University of Georgia

ARE 2 POST APPLICATIONS NEEDED FOR CORN
WEED MANAGEMENT?
Trial ID: CN-12-21 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC								-	101	203	301
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	17.19 mL/mx	1432.8 mL	102	201	303
	AATREX	4	L	64.0	oz/a	EPOST	A	50.0 mL/mx				
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	45.31 mL/mx	1400.9 mL	103	204	302
	ATRAZINE	4	L	64.0	oz/a	MPOST	B	50.0 mL/mx				
	INDUCE			0.25	% v/v	MPOST	B	3.75 mL/mx				
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	17.19 mL/mx	1457.8 mL	104	202	304
	AATREX	4	L	32.0	oz/a	EPOST	A	25.0 mL/mx				
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C	45.31 mL/mx	1413.4 mL			
	ATRAZINE	4	L	48.0	oz/a	LPOST	C	37.5 mL/mx				
	INDUCE			0.25	% v/v	LPOST	C	3.75 mL/mx				

Sort Order: Treatment

Trial Comments

HARVEST MOISTURE: 17.32%
YIELD ADJUSTED TO 15.5%

SUMMARY:

1) GENERALLY, EPOST APPLICATIONS OF ROUNDUP + ATRAZINE PROVIDED LESS CONTROL OF PALMER AMARANTH, WILD RADISH, AND ANNUAL GRASSES WHEN COMPARED TO EITHER MPOST APPLICATIONS OF HALEX GT + ATRAZINE OR ROUNDUP + ATRAZINE (EPOST) FB HALEX GT + ATRAZINE (LPOST).

2) ALL HERBICIDE TREATED PLOTS HAD SIGNIFICANTLY HIGHER YIELDS THAN THE NTC.

3) YIELDS FROM EPOST APPLICATIONS OF ROUNDUP + ATRAZINE WERE LOWER THAN YIELDS FROM MPOST APPLICATIONS OF HALEX GT + ATRAZINE BUT NOT ROUNDUP + ATRAZINE (EPOST) FB HALEX GT + ATRAZINE (LPOST).

4) NO DIFFERENCES IN YIELDS WERE OBSERVED BETWEEN MPOST APPLICATIONS OF HALEX GT + ATRAZINE AND ROUNDUP + ATRAZINE (EPOST) FB HALEX GT + ATRAZINE (LPOST).

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GENERAL TRIAL INFORMATION

Study Director: _____ **Title:** _____
Affiliation: _____
Postal Code: _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____
Postal Code: _____

TRIAL LOCATION

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

COOPERATOR/LANDOWNER

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

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

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	**PA**	LMER AAMRANTH
2.	CYPSP	**NU**	TSEDGE
3.	RAPRA	**RA**	DISH
4.	DEDTO	**BE**	GGARWEED
5.	AGRASS	**AN**	NUAL GRASS
6.			

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1870YHR
Planting Date: Mar-22-21 **Planting Method:** MONOSEM
Rate: 36300 SEED/A **Depth:** 2 IN **Perennial Age:** ____ _____
Row Spacing: 36 IN **Spacing Within Row:** ____ _____ **Seed Bed:** _____
Soil Temperature: ____ _ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	PEANUT		2020

MAINTENANCE

Field Prep./Maintenance: 800 LBS/A 5-10-15-PREPLANT; LUMIGEN SEED TRT;
127-0-0-16(S) SIDRESS ON APRIL 19 AND APRIL 29
AXILO BMZ (MICRO-NUTRIENTS) ON APRIL 20

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

SOIL DESCRIPTION

% Sand: 94 **% OM:** 0.61 **Texture:** SAND
% Silt: 4 **pH:** 6.0 **Soil Name:** TIFTON
% Clay: 2 **CEC:** 2.5 **Fert. Level:** GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-24-21		0.4	IN	SPRINKLER - LATERAL MOVE		
2.	Mar-28-21		0.1	IN	RAIN		
3.	Mar-31-21		0.6	IN	SPRINKLER - LATERAL MOVE		
4.	Mar-31-21		0.8	IN	RAIN		
5.	Apr-7-21		0.5	IN	SPRINKLER - LATERAL MOVE		
6.	Apr-9-21		0.27	IN	RAINFALL		
7.	Apr-10-21		0.05	IN	RAINFALL		
8.	Apr-11-21		0.08	IN	RAINFALL		
9.	Apr-17-21		0.1	IN	RAINFALL		
10.	Apr-18-21		0.01	IN	RAINFALL		
11.	Apr-20-21		0.35	IN	SPRINKLER - LATERAL MOVE		
12.	Apr-24-21		6.0	IN	RAINFALL		
13.	May-3-21		0.1	IN	RAINFALL		
14.	May-4-21		1.15	IN	RAINFALL		
15.	May-11-21		0.5	IN	SPRINKLER - LATERAL MOVE		
16.	May-11-21		0.15	IN	RAINFALL		
17.	May-12-21		0.6	IN	RAINFALL		

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

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Apr-5-21	Apr-13-21	Apr-23-21
Time of Day:	11:00 AM	7:00 AM	7:30 AM
Application Method:	BROADCAST	BROADCAST	BROADCAST
Application Timing:	EPOST	MPOST	LPOST
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE
Air Temp., Unit:	67 F	56 F	45 F
% Relative Humidity:	46	84	89
Wind Velocity, Unit:	4 MPH	2 MPH	1 MPH
Dew Presence (Y/N):	N	Y	Y
Water Hardness:	--	--	--
Soil Temp., Unit:	60 F	60 F	56 F
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM
% Cloud Cover:	0	5	15

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CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMA,	ZEAMA,	ZEAMA,
Stage Scale:	V1-V2	V4	V5
Height, Unit:	2, IN	5, IN	10, IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMAPA,	AMAPA,	AMAPA,
Stage Scale:	0.5"	0.5-1"	--
Density, Unit:			
Weed 2 Code, Stage:	CYPSP,	CYPSP,	CYPSP,
Stage Scale:	3-4"	5-6"	7-10"
Density, Unit:			
Weed 3 Code, Stage:	RAPRA,	RAPRA,	RAPRA,
Stage Scale:	1-2"	3-4"	1"
Density, Unit:			
Weed 4 Code, Stage:	DEDTO,	DEDTO,	DEDTO,
Stage Scale:	0.5"	--	1"
Density, Unit:			
Weed 5 Code, Stage:	AGRAS,	AGRAS,	AGRAS,
Stage Scale:	0.5" 1-2L	1-2"	1"
Density, Unit:			
Weed 6 Code, Stage:	,	,	,
Stage Scale:			
Density, Unit:			

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	SAME	SAME
Operating Pressure:	36		
Nozzle Type:	AIXR		
Nozzle Size:	11002		
Nozzle Spacing, Unit:	20 IN		
Nozzles/Row:			
Band Width, Unit:			
Boom Length, Unit:	60 IN		
Boom Height, Unit:	20 IN		
Ground Speed, Unit:	3.5 MPH		
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	WATER		
Spray Volume, Unit:	15 GPA		
Spray pH:			
Propellant:	CO2		
Tank Mix (Y/N):			

Trt No	Treatment Application Comment

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Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
	Weed Code							-----	Amapa	Rapra	Agrass	-----
	Crop Code							Zeama	-----	-----	-----	Zeama
	Part Rated							Plant, -				
	Rating Data Type							Injury	Control	Control	Control	Stunting
	Rating Unit							%	%	%	%	%
	Rating Date							Apr-21-21	Apr-21-21	Apr-21-21	Apr-21-21	Apr-29-21
1	NTC							0.0 a	0.0 b	0.0 b	0.0 c	0.0 a
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	5.0 a	99.0 a	97.7 a	86.3 a	6.7 a
	AATREX	4	L	64.0	oz/a	EPOST	A					
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	0.0 a	99.0 a	99.0 a	97.7 a	5.0 a
	ATRAZINE	4	L	64.0	oz/a	MPOST	B					
	INDUCE			0.25	% v/v	MPOST	B					
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	5.0 a	99.0 a	96.0 a	68.3 b	16.7 a
	AATREX	4	L	32.0	oz/a	EPOST	A					
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C					
	ATRAZINE	4	L	48.0	oz/a	LPOST	C					
	INDUCE			0.25	% v/v	LPOST	C					
	LSD P=.10							10.49	.	4.78	16.56	20.27
	Standard Deviation							6.61	0.00	3.01	10.43	12.77
	CV							264.58	0.0	4.12	16.54	180.35
	Grand Mean							2.50	74.25	73.17	63.08	7.08
	Bartlett's X2^							4.392	.	3.941	6.953	2.831
	P(Bartlett's X2)							0.222	.	0.268	0.073	0.418

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.
Could not calculate LSD (% mean diff) for columns 2,6,7,8,9,10,12,13 because error mean square = 0.
^Calculated from residual.

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Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	6	7	8	9	10
	Weed Code							-----	-----	Amapa	Rapra	Agrass
	Crop Code							Zeama	Zeama	-----	-----	-----
	Part Rated											
	Rating Data Type							Chlorosis	Necrosis	Control	Control	Control
	Rating Unit							%	%	%	%	
	Rating Date							Apr-29-21	Apr-29-21	Apr-29-21	Apr-29-21	Apr-29-21
1	NTC							0.0 a	0.0 a	0.0 b	0.0 b	0.0 c
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	0.0 a	0.0 a	99.0 a	99.0 a	50.0 b
	AATREX	4	L	64.0	oz/a	EPOST	A					
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	64.0	oz/a	MPOST	B					
	INDUCE			0.25	% v/v	MPOST	B					
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a
	AATREX	4	L	32.0	oz/a	EPOST	A					
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C					
	ATRAZINE	4	L	48.0	oz/a	LPOST	C					
	INDUCE			0.25	% v/v	LPOST	C					
	LSD P=.10							.	.	.	.	.
	Standard Deviation							0.00	0.00	0.00	0.00	0.00
	CV							0.0	0.0	0.0	0.0	0.0
	Grand Mean							0.00	0.00	74.25	74.25	62.00
	Bartlett's X2^							.	.	.	.	.
	P(Bartlett's X2)							.	.	.	.	.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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Could not calculate LSD (% mean diff) for columns 2,6,7,8,9,10,12,13 because error mean square = 0.
^Calculated from residual.

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Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	11	12	13	14	15
	Weed Code							-----	-----	-----	Amapa	Rapra
	Crop Code							Zeama	Zeama	Zeama	-----	-----
	Part Rated											
	Rating Data Type							Stunt	Chlorosis	Necrosis	Control	Control
	Rating Unit							%	%	%	%	%
	Rating Date							May-14-21	May-14-21	May-14-21	May-14-21	May-14-21
1	NTC							0.0 a	0.0 a	0.0 a	0.0 c	0.0 c
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	3.3 a	0.0 a	0.0 a	66.7 b	93.0 ab
	AATREX	4	L	64.0	oz/a	EPOST	A					
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	3.3 a	0.0 a	0.0 a	99.0 a	96.3 a
	ATRAZINE	4	L	64.0	oz/a	MPOST	B					
	INDUCE			0.25	% v/v	MPOST	B					
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	10.0 a	0.0 a	0.0 a	94.7 a	88.3 b
	AATREX	4	L	32.0	oz/a	EPOST	A					
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C					
	ATRAZINE	4	L	48.0	oz/a	LPOST	C					
	INDUCE			0.25	% v/v	LPOST	C					
	LSD P=.10							16.72	.	.	5.96	6.08
	Standard Deviation							10.54	0.00	0.00	3.76	3.83
	CV							252.98	0.0	0.0	5.77	5.52
	Grand Mean							4.17	0.00	0.00	65.08	69.42
	Bartlett's X2^							3.475	.	.	1.661	5.248
	P(Bartlett's X2)							0.324	.	.	0.646	0.155

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.
Could not calculate LSD (% mean diff) for columns 2,6,7,8,9,10,12,13 because error mean square = 0.
^Calculated from residual.

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Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17	18
	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							May-14-21	Sep-7-21	Sep-7-21
1	NTC							0.0 c	43.7 c	221.6 c
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	26.7 b	50.3 b	255.4 b
	AATREX	4	L	64.0	oz/a	EPOST	A			
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	93.3 a	53.7 a	272.3 a
	ATRAZINE	4	L	64.0	oz/a	MPOST	B			
	INDUCE			0.25	% v/v	MPOST	B			
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	90.0 a	52.3 ab	265.5 ab
	AATREX	4	L	32.0	oz/a	EPOST	A			
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C			
	ATRAZINE	4	L	48.0	oz/a	LPOST	C			
	INDUCE			0.25	% v/v	LPOST	C			
	LSD P=.10							7.12	3.25	16.49
	Standard Deviation							4.49	2.05	10.39
	CV							8.55	4.1	4.1
	Grand Mean							52.50	50.00	253.70
	Bartlett's X2^							4.172	1.606	1.606
	P(Bartlett's X2)							0.244	0.658	0.658

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.
Could not calculate LSD (% mean diff) for columns 2,6,7,8,9,10,12,13 because error mean square = 0.
^Calculated from residual.

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Randomized Complete Block (RCB) AOV For ----- Zeama Plant Injury % Apr-21-21 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	375.000000			
Replicate	2	37.500000	18.750000	0.429	0.6699
Treatment	3	75.000000	25.000000	0.571	0.6542
Error	6	262.500000	43.750000		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % Apr-21-21 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	22052.250000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	3	22052.250000	7350.750000	0.000	1.0000
Error	6	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Rapra ----- Control % Apr-21-21 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	21491.666667			
Replicate	2	10.166667	5.083333	0.560	0.5986
Treatment	3	21427.000000	7142.333333	786.312	0.0001
Error	6	54.500000	9.083333		

Randomized Complete Block (RCB) AOV For Agrass ----- Control % Apr-21-21 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	17998.916667			
Replicate	2	114.666667	57.333333	0.527	0.6156
Treatment	3	17230.916667	5743.638889	52.748	0.0001
Error	6	653.333333	108.888889		

Randomized Complete Block (RCB) AOV For ----- Zeama Stunting % Apr-29-21 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	1622.916667			
Replicate	2	204.166667	102.083333	0.626	0.5666
Treatment	3	439.583333	146.527778	0.898	0.4950
Error	6	979.166667	163.194444		

Randomized Complete Block (RCB) AOV For ----- Zeama Chlorosis % Apr-29-21 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	3	0.000000000000	0.000000000000	0.000	1.0000
Error	6	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For ----- Zeama Necrosis % Apr-29-21 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	3	0.000000000000	0.000000000000	0.000	1.0000
Error	6	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % Apr-29-21 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	22052.250000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	3	22052.250000	7350.750000	0.000	1.0000
Error	6	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Rapra ----- Control % Apr-29-21 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	22052.250000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	3	22052.250000	7350.750000	0.000	1.0000
Error	6	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Agrass ----- Control Apr-29-21 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	20178.000000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	3	20178.000000	6726.000000	0.000	1.0000
Error	6	0.000000	0.000000		

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Randomized Complete Block (RCB) AOV For ----- Zeama Stunt % May-14-21 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	891.666667			
Replicate	2	66.666667	33.333333	0.300	0.7513
Treatment	3	158.333333	52.777778	0.475	0.7111
Error	6	666.666667	111.111111		

Randomized Complete Block (RCB) AOV For ----- Zeama Chlorosis % May-14-21 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	3	0.000000000000	0.000000000000	0.000	1.0000
Error	6	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For ----- Zeama Necrosis % May-14-21 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	3	0.000000000000	0.000000000000	0.000	1.0000
Error	6	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % May-14-21 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	18948.916667			
Replicate	2	72.666667	36.333333	2.575	0.1558
Treatment	3	18791.583333	6263.861111	443.896	0.0001
Error	6	84.666667	14.111111		

Randomized Complete Block (RCB) AOV For Rapra ----- Control % May-14-21 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	19502.916667			
Replicate	2	43.166667	21.583333	1.469	0.3025
Treatment	3	19371.583333	6457.194444	439.431	0.0001
Error	6	88.166667	14.694444		

Randomized Complete Block (RCB) AOV For Agrass ----- Control % May-14-21 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	19625.000000			
Replicate	2	12.500000	6.250000	0.310	0.7443
Treatment	3	19491.666667	6497.222222	322.621	0.0001
Error	6	120.833333	20.138889		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Sep-7-21 (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	224.000000			
Replicate	2	21.500000	10.750000	2.563	0.1568
Treatment	3	177.333333	59.111111	14.093	0.0040
Error	6	25.166667	4.194444		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD BU/A Sep-7-21 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	11	5767.036588			
Replicate	2	553.532530	276.766265	2.563	0.1568
Treatment	3	4565.570632	1521.856877	14.093	0.0040
Error	6	647.933426	107.988904		

Part Rated
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Rating Unit
% = PERCENT
ARM Action Codes
TY1 = 5.07402198*[17]

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ARE 2 POST APPLICATIONS NEEDED FOR CORN
WEED MANAGEMENT?
Trial ID: CN-12-21 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
	Weed Code								-----	Amapa	Rapra	Agrass	-----
	Crop Code								Zeama	-----	-----	-----	Zeama
	Part Rated								Plant, -				
	Rating Data Type								Injury	Control	Control	Control	Stunting
	Rating Unit								%	%	%	%	%
	Rating Date								Apr-21-21	Apr-21-21	Apr-21-21	Apr-21-21	Apr-29-21
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								203	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	102	0.0	99.0	99.0	99.0	0.0
	AATREX	4	L	64.0	oz/a	EPOST	A	201	15.0	99.0	95.0	65.0	20.0
								303	0.0	99.0	99.0	95.0	0.0
								Mean =	5.0	99.0	97.7	86.3	6.7
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	103	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	MPOST	B	204	0.0	99.0	99.0	95.0	10.0
	INDUCE			0.25	% v/v	MPOST	B	302	0.0	99.0	99.0	99.0	5.0
								Mean =	0.0	99.0	99.0	97.7	5.0
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	104	15.0	99.0	99.0	65.0	40.0
	AATREX	4	L	32.0	oz/a	EPOST	A	202	0.0	99.0	99.0	75.0	10.0
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C	304	0.0	99.0	90.0	65.0	0.0
	ATRAZINE	4	L	48.0	oz/a	LPOST	C						
	INDUCE			0.25	% v/v	LPOST	C						
								Mean =	5.0	99.0	96.0	68.3	16.7

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	----- Zeama Chlorosis % Apr-29-21 6	----- Zeama Necrosis % Apr-29-21 7	Amapa ----- Control % Apr-29-21 8	Rapra ----- Control % Apr-29-21 9	Agrass ----- Control Apr-29-21 10
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								203	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	102	0.0	0.0	99.0	99.0	50.0
	AATREX	4	L	64.0	oz/a	EPOST	A	201	0.0	0.0	99.0	99.0	50.0
								303	0.0	0.0	99.0	99.0	50.0
								Mean =	0.0	0.0	99.0	99.0	50.0
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	103	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0	oz/a	MPOST	B	204	0.0	0.0	99.0	99.0	99.0
	INDUCE			0.25	% v/v	MPOST	B	302	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	104	0.0	0.0	99.0	99.0	99.0
	AATREX	4	L	32.0	oz/a	EPOST	A	202	0.0	0.0	99.0	99.0	99.0
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C	304	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	48.0	oz/a	LPOST	C						
	INDUCE			0.25	% v/v	LPOST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0

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Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	----- Zeama Stunt % May-14-21 11	----- Zeama Chlorosis % May-14-21 12	----- Zeama Necrosis % May-14-21 13	Amapa ----- Control % May-14-21 14
1	NTC							101	0.0	0.0	0.0	0.0
								203	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	102	0.0	0.0	0.0	60.0
	AATREX	4	L	64.0	oz/a	EPOST	A	201	10.0	0.0	0.0	65.0
								303	0.0	0.0	0.0	75.0
								Mean =	3.3	0.0	0.0	66.7
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	103	0.0	0.0	0.0	99.0
	ATRAZINE	4	L	64.0	oz/a	MPOST	B	204	0.0	0.0	0.0	99.0
	INDUCE			0.25	% v/v	MPOST	B	302	10.0	0.0	0.0	99.0
								Mean =	3.3	0.0	0.0	99.0
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	104	30.0	0.0	0.0	90.0
	AATREX	4	L	32.0	oz/a	EPOST	A	202	0.0	0.0	0.0	95.0
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C	304	0.0	0.0	0.0	99.0
	ATRAZINE	4	L	48.0	oz/a	LPOST	C					
	INDUCE			0.25	% v/v	LPOST	C					
								Mean =	10.0	0.0	0.0	94.7

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	Rapra ----- Control % May-14-21 (15)	Agrass ----- Control % May-14-21 (16)	----- ZEAMA PLOT, - YIELD LBS/PLOT Sep-7-21 (17)	----- ZEAMA PLOT, - YIELD BU/A Sep-7-21 (18)
1	NTC							101	0.0	0.0	43.0	218.2
								203	0.0	0.0	44.0	223.3
								301	0.0	0.0	44.0	223.3
								Mean =	0.0	0.0	43.7	221.6
2	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	102	99.0	30.0	51.0	258.8
	AATREX	4	L	64.0	oz/a	EPOST	A	201	85.0	20.0	54.0	274.0
								303	95.0	30.0	46.0	233.4
								Mean =	93.0	26.7	50.3	255.4
3	HALEX GT	4.39	SC	58.0	oz/a	MPOST	B	103	99.0	95.0	53.0	268.9
	ATRAZINE	4	L	64.0	oz/a	MPOST	B	204	95.0	90.0	54.0	274.0
	INDUCE			0.25	% v/v	MPOST	B	302	95.0	95.0	54.0	274.0
								Mean =	96.3	93.3	53.7	272.3
4	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	EPOST	A	104	90.0	85.0	52.0	263.8
	AATREX	4	L	32.0	oz/a	EPOST	A	202	90.0	95.0	55.0	279.1
	HALEX GT	4.39	SC	58.0	oz/a	LPOST	C	304	85.0	90.0	50.0	253.7
	ATRAZINE	4	L	48.0	oz/a	LPOST	C					
	INDUCE			0.25	% v/v	LPOST	C					
								Mean =	88.3	90.0	52.3	265.5

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Part Rated
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Rating Unit
% = PERCENT
ARM Action Codes
TY1 = 5.07402198*[17]