7.3 -
4 ATRAZINE	4 L	32.0 oz/a	PRE B									
4 GROUNDED		0.83 % v/v	PRE B									

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date						----- ZEAMA STAND #/5 FT Apr-26-24	Zeama Stunting % May-2-24	Zeama Bleching % May-2-24	Zeama Necrosis % May-2-24	Amapa Control % May-2-24	Rapra Control % May-2-24	Agrass Control % May-2-24	Molve Control % May-2-24	Zeama Hgt1 In May-6-24	Zeama Hgt2 In May-6-24	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8	9	10
1	NO COUNTER						11.7 -	1.7 -	0.0 -	0.0 na	99.0 na	96.0 -	99.0 -	99.0 -	7.0 -	7.7 -
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	10.3 -	1.7 -	1.7 -	0.0 na	99.0 na	99.0 -	99.0 -	99.0 -	6.0 -	7.0 -
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						11.0 -	1.7 -	0.0 -	0.0 na	99.0 na	99.0 -	99.0 -	99.0 -	7.0 -	7.3 -
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	11.0 -	3.3 -	1.7 -	0.0 na	99.0 na	99.0 -	99.0 -	99.0 -	6.7 -	6.7 -
6	ACURON	3.44 L		80.0 oz/a	PRE	B										
6	GROUNDED			0.83 % v/v	PRE	B										
1	NO COUNTER						11.0 -	0.0 -	0.0 -	0.0 na	99.0 na	88.3 -	46.7 -	98.0 -	7.7 -	8.0 -
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	11.3 -	0.0 -	0.0 -	0.0 na	99.0 na	75.0 -	64.7 -	99.0 -	7.3 -	7.3 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B										
7	GROUNDED			0.83 % v/v	PRE	B										
LSD P=.10							0.99	3.11	1.39	.	.	16.22	53.32	0.65	1.23	0.88
Standard Deviation							0.71	2.23	1.00	0.00	0.00	11.61	38.17	0.46	0.88	0.63
CV							6.40	233.85	418.33	0.00	0.00	14.87	57.71	0.55	12.27	8.55

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

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

University of Georgia

COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN-YEAR 2										
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code									Amapa	Rapra
Crop Code									Control	Control
Rating Data Type									%	%
Rating Unit										
Rating Date										
Trt Treatment	Form Form	Rate	Grow Appl							
No. Name	Conc Type Rate Unit	Stg Code								
TABLE OF R MEANS										
Replicate 1										
Replicate 2										
Replicate 3										
TABLE OF A (INSECTICIDE) MEANS										
1 NO COUNTER										
2 COUNTER 20 G 6.0 oz/1000 row-ft INFR A										
LSD P=.10										
Standard Deviation										
CV										
TABLE OF B (HERBICIDE) MEANS										
1 NO HERBICIDE										
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										
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										
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										
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										
6 ACURON 3.44 L 80.0 oz/a PRE B										
6 GROUNDED 0.83 % v/v PRE B										
7 BICEP II MAGNUM 5.5 L 64.0 oz/a PRE B										
7 GROUNDED 0.83 % v/v PRE B										
LSD P=.10										
Standard Deviation										

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-YEAR 2										
Trial ID: CN-03A-24				Study Dir.: ZACH TAYLOR/NICK SHAY						
Location: PONDER FARM				Investigator: Eric P. Prostko						
Weed Code									Amapa	Rapra
Crop Code									Control	Control
Rating Data Type									%	%
Rating Unit										
Rating Date										
Trt Treatment	Form Form	Rate	Grow Appl							
No. Name	Conc Type Rate Unit		Stg Code							
CV										
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS										
1 NO COUNTER										
1 NO HERBICIDE										
2 COUNTER	20 G	6.0 oz/1000 row-ft	INFR A							
1 NO HERBICIDE										
1 NO COUNTER										
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							
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							
1 NO COUNTER										
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							
2 COUNTER	20 G	6.0 oz/1000 row-ft	INFR A							
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										
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							
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							

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-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Zeama Hgt3 In May-6-24	Zeama Hgt4 In May-6-24	Zeama Hgt5 In May-6-24	ZEAMA HEIGHT INCHES May-6-24	Zeama Stunting % May-15-24	Zeama Bleaching % May-15-24	Zeama Necrosis % May-15-24	Amapa Control % May-15-24	Rapra Control % May-15-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	11	12	13	14	15	16	17	18	19
1	NO COUNTER						8.0 -	7.3 -	7.0 -	7.4 -	1.7 -	0.0 na	0.0 -	99.0 -	90.0 -
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	6.7 -	6.7 -	7.0 -	6.7 -	5.0 -	0.0 na	3.3 -	98.0 -	88.3 -
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						6.7 -	7.3 -	6.7 -	7.0 -	1.7 -	0.0 na	0.0 -	99.0 -	88.3 -
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	6.3 -	6.7 -	6.3 -	6.5 -	5.0 -	0.0 na	1.7 -	99.0 -	91.7 -
6	ACURON	3.44 L		80.0 oz/a	PRE	B									
6	GROUNDED			0.83 % v/v	PRE	B									
1	NO COUNTER						8.0 -	8.0 -	7.7 -	7.9 -	0.0 -	0.0 na	0.0 -	92.7 -	76.7 -
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	7.0 -	7.0 -	6.3 -	7.0 -	5.0 -	0.0 na	0.0 -	96.0 -	58.3 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE	B									
7	GROUNDED			0.83 % v/v	PRE	B									
LSD P=.10							0.91	0.94	1.08	0.39	4.15	.	3.20	4.60	24.20
Standard Deviation							0.65	0.67	0.77	0.28	2.97	0.00	2.29	3.29	17.33
CV							8.62	9.34	11.37	3.91	131.37	0.00	275.16	3.91	24.96

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-YEAR 2										
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code				Agrass	Molve	Zeama	ZEAMA	ZEAMA	ZEAMA	ZEAMA
Crop Code				Control	Control	Hgt1	Hgt2	Hgt3	Hgt4	Hgt5
Rating Data Type				%	%	Inches	INCHES	INCHES	INCHES	INCHES
Rating Unit				May-15-24	May-15-24	May-21-24	May-21-24	May-21-24	May-21-24	May-21-24
Rating Date										
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate Unit	Stg	Code	20	21	22	23
							24	25	26	27
							28			
TABLE OF R MEANS										
Replicate 1										
Replicate 2										
Replicate 3										
TABLE OF A (INSECTICIDE) MEANS										
1 NO COUNTER										
2 COUNTER										
LSD P=.10										
Standard Deviation										
CV										
TABLE OF B (HERBICIDE) MEANS										
1 NO HERBICIDE										
2 SHIELDDEX										
2 ATRAZINE										
2 GROUNDED										
3 HM1821A										
3 ATRAZINE										
3 GROUNDED										
4 HM1821A										
4 ATRAZINE										
4 GROUNDED										
5 HM1821A										
5 ATRAZINE										
5 GROUNDED										
6 ACURON										
6 GROUNDED										
7 BICEP II MAGNUM										
7 GROUNDED										
LSD P=.10										
Standard Deviation										

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-YEAR 2												
Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko												
Weed Code					Agrass	Molve						
Crop Code					Control	Control	Zeama	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA
Rating Data Type					%	%	Hgt1	Hgt2	Hgt3	Hgt4	Hgt5	AVG HGT
Rating Unit					May-15-24	May-15-24	Inches	INCHES	INCHES	INCHES	INCHES	INCHES
Rating Date												Zeama
												Stunt
												%
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate Unit	Stg	Code	20	21	22	23	24	25
CV							48.76	1.64	6.19	5.25	3.77	4.41
											4.58	2.64
												119.05
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS												
1	NO COUNTER						0.0 -	0.0 -	23.3 -	24.0 -	24.3 -	24.0 -
1	NO HERBICIDE											0.0 -
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A		0.0 -	0.0 -	23.3 -	24.7 -	25.3 -	24.3 -
1	NO HERBICIDE											24.6 -
1	NO COUNTER						59.7 -	99.0 -	23.3 -	23.0 -	24.0 -	23.6 -
2	SHIELDDEX	3.33 L		1.0 oz/a	PRE B							0.0 -
2	ATRAZINE	4 L		32.0 oz/a	PRE B							
2	GROUNDDED			0.83 % v/v	PRE B							
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A		60.0 -	99.0 -	25.7 -	25.7 -	25.0 -	25.3 -
2	SHIELDDEX	3.33 L		1.0 oz/a	PRE B							24.3 -
2	ATRAZINE	4 L		32.0 oz/a	PRE B							25.2 -
2	GROUNDDED			0.83 % v/v	PRE B							1.7 -
1	NO COUNTER						86.3 -	99.0 -	23.3 -	23.7 -	23.3 -	23.3 -
3	HM1821A	3.82 L		24.0 oz/a	PRE B							22.7 -
3	ATRAZINE	4 L		32.0 oz/a	PRE B							23.3 -
3	GROUNDDED			0.83 % v/v	PRE B							3.3 -
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A		69.7 -	99.0 -	24.7 -	25.3 -	25.3 -	24.7 -
3	HM1821A	3.82 L		24.0 oz/a	PRE B							24.0 -
3	ATRAZINE	4 L		32.0 oz/a	PRE B							24.8 -
3	GROUNDDED			0.83 % v/v	PRE B							5.0 -
1	NO COUNTER						68.3 -	99.0 -	22.3 -	24.7 -	24.3 -	22.7 -
4	HM1821A	3.82 L		32.0 oz/a	PRE B							22.3 -
4	ATRAZINE	4 L		32.0 oz/a	PRE B							23.3 -
4	GROUNDDED			0.83 % v/v	PRE B							6.7 -
2	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A		84.7 -	99.0 -	25.0 -	24.7 -	24.7 -	24.0 -
4	HM1821A	3.82 L		32.0 oz/a	PRE B							23.0 -
4	ATRAZINE	4 L		32.0 oz/a	PRE B							24.3 -
4	GROUNDDED			0.83 % v/v	PRE B							1.7 -

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-YEAR 2															
Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko															
Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Agrass Control % May-15-24	Molve Control % May-15-24	Zeama Hgt1 Inches May-21-24	ZEAMA Hgt2 INCHES May-21-24	ZEAMA Hgt3 INCHES May-21-24	ZEAMA Hgt4 INCHES May-21-24	ZEAMA Hgt5 INCHES May-21-24	ZEAMA AVG HGT INCHES May-21-24	Zeama Stunt % May-27-24
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate Unit	Stg	Code	20	21	22	23	24	25	26	27	28
1	NO COUNTER						97.7 -	99.0 -	23.0 -	22.3 -	23.0 -	24.7 -	25.0 -	23.6 -	5.0 -
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	97.7 -	99.0 -	24.0 -	25.0 -	25.0 -	24.3 -	23.3 -	24.3 -	5.0 -
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						96.3 -	99.0 -	23.7 -	23.3 -	24.3 -	23.0 -	22.7 -	23.4 -	3.3 -
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	96.0 -	99.0 -	24.3 -	24.7 -	24.0 -	24.7 -	24.0 -	24.3 -	3.3 -
6	ACURON	3.44	L	80.0 oz/a	PRE	B									
6	GROUNDLED			0.83 % v/v	PRE	B									
1	NO COUNTER						61.7 -	96.0 -	24.3 -	25.3 -	26.0 -	25.3 -	24.3 -	25.1 -	0.0 -
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	55.0 -	99.0 -	24.7 -	25.7 -	27.0 -	24.0 -	24.3 -	25.1 -	1.7 -
7	BICEP II MAGNUM	5.5	L	64.0 oz/a	PRE	B									
7	GROUNDLED			0.83 % v/v	PRE	B									
LSD P=.10							45.39	1.94	2.07	1.79	1.30	1.49	1.52	0.89	4.36
Standard Deviation							32.49	1.39	1.48	1.28	0.93	1.07	1.09	0.64	3.12
CV							48.76	1.64	6.19	5.25	3.77	4.41	4.58	2.64	119.05

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-YEAR 2									
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code				Amapa	Rapra	Agrass	Molve	-----	-----
Crop Code				Control	Control	Control	Control	ZEAMA	ZEAMA
Rating Data Type				%	%	%	%	YIELD	YIELD
Rating Unit				May-27-24	May-27-24	May-27-24	May-27-24	LBS/PLOT	BU/A
Rating Date								Aug-30-24	Aug-30-24
Trt Treatment	Form	Form	Rate	Grow	Appl	Stg	Code	33	34
No. Name	Conc	Type	Rate Unit						
CV				29	30	31	32	33	34
				17.12	17.86	26.43	12.02	31.11	31.11
TABLE OF A (INSECTICIDE) B (HERBICIDE) MEANS									
1 NO COUNTER				0.0 -	0.0 -	0.0 -	0.0 -	24.3 -	125.0 -
1 NO HERBICIDE									
2 COUNTER	20 G		6.0 oz/1000 row-ft INFR A	0.0 -	0.0 -	0.0 -	0.0 -	25.7 -	131.8 -
1 NO HERBICIDE									
1 NO COUNTER				99.0 -	86.7 -	71.3 -	78.0 -	26.3 -	135.3 -
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	97.7 -	68.3 -	70.0 -	93.3 -	26.3 -	135.3 -
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						
1 NO COUNTER				94.3 -	73.3 -	86.3 -	84.7 -	32.7 -	167.8 -
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						
2 COUNTER	20 G		6.0 oz/1000 row-ft INFR A	96.0 -	78.3 -	78.3 -	94.7 -	27.3 -	140.4 -
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				97.7 -	91.7 -	78.3 -	96.3 -	29.0 -	149.0 -
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	99.0 -	73.3 -	81.7 -	97.7 -	30.0 -	154.1 -
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						

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-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Amapa	Rapra	Agrass	Molve	-----	-----
Crop Code						Control	Control	Control	Control	ZEAMA	ZEAMA
Rating Data Type						%	%	%	%	YIELD	YIELD
Rating Unit										LBS/PLOT	BU/A
Rating Date						May-27-24	May-27-24	May-27-24	May-27-24	Aug-30-24	Aug-30-24
Trt	Treatment	Form	Form	Rate	Grow	29	30	31	32	33	34
No.	Name	Conc	Type	Rate Unit	Appl Stg Code						
1	NO COUNTER					97.7 -	88.3 -	94.7 -	99.0 -	34.7 -	178.1 -
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	99.0 -	90.0 -	97.7 -	93.3 -	32.0 -	164.4 -
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					99.0 -	83.3 -	97.7 -	91.7 -	34.7 -	178.1 -
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	99.0 -	91.7 -	93.0 -	97.7 -	37.7 -	193.5 -
6	ACURON	3.44 L		80.0 oz/a	PRE B						
6	GROUNDED			0.83 % v/v	PRE B						
1	NO COUNTER					94.3 -	90.0 -	63.3 -	86.3 -	31.0 -	159.2 -
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	66.0 -	80.0 -	58.3 -	83.0 -	32.3 -	166.1 -
7	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B						
7	GROUNDED			0.83 % v/v	PRE B						
LSD P=.10						19.45	17.73	25.60	13.14	13.16	67.60
Standard Deviation						13.92	12.69	18.32	9.41	9.42	48.39
CV						17.12	17.86	26.43	12.02	31.11	31.11

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-YEAR 2						
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE SPLIT-PLOT AOV For ----- ZEAMA STAND #/5 FT Apr-26-24 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	21.904762				
R	2	1.761905	0.880952	1.762	0.1932	
A	1	0.095238	0.095238	0.066	0.8218	1.1
ERROR A	2	2.904762	1.452381			
B	6	0.238095	0.039683	0.079	0.9977	0.7
AB	6	4.904762	0.817460	1.635	0.1809	1.0
ERROR B	24	12.000000	0.500000			
COMPLETE SPLIT-PLOT AOV For Zeama Stunting % May-2-24 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	261.904762				
R	2	76.190476	38.095238	7.680	0.0026	
A	1	2.380952	2.380952	1.000	0.4226	1.4
ERROR A	2	4.761905	2.380952			
B	6	36.904762	6.150794	1.240	0.3213	2.2
AB	6	22.619048	3.769841	0.760	0.6082	3.1
ERROR B	24	119.047619	4.960317			
COMPLETE SPLIT-PLOT AOV For Zeama Bleching % May-2-24 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	47.619048				
R	2	4.761905	2.380952	2.400	0.1122	
A	1	2.380952	2.380952	1.000	0.4226	1.4
ERROR A	2	4.761905	2.380952			
B	6	5.952381	0.992063	1.000	0.4481	1.0
AB	6	5.952381	0.992063	1.000	0.4481	1.4
ERROR B	24	23.809524	0.992063			
COMPLETE SPLIT-PLOT AOV For Zeama Necrosis % May-2-24 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	0.000000				
R	2	0.000000	0.000000	NaN	NaN	
A	1	0.000000	0.000000	NaN	NaN	.
ERROR A	2	0.000000	0.000000			
B	6	0.000000	0.000000	NaN	NaN	.
AB	6	0.000000	0.000000	NaN	NaN	.
ERROR B	24	0.000000	0.000000			

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN-YEAR 2							
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE SPLIT-PLOT AOV For Amapa Control % May-2-24 (Data Column 5)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	50405.142857					
R	2	0.000000	0.000000	NaN	NaN		
A	1	0.000000	0.000000	NaN	NaN		.
ERROR A	2	0.000000	0.000000				
B	6	50405.142857	8400.857143	NaN	NaN		.
AB	6	0.000000	0.000000	NaN	NaN		.
ERROR B	24	0.000000	0.000000				
COMPLETE SPLIT-PLOT AOV For Rapra Control % May-2-24 (Data Column 6)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	47810.404762					
R	2	23.761905	11.880952	0.088	0.9160		
A	1	22.880952	22.880952	1.250	0.3799		3.9
ERROR A	2	36.619048	18.309524				
B	6	44073.904762	7345.650794	54.452	0.0001		11.5
AB	6	415.619048	69.269841	0.513	0.7922		16.2
ERROR B	24	3237.619048	134.900794				
COMPLETE SPLIT-PLOT AOV For Agrass Control % May-2-24 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	80477.142857					
R	2	703.000000	351.500000	0.241	0.7875		
A	1	21.428571	21.428571	0.082	0.8020		14.6
ERROR A	2	525.000000	262.500000				
B	6	41903.809524	6983.968254	4.793	0.0024		37.7
AB	6	2353.904762	392.317460	0.269	0.9459		53.3
ERROR B	24	34970.000000	1457.083333				
COMPLETE SPLIT-PLOT AOV For Molve Control % May-2-24 (Data Column 8)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	50329.071429					
R	2	0.428571	0.214286	1.000	0.3827		
A	1	0.214286	0.214286	1.000	0.4226		0.4
ERROR A	2	0.428571	0.214286				
B	6	50321.571429	8386.928571	39139.000	0.0001		0.5
AB	6	1.285714	0.214286	1.000	0.4481		0.6
ERROR B	24	5.142857	0.214286				

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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-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE SPLIT-PLOT AOV For Zeama Hgt1 In May-6-24 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	33.833333				
R	2	7.761905	3.880952	5.015	0.0151	
A	1	0.595238	0.595238	3.571	0.1994	0.4
ERROR A	2	0.333333	0.166667			
B	6	5.000000	0.833333	1.077	0.4037	0.9
AB	6	1.571429	0.261905	0.338	0.9096	1.2
ERROR B	24	18.571429	0.773810			

COMPLETE SPLIT-PLOT AOV For Zeama Hgt2 In May-6-24 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	17.333333				
R	2	3.047619	1.523810	3.879	0.0347	
A	1	1.523810	1.523810	16.000	0.0572	0.3
ERROR A	2	0.190476	0.095238			
B	6	2.000000	0.333333	0.848	0.5457	0.6
AB	6	1.142857	0.190476	0.485	0.8130	0.9
ERROR B	24	9.428571	0.392857			

COMPLETE SPLIT-PLOT AOV For Zeama Hgt3 In May-6-24 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	28.476190				
R	2	1.476190	0.738095	1.755	0.1944	
A	1	4.666667	4.666667	5.297	0.1480	0.8
ERROR A	2	1.761905	0.880952			
B	6	9.142857	1.523810	3.623	0.0106	0.6
AB	6	1.333333	0.222222	0.528	0.7812	0.9
ERROR B	24	10.095238	0.420635			

COMPLETE SPLIT-PLOT AOV For Zeama Hgt4 In May-6-24 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	21.833333				
R	2	3.190476	1.595238	3.558	0.0443	
A	1	1.166667	1.166667	49.000	0.0198	0.1
ERROR A	2	0.047619	0.023810			
B	6	4.000000	0.666667	1.487	0.2249	0.7
AB	6	2.666667	0.444444	0.991	0.4534	0.9
ERROR B	24	10.761905	0.448413			

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-YEAR 2						
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE SPLIT-PLOT AOV For Zeama Hgt5 In May-6-24 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	24.476190				
R	2	2.047619	1.023810	1.709	0.2024	
A	1	2.380952	2.380952	5.263	0.1487	0.6
ERROR A	2	0.904762	0.452381			
B	6	1.476190	0.246032	0.411	0.8646	0.8
AB	6	3.285714	0.547619	0.914	0.5019	1.1
ERROR B	24	14.380952	0.599206			
COMPLETE SPLIT-PLOT AOV For ZEAMA HEIGHT INCHES May-6-24 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	9.280000				
R	2	2.588571	1.294286	16.308	0.0001	
A	1	1.843810	1.843810	276.571	0.0036	0.1
ERROR A	2	0.013333	0.006667			
B	6	2.093333	0.348889	4.396	0.0039	0.3
AB	6	0.836190	0.139365	1.756	0.1512	0.4
ERROR B	24	1.904762	0.079365			
COMPLETE SPLIT-PLOT AOV For Zeama Stunting % May-15-24 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	460.119048				
R	2	86.904762	43.452381	4.921	0.0162	
A	1	72.023810	72.023810	121.000	0.0082	0.7
ERROR A	2	1.190476	0.595238			
B	6	64.285714	10.714286	1.213	0.3337	2.9
AB	6	23.809524	3.968254	0.449	0.8382	4.2
ERROR B	24	211.904762	8.829365			
COMPLETE SPLIT-PLOT AOV For Zeama Bleaching % May-15-24 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	0.000000				
R	2	0.000000	0.000000	NaN	NaN	
A	1	0.000000	0.000000	NaN	NaN	.
ERROR A	2	0.000000	0.000000			
B	6	0.000000	0.000000	NaN	NaN	.
AB	6	0.000000	0.000000	NaN	NaN	.
ERROR B	24	0.000000	0.000000			

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN-YEAR 2						
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE SPLIT-PLOT AOV For Zeama Necrosis % May-15-24 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	195.833333				
R	2	15.476190	7.738095	1.472	0.2495	
A	1	14.880952	14.880952	3.571	0.1994	1.8
ERROR A	2	8.333333	4.166667			
B	6	16.666667	2.777778	0.528	0.7812	2.3
AB	6	14.285714	2.380952	0.453	0.8358	3.2
ERROR B	24	126.190476	5.257937			
COMPLETE SPLIT-PLOT AOV For Amapa Control % May-15-24 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	49956.404762				
R	2	33.761905	16.880952	1.557	0.2314	
A	1	1.166667	1.166667	0.353	0.6129	1.6
ERROR A	2	6.619048	3.309524			
B	6	49637.571429	8272.928571	762.817	0.0001	3.3
AB	6	17.000000	2.833333	0.261	0.9496	4.6
ERROR B	24	260.285714	10.845238			
COMPLETE SPLIT-PLOT AOV For Rapra Control % May-15-24 (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	45560.119048				
R	2	429.761905	214.880952	0.716	0.4989	
A	1	72.023810	72.023810	0.394	0.5943	12.2
ERROR A	2	365.476190	182.738095			
B	6	36314.285714	6052.380952	20.161	0.0001	17.1
AB	6	1173.809524	195.634921	0.652	0.6885	24.2
ERROR B	24	7204.761905	300.198413			
COMPLETE SPLIT-PLOT AOV For Agrass Control % May-15-24 (Data Column 20)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	66377.642857				
R	2	393.857143	196.928571	0.187	0.8310	
A	1	10.500000	10.500000	0.370	0.6048	4.8
ERROR A	2	56.714286	28.357143			
B	6	39701.809524	6616.968254	6.267	0.0005	32.1
AB	6	873.333333	145.555556	0.138	0.9898	45.4
ERROR B	24	25341.428571	1055.892857			

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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-YEAR 2						
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE SPLIT-PLOT AOV For Molve Control % May-15-24 (Data Column 21)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	50229.642857				
R	2	3.857143	1.928571	1.000	0.3827	
A	1	1.928571	1.928571	1.000	0.4226	1.3
ERROR A	2	3.857143	1.928571			
B	6	50162.142857	8360.357143	4335.000	0.0001	1.4
AB	6	11.571429	1.928571	1.000	0.4481	1.9
ERROR B	24	46.285714	1.928571			
COMPLETE SPLIT-PLOT AOV For Zeama Hgt1 Inches May-21-24 (Data Column 22)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	110.785714				
R	2	23.285714	11.642857	5.315	0.0123	
A	1	14.880952	14.880952	8.562	0.0996	1.2
ERROR A	2	3.476190	1.738095			
B	6	7.619048	1.269841	0.580	0.7428	1.5
AB	6	8.952381	1.492063	0.681	0.6663	2.1
ERROR B	24	52.571429	2.190476			
COMPLETE SPLIT-PLOT AOV For ZEAMA Hgt2 INCHES May-21-24 (Data Column 23)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	106.285714				
R	2	20.571429	10.285714	6.261	0.0065	
A	1	18.666667	18.666667	7.000	0.1181	1.5
ERROR A	2	5.333333	2.666667			
B	6	11.952381	1.992063	1.213	0.3341	1.3
AB	6	10.333333	1.722222	1.048	0.4198	1.8
ERROR B	24	39.428571	1.642857			
COMPLETE SPLIT-PLOT AOV For ZEAMA Hgt3 INCHES May-21-24 (Data Column 24)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	80.976190				
R	2	17.333333	8.666667	10.018	0.0007	
A	1	10.500000	10.500000	36.750	0.0261	0.5
ERROR A	2	0.571429	0.285714			
B	6	25.476190	4.246032	4.908	0.0021	0.9
AB	6	6.333333	1.055556	1.220	0.3305	1.3
ERROR B	24	20.761905	0.865079			

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN-YEAR 2							
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE SPLIT-PLOT AOV For ZEAMA Hgt4 INCHES May-21-24 (Data Column 25)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	83.071429					
R	2	26.142857	13.071429	11.477	0.0003		
A	1	6.880952	6.880952	11.560	0.0767		0.7
ERROR A	2	1.190476	0.595238				
B	6	9.238095	1.539683	1.352	0.2737		1.1
AB	6	12.285714	2.047619	1.798	0.1421		1.5
ERROR B	24	27.333333	1.138889				
COMPLETE SPLIT-PLOT AOV For ZEAMA Hgt5 INCHES May-21-24 (Data Column 26)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	83.619048					
R	2	29.190476	14.595238	12.342	0.0002		
A	1	0.857143	0.857143	4.000	0.1835		0.4
ERROR A	2	0.428571	0.214286				
B	6	15.285714	2.547619	2.154	0.0839		1.1
AB	6	9.476190	1.579365	1.336	0.2802		1.5
ERROR B	24	28.380952	1.182540				
COMPLETE SPLIT-PLOT AOV For ZEAMA AVG HGT INCHES May-21-24 (Data Column 27)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	52.119048					
R	2	22.681905	11.340952	27.855	0.0001		
A	1	8.960952	8.960952	25.849	0.0366		0.5
ERROR A	2	0.693333	0.346667				
B	6	7.445714	1.240952	3.048	0.0232		0.6
AB	6	2.565714	0.427619	1.050	0.4186		0.9
ERROR B	24	9.771429	0.407143				
COMPLETE SPLIT-PLOT AOV For Zeama Stunt % May-27-24 (Data Column 28)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	511.904762					
R	2	58.333333	29.166667	3.000	0.0687		
A	1	0.000000	0.000000	0.000	1.0000		3.2
ERROR A	2	25.000000	12.500000				
B	6	145.238095	24.206349	2.490	0.0514		3.1
AB	6	50.000000	8.333333	0.857	0.5397		4.4
ERROR B	24	233.333333	9.722222				

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-YEAR 2							
Trial ID: CN-03A-24		Study Dir.: ZACH TAYLOR/NICK SHAY					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE SPLIT-PLOT AOV For Amapa Control % May-27-24 (Data Column 29)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	54399.333333					
R	2	216.047619	108.023810	0.557	0.5799		
A	1	137.523810	137.523810	0.698	0.4915	12.7	
ERROR A	2	394.333333	197.166667				
B	6	47921.666667	7986.944444	41.214	0.0001	13.8	
AB	6	1078.809524	179.801587	0.928	0.4929	19.4	
ERROR B	24	4650.952381	193.789683				
COMPLETE SPLIT-PLOT AOV For Rapra Control % May-27-24 (Data Column 30)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	42476.785714					
R	2	417.857143	208.928571	1.297	0.2919		
A	1	214.880952	214.880952	0.646	0.5060	16.4	
ERROR A	2	665.476190	332.738095				
B	6	36222.619048	6037.103175	37.472	0.0001	12.5	
AB	6	1089.285714	181.547619	1.127	0.3768	17.7	
ERROR B	24	3866.666667	161.111111				
COMPLETE SPLIT-PLOT AOV For Agrass Control % May-27-24 (Data Column 31)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	48809.333333					
R	2	1117.761905	558.880952	1.665	0.2104		
A	1	34.380952	34.380952	0.908	0.4413	5.5	
ERROR A	2	75.761905	37.880952				
B	6	39359.666667	6559.944444	19.540	0.0001	18.1	
AB	6	164.619048	27.436508	0.082	0.9975	25.6	
ERROR B	24	8057.142857	335.714286				
COMPLETE SPLIT-PLOT AOV For Molve Control % May-27-24 (Data Column 32)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	41	47116.119048					
R	2	229.333333	114.666667	1.296	0.2921		
A	1	120.023810	120.023810	0.617	0.5146	12.6	
ERROR A	2	389.333333	194.666667				
B	6	43749.952381	7291.658730	82.417	0.0001	9.3	
AB	6	504.142857	84.023810	0.950	0.4790	13.1	
ERROR B	24	2123.333333	88.472222				

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-YEAR 2 Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko						
COMPLETE SPLIT-PLOT AOV For ----- ZEAMA YIELD LBS/PLOT Aug-30-24 (Data Column 33)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	2816.571429				
R	2	21.571429	10.785714	0.122	0.8861	
A	1	0.380952	0.380952	0.015	0.9141	4.6
ERROR A	2	51.190476	25.595238			
B	6	540.238095	90.039683	1.015	0.4394	9.3
AB	6	73.285714	12.214286	0.138	0.9898	13.2
ERROR B	24	2129.904762	88.746032			
COMPLETE SPLIT-PLOT AOV For ----- ZEAMA YIELD BU/A Aug-30-24 (Data Column 34)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	41	74314.821384				
R	2	569.158959	284.579479	0.122	0.8861	
A	1	10.051372	10.051372	0.015	0.9141	23.4
ERROR A	2	1350.653158	675.326579			
B	6	14254.102397	2375.683733	1.015	0.4394	47.8
AB	6	1933.632754	322.272126	0.138	0.9898	67.6
ERROR B	24	56197.222744	2341.550948			
Rating Unit % = PERCENT In = INCH ARM Action Codes T1 = ([9]+[10]+[11]+[12]+[13])/5 T2 = ([22]+[23]+[24]+[25]+[26])/5 TY3 = 5.13661877*[33]						

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-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							----- ZEAMA STAND #/5 FT Apr-26-24	Zeama Stunting % May-2-24	Zeama Bleaching % May-2-24	Zeama Necrosis % May-2-24	Amapa Control % May-2-24	Rapra Control % May-2-24	Agrass Control % May-2-24	Molve Control % May-2-24	Zeama Hgt1 In May-6-24
Trt	Treatment	Form	Form	Rate	Grow	Appl	1	2	3	4	5	6	7	8	9
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot									
1	NO COUNTER NO HERBICIDE					101 207 304 Mean =	10.0 11.0 11.0 10.7	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 0.0 0.0 0.0	6.0 7.0 9.0 7.3
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 Mean =	11.0 11.0 11.0 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	99.0 99.0 99.0 99.0	95.0 99.0 70.0 88.0	99.0 0.0 85.0 61.3	99.0 99.0 99.0 99.0	7.0 7.0 8.0 7.3
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 Mean =	10.0 11.0 12.0 11.0	10.0 0.0 0.0 3.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	90.0 65.0 99.0 84.7	99.0 99.0 90.0 96.0	99.0 99.0 99.0 99.0	7.0 8.0 7.0 7.3
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 Mean =	11.0 11.0 10.0 10.7	5.0 0.0 0.0 1.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	90.0 99.0 99.0 96.0	99.0 99.0 0.0 66.0	99.0 99.0 99.0 99.0	7.0 8.0 7.0 7.3
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 Mean =	12.0 11.0 12.0 11.7	5.0 0.0 0.0 1.7	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 90.0 96.0	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	6.0 7.0 8.0 7.0
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE PRE	B B Mean =	11.0 10.0 12.0 11.0	5.0 0.0 0.0 1.7	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	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	6.0 9.0 6.0 7.0
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE PRE	B B Mean =	10.0 10.0 13.0 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	99.0 99.0 99.0 99.0	85.0 90.0 90.0 88.3	0.0 50.0 90.0 46.7	96.0 99.0 99.0 98.0	7.0 7.0 9.0 7.7
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A	108 214 311 Mean =	11.0 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 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	7.0 7.0 8.0 7.3

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							----- ZEAMA STAND #/5 FT Apr-26-24	Zeama Stunting % May-2-24	Zeama Bleching % May-2-24	Zeama Necrosis % May-2-24	Amapa Control % May-2-24	Rapra Control % May-2-24	Agrass Control % May-2-24	Molve Control % May-2-24	Zeama Hgt1 In May-6-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	1	2	3	4	5	6	7	8	9
9	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	109	10.0	0.0	0.0	0.0	99.0	65.0	99.0	99.0	7.0
	SHIELDDEX	3.33 L		1.0 oz/a	PRE B	213	12.0	0.0	0.0	0.0	99.0	99.0	0.0	99.0	7.0
	ATRAZINE	4 L		32.0 oz/a	PRE B	312	11.0	0.0	0.0	0.0	99.0	90.0	55.0	99.0	7.0
	GROUNDED			0.83 % v/v	PRE B										
				Mean =			11.0	0.0	0.0	0.0	99.0	84.7	51.3	99.0	7.0
10	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	110	11.0	0.0	0.0	0.0	99.0	85.0	99.0	99.0	7.0
	HM1821A	3.82 L		24.0 oz/a	PRE B	212	11.0	0.0	0.0	0.0	99.0	95.0	95.0	99.0	7.0
	ATRAZINE	4 L		32.0 oz/a	PRE B	314	11.0	0.0	0.0	0.0	99.0	99.0	0.0	99.0	9.0
	GROUNDED			0.83 % v/v	PRE B										
				Mean =			11.0	0.0	0.0	0.0	99.0	93.0	64.7	99.0	7.7
11	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	111	12.0	0.0	0.0	0.0	99.0	99.0	99.0	99.0	6.0
	HM1821A	3.82 L		32.0 oz/a	PRE B	211	12.0	0.0	0.0	0.0	99.0	75.0	99.0	99.0	8.0
	ATRAZINE	4 L		32.0 oz/a	PRE B	313	11.0	0.0	0.0	0.0	99.0	99.0	40.0	99.0	8.0
	GROUNDED			0.83 % v/v	PRE B										
				Mean =			11.7	0.0	0.0	0.0	99.0	91.0	79.3	99.0	7.3
12	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	112	10.0	5.0	5.0	0.0	99.0	99.0	99.0	99.0	6.0
	HM1821A	3.82 L		45.0 oz/a	PRE B	210	11.0	0.0	0.0	0.0	99.0	99.0	99.0	99.0	6.0
	ATRAZINE	4 L		32.0 oz/a	PRE B	309	10.0	0.0	0.0	0.0	99.0	99.0	99.0	99.0	6.0
	GROUNDED			0.83 % v/v	PRE B										
				Mean =			10.3	1.7	1.7	0.0	99.0	99.0	99.0	99.0	6.0
13	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	113	11.0	10.0	5.0	0.0	99.0	99.0	99.0	99.0	6.0
	ACURON	3.44 L		80.0 oz/a	PRE B	209	11.0	0.0	0.0	0.0	99.0	99.0	99.0	99.0	8.0
	GROUNDED			0.83 % v/v	PRE B	308	11.0	0.0	0.0	0.0	99.0	99.0	99.0	99.0	6.0
				Mean =			11.0	3.3	1.7	0.0	99.0	99.0	99.0	99.0	6.7
14	COUNTER	20 G		6.0 oz/1000 row-ft	INFR A	114	11.0	0.0	0.0	0.0	99.0	85.0	0.0	99.0	7.0
	BICEP II MAGNUM	5.5 L		64.0 oz/a	PRE B	208	11.0	0.0	0.0	0.0	99.0	90.0	99.0	99.0	7.0
	GROUNDED			0.83 % v/v	PRE B	310	12.0	0.0	0.0	0.0	99.0	50.0	95.0	99.0	8.0
				Mean =			11.3	0.0	0.0	0.0	99.0	75.0	64.7	99.0	7.3

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Zeama Hgt2 In May-6-24	Zeama Hgt3 In May-6-24	Zeama Hgt4 In May-6-24	Zeama Hgt5 In May-6-24	ZEAMA HEIGHT INCHES May-6-24	Zeama Stunting % May-15-24	Zeama Bleaching % May-15-24	Zeama Necrosis % May-15-24	Amapa Control % May-15-24
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	10	11	12	13	14	15	16	17	18
1	NO COUNTER NO HERBICIDE					101 207 304 Mean =	6.0 7.0 8.0 7.0	9.0 8.0 8.0 8.3	8.0 7.0 7.0 7.3	6.0 6.0 8.0 6.7	7.0 7.0 8.0 7.3	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
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 Mean =	7.0 7.0 8.0 7.3	8.0 8.0 8.0 8.0	6.0 7.0 7.0 6.7	7.0 8.0 7.0 7.3	7.0 7.4 7.6 7.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	5.0 0.0 0.0 1.7	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 PRE PRE	B B B Mean =	7.0 7.0 9.0 7.7	8.0 8.0 8.0 8.0	6.0 7.0 7.0 6.7	7.0 7.0 7.0 7.0	7.0 7.4 7.6 7.3	5.0 0.0 0.0 1.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	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 PRE PRE	B B B Mean =	7.0 8.0 8.0 7.7	8.0 9.0 7.0 8.0	8.0 8.0 8.0 8.0	6.0 7.0 8.0 7.0	7.2 8.0 7.6 7.6	5.0 0.0 0.0 1.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	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 PRE PRE	B B B Mean =	8.0 7.0 8.0 7.7	7.0 9.0 8.0 8.0	7.0 8.0 7.0 7.3	7.0 7.0 7.0 7.0	7.0 7.6 7.6 7.4	5.0 0.0 0.0 1.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	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 PRE	B B Mean =	8.0 7.0 7.0 7.3	6.0 6.0 8.0 6.7	6.0 8.0 8.0 7.3	6.0 6.0 8.0 6.7	6.4 7.2 7.4 7.0	5.0 0.0 0.0 1.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	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 Mean =	8.0 8.0 8.0 8.0	8.0 8.0 8.0 8.0	8.0 8.0 8.0 8.0	8.0 8.0 7.0 7.7	7.8 7.8 8.0 7.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	80.0 99.0 99.0 92.7
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A	108 214 311 Mean =	7.0 7.0 8.0 7.3	8.0 7.0 8.0 7.7	7.0 8.0 7.0 7.3	6.0 8.0 6.0 6.7	7.0 7.4 7.4 7.3	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

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Rapra Control % May-15-24	Agrass Control % May-15-24	Molve Control % May-15-24	Zeama Hgt1 Inches May-21-24	ZEAMA Hgt2 INCHES May-21-24	ZEAMA Hgt3 INCHES May-21-24	ZEAMA Hgt4 INCHES May-21-24	ZEAMA Hgt5 INCHES May-21-24
Trt	Treatment	Form	Form	Rate	Grow	Appl	19	20	21	22	23	24	25	26
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot								
1	NO COUNTER NO HERBICIDE					101 207 304 Mean =	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	23.0 23.0 24.0 23.3	23.0 24.0 25.0 24.0	24.0 25.0 24.0 24.3	23.0 25.0 24.0 24.0	22.0 26.0 25.0 24.3
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 Mean =	95.0 95.0 80.0 90.0	99.0 0.0 80.0 59.7	99.0 99.0 99.0 99.0	22.0 24.0 24.0 23.3	22.0 24.0 23.0 23.0	23.0 23.0 26.0 24.0	21.0 24.0 26.0 23.7	23.0 25.0 24.0 24.0
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 Mean =	85.0 15.0 90.0 63.3	99.0 95.0 65.0 86.3	99.0 99.0 99.0 99.0	22.0 22.0 26.0 23.3	23.0 23.0 25.0 23.7	23.0 23.0 24.0 23.3	23.0 22.0 25.0 23.3	22.0 22.0 24.0 22.7
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 Mean =	75.0 95.0 90.0 86.7	90.0 95.0 20.0 68.3	99.0 99.0 99.0 99.0	22.0 21.0 24.0 22.3	24.0 24.0 26.0 24.7	23.0 24.0 26.0 24.3	21.0 22.0 25.0 22.7	21.0 23.0 23.0 22.3
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 Mean =	95.0 85.0 90.0 90.0	95.0 99.0 99.0 97.7	99.0 99.0 99.0 99.0	23.0 22.0 24.0 23.0	22.0 21.0 24.0 22.3	23.0 23.0 23.0 23.0	24.0 25.0 25.0 24.7	23.0 25.0 27.0 25.0
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE PRE	B B Mean =	95.0 75.0 95.0 88.3	95.0 95.0 99.0 96.3	99.0 99.0 99.0 99.0	23.0 24.0 24.0 23.7	22.0 24.0 24.0 23.3	23.0 24.0 26.0 24.3	22.0 24.0 23.0 23.0	23.0 22.0 23.0 22.7
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE PRE	B B Mean =	85.0 70.0 75.0 76.7	30.0 80.0 75.0 61.7	99.0 90.0 99.0 96.0	24.0 23.0 26.0 24.3	25.0 23.0 28.0 25.3	25.0 26.0 27.0 26.0	24.0 26.0 26.0 25.3	23.0 25.0 25.0 24.3
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A	108 214 311 Mean =	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	24.0 24.0 22.0 23.3	24.0 26.0 24.0 24.7	23.0 26.0 27.0 25.3	25.0 25.0 26.0 25.3	23.0 23.0 27.0 24.3

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Rapra Control % May-15-24	Agrass Control % May-15-24	Molve Control % May-15-24	Zeama Hgt1 Inches May-21-24	ZEAMA Hgt2 INCHES May-21-24	ZEAMA Hgt3 INCHES May-21-24	ZEAMA Hgt4 INCHES May-21-24	ZEAMA Hgt5 INCHES May-21-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	19	20	21	22	23	24	25	26
9	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	109		65.0	95.0	99.0	23.0	24.0	25.0	24.0	23.0
	SHIELDX	3.33 L	1.0 oz/a	PRE B	213		85.0	0.0	99.0	26.0	27.0	25.0	26.0	25.0
	ATRAZINE	4 L	32.0 oz/a	PRE B	312		80.0	85.0	99.0	28.0	26.0	25.0	26.0	25.0
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		76.7	60.0	99.0	25.7	25.7	25.0	25.3	24.3
10	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	110		65.0	99.0	99.0	24.0	26.0	25.0	24.0	23.0
	HM1821A	3.82 L	24.0 oz/a	PRE B	212		80.0	90.0	99.0	26.0	26.0	26.0	24.0	23.0
	ATRAZINE	4 L	32.0 oz/a	PRE B	314		95.0	20.0	99.0	24.0	24.0	25.0	26.0	26.0
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		80.0	69.7	99.0	24.7	25.3	25.3	24.7	24.0
11	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	111		80.0	99.0	99.0	24.0	24.0	25.0	24.0	23.0
	HM1821A	3.82 L	32.0 oz/a	PRE B	211		70.0	90.0	99.0	23.0	23.0	24.0	24.0	23.0
	ATRAZINE	4 L	32.0 oz/a	PRE B	313		95.0	65.0	99.0	28.0	27.0	25.0	24.0	23.0
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		81.7	84.7	99.0	25.0	24.7	24.7	24.0	23.0
12	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	112		90.0	95.0	99.0	22.0	25.0	25.0	23.0	22.0
	HM1821A	3.82 L	45.0 oz/a	PRE B	210		80.0	99.0	99.0	24.0	25.0	24.0	24.0	23.0
	ATRAZINE	4 L	32.0 oz/a	PRE B	309		95.0	99.0	99.0	26.0	25.0	26.0	26.0	25.0
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		88.3	97.7	99.0	24.0	25.0	25.0	24.3	23.3
13	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	113		95.0	90.0	99.0	22.0	22.0	23.0	23.0	23.0
	ACURON	3.44 L	80.0 oz/a	PRE B	209		95.0	99.0	99.0	25.0	25.0	24.0	24.0	25.0
	GROUNDED		0.83 % v/v	PRE B	308		85.0	99.0	99.0	26.0	27.0	25.0	27.0	24.0
					Mean =		91.7	96.0	99.0	24.3	24.7	24.0	24.7	24.0
14	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	114		90.0	0.0	99.0	26.0	24.0	25.0	24.0	23.0
	BICEP II MAGNUM	5.5 L	64.0 oz/a	PRE B	208		65.0	90.0	99.0	25.0	27.0	28.0	25.0	26.0
	GROUNDED		0.83 % v/v	PRE B	310		20.0	75.0	99.0	23.0	26.0	28.0	23.0	24.0
					Mean =		58.3	55.0	99.0	24.7	25.7	27.0	24.0	24.3

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							ZEAMA AVG HGT INCHES May-21-24	Zeama Stunt % May-27-24	Amapa Control % May-27-24	Rapra Control % May-27-24	Agrass Control % May-27-24	Molve Control % May-27-24	----- ZEAMA YIELD LBS/PLOT Aug-30-24	----- ZEAMA YIELD BU/A Aug-30-24
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	27	28	29	30	31	32	33	34
1	NO COUNTER NO HERBICIDE					101 207 304 Mean =	23.0 24.6 24.4 24.0	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	26.0 19.0 28.0 24.3	133.6 97.6 143.8 125.0
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 Mean =	22.2 24.0 24.6 23.6	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	95.0 95.0 70.0 86.7	99.0 50.0 65.0 71.3	65.0 99.0 70.0 78.0	31.0 19.0 29.0 26.3	159.2 97.6 149.0 135.3
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 Mean =	22.6 22.4 24.8 23.3	5.0 5.0 0.0 3.3	99.0 99.0 85.0 94.3	90.0 40.0 90.0 73.3	95.0 99.0 65.0 86.3	65.0 99.0 90.0 84.7	42.0 32.0 24.0 32.7	215.7 164.4 123.3 167.8
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 Mean =	22.2 22.8 24.8 23.3	10.0 0.0 10.0 6.7	95.0 99.0 99.0 97.7	95.0 85.0 95.0 91.7	90.0 95.0 50.0 78.3	95.0 95.0 99.0 96.3	35.0 27.0 25.0 29.0	179.8 138.7 128.4 149.0
5	NO COUNTER HM1821A ATRAZINE GROUNDED	3.82 L 4 L		45.0 oz/a 32.0 oz/a 0.83 % v/v	PRE PRE PRE	B B B Mean =	23.0 23.2 24.6 23.6	5.0 5.0 5.0 5.0	99.0 95.0 99.0 97.7	90.0 85.0 90.0 88.3	95.0 99.0 90.0 94.7	99.0 99.0 99.0 99.0	26.0 32.0 46.0 34.7	133.6 164.4 236.3 178.1
6	NO COUNTER ACURON GROUNDED	3.44 L		80.0 oz/a 0.83 % v/v	PRE PRE	B B Mean =	22.6 23.6 24.0 23.4	5.0 0.0 5.0 3.3	99.0 99.0 99.0 99.0	95.0 65.0 90.0 83.3	95.0 99.0 99.0 97.7	85.0 95.0 95.0 91.7	21.0 44.0 39.0 34.7	107.9 226.0 200.3 178.1
7	NO COUNTER BICEP II MAGNUM GROUNDED	5.5 L		64.0 oz/a 0.83 % v/v	PRE PRE	B B Mean =	24.2 24.6 26.4 25.1	0.0 0.0 0.0 0.0	85.0 99.0 99.0 94.3	95.0 90.0 85.0 90.0	50.0 80.0 60.0 63.3	95.0 99.0 65.0 86.3	23.0 40.0 30.0 31.0	118.1 205.5 154.1 159.2
8	COUNTER NO HERBICIDE	20 G		6.0 oz/1000 row-ft	INFR A	108 214 311 Mean =	23.8 24.8 25.2 24.6	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	38.0 13.0 26.0 25.7	195.2 66.8 133.6 131.8

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES

IN FIELD CORN-YEAR 2

Trial ID: CN-03A-24 Study Dir.: ZACH TAYLOR/NICK SHAY

Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							ZEAMA AVG HGT INCHES May-21-24	Zeama Stunt % May-27-24	Amapa Control % May-27-24	Rapra Control % May-27-24	Agrass Control % May-27-24	Molve Control % May-27-24	----- ZEAMA YIELD LBS/PLOT Aug-30-24	----- ZEAMA YIELD BU/A Aug-30-24
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	27	28	29	30	31	32	33	34
9	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	109		23.8	0.0	95.0	50.0	90.0	95.0	32.0	164.4
	SHIELDX	3.33 L	1.0 oz/a	PRE B	213		25.8	0.0	99.0	65.0	40.0	95.0	26.0	133.6
	ATRAZINE	4 L	32.0 oz/a	PRE B	312		26.0	5.0	99.0	90.0	80.0	90.0	21.0	107.9
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		25.2	1.7	97.7	68.3	70.0	93.3	26.3	135.3
10	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	110		24.4	10.0	99.0	60.0	95.0	95.0	33.0	169.5
	HM1821A	3.82 L	24.0 oz/a	PRE B	212		25.0	5.0	99.0	80.0	90.0	90.0	28.0	143.8
	ATRAZINE	4 L	32.0 oz/a	PRE B	314		25.0	0.0	90.0	95.0	50.0	99.0	21.0	107.9
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		24.8	5.0	96.0	78.3	78.3	94.7	27.3	140.4
11	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	111		24.0	5.0	99.0	65.0	95.0	99.0	36.0	184.9
	HM1821A	3.82 L	32.0 oz/a	PRE B	211		23.4	0.0	99.0	65.0	90.0	95.0	34.0	174.6
	ATRAZINE	4 L	32.0 oz/a	PRE B	313		25.4	0.0	99.0	90.0	60.0	99.0	20.0	102.7
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		24.3	1.7	99.0	73.3	81.7	97.7	30.0	154.1
12	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	112		23.4	5.0	99.0	90.0	99.0	90.0	27.0	138.7
	HM1821A	3.82 L	45.0 oz/a	PRE B	210		24.0	10.0	99.0	90.0	99.0	95.0	35.0	179.8
	ATRAZINE	4 L	32.0 oz/a	PRE B	309		25.6	0.0	99.0	90.0	95.0	95.0	34.0	174.6
	GROUNDED		0.83 % v/v	PRE B										
					Mean =		24.3	5.0	99.0	90.0	97.7	93.3	32.0	164.4
13	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	113		22.6	10.0	99.0	95.0	85.0	99.0	24.0	123.3
	ACURON	3.44 L	80.0 oz/a	PRE B	209		24.6	0.0	99.0	90.0	99.0	95.0	44.0	226.0
	GROUNDED		0.83 % v/v	PRE B	308		25.8	0.0	99.0	90.0	95.0	99.0	45.0	231.1
					Mean =		24.3	3.3	99.0	91.7	93.0	97.7	37.7	193.5
14	COUNTER	20 G	6.0 oz/1000 row-ft	INFR A	114		24.4	5.0	90.0	90.0	25.0	99.0	21.0	107.9
	BICEP II MAGNUM	5.5 L	64.0 oz/a	PRE B	208		26.2	0.0	9.0	85.0	90.0	85.0	45.0	231.1
	GROUNDED		0.83 % v/v	PRE B	310		24.8	0.0	99.0	65.0	60.0	65.0	31.0	159.2
					Mean =		25.1	1.7	66.0	80.0	58.3	83.0	32.3	166.1

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COUNTER 20G EFFECTS ON PREEMERGENCE HERBICIDES IN FIELD CORN-YEAR 2	
Trial ID: CN-03A-24	Study Dir.: ZACH TAYLOR/NICK SHAY
Location: PONDER FARM	Investigator: Eric P. Prostko
<u>Rating Unit</u> % = PERCENT In = INCH <u>ARM Action Codes</u> T1 = ([9]+[10]+[11]+[12]+[13])/5 T2 = ([22]+[23]+[24]+[25]+[26])/5 TY3 = 5.13661877*[33]	