

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Reps: 4		Plots: 6 by 25 feet												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Appl. Amount	Mix Size	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NO COUNTER NTC									- -	101	205	304	403
2	NO COUNTER SHIELDEX ATRAZINE ROUNDUP POWERMAX3	3.33 4 L 5.88 SL	SC SL	1.0 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A		15 GPA 15 GPA 15 GPA	1.5 L 1.5 L 1.5 L	0.7812 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1457.0 mL	102	203	305	401
3	NO COUNTER SHIELDEX ATRAZINE ROUNDUP POWERMAX3	3.33 4 L 5.88 SL	SC SL	1.35 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A		15 GPA 15 GPA 15 GPA	1.5 L 1.5 L 1.5 L	1.055 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1456.8 mL	103	204	301	402
4	NO COUNTER EMPYROS ATRAZINE ROUNDUP POWERMAX3	3.82 4 L 5.88 SL	L SL	45.0 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A		15 GPA 15 GPA 15 GPA	1.5 L 1.5 L 1.5 L	35.16 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1422.7 mL	104	202	302	405
5	NO COUNTER EMPYROS ATRAZINE ROUNDUP POWERMAX3	3.82 4 L 5.88 SL	L SL	32.0 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A		15 GPA 15 GPA 15 GPA	1.5 L 1.5 L 1.5 L	25.0 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1432.8 mL	105	201	303	404
6	COUNTER NTC	20 GR		6.0 oz ai/1000 row-ft	INFR		-	-	21.26 g/1 row/1 plot	- -	106	210	309	408
7	COUNTER SHIELDEX ATRAZINE ROUNDUP POWERMAX3	20 GR 3.33 SC 4 L 5.88 SL		6.0 oz ai/1000 row-ft 1.0 oz/a 32.0 oz/a 22.0 oz/a	INFR EPOST A EPOST A EPOST A		- 15 GPA 15 GPA 15 GPA	- 1.5 L 1.5 L 1.5 L	21.26 g/1 row/1 plot 0.7812 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1457.0 mL	107	209	310	406
8	COUNTER SHIELDEX ATRAZINE ROUNDUP POWERMAX3	20 GR 3.33 SC 4 L 5.88 SL		6.0 oz ai/1000 row-ft 1.35 oz/a 32.0 oz/a 22.0 oz/a	INFR EPOST A EPOST A EPOST A		- 15 GPA 15 GPA 15 GPA	- 1.5 L 1.5 L 1.5 L	21.26 g/1 row/1 plot 1.055 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1456.8 mL	108	207	306	407
9	COUNTER EMPYROS ATRAZINE ROUNDUP POWERMAX3	20 GR 3.82 L 4 L 5.88 SL		6.0 oz ai/1000 row-ft 45.0 oz/a 32.0 oz/a 22.0 oz/a	INFR EPOST A EPOST A EPOST A		- 15 GPA 15 GPA 15 GPA	- 1.5 L 1.5 L 1.5 L	21.26 g/1 row/1 plot 35.16 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1422.7 mL	109	208	307	410
10	COUNTER EMPYROS ATRAZINE ROUNDUP POWERMAX3	20 GR 3.82 L 4 L 5.88 SL		6.0 oz ai/1000 row-ft 32.0 oz/a 32.0 oz/a 22.0 oz/a	INFR EPOST A EPOST A EPOST A		- 15 GPA 15 GPA 15 GPA	- 1.5 L 1.5 L 1.5 L	21.26 g/1 row/1 plot 25.0 mL/mx 25.0 mL/mx 17.19 mL/mx	- 1432.8 mL	110	206	308	409

Sort Order: Treatment

University of Georgia

COUNTER WITH SHIELDDEX OR EMPYROS
IN FIELD CORN

Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR
Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

HM1821A = EMPYROS = TOLPYRALATE (0.1 LBS AI/GAL) + S-METOLACHLOR (3.72 LBS AI/GAL) + BENOXACOR

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

HARVEST MOISTURE: 16.63%

YIELDS ADJUSTED TO 15.5%

SUMMARY:

1) AT 7 DAT, CORN BLEACHING WAS INCREASED WHEN COUNTER WAS USED IN FURROW WITH SHIELDDEX @ 1.35 OZ/A AND BOTH RATES OF EMPYROS. BY 14 DAT, THIS EFFECT WAS NOT OBSERVED.

2) AT 14 DAT, ALL HERBICIDE TREATMENTS CAUSED SLIGHT CORN STUNTING (7-11%). STUNTING WAS NOT OBSERVED AT 27 DAT. COUNTER HAD NO EFFECT ON CORN STUNTING.

3) AT 27 DAT, ALL TREATMENTS PROVIDED >95% CONTROL OF PALMER AMARANTH, WILD RADISH, AND ANNUAL GRASSES.

4) AT 43 DAT, AVERAGE CORN HEIGHTS WERE NOT INFLUENCED BY COUNTER (P=0.4193). CORN PLANT HEIGHTS WERE GREATER IN ALL HERBICIDE TREATED PLOTS IN COMPARISON TO THE NTC EXCEPT FOR THE HIGHER RATE (45 OZ/A) OF EMPYROS.

5) AT 49 DAT, ALL HERBICIDE TREATMENTS PROVIDED >99% CONTROL OF PALMER AMARANTH.

6) AT 49 DAT, ALL HERBICIDE TREATMENTS PROVIDED >90% CONTROL OF ANNUAL GRASSES EXCEPT THE 1.0 OZ/A RATE OF SHIELDDEX (83% CONTROL).

7) FOR CORN YIELD, THERE WAS NO INTERACTION BETWEEN COUNTER AND EPOST APPLIED HERBICIDES (P=0.4813). WHEN AVERAGED OVER HERBICIDES, COUNTER HAD NO EFFECT ON YIELD (P=0.6011). WHEN AVERAGED OVER COUNTER RATES, ALL TREATMENTS SIGNIFICANTLY IMPROVED YIELD WITH NO DIFFERENCES BETWEEN TREATMENTS.

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COUNTER WITH SHIELDEX OR EMPYROS
IN FIELD CORN

Trial ID: CN-03-22 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.	AGRASS	TX	APN/CRB/GOOSE/CROW
2.	AMAPA	PA	LMER AMARANTH
3.	RAPRA	WI	LD RADISH
4.	MOLVE	CA	RPETWEED

Crop 1: ZEAMA FIELD CORN **Variety:** DKC-6895
Planting Date: Mar-28-22 **Planting Method:** MONOSEM
Rate: 36300 S/A **Depth:** 2 IN **Perennial Age:** _____
Row Spacing: _____ **Spacing Within Row:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** NORMAL **Emergence Date:** _____

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COUNTER WITH SHIELDEX OR EMPYROS
IN FIELD CORN

Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR
Location: PONDER FARM Investigator: Eric P. Prostko

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		2021

MAINTENANCE

Field Prep./Maintenance: 1.5 TONS/A LIME -PREPLANT (03/16/22)

700 LBS/A 5-15-30-PREPLANT(03/28/22)

131-0-0-16 SIDEDRESS ON APRIL 21 AND MAY 4

AXILO BMZ @ 2 LBS/A ON APRIL 26

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

SOIL DESCRIPTION

% Sand: 96 % OM: 0.82 **Texture:** SAND
% Silt: 2 pH: 6.0 **Soil Name:** TIFTON
% Clay: 2 CEC: 2.9 **Fert. Level:** GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

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COUNTER WITH SHIELDEX OR EMPYROS

IN FIELD CORN

Trial ID: CN-03-22

Study Dir.: ZACH TAYLOR

Location: PONDER FARM

Investigator: Eric P. Prostko

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-29-22		0.4	IN	SPRINKLER - LATERAL MOVE		
2.	Mar-31-22		1.65	IN	RAINFALL		
3.	Apr-5-22		1.36	IN	RAINFALL		
4.	Apr-6-22		0.43	IN	RAINFALL		
5.	Apr-17-22		0.16	IN	RAINFAL		
6.	Apr-18-22		0.53	IN	RAINFALL		
7.	Apr-27-22		0.3	IN	SPRINKLER - LATERAL MOVE		
8.	Apr-28-22		0.5	IN	SPRINKLER - LATERAL MOVE		
9.	May-2-22		0.5	IN	SPRINKLER - LATERAL MOVE		
10.	May-3-22		0.3	IN	SPRINKLER - LATERAL MOVE		
11.	May-5-22		0.3	IN	SPRINKLER - LATERAL MOVE		
12.	May-6-22		0.45	IN	RAINFALL		
13.	May-10-22		0.38	IN	SPRINKLER - LATERAL MOVE		
14.	May-12-22		0.4	IN	SPRINKLER - LATERAL MOVE		
15.	May-16-22		0.5	IN	SPRINKLER - LATERAL MOVE		
16.	May-24-22		0.5	IN	SPRINKLER - LATERAL MOVE		
17.	May-24-22		1.8	IN	RAINFALL		
18.	Jun-1-22		0.6	IN	SPRINKLER - LATERAL MOVE		
19.	Jun-7-22		0.5	IN	SPRINKLER - LATERAL MOVE		

Overall Moisture Conditions:

Closest Weather Station: _____ Distance: _____ Unit: _____

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IN FIELD CORN

Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR
Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A
Application Date:	Apr-20-22
Time of Day:	7:57 AM
Application Method:	BROADCAST
Application Timing:	EPOST
Applic. Placement:	FOLIAGE
Air Temp., Unit:	46 F
% Relative Humidity:	84
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	50 F
Soil Moisture:	OPTIMUM
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ZEAMA,
Stage Scale:	V4
Height, Unit:	6, IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AGRAS,
Stage Scale:	1-2"
Density, Unit:	
Weed 2 Code, Stage:	AMAPA,
Stage Scale:	1-2"
Density, Unit:	
Weed 3 Code, Stage:	RAPRA,
Stage Scale:	1-3"
Density, Unit:	
Weed 4 Code, Stage:	MOLVE,
Stage Scale:	
Density, Unit:	

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IN FIELD CORN	
Trial ID: CN-03-22	Study Dir.: ZACH TAYLOR
Location: PONDER FARM	Investigator: Eric P. Prostko

APPLICATION EQUIPMENT	
	A
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:	20 IN
Boom Height, Unit:	20 IN
Ground Speed, Unit:	
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-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko									
Weed Code	-----	-----	-----	Amapa	Rapra	Agrass	Molve	-----	-----
Crop Code	Zeama	Zeama	Zeama	-----	-----	-----	-----	Zeama	Zeama
Part Rated	Stunting	Bleaching	Necrosis	Control	Control	Control	Control	Stunting	Bleaching
Rating Data Type	%	%	%	%	%	%	%	%	%
Rating Unit	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	May-4-22	May-4-22
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									
Replicate 4									
TABLE OF A (COUNTER) MEANS									
1 NO COUNTER									
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft INFR							
LSD P=.10									
Standard Deviation									
CV									
TABLE OF B (HERBICIDE) MEANS									
1 NTC									
2 SHIELDEX	3.33 SC	1.0 oz/a	EPOST A						
2 ATRAZINE	4 L	32.0 oz/a	EPOST A						
2 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
3 SHIELDEX	3.33 SC	1.35 oz/a	EPOST A						
3 ATRAZINE	4 L	32.0 oz/a	EPOST A						
3 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
4 EMPYROS	3.82 L	45.0 oz/a	EPOST A						
4 ATRAZINE	4 L	32.0 oz/a	EPOST A						
4 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
5 EMPYROS	3.82 L	32.0 oz/a	EPOST A						
5 ATRAZINE	4 L	32.0 oz/a	EPOST A						
5 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
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.

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN									
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko									
Weed Code	-----	-----	-----	Amapa	Rapra	Agrass	Molve	-----	-----
Crop Code	Zeama	Zeama	Zeama	-----	-----	-----	-----	Zeama	Zeama
Part Rated	Stunting	Bleaching	Necrosis	Control	Control	Control	Control	Stunting	Bleaching
Rating Data Type	%	%	%	%	%	%	%	%	%
Rating Unit	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	May-4-22	May-4-22
Rating Date									
Trt Treatment	Form Form	Rate	Grow	Appl					
No. Name	Conc Type Rate Unit		Stg	Code					
CV	1	2	3	4	5	6	7	8	9
	47.36	32.99	0.00	0.00	0.00	5.65	0.00	69.69	62.96
TABLE OF A (COUNTER) B (HERBICIDE) MEANS									
1 NO COUNTER									
1 NTC	0.0 a	0.0 f	0.0 a	0.0 b	0.0 b	0.0 a	0.0 b	0.0 a	0.0 a
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft INFR							
1 NTC	5.0 a	0.0 f	0.0 a	0.0 b	0.0 b	0.0 a	0.0 b	0.0 a	0.0 a
1 NO COUNTER									
2 SHIELDEX	3.33 SC	1.0 oz/a	EPOST A						
2 ATRAZINE	4 L	32.0 oz/a	EPOST A						
2 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft INFR							
2 SHIELDEX	3.33 SC	1.0 oz/a	EPOST A						
2 ATRAZINE	4 L	32.0 oz/a	EPOST A						
2 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
1 NO COUNTER									
3 SHIELDEX	3.33 SC	1.35 oz/a	EPOST A						
3 ATRAZINE	4 L	32.0 oz/a	EPOST A						
3 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft INFR							
3 SHIELDEX	3.33 SC	1.35 oz/a	EPOST A						
3 ATRAZINE	4 L	32.0 oz/a	EPOST A						
3 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
1 NO COUNTER									
4 EMPYROS	3.82 L	45.0 oz/a	EPOST A						
4 ATRAZINE	4 L	32.0 oz/a	EPOST A						
4 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						

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

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Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko									
Weed Code									
Crop Code									
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
Trt Treatment	Form Form	Rate	Grow	Appl					
No. Name	Conc Type	Rate Unit	Stg	Code					
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft	INFR		1	2	3	4	5
4 EMPYROS	3.82 L	45.0 oz/a	EPOST A						
4 ATRAZINE	4 L	32.0 oz/a	EPOST A						
4 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
1 NO COUNTER					11.3 a	11.3 c	0.0 a	99.0 a	99.0 a
5 EMPYROS	3.82 L	32.0 oz/a	EPOST A						
5 ATRAZINE	4 L	32.0 oz/a	EPOST A						
5 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft	INFR		10.0 a	17.5 b	0.0 a	99.0 a	99.0 a
5 EMPYROS	3.82 L	32.0 oz/a	EPOST A						
5 ATRAZINE	4 L	32.0 oz/a	EPOST A						
5 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						
LSD P=.10					4.55	2.41	.	.	3.97
Standard Deviation					3.61	1.91	0.00	0.00	3.15
CV					43.09	20.93	0.00	0.00	4.09

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Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko															
Weed Code					----- Zeama	Amapa -----	Rapra -----	Agrass -----	----- Zeama Plant, - Stunting	Amapa -----	Rapra -----	Agrass -----	----- Zeama Plant, - Ht1		
Crop Code					Necrosis	Control	Control	Control	Control	Control	Control	Control	Ht1		
Part Rated					%	%	%	%	%	%	%	%	In		
Rating Data Type					May-4-22	May-4-22	May-4-22	May-4-22	May-17-22	May-17-22	May-17-22	May-17-22	Jun-2-22		
Rating Unit															
Rating Date															
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate Unit	Stg	Code	10	11	12	13	14	15	16	17	18
TABLE OF R MEANS															
Replicate 1							0.0	79.2	79.2	77.6	2.0	79.2	79.2	78.0	68.75
Replicate 2							0.0	79.2	79.2	78.0	3.0	79.2	79.2	78.8	69.50
Replicate 3							0.0	79.2	79.2	77.5	2.5	79.2	79.2	77.4	74.05
Replicate 4							0.0	79.2	79.2	78.3	4.0	79.2	79.2	77.2	70.80
TABLE OF A (COUNTER) MEANS															
1 NO COUNTER							0.0 a	79.2 a	79.2 a	78.0 a	2.5 a	79.2 a	79.2 a	78.0 a	71.65 a
2 COUNTER 20 GR 6.0 oz ai/1000 row-ft INFR							0.0 a	79.2 a	79.2 a	77.7 a	3.3 a	79.2 a	79.2 a	77.7 a	69.90 a
LSD P=.10							.	.	.	2.34	2.61	.	.	1.60	3.219
Standard Deviation							0.00	0.00	0.00	3.15	3.51	0.00	0.00	2.15	4.325
CV							0.00	0.00	0.00	4.04	121.95	0.00	0.00	2.76	6.111
TABLE OF B (HERBICIDE) MEANS															
1 NTC							0.0 a	0.0 b	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b	0.0 b	62.81 b
2	SHIELDEX	3.33 SC	1.0 oz/a		EPOST A		0.0 a	99.0 a	99.0 a	95.8 a	1.9 a	99.0 a	99.0 a	95.3 a	74.88 a
2	ATRAZINE	4 L	32.0 oz/a		EPOST A										
2	ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a		EPOST A										
3	SHIELDEX	3.33 SC	1.35 oz/a		EPOST A		0.0 a	99.0 a	99.0 a	98.0 a	3.1 a	99.0 a	99.0 a	98.0 a	73.69 a
3	ATRAZINE	4 L	32.0 oz/a		EPOST A										
3	ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a		EPOST A										
4	EMPYROS	3.82 L	45.0 oz/a		EPOST A		0.0 a	99.0 a	99.0 a	97.5 a	5.0 a	99.0 a	99.0 a	98.0 a	70.75 a
4	ATRAZINE	4 L	32.0 oz/a		EPOST A										
4	ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a		EPOST A										
5	EMPYROS	3.82 L	32.0 oz/a		EPOST A		0.0 a	99.0 a	99.0 a	98.0 a	4.4 a	99.0 a	99.0 a	98.0 a	71.75 a
5	ATRAZINE	4 L	32.0 oz/a		EPOST A										
5	ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a		EPOST A										
LSD P=.10							.	.	.	2.34	3.91	.	.	2.93	6.057
Standard Deviation							0.00	0.00	0.00	2.62	4.39	0.00	0.00	3.29	6.796

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Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko													
Weed Code													
Crop Code													
Part Rated													
Rating Data Type													
Rating Unit													
Rating Date													
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate Unit	Stg	Code	10	11	12	13	14	15	16
CV							0.00	0.00	0.00	3.37	152.69	0.00	0.00
TABLE OF A (COUNTER) B (HERBICIDE) MEANS													
1	NO COUNTER						0.0 a	0.0 b	0.0 b	0.0 a	0.0 a	0.0 b	0.0 b
1	NTC												
2	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR		0.0 a	0.0 b	0.0 b	0.0 a	0.0 a	0.0 b	0.0 b
1	NTC												
1	NO COUNTER						0.0 a	99.0 a	99.0 a	97.0 a	1.3 a	99.0 a	99.0 a
2	SHIELDEX	3.33 SC		1.0 oz/a	EPOST A								
2	ATRAZINE	4 L		32.0 oz/a	EPOST A								
2	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A								
2	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR		0.0 a	99.0 a	99.0 a	94.5 a	2.5 a	99.0 a	99.0 a
2	SHIELDEX	3.33 SC		1.0 oz/a	EPOST A								
2	ATRAZINE	4 L		32.0 oz/a	EPOST A								
2	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A								
1	NO COUNTER						0.0 a	99.0 a	99.0 a	98.0 a	1.3 a	99.0 a	99.0 a
3	SHIELDEX	3.33 SC		1.35 oz/a	EPOST A								
3	ATRAZINE	4 L		32.0 oz/a	EPOST A								
3	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A								
2	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR		0.0 a	99.0 a	99.0 a	98.0 a	5.0 a	99.0 a	99.0 a
3	SHIELDEX	3.33 SC		1.35 oz/a	EPOST A								
3	ATRAZINE	4 L		32.0 oz/a	EPOST A								
3	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A								
1	NO COUNTER						0.0 a	99.0 a	99.0 a	98.0 a	5.0 a	99.0 a	99.0 a
4	EMPYROS	3.82 L		45.0 oz/a	EPOST A								
4	ATRAZINE	4 L		32.0 oz/a	EPOST A								
4	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A								

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

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN									
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko									
Weed Code									
Crop Code									
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
Trt Treatment	Form Form	Rate	Grow	Appl					
No. Name	Conc Type	Rate Unit	Stg	Code					
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft	INFR		10	11	12	13	14
4 EMPYROS	3.82 L	45.0 oz/a	EPOST A		0.0 a	99.0 a	99.0 a	97.0 a	5.0 a
4 ATRAZINE	4 L	32.0 oz/a	EPOST A						99.0 a
4 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						99.0 a
1 NO COUNTER					0.0 a	99.0 a	99.0 a	97.0 a	5.0 a
5 EMPYROS	3.82 L	32.0 oz/a	EPOST A						99.0 a
5 ATRAZINE	4 L	32.0 oz/a	EPOST A						99.0 a
5 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						97.0 b
2 COUNTER	20 GR	6.0 oz ai/1000 row-ft	INFR		0.0 a	99.0 a	99.0 a	99.0 a	3.8 a
5 EMPYROS	3.82 L	32.0 oz/a	EPOST A						99.0 a
5 ATRAZINE	4 L	32.0 oz/a	EPOST A						99.0 a
5 ROUNDUP POWERMAX3	5.88 SL	22.0 oz/a	EPOST A						99.0 a
LSD P=.10									
Standard Deviation					0.00	0.00	0.00	2.54	3.48
CV					0.00	0.00	0.00	2.02	2.76
								2.59	95.92
									0.00
									0.00
									1.91
									7.341
									1.52
									5.825
									1.95
									8.231

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 WITH SHIELDEX OR EMPYROS IN FIELD CORN															
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko															
Weed Code					-----	-----	-----	-----	-----	Amapa	Agrass	-----	-----		
Crop Code					Zeama	Zeama	Zeama	Zeama	ZEAMA			ZEAMA	ZEAMA		
Part Rated					Plant, -	Plant, -	Plant, -	Plant, -	PLANT, -			PLOT, -	PLOT, -		
Rating Data Type					Ht2	Ht3	Ht4	Ht5	HGT-AVG	Control	Control	YIELD	YIELD		
Rating Unit					In	In	In	In	IN	%	%	LBS/PLOT	BU/A		
Rating Date					Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-8-22	Jun-8-22	Aug-31-22	Aug-31-22		
Trt Treatment		Form	Form	Rate	Grow	Appl									
No. Name		Conc	Type	Rate Unit	Stg	Code	19	20	21	22	23	24	25	26	27
TABLE OF R MEANS															
Replicate 1							65.75	70.45	70.20	71.80	69.4	80.0	72.0	35.0	179.1
Replicate 2							67.20	68.35	69.15	69.65	68.8	80.0	74.5	36.7	187.8
Replicate 3							71.95	74.90	74.15	74.30	73.9	80.0	70.5	37.6	192.4
Replicate 4							70.20	70.60	71.95	70.85	70.9	79.5	71.0	36.1	184.7
TABLE OF A (COUNTER) MEANS															
1 NO COUNTER							69.13 a	71.55 a	71.60 a	71.40 a	71.1 a	80.0 a	72.0 a	36.1 a	184.7 a
2 COUNTER		20 GR	6.0 oz ai/1000 row-ft INFR				68.43 a	70.60 a	71.13 a	71.90 a	70.4 a	79.8 a	72.0 a	36.6 a	187.3 a
LSD P=.10							5.371	2.162	3.210	1.805	1.70	0.59	1.66	2.02	10.33
Standard Deviation							7.217	2.905	4.313	2.426	2.29	0.79	2.24	2.71	13.89
CV							10.493	4.088	6.044	3.385	3.23	0.99	3.11	7.47	7.47
TABLE OF B (HERBICIDE) MEANS															
1 NTC							59.19 b	64.75 a	64.94 a	64.13 b	63.2 b	0.0 b	0.0 c	26.1 b	133.7 b
2 SHIELDEX		3.33 SC	1.0 oz/a		EPOST A	74.69 a	75.44 a	74.13 a	76.50 a	75.1 a	99.4 a	83.1 b	38.9 a	198.9 a	
2 ATRAZINE		4 L	32.0 oz/a		EPOST A										
2 ROUNDUP POWERMAX3		5.88 SL	22.0 oz/a		EPOST A										
3 SHIELDEX		3.33 SC	1.35 oz/a		EPOST A	72.31 a	74.81 a	74.75 a	73.69 a	73.9 a	100.0 a	90.6 ab	40.8 a	208.5 a	
3 ATRAZINE		4 L	32.0 oz/a		EPOST A										
3 ROUNDUP POWERMAX3		5.88 SL	22.0 oz/a		EPOST A										
4 EMPYROS		3.82 L	45.0 oz/a		EPOST A	68.06 a	69.56 a	70.06 a	70.44 ab	69.8 ab	100.0 a	91.3 ab	37.8 a	193.1 a	
4 ATRAZINE		4 L	32.0 oz/a		EPOST A										
4 ROUNDUP POWERMAX3		5.88 SL	22.0 oz/a		EPOST A										
5 EMPYROS		3.82 L	32.0 oz/a		EPOST A	69.63 a	70.81 a	72.94 a	73.50 a	71.7 a	100.0 a	95.0 a	38.3 a	195.7 a	
5 ATRAZINE		4 L	32.0 oz/a		EPOST A										
5 ROUNDUP POWERMAX3		5.88 SL	22.0 oz/a		EPOST A										
LSD P=.10							6.845	8.229	8.451	7.287	6.66	0.70	8.18	5.26	26.90
Standard Deviation							7.682	9.234	9.484	8.178	7.47	0.79	9.18	5.90	30.18

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

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN									
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko									
Weed Code						Amapa	Agrass		
Crop Code						-----	-----		
Part Rated									
Rating Data Type						Control	Control		
Rating Unit						%	%	LBS/PLOT	BU/A
Rating Date						Jun-8-22	Jun-8-22	Aug-31-22	Aug-31-22
Trt Treatment	Form	Form	Rate	Grow	Appl				
No. Name	Conc	Type	Rate Unit	Stg	Code				
CV									
TABLE OF A (COUNTER) B (HERBICIDE) MEANS									
1 NO COUNTER									
1 NTC									
2 COUNTER	20 GR		6.0 oz ai/1000 row-ft INFR						
1 NTC									
1 NO COUNTER									
2 SHIELDEX	3.33 SC		1.0 oz/a	EPOST A					
2 ATRAZINE	4 L		32.0 oz/a	EPOST A					
2 ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A					
2 COUNTER	20 GR		6.0 oz ai/1000 row-ft INFR						
2 SHIELDEX	3.33 SC		1.0 oz/a	EPOST A					
2 ATRAZINE	4 L		32.0 oz/a	EPOST A					
2 ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A					
1 NO COUNTER									
3 SHIELDEX	3.33 SC		1.35 oz/a	EPOST A					
3 ATRAZINE	4 L		32.0 oz/a	EPOST A					
3 ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A					
2 COUNTER	20 GR		6.0 oz ai/1000 row-ft INFR						
3 SHIELDEX	3.33 SC		1.35 oz/a	EPOST A					
3 ATRAZINE	4 L		32.0 oz/a	EPOST A					
3 ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A					
1 NO COUNTER									
4 EMPYROS	3.82 L		45.0 oz/a	EPOST A					
4 ATRAZINE	4 L		32.0 oz/a	EPOST A					
4 ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A					

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

University of Georgia

COUNTER WITH SHIELDDEX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko														
Weed Code							-----	-----	-----	-----	-----	Amapa	Agrass	-----
Crop Code							Zeama	Zeama	Zeama	Zeama	ZEAMA	-----	-----	-----
Part Rated							Plant, -	Plant, -	Plant, -	Plant, -	PLANT, -	Control	Control	ZEAMA
Rating Data Type							Ht2	Ht3	Ht4	Ht5	HGT-AVG			PLOT, -
Rating Unit							In	In	In	In	IN	%	%	YIELD
Rating Date							Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-8-22	Jun-8-22	Aug-31-22
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	19	20	21	22	23	24	25	26
2	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR		68.38 a	68.50 a	70.25 a	72.13 a	69.8 a	100.0 a	92.5 a	38.5 a
4	EMPYROS	3.82 L		45.0 oz/a	EPOST A									197.0 a
4	ATRAZINE	4 L		32.0 oz/a	EPOST A									
4	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A									
1	NO COUNTER						70.00 a	70.88 a	73.75 a	72.25 a	71.4 a	100.0 a	93.8 a	38.5 a
5	EMPYROS	3.82 L		32.0 oz/a	EPOST A									197.0 a
5	ATRAZINE	4 L		32.0 oz/a	EPOST A									
5	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A									
2	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR		69.25 a	70.75 a	72.13 a	74.75 a	72.1 a	100.0 a	96.3 a	38.0 a
5	EMPYROS	3.82 L		32.0 oz/a	EPOST A									194.4 a
5	ATRAZINE	4 L		32.0 oz/a	EPOST A									
5	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A									
LSD P=.10							4.211	3.887	5.505	6.474	2.92	1.00	4.86	1.57
Standard Deviation							3.342	3.085	4.368	5.137	2.31	0.79	3.86	1.25
CV							4.859	4.340	6.121	7.170	3.27	0.99	5.36	3.43

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 WITH SHIELDEX OR EMPYROS IN FIELD CORN						
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For ----- Zeama Stunting % Apr-27-22 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	919.375000				
R	3	26.875000	8.958333	0.688	0.5765	
A	1	30.625000	30.625000	4.200	0.1328	2.0
RA	3	21.875000	7.291667			
B	4	441.250000	110.312500	7.013	0.0038	3.5
RB	12	188.750000	15.729167			
AB	4	53.750000	13.437500	1.032	0.4302	4.5
RAB	12	156.250000	13.020833			
COMPLETE FACTORIAL AOV For ----- Zeama Bleaching % Apr-27-22 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2094.375000				
R	3	31.875000	10.625000	2.914	0.0779	
A	1	50.625000	50.625000	6.943	0.0780	2.0
RA	3	21.875000	7.291667			
B	4	1766.250000	441.562500	48.724	0.0001	2.7
RB	12	108.750000	9.062500			
AB	4	71.250000	17.812500	4.886	0.0143	2.4
RAB	12	43.750000	3.645833			
COMPLETE FACTORIAL AOV For ----- Zeama Necrosis % Apr-27-22 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	0.000000	0.000000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	0.000000	0.000000			
COMPLETE FACTORIAL AOV For Amapa ----- Control % Apr-27-22 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	62726.400000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	62726.400000	15681.600000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	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.

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN							
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR					
Location: PONDER FARM		Investigator: Eric P. Prostko					
COMPLETE FACTORIAL AOV For Rapra ----- Control % Apr-27-22 (Data Column 5)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	39	62726.400000					
R	3	0.000000	0.000000	0.000	1.0000		
A	1	0.000000	0.000000	0.000	1.0000		.
RA	3	0.000000	0.000000				
B	4	62726.400000	15681.600000	0.000	1.0000		.
RB	12	0.000000	0.000000				
AB	4	0.000000	0.000000	0.000	1.0000		.
RAB	12	0.000000	0.000000				
COMPLETE FACTORIAL AOV For Agrass ----- Control % Apr-27-22 (Data Column 6)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	39	59869.900000					
R	3	63.500000	21.166667	2.134	0.1492		
A	1	32.400000	32.400000	30.375	0.0118		0.8
RA	3	3.200000	1.066667				
B	4	59401.650000	14850.412500	785.909	0.0001		3.9
RB	12	226.750000	18.895833				
AB	4	23.350000	5.837500	0.588	0.6774		4.0
RAB	12	119.050000	9.920833				
COMPLETE FACTORIAL AOV For Molve ----- Control % Apr-27-22 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	39	62726.400000					
R	3	0.000000	0.000000	0.000	1.0000		
A	1	0.000000	0.000000	0.000	1.0000		.
RA	3	0.000000	0.000000				
B	4	62726.400000	15681.600000	0.000	1.0000		.
RB	12	0.000000	0.000000				
AB	4	0.000000	0.000000	0.000	1.0000		.
RAB	12	0.000000	0.000000				
COMPLETE FACTORIAL AOV For ----- Zeama Stunting % May-4-22 (Data Column 8)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	39	1747.500000					
R	3	312.500000	104.166667	9.804	0.0015		
A	1	90.000000	90.000000	3.176	0.1727		4.0
RA	3	85.000000	28.333333				
B	4	685.000000	171.250000	5.871	0.0074		4.8
RB	12	350.000000	29.166667				
AB	4	97.500000	24.375000	2.294	0.1192		4.1
RAB	12	127.500000	10.625000				

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 WITH SHIELDEX OR EMPYROS IN FIELD CORN						
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For ----- Zeama Bleaching % May-4-22 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	299.375000				
R	3	21.875000	7.291667	3.500	0.0496	
A	1	5.625000	5.625000	0.771	0.4444	2.0
RA	3	21.875000	7.291667			
B	4	152.500000	38.125000	7.320	0.0032	2.0
RB	12	62.500000	5.208333			
AB	4	10.000000	2.500000	1.200	0.3605	1.8
RAB	12	25.000000	2.083333			
COMPLETE FACTORIAL AOV For ----- Zeama Necrosis % May-4-22 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	0.000000	0.000000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	0.000000	0.000000			
COMPLETE FACTORIAL AOV For Amapa ----- Control % May-4-22 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	62726.400000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	62726.400000	15681.600000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	0.000000	0.000000			
COMPLETE FACTORIAL AOV For Rapra ----- Control % May-4-22 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	62726.400000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	62726.400000	15681.600000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	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.

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN						
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For Agrass ----- Control % May-4-22 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	60821.100000				
R	3	4.100000	1.366667	0.336	0.7996	
A	1	0.900000	0.900000	0.091	0.7827	2.3
RA	3	29.700000	9.900000			
B	4	60633.600000	15158.400000	2207.534	0.0001	2.3
RB	12	82.400000	6.866667			
AB	4	21.600000	5.400000	1.328	0.3152	2.5
RAB	12	48.800000	4.066667			
COMPLETE FACTORIAL AOV For ----- Zeama Plant Stunting % May-17-22 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	544.375000				
R	3	21.875000	7.291667	0.959	0.4435	
A	1	5.625000	5.625000	0.458	0.5472	2.6
RA	3	36.875000	12.291667			
B	4	128.750000	32.187500	1.670	0.2210	3.9
RB	12	231.250000	19.270833			
AB	4	28.750000	7.187500	0.945	0.4713	3.5
RAB	12	91.250000	7.604167			
COMPLETE FACTORIAL AOV For Amapa ----- Control % May-17-22 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	62726.400000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	62726.400000	15681.600000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	0.000000	0.000000			
COMPLETE FACTORIAL AOV For Rapra ----- Control % May-17-22 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	62726.400000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	4	62726.400000	15681.600000	0.000	1.0000	.
RB	12	0.000000	0.000000			
AB	4	0.000000	0.000000	0.000	1.0000	.
RAB	12	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.

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN						
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For Agrass ----- Control % May-17-22 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	60871.100000				
R	3	15.500000	5.166667	2.246	0.1353	
A	1	0.900000	0.900000	0.194	0.6892	1.6
RA	3	13.900000	4.633333			
B	4	60651.600000	15162.900000	1399.652	0.0001	2.9
RB	12	130.000000	10.833333			
AB	4	31.600000	7.900000	3.435	0.0432	1.9
RAB	12	27.600000	2.300000			
COMPLETE FACTORIAL AOV For ----- Zeama Plant Ht1 In Jun-2-22 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2070.975000				
R	3	164.525000	54.841667	1.616	0.2375	
A	1	30.625000	30.625000	1.637	0.2907	3.22
RA	3	56.125000	18.708333			
B	4	717.162500	179.290625	3.882	0.0301	6.06
RB	12	554.287500	46.190625			
AB	4	141.062500	35.265625	1.039	0.4269	7.34
RAB	12	407.187500	33.932292			
COMPLETE FACTORIAL AOV For ----- Zeama Plant Ht2 In Jun-2-22 (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2386.975000				
R	3	237.425000	79.141667	7.087	0.0054	
A	1	4.900000	4.900000	0.094	0.7791	5.37
RA	3	156.250000	52.083333			
B	4	1124.975000	281.243750	4.766	0.0156	6.85
RB	12	708.075000	59.006250			
AB	4	21.350000	5.337500	0.478	0.7515	4.21
RAB	12	134.000000	11.166667			
COMPLETE FACTORIAL AOV For ----- Zeama Plant Ht3 In Jun-2-22 (Data Column 20)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2012.775000				
R	3	226.725000	75.575000	7.943	0.0035	
A	1	9.025000	9.025000	1.069	0.3772	2.16
RA	3	25.325000	8.441667			
B	4	602.900000	150.725000	1.768	0.2001	8.23
RB	12	1023.150000	85.262500			
AB	4	11.475000	2.868750	0.302	0.8714	3.89
RAB	12	114.175000	9.514583			

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 WITH SHIELDEX OR EMPYROS IN FIELD CORN						
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For ----- Zeama Plant Ht4 In Jun-2-22 (Data Column 21)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2039.993750				
R	3	143.618750	47.872917	2.509	0.1083	
A	1	2.256250	2.256250	0.121	0.7507	3.21
RA	3	55.818750	18.606250			
B	4	516.462500	129.115625	1.436	0.2816	8.45
RB	12	1079.287500	89.940625			
AB	4	13.587500	3.396875	0.178	0.9454	5.50
RAB	12	228.962500	19.080208			
COMPLETE FACTORIAL AOV For ----- Zeama Plant Ht5 In Jun-2-22 (Data Column 22)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2018.100000				
R	3	116.850000	38.950000	1.476	0.2706	
A	1	2.500000	2.500000	0.425	0.5610	1.81
RA	3	17.650000	5.883333			
B	4	713.537500	178.384375	2.668	0.0841	7.29
RB	12	802.462500	66.871875			
AB	4	48.437500	12.109375	0.459	0.7646	6.47
RAB	12	316.662500	26.388542			
COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT HGT-AVG IN Jun-2-22 (Data Column 23)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	1631.079750				
R	3	155.192750	51.730917	9.663	0.0016	
A	1	4.556250	4.556250	0.872	0.4193	1.7
RA	3	15.674750	5.224917			
B	4	705.756000	176.439000	3.161	0.0544	6.7
RB	12	669.876000	55.823000			
AB	4	15.785000	3.946250	0.737	0.5843	2.9
RAB	12	64.239000	5.353250			
COMPLETE FACTORIAL AOV For Amapa ----- Control % Jun-8-22 (Data Column 24)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	63824.375000				
R	3	1.875000	0.625000	1.000	0.4262	
A	1	0.625000	0.625000	1.000	0.3910	0.6
RA	3	1.875000	0.625000			
B	4	63802.500000	15950.625000	25521.003	0.0001	0.7
RB	12	7.500000	0.625000			
AB	4	2.500000	0.625000	1.000	0.4449	1.0
RAB	12	7.500000	0.625000			

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 WITH SHIELDEX OR EMPYROS IN FIELD CORN						
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR				
Location: PONDER FARM		Investigator: Eric P. Prostko				
COMPLETE FACTORIAL AOV For Agrass ----- Control % Jun-8-22 (Data Column 25)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	53790.000000				
R	3	95.000000	31.666667	2.126	0.1502	
A	1	0.000000	0.000000	0.000	1.0000	1.7
RA	3	15.000000	5.000000			
B	4	52433.750000	13108.437500	155.551	0.0001	8.2
RB	12	1011.250000	84.270833			
AB	4	56.250000	14.062500	0.944	0.4718	4.9
RAB	12	178.750000	14.895833			
COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Aug-31-22 (Data Column 26)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	1589.100000				
R	3	35.700000	11.900000	7.657	0.0040	
A	1	2.500000	2.500000	0.339	0.6011	2.0
RA	3	22.100000	7.366667			
B	4	1086.850000	271.712500	7.809	0.0024	5.3
RB	12	417.550000	34.795833			
AB	4	5.750000	1.437500	0.925	0.4813	1.6
RAB	12	18.650000	1.554167			
COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD BU/A Aug-31-22 (Data Column 27)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	41598.204166				
R	3	934.526392	311.508797	7.657	0.0040	
A	1	65.443025	65.443025	0.339	0.6011	10.3
RA	3	578.516338	192.838779			
B	4	28450.700521	7112.675130	7.809	0.0024	26.9
RB	12	10930.293971	910.857831			
AB	4	150.518957	37.629739	0.925	0.4813	8.0
RAB	12	488.204964	40.683747			
<u>Part Rated</u> Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) <u>Rating Unit</u> % = PERCENT In = INCH <u>ARM Action Codes</u> T1 = ([18]+[19]+[20]+[21]+[22])/5 TY2 = 5.11636686*[26]						

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

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COUNTER WITH SHIELDX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code							----- Zeama	----- Zeama	----- Zeama	Amapa -----	Rapra -----	Agrass -----	Molve -----	----- Zeama
Crop Code							Stunting %	Bleaching %	Necrosis %	Control %	Control %	Control %	Control %	Stunting %
Part Rated							Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	May-4-22
Rating Data Type														
Rating Unit														
Rating Date														
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	1	2	3	4	5	6	7	8
1	NO COUNTER NTC					101 205 304 403 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 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
2	NO COUNTER SHIELDX ATRAZINE ROUNDUP POWERMAX3	3.33 4 L 5.88	SC L SL	1.0 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A	102 203 305 401 Mean =	0.0 10.0 0.0 10.0 5.0	10.0 5.0 5.0 5.0 6.3	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	85.0 99.0 90.0 90.0 91.0	99.0 99.0 99.0 99.0 99.0	0.0 15.0 0.0 5.0 5.0
3	NO COUNTER SHIELDX ATRAZINE ROUNDUP POWERMAX3	3.33 4 L 5.88	SC L SL	1.35 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A	103 204 301 402 Mean =	10.0 10.0 10.0 10.0 10.0	5.0 5.0 5.0 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 99.0 99.0	90.0 99.0 90.0 99.0 94.5	99.0 99.0 99.0 99.0 99.0	0.0 10.0 5.0 10.0 6.3
4	NO COUNTER EMPYROS ATRAZINE ROUNDUP POWERMAX3	3.82 4 L 5.88	L L SL	45.0 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A	104 202 302 405 Mean =	10.0 10.0 10.0 15.0 11.3	15.0 20.0 15.0 20.0 17.5	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 95.0 99.0 99.0 98.0	99.0 99.0 99.0 99.0 99.0	0.0 15.0 10.0 15.0 10.0
5	NO COUNTER EMPYROS ATRAZINE ROUNDUP POWERMAX3	3.82 4 L 5.88	L L SL	32.0 oz/a 32.0 oz/a 22.0 oz/a	EPOST A EPOST A EPOST A	105 201 303 404 Mean =	15.0 10.0 10.0 10.0 11.3	15.0 5.0 10.0 15.0 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	99.0 90.0 99.0 99.0 96.8	99.0 99.0 99.0 99.0 99.0	0.0 15.0 15.0 10.0 10.0
6	COUNTER NTC	20 GR		6.0 oz ai/1000 row-ft	INFR	106 210 309 408 Mean =	10.0 0.0 10.0 0.0 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 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
7	COUNTER SHIELDX ATRAZINE ROUNDUP POWERMAX3	20 GR 3.33 SC 4 L 5.88 SL		6.0 oz ai/1000 row-ft 1.0 oz/a 32.0 oz/a 22.0 oz/a	INFR EPOST A EPOST A EPOST A	107 209 310 406 Mean =	15.0 10.0 0.0 10.0 8.8	5.0 5.0 5.0 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 99.0 99.0	85.0 99.0 90.0 99.0 93.3	99.0 99.0 99.0 99.0 99.0	15.0 10.0 0.0 10.0 8.8

University of Georgia

COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN													
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR													
Location: PONDER FARM Investigator: Eric P. Prostko													
Weed Code							----- Zeama	----- Zeama	----- Zeama	Amapa -----	Rapra -----	Agrass -----	Molve ----- Zeama
Crop Code							Stunting %	Bleaching %	Necrosis %	Control %	Control %	Control %	Control %
Part Rated							Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22	Apr-27-22
Rating Data Type													Stunting %
Rating Unit													May-4-22
Rating Date													
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	1	2	3	4	5	6	7
8	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	108	10.0	10.0	0.0	99.0	99.0	99.0	99.0
	SHIELDEX	3.33 SC		1.35 oz/a	EPOST A	207	10.0	5.0	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	306	10.0	10.0	0.0	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	407	15.0	10.0	0.0	99.0	99.0	99.0	99.0
						Mean =	11.3	8.8	0.0	99.0	99.0	99.0	99.0
9	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	109	10.0	15.0	0.0	99.0	99.0	99.0	99.0
	EMPYROS	3.82 L		45.0 oz/a	EPOST A	208	15.0	20.0	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	307	10.0	20.0	0.0	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	410	10.0	25.0	0.0	99.0	99.0	99.0	99.0
						Mean =	11.3	20.0	0.0	99.0	99.0	99.0	99.0
10	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	110	10.0	15.0	0.0	99.0	99.0	95.0	99.0
	EMPYROS	3.82 L		32.0 oz/a	EPOST A	206	10.0	15.0	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	308	10.0	20.0	0.0	99.0	99.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	409	10.0	20.0	0.0	99.0	99.0	99.0	99.0
						Mean =	10.0	17.5	0.0	99.0	99.0	98.0	99.0

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22				Study Dir.: ZACH TAYLOR										
Location: PONDER FARM				Investigator: Eric P. Prostko										
Weed Code						----- Zeama	----- Zeama	Amapa -----	Rapra -----	Agrass -----	----- Zeama Plant, - Stunting	Amapa -----	Rapra -----	
Crop Code						Bleaching	Necrosis	Control	Control	Control		Control	Control	
Part Rated						%	%	%	%	%	%	%	%	
Rating Data Type						May-4-22	May-4-22	May-4-22	May-4-22	May-4-22	May-17-22	May-17-22	May-17-22	
Rating Unit														
Rating Date														
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	9	10	11	12	13	14	15	16
1	NO COUNTER					101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NTC					205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						304	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						403	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	NO COUNTER					102	0.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	SHIELDEX	3.33	SC	1.0 oz/a	EPOST A	203	5.0	0.0	99.0	99.0	95.0	5.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	305	5.0	0.0	99.0	99.0	95.0	0.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	401	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
						Mean =	3.8	0.0	99.0	99.0	97.0	1.3	99.0	99.0
3	NO COUNTER					103	5.0	0.0	99.0	99.0	95.0	0.0	99.0	99.0
	SHIELDEX	3.33	SC	1.35 oz/a	EPOST A	204	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	301	5.0	0.0	99.0	99.0	99.0	5.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	402	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
						Mean =	5.0	0.0	99.0	99.0	98.0	1.3	99.0	99.0
4	NO COUNTER					104	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	EMPYROS	3.82	L	45.0 oz/a	EPOST A	202	5.0	0.0	99.0	99.0	95.0	5.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	302	5.0	0.0	99.0	99.0	99.0	5.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	405	5.0	0.0	99.0	99.0	99.0	10.0	99.0	99.0
						Mean =	5.0	0.0	99.0	99.0	98.0	5.0	99.0	99.0
5	NO COUNTER					105	0.0	0.0	99.0	99.0	95.0	0.0	99.0	99.0
	EMPYROS	3.82	L	32.0 oz/a	EPOST A	201	5.0	0.0	99.0	99.0	95.0	5.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	303	5.0	0.0	99.0	99.0	99.0	5.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	404	0.0	0.0	99.0	99.0	99.0	10.0	99.0	99.0
						Mean =	2.5	0.0	99.0	99.0	97.0	5.0	99.0	99.0
6	COUNTER	20	GR	6.0 oz ai/1000 row-ft	INFR	106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NTC					210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						408	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	COUNTER	20	GR	6.0 oz ai/1000 row-ft	INFR	107	0.0	0.0	99.0	99.0	99.0	10.0	99.0	99.0
	SHIELDEX	3.33	SC	1.0 oz/a	EPOST A	209	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	310	0.0	0.0	99.0	99.0	90.0	0.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	406	10.0	0.0	99.0	99.0	90.0	0.0	99.0	99.0
						Mean =	3.8	0.0	99.0	99.0	94.5	2.5	99.0	99.0

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR														
Location: PONDER FARM Investigator: Eric P. Prostko														
Weed Code							-----	-----	Amapa	Rapra	Agrass	-----	Amapa	Rapra
Crop Code							Zeama	Zeama	-----	-----	-----	Zeama	-----	-----
Part Rated												Plant, -		
Rating Data Type							Bleaching	Necrosis	Control	Control	Control	Stunting	Control	Control
Rating Unit							%	%	%	%	%	%	%	%
Rating Date							May-4-22	May-4-22	May-4-22	May-4-22	May-4-22	May-17-22	May-17-22	May-17-22
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	9	10	11	12	13	14	15	16
8	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	108	5.0	0.0	99.0	99.0	95.0	5.0	99.0	99.0
	SHIELDEX	3.33 SC		1.35 oz/a	EPOST A	207	5.0	0.0	99.0	99.0	99.0	10.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	306	5.0	0.0	99.0	99.0	99.0	5.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	407	10.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
						Mean =	6.3	0.0	99.0	99.0	98.0	5.0	99.0	99.0
9	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	109	5.0	0.0	99.0	99.0	95.0	5.0	99.0	99.0
	EMPYROS	3.82 L		45.0 oz/a	EPOST A	208	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	307	5.0	0.0	99.0	99.0	95.0	5.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	410	5.0	0.0	99.0	99.0	99.0	10.0	99.0	99.0
						Mean =	5.0	0.0	99.0	99.0	97.0	5.0	99.0	99.0
10	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	110	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	EMPYROS	3.82 L		32.0 oz/a	EPOST A	206	5.0	0.0	99.0	99.0	99.0	5.0	99.0	99.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	308	5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	409	5.0	0.0	99.0	99.0	99.0	10.0	99.0	99.0
						Mean =	5.0	0.0	99.0	99.0	99.0	3.8	99.0	99.0

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code						Agrass	-----	-----	-----	-----	-----	-----	Amapa	
Crop Code						-----	Zeama	Zeama	Zeama	Zeama	Zeama	ZEAMA	-----	
Part Rated						Control	Plant, -	Plant, -	Plant, -	Plant, -	Plant, -	PLANT, -	Control	
Rating Data Type						%	Ht1	Ht2	Ht3	Ht4	Ht5	HGT-AVG	%	
Rating Unit						In	In	In	In	In	In	IN	In	
Rating Date						May-17-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-8-22	
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	17	18	19	20	21	22	23	24
1	NO COUNTER					101	0.0	51.00	55.50	72.50	78.00	79.00	67.2	0.0
	NTC					205	0.0	59.00	53.00	50.00	44.00	47.00	50.6	0.0
						304	0.0	73.00	64.00	72.00	71.00	68.50	69.7	0.0
						403	0.0	68.00	62.00	65.00	64.00	65.50	64.9	0.0
						Mean =	0.0	62.75	58.63	64.88	64.25	65.00	63.1	0.0
2	NO COUNTER					102	99.0	76.00	71.00	77.00	71.00	74.00	73.8	100.0
	SHIELDEX	3.33	SC	1.0 oz/a	EPOST A	203	99.0	77.50	72.00	69.00	73.50	76.00	73.6	100.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	305	95.0	78.00	73.00	74.50	72.00	73.00	74.1	100.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	401	95.0	84.00	88.50	86.00	82.00	82.00	84.5	100.0
						Mean =	97.0	78.88	76.13	76.63	74.63	76.25	76.5	100.0
3	NO COUNTER					103	95.0	76.50	63.50	71.00	72.00	74.00	71.4	100.0
	SHIELDEX	3.33	SC	1.35 oz/a	EPOST A	204	99.0	73.00	74.00	74.00	78.00	72.00	74.2	100.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	301	99.0	80.00	78.00	82.00	78.00	80.50	79.7	100.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	402	99.0	69.50	77.00	72.00	74.00	72.50	73.0	100.0
						Mean =	98.0	74.75	73.13	74.75	75.50	74.75	74.6	100.0
4	NO COUNTER					104	99.0	67.00	63.00	64.50	64.00	59.00	63.5	100.0
	EMPYROS	3.82	L	45.0 oz/a	EPOST A	202	99.0	79.00	65.00	72.50	73.00	70.00	71.9	100.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	302	99.0	74.50	73.00	74.50	75.50	78.00	75.1	100.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	405	95.0	67.00	70.00	71.00	67.00	68.00	68.6	100.0
						Mean =	98.0	71.88	67.75	70.63	69.88	68.75	69.8	100.0
5	NO COUNTER					105	95.0	68.00	61.50	64.50	73.00	70.00	67.4	100.0
	EMPYROS	3.82	L	32.0 oz/a	EPOST A	201	99.0	67.00	78.00	76.00	84.00	80.00	77.0	100.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	303	99.0	75.00	74.50	77.50	72.00	76.00	75.0	100.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	404	95.0	70.00	66.00	65.50	66.00	63.00	66.1	100.0
						Mean =	97.0	70.00	70.00	70.88	73.75	72.25	71.4	100.0
6	COUNTER	20	GR	6.0 oz ai/1000 row-ft	INFR	106	0.0	73.50	71.00	80.50	72.00	68.50	73.1	0.0
	NTC					210	0.0	47.00	48.00	55.00	58.00	60.00	53.6	0.0
						309	0.0	61.50	62.00	63.00	71.00	65.00	64.5	0.0
						408	0.0	69.50	58.00	60.00	61.50	59.50	61.7	0.0
						Mean =	0.0	62.88	59.75	64.63	65.63	63.25	63.2	0.0
7	COUNTER	20	GR	6.0 oz ai/1000 row-ft	INFR	107	99.0	72.50	76.50	73.00	67.00	79.00	73.6	100.0
	SHIELDEX	3.33	SC	1.0 oz/a	EPOST A	209	95.0	70.00	70.50	71.00	70.00	75.00	71.3	100.0
	ATRAZINE	4	L	32.0 oz/a	EPOST A	310	85.0	69.00	69.50	73.00	73.00	71.50	71.2	100.0
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	406	95.0	72.00	76.50	80.00	84.50	81.50	78.9	95.0
						Mean =	93.5	70.88	73.25	74.25	73.63	76.75	73.8	98.8

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN														
Trial ID: CN-03-22				Study Dir.: ZACH TAYLOR										
Location: PONDER FARM				Investigator: Eric P. Prostko										
Weed Code							Agrass	-----	-----	-----	-----	-----	Amapa	
Crop Code							-----	Zeama	Zeama	Zeama	Zeama	Zeama	ZEAMA	-----
Part Rated							Control	Plant, -	Plant, -	Plant, -	Plant, -	Plant, -	PLANT, -	Control
Rating Data Type							%	Ht1	Ht2	Ht3	Ht4	Ht5	HGT-AVG	%
Rating Unit							In	In	In	In	In	In	IN	In
Rating Date							May-17-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-2-22	Jun-8-22
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	17	18	19	20	21	22	23	24
8	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	108	95.0	70.00	66.50	71.00	71.00	65.50	68.8	100.0
	SHIELDEX	3.33 SC		1.35 oz/a	EPOST A	207	99.0	71.00	67.50	73.00	68.00	70.00	69.9	100.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	306	99.0	79.00	81.00	82.50	81.00	80.50	80.8	100.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	407	99.0	70.50	71.00	73.00	76.00	74.50	73.0	100.0
					Mean =		98.0	72.63	71.50	74.88	74.00	72.63	73.1	100.0
9	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	109	99.0	65.00	65.00	66.50	67.00	73.00	67.3	100.0
	EMPYROS	3.82 L		45.0 oz/a	EPOST A	208	99.0	75.50	68.00	68.00	67.00	69.50	69.6	100.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	307	99.0	75.50	74.50	74.00	75.00	76.00	75.0	100.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	410	95.0	62.50	66.00	65.50	72.00	70.00	67.2	100.0
					Mean =		98.0	69.63	68.38	68.50	70.25	72.13	69.8	100.0
10	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	110	99.0	68.00	64.00	64.00	67.00	76.00	67.8	100.0
	EMPYROS	3.82 L		32.0 oz/a	EPOST A	206	99.0	76.00	76.00	75.00	76.00	77.00	76.0	100.0
	ATRAZINE	4 L		32.0 oz/a	EPOST A	308	99.0	75.00	70.00	76.00	73.00	74.00	73.6	100.0
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	409	99.0	75.00	67.00	68.00	72.50	72.00	70.9	100.0
					Mean =		99.0	73.50	69.25	70.75	72.13	74.75	72.1	100.0

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN									
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code							Agrass	-----	-----
Crop Code							-----	ZEAMA	ZEAMA
Part Rated								PLOT, -	PLOT, -
Rating Data Type							Control	YIELD	YIELD
Rating Unit							%	LBS/PLOT	BU/A
Rating Date							Jun-8-22	Aug-31-22	Aug-31-22
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	25	26	27
1	NO COUNTER					101	0.0	28.0	143.3
	NTC					205	0.0	18.0	92.1
						304	0.0	27.0	138.1
						403	0.0	29.0	148.4
						Mean =	0.0	25.5	130.5
2	NO COUNTER					102	95.0	39.0	199.5
	SHIELDEX	3.33	SC	1.0 oz/a	EPOST A	203	85.0	39.0	199.5
	ATRAZINE	4 L		32.0 oz/a	EPOST A	305	75.0	35.0	179.1
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	401	85.0	42.0	214.9
						Mean =	85.0	38.8	198.3
3	NO COUNTER					103	85.0	37.0	189.3
	SHIELDEX	3.33	SC	1.35 oz/a	EPOST A	204	95.0	40.0	204.7
	ATRAZINE	4 L		32.0 oz/a	EPOST A	301	85.0	44.0	225.1
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	402	100.0	42.0	214.9
						Mean =	91.3	40.8	208.5
4	NO COUNTER					104	90.0	34.0	174.0
	EMPYROS	3.82	L	45.0 oz/a	EPOST A	202	95.0	40.0	204.7
	ATRAZINE	4 L		32.0 oz/a	EPOST A	302	95.0	40.0	204.7
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	405	80.0	34.0	174.0
						Mean =	90.0	37.0	189.3
5	NO COUNTER					105	90.0	33.0	168.8
	EMPYROS	3.82	L	32.0 oz/a	EPOST A	201	95.0	46.0	235.4
	ATRAZINE	4 L		32.0 oz/a	EPOST A	303	95.0	37.0	189.3
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	404	95.0	38.0	194.4
						Mean =	93.8	38.5	197.0
6	COUNTER	20	GR	6.0 oz ai/1000 row-ft	INFR	106	0.0	29.0	148.4
	NTC					210	0.0	21.0	107.4
						309	0.0	29.0	148.4
						408	0.0	28.0	143.3
						Mean =	0.0	26.8	136.9
7	COUNTER	20	GR	6.0 oz ai/1000 row-ft	INFR	107	90.0	40.0	204.7
	SHIELDEX	3.33	SC	1.0 oz/a	EPOST A	209	95.0	41.0	209.8
	ATRAZINE	4 L		32.0 oz/a	EPOST A	310	65.0	35.0	179.1
	ROUNDUP POWERMAX3	5.88	SL	22.0 oz/a	EPOST A	406	75.0	40.0	204.7
						Mean =	81.3	39.0	199.5

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN									
Trial ID: CN-03-22		Study Dir.: ZACH TAYLOR							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code							Agrass	-----	-----
Crop Code							-----	ZEAMA	ZEAMA
Part Rated								PLOT, -	PLOT, -
Rating Data Type							Control	YIELD	YIELD
Rating Unit							%	LBS/PLOT	BU/A
Rating Date							Jun-8-22	Aug-31-22	Aug-31-22
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	25	26	27
8	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	108	85.0	37.0	189.3
	SHIELDEX	3.33 SC		1.35 oz/a	EPOST A	207	90.0	40.0	204.7
	ATRAZINE	4 L		32.0 oz/a	EPOST A	306	90.0	47.0	240.5
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	407	95.0	39.0	199.5
					Mean =		90.0	40.8	208.5
9	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	109	90.0	39.0	199.5
	EMPYROS	3.82 L		45.0 oz/a	EPOST A	208	95.0	38.0	194.4
	ATRAZINE	4 L		32.0 oz/a	EPOST A	307	100.0	44.0	225.1
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	410	85.0	33.0	168.8
					Mean =		92.5	38.5	197.0
10	COUNTER	20 GR		6.0 oz ai/1000 row-ft	INFR	110	95.0	34.0	174.0
	EMPYROS	3.82 L		32.0 oz/a	EPOST A	206	95.0	44.0	225.1
	ATRAZINE	4 L		32.0 oz/a	EPOST A	308	100.0	38.0	194.4
	ROUNDUP POWERMAX3	5.88 SL		22.0 oz/a	EPOST A	409	95.0	36.0	184.2
					Mean =		96.3	38.0	194.4

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COUNTER WITH SHIELDEX OR EMPYROS IN FIELD CORN Trial ID: CN-03-22 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko
<u>Part Rated</u> Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) <u>Rating Unit</u> % = PERCENT In = INCH <u>ARM Action Codes</u> T1 = ([18]+[19]+[20]+[21]+[22])/5 TY2 = 5.11636686*[26]