

University of Georgia

HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN			
Trial ID:	CN-11-21	Study Dir.:	W. FAIRCLOTH
Location:	PONDER FARM	Investigator:	Eric P. Prostko

		Plots: 6 by 25 feet										
Trt No.	Treatment Name	Form Conc	Product Type Rate	Product Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC							-	101	210	302	412
2	AATREX HALEX GT AATREX INDUCE	4 L 4.39 SC 4 L	48.0 oz/a 58.0 oz/a	PRE POST	A C	A C	37.5 mL/mx 45.31 mL/mx	1462.5 mL 1425.9 mL	102	208	309	410
3	AATREX ACURON GT AATREX INDUCE	4 L 4.29 ZC 4 L	48.0 oz/a 60.0 oz/a	PRE POST	A C	A C	37.5 mL/mx 46.87 mL/mx	1462.5 mL 1424.4 mL	103	207	311	408
4	AATREX ACURON GT INDUCE	4 L 4.29 ZC	64.0 oz/a 60.0 oz/a	PRE POST	A C	A C	50.0 mL/mx 46.87 mL/mx	1450 mL 1449.4 mL	104	201	305	406
5	ACURON GT AATREX INDUCE	4.29 ZC 4 L	60.0 oz/a 32.0 oz/a	EPOST	B	B	46.87 mL/mx 25.0 mL/mx	1424.4 mL	105	211	304	411
6	ROUNDUP POWERMAX3 LAUDIS AATREX	5.88 SL 3.5 SC 4 L	21.0 oz/a 3.0 oz/a	EPOST	B	B	16.41 mL/mx 2.344 mL/mx	1456.2 mL	106	212	301	402
7	ROUNDUP POWERMAX3 IMPACT AATREX	5.88 SL 2.8 SC 4 L	21.0 oz/a 1.0 oz/a	EPOST	B	B	16.41 mL/mx 0.7812 mL/mx	1457.8 mL	107	203	310	401
8	ROUNDUP POWERMAX3 SHIELDDEX AATREX	5.88 SL 3.33 OD 4 L	21.0 oz/a 1.0 oz/a	EPOST	B	B	16.41 mL/mx 0.7812 mL/mx	1457.8 mL	108	205	303	407
9	ROUNDUP POWERMAX3 REVULIN Q AATREX	5.88 SL 51.2 DG 4 L	21.0 oz/a 3.5 oz/a	EPOST	B	B	16.41 mL/mx 2.621 g/mx	1456.0 mL	109	206	308	403
10	ROUNDUP POWERMAX3 RESICORE AATREX	5.88 SL 3.29 SC 4 L	21.0 oz/a 72.0 oz/a	EPOST	B	B	16.41 mL/mx 56.25 mL/mx	1402.3 mL	110	209	306	409
11	ROUNDUP POWERMAX3 CAPRENO AATREX	5.88 SL 3.45 SC 4 L	21.0 oz/a 3.0 oz/a	EPOST	B	B	16.41 mL/mx 2.344 mL/mx	1456.2 mL	111	204	312	405
12	NTC							-	112	202	307	404

Sort Order: Treatment

Trial Comments
<p>HALEX GT = GLYPHOSATE (2.09 LBS/GAL) + MESOTRIONE (0.209 LBS/GAL) + S-METOLACHLOR (2.09 LBS/GAL) CAPRENO = TEMBOTRIONE (2.88 LBS/GAL) + THIENCARBAZONE (0.57 LBS/GAL) REVULIN Q = MESOTRIONE (36.8%) + NICOSULFURON (14.4%) RESICORE = MESOTRIONE (0.30 LBS/GAL)+ ACETOCHLOR (2.8 LBS/GAL) + CLOPYRALID (0.19 LBS/GAL) ACURON GT = GLYPHOSATE (2.0 LBS/GAL) + MESOTRIONE (0.20 LBS/GAL) + BICYCLOPYRONE (0.09 LBS/GAL) + S-METOLACHLOR (2.0 LBS/GAL)</p> <p>HARVEST MOISTURE: 18.36% YIELDS ADJUSTED TO 15.5% MOISTURE</p> <p><u>LOW TO MODERATE WEED PRESSURE</u></p> <p><u>SUMMARY:</u></p> <p>1) EPOST APPLICATIONS OF RESICORE CAUSE SLIGHT CORN INJURY (10%). 2) RATINGS OBTAINED ON MAY 14 (52 DAP) INDICATED THE FOLLOWING: A) ALL TREATMENTS PROVIDED AT LEAST 98% CONTROL OF PALMER AMARANTH AND HENBIT.</p>

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B) ANNUAL GRASS CONTROL WITH ALL TREATMENTS EXCEEDED 87%. BUT, AATREX (PRE) FB HALEX GT + AATREX (POST) AND ROUNDUP + SHIELDDEX + ATRAZINE (POST) PROVIDED LESS GRASS CONTROL THAN SOME OTHER TREATMENTS.

3) CORN YIELDS WERE NOT INFLUENCED BY ANY HERBICIDE TREATMENT (P=0.5641).

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 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: W. FAIRCLOTH **Title:** _____
Affiliation: _____
Postal Code: _____

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

TRIAL LOCATION

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

COOPERATOR/LANDOWNER

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

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

Objective: _____

Conclusions: _____

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	PA	LMER AMARANTH
2.	RAPRA	WI	LD RADISH
3.	AGRASS	MI	XES SPECIES
4.	LAMAM	HE	NBIT

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:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL

Trial Initiation Comments: _____

	Previous Crops	Previous Pesticides	Year
1.	PEANUT		2020

MAINTENANCE

Field Prep/Maintenance: LUMIGEN SEED TREATMENT
 800 LBS/A 5-15-30 - PREPLANT
 127-0-0-16(S) - SIDEDRESS ON APRIL 19 AND APRIL 29
 AXILO BMZ (MICRONUTRIENTS) @ 2 LBS/A ON APRIL 20

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 Location: PONDER FARM Investigator: Eric P. Prostko

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

SOIL DESCRIPTION

% Sand: 92 % OM: 0.65 Texture: SAND
 % Silt: 4 pH: 6.0 Soil Name: TIFTON
 % Clay: 4 CEC: 2.5 Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-24-21		0.4	IN	SPRINKLER - LATERAL MOVE		
2.	Mar-28-21		0.1	IN	RAINFALL		
3.	Mar-31-21		0.6	IN	SPRINKLER - LATERAL MOVE		
4.	Mar-31-21		0.8	IN	RAINFALL		
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:	Mar-23-21	Apr-14-21	Apr-19-21
Time of Day:	7:52 AM	7:30 AM	7:30 AM
Application Method:	BROADCAST	BROADCAST	BROADCAST
Application Timing:	PRE	EPOST	POST
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE
Air Temp., Unit:	55 F	60 F	56 F
% Relative Humidity:	92	85	36
Wind Velocity, Unit:	2 MPH	2 MPH	2 MPH
Dew Presence (Y/N):	Y	Y	Y
Water Hardness:	--	--	--
Soil Temp., Unit:	60 F	68 F	62 F
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM
% Cloud Cover:	100	40	15

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CROP STAGE AT EACH APPLICATION			
	A	B	C
Crop 1 Code, Stage:	ZEAMA,	ZEAMA,	ZEAMA,
Stage Scale:		V4	V5
Height, Unit:	,	6, IN	10, IN

WEED STAGE AT EACH APPLICATION			
	A	B	C
Weed 1 Code, Stage:	AMAPA,	AMAPA,	AMAPA,
Stage Scale:		1"	
Density, Unit:			
Weed 2 Code, Stage:	RAPRA,	RAPRA,	RAPRA,
Stage Scale:		3-4"	
Density, Unit:			
Weed 3 Code, Stage:	AGRAS,	AGRAS,	AGRAS,
Stage Scale:		1-2"	2-3"
Density, Unit:			
Weed 4 Code, Stage:	LAMAM,	LAMAM,	LAMAM,
Stage Scale:		1"	
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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Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- Zeama Plant, - Stunting % Mar-31-21	----- Zeama Plant, - Injury % Apr-19-21	Amapa ----- Control % Apr-19-21	Agrass ----- Control % Apr-19-21	Lamam ----- Control % Apr-19-21				
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate	Grow Unit	Stg	Appl Code	1	2	3	4	5	
1	NTC								0.0 a	0.0 c	0.0 b	0.0 c	0.0 c	
2	AATREX HALEX GT AATREX INDUCE	4 L 4.39 SC 4 L		48.0 oz/a 58.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C		0.0 a	0.0 c	99.0 a	16.3 c	99.0 a	
3	AATREX ACURON GT AATREX INDUCE	4 L 4.29 ZC 4 L		48.0 oz/a 60.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C		0.0 a	0.0 c	99.0 a	21.3 c	99.0 a	
4	AATREX ACURON GT INDUCE	4 L 4.29 ZC		64.0 oz/a 60.0 oz/a 0.25 % v/v		PRE POST POST	A C C		0.0 a	0.0 c	99.0 a	55.0 b	99.0 a	
5	ACURON GT AATREX INDUCE	4.29 ZC 4 L		60.0 oz/a 32.0 oz/a 0.25 % v/v		EPOST EPOST EPOST	B B B		0.0 a	0.0 c	99.0 a	87.5 a	99.0 a	
6	ROUNDUP POWERMAX3 LAUDIS AATREX	5.88 SL 3.5 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	0.0 c	99.0 a	89.8 a	99.0 a	
7	ROUNDUP POWERMAX3 IMPACT AATREX	5.88 SL 2.8 SC 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	1.3 b	99.0 a	81.0 a	99.0 a	
8	ROUNDUP POWERMAX3 SHILEDX AATREX	5.88 SL 3.33 OD 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	0.0 c	99.0 a	77.5 ab	99.0 a	
9	ROUNDUP POWERMAX3 REVULIN Q AATREX	5.88 SL 51.2 DG 4 L		21.0 oz/a 3.5 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	0.0 c	99.0 a	67.5 ab	99.0 a	
10	ROUNDUP POWERMAX3 RESICORE AATREX	5.88 SL 3.29 SC 4 L		21.0 oz/a 72.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	10.0 a	99.0 a	88.5 a	99.0 a	
11	ROUNDUP POWERMAX3 CAPRENO AATREX	5.88 SL 3.45 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	0.0 c	99.0 a	83.5 a	90.5 b	
12	NTC								0.0 a	0.0 c	0.0 b	0.0 c	0.0 c	
LSD P=.10														
Standard Deviation														
CV														
Grand Mean														
Bartlett's X2^														
P(Bartlett's X2)														

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 1,3,9,10,13,14,15 because error mean square = 0.
 ^Calculated from residual.

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Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH											
Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- Zeama Plant, - Stunting % Apr-28-21	----- Zeama Plant, - Chlorosi % Apr-28-21	----- Zeama Plant, - Necrosis % Apr-28-21	Amapa ----- Control % Apr-28-21	Lamam ----- Control % Apr-28-21			
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate	Grow Unit	Stg	Appl Code	6	7	8	9	10
1	NTC								0.0 a	0.0 b	0.0 a	0.0 b	0.0 b
2	AATREX HALEX GT AATREX INDUCE	4 L 4.39 SC 4 L		48.0 oz/a 58.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C		6.3 a	0.0 b	0.0 a	99.0 a	99.0 a
3	AATREX ACURON GT AATREX INDUCE	4 L 4.29 ZC 4 L		48.0 oz/a 60.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C		2.5 a	0.0 b	0.0 a	99.0 a	99.0 a
4	AATREX ACURON GT INDUCE	4 L 4.29 ZC		64.0 oz/a 60.0 oz/a 0.25 % v/v		PRE POST POST	A C C		2.5 a	0.0 b	0.0 a	99.0 a	99.0 a
5	ACURON GT AATREX INDUCE	4.29 ZC 4 L		60.0 oz/a 32.0 oz/a 0.25 % v/v		EPOST EPOST EPOST	B B B		3.8 a	0.0 b	0.0 a	99.0 a	99.0 a
6	ROUNDUP POWERMAX3 LAUDIS AATREX	5.88 SL 3.5 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		3.8 a	0.0 b	0.0 a	99.0 a	99.0 a
7	ROUNDUP POWERMAX3 IMPACT AATREX	5.88 SL 2.8 SC 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		0.0 a	0.0 b	0.0 a	99.0 a	99.0 a
8	ROUNDUP POWERMAX3 SHIELDDEX AATREX	5.88 SL 3.33 OD 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		3.8 a	0.0 b	1.3 a	99.0 a	99.0 a
9	ROUNDUP POWERMAX3 REVULIN Q AATREX	5.88 SL 51.2 DG 4 L		21.0 oz/a 3.5 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		1.3 a	0.0 b	0.0 a	99.0 a	99.0 a
10	ROUNDUP POWERMAX3 RESICORE AATREX	5.88 SL 3.29 SC 4 L		21.0 oz/a 72.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		3.8 a	2.5 a	1.3 a	99.0 a	99.0 a
11	ROUNDUP POWERMAX3 CAPRENO AATREX	5.88 SL 3.45 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		8.8 a	0.0 b	0.0 a	99.0 a	99.0 a
12	NTC								0.0 a	0.0 b	0.0 a	0.0 b	0.0 b
LSD P=.10									5.40	1.00	1.24	.	.
Standard Deviation									4.51	0.83	1.04	0.00	0.00
CV									149.31	400.0	497.27	0.0	0.0
Grand Mean									3.02	0.21	0.21	82.50	82.50
Bartlett's X2^									33.052	64.208	66.538	.	.
P(Bartlett's X2)									0.001*	0.00*	0.00*	.	.

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 1,3,9,10,13,14,15 because error mean square = 0.
 ^Calculated from residual.

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN													
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH											
Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Agrass ----- Control % Apr-28-21	----- Zeama Stunt % May-14-21	----- Zeama Chlorosis % May-14-21	----- Zeama Necrosis % May-14-21	Amapa ----- Control % May-14-21			
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate	Grow Unit	Stg	Appl Code	11	12	13	14	15
1	NTC								0.0 c	0.0 a	0.0 a	0.0 a	0.0 b
2	AATREX HALEX GT AATREX INDUCE	4 L 4.39 SC 4 L		48.0 oz/a 58.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C		86.0 b	3.8 a	0.0 a	0.0 a	99.0 a
3	AATREX ACURON GT AATREX INDUCE	4 L 4.29 ZC 4 L		48.0 oz/a 60.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C		99.0 a	6.3 a	0.0 a	0.0 a	99.0 a
4	AATREX ACURON GT INDUCE	4 L 4.29 ZC		64.0 oz/a 60.0 oz/a 0.25 % v/v		PRE POST POST	A C C		99.0 a	2.5 a	0.0 a	0.0 a	99.0 a
5	ACURON GT AATREX INDUCE	4.29 ZC 4 L		60.0 oz/a 32.0 oz/a 0.25 % v/v		EPOST EPOST EPOST	B B B		99.0 a	6.3 a	0.0 a	0.0 a	99.0 a
6	ROUNDUP POWERMAX3 LAUDIS AATREX	5.88 SL 3.5 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		99.0 a	1.3 a	0.0 a	0.0 a	99.0 a
7	ROUNDUP POWERMAX3 IMPACT AATREX	5.88 SL 2.8 SC 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		99.0 a	5.0 a	0.0 a	0.0 a	99.0 a
8	ROUNDUP POWERMAX3 SHILEDX AATREX	5.88 SL 3.33 OD 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		99.0 a	6.3 a	0.0 a	0.0 a	99.0 a
9	ROUNDUP POWERMAX3 REVULIN Q AATREX	5.88 SL 51.2 DG 4 L		21.0 oz/a 3.5 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		96.8 a	3.8 a	0.0 a	0.0 a	99.0 a
10	ROUNDUP POWERMAX3 RESICORE AATREX	5.88 SL 3.29 SC 4 L		21.0 oz/a 72.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		99.0 a	7.5 a	0.0 a	0.0 a	99.0 a
11	ROUNDUP POWERMAX3 CAPRENO AATREX	5.88 SL 3.45 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B		99.0 a	3.8 a	0.0 a	0.0 a	99.0 a
12	NTC								0.0 c	0.0 a	0.0 a	0.0 a	0.0 b
LSD P=.10									3.74	5.46	.	.	.
Standard Deviation									3.12	4.57	0.00	0.00	0.00
CV									3.84	118.47	0.0	0.0	0.0
Grand Mean									81.23	3.85	0.00	0.00	82.50
Bartlett's X2^									55.077	6.311	.	.	.
P(Bartlett's X2)									0.00*	0.852	.	.	.

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

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Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Lamam ----- Control % May-14-21	Agrass ----- Control % May-14-21	----- ZEAMA YIELD LBS/PLOT Aug-23-21	----- ZEAMA YIELD BU/A Aug-23-21		
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	16	17	18	19
1	NTC							0.0 c	0.0 e	52.5 a	263.0 a
2	AATREX HALEX GT AATREX INDUCE	4 L 4.39 SC 4 L		48.0 oz/a 58.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C	99.0 a	89.8 cd	55.8 a	279.3 a
3	AATREX ACURON GT AATREX INDUCE	4 L 4.29 ZC 4 L		48.0 oz/a 60.0 oz/a 32.0 oz/a 0.25 % v/v		PRE POST POST POST	A C C C	99.0 a	94.5 abc	50.8 a	254.3 a
4	AATREX ACURON GT INDUCE	4 L 4.29 ZC		64.0 oz/a 60.0 oz/a 0.25 % v/v		PRE POST POST	A C C	99.0 a	99.0 a	55.3 a	276.8 a
5	ACURON GT AATREX INDUCE	4.29 ZC 4 L		60.0 oz/a 32.0 oz/a 0.25 % v/v		EPOST EPOST EPOST	B B B	99.0 a	99.0 a	53.5 a	268.0 a
6	ROUNDUP POWERMAX3 LAUDIS AATREX	5.88 SL 3.5 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B	99.0 a	97.0 ab	55.3 a	276.8 a
7	ROUNDUP POWERMAX3 IMPACT AATREX	5.88 SL 2.8 SC 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B	98.0 b	91.0 bcd	54.0 a	270.6 a
8	ROUNDUP POWERMAX3 SHIELDDEX AATREX	5.88 SL 3.33 OD 4 L		21.0 oz/a 1.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B	99.0 a	87.3 d	54.0 a	270.6 a
9	ROUNDUP POWERMAX3 REVULIN Q AATREX	5.88 SL 51.2 DG 4 L		21.0 oz/a 3.5 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B	99.0 a	94.5 abc	53.0 a	265.5 a
10	ROUNDUP POWERMAX3 RESICORE AATREX	5.88 SL 3.29 SC 4 L		21.0 oz/a 72.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B	98.0 b	93.0 a-d	54.0 a	270.6 a
11	ROUNDUP POWERMAX3 CAPRENO AATREX	5.88 SL 3.45 SC 4 L		21.0 oz/a 3.0 oz/a 32.0 oz/a		EPOST EPOST EPOST	B B B	99.0 a	95.8 abc	52.3 a	261.8 a
12	NTC							0.0 c	0.0 e	50.5 a	253.0 a
LSD P=.10								0.93	7.02	4.29	21.47
Standard Deviation								0.78	5.86	3.58	17.94
CV								0.95	7.48	6.71	6.71
Grand Mean								82.33	78.40	53.40	267.52
Bartlett's X2^								34.477	27.189	12.333	12.333
P(Bartlett's X2)								0.00*	0.004*	0.339	0.339

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 1,3,9,10,13,14,15 because error mean square = 0.
 ^Calculated from residual.

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-11-21	Study Dir.:	W. FAIRCLOTH			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Randomized Complete Block (RCB) AOV For ----- Zeama Plant Stunting % Mar-31-21 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000	
Error	33	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For ----- Zeama Plant Injury % Apr-19-21 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	382.812500				
Replicate	3	1.562500	0.520833	1.000	0.4051	
Treatment	11	364.062500	33.096591	63.545	0.0001	
Error	33	17.187500	0.520833			
Randomized Complete Block (RCB) AOV For Amapa ----- Control % Apr-19-21 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65340.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	65340.000000	5940.000000	0.000	1.0000	
Error	33	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For Agrass ----- Control % Apr-19-21 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	73898.979167				
Replicate	3	1905.062500	635.020833	1.387	0.2639	
Treatment	11	56889.729167	5171.793561	11.299	0.0001	
Error	33	15104.187500	457.702652			
Randomized Complete Block (RCB) AOV For Lamam ----- Control % Apr-19-21 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65349.916667				
Replicate	3	72.250000	24.083333	1.000	0.4051	
Treatment	11	64482.916667	5862.083333	243.408	0.0001	
Error	33	794.750000	24.083333			
Randomized Complete Block (RCB) AOV For ----- Zeama Plant Stunting % Apr-28-21 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	986.979167				
Replicate	3	9.895833	3.298611	0.162	0.9211	
Treatment	11	305.729167	27.793561	1.366	0.2346	
Error	33	671.354167	20.344066			
Randomized Complete Block (RCB) AOV For ----- Zeama Plant Chlorosi % Apr-28-21 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	47.916667				
Replicate	3	2.083333	0.694444	1.000	0.4051	
Treatment	11	22.916667	2.083333	3.000	0.0071	
Error	33	22.916667	0.694444			
Randomized Complete Block (RCB) AOV For ----- Zeama Plant Necrosis % Apr-28-21 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	47.916667				
Replicate	3	2.083333	0.694444	0.647	0.5904	
Treatment	11	10.416667	0.946970	0.882	0.5658	
Error	33	35.416667	1.073232			
Randomized Complete Block (RCB) AOV For Amapa ----- Control % Apr-28-21 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65340.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	65340.000000	5940.000000	0.000	1.0000	
Error	33	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For Lamam ----- Control % Apr-28-21 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65340.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	65340.000000	5940.000000	0.000	1.0000	
Error	33	0.000000	0.000000			

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-11-21	Study Dir.:	W. FAIRCLOTH			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Randomized Complete Block (RCB) AOV For Agrass ----- Control % Apr-28-21 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	64298.479167				
Replicate	3	30.895833	10.298611	1.056	0.3810	
Treatment	11	63945.729167	5813.248106	596.038	0.0001	
Error	33	321.854167	9.753157			
Randomized Complete Block (RCB) AOV For ----- Zeama Stunt % May-14-21 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	1161.979167				
Replicate	3	193.229167	64.409722	3.089	0.0404	
Treatment	11	280.729167	25.520833	1.224	0.3104	
Error	33	688.020833	20.849116			
Randomized Complete Block (RCB) AOV For ----- Zeama Chlorosis % May-14-21 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000	
Error	33	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For ----- Zeama Necrosis % May-14-21 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000	
Error	33	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For Amapa ----- Control % May-14-21 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65340.000000				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	11	65340.000000	5940.000000	0.000	1.0000	
Error	33	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For Lamam ----- Control % May-14-21 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	65106.666667				
Replicate	3	4.000000	1.333333	2.200	0.1066	
Treatment	11	65082.666667	5916.606061	9762.401	0.0001	
Error	33	20.000000	0.606061			
Randomized Complete Block (RCB) AOV For Agrass ----- Control % May-14-21 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	60793.479167				
Replicate	3	113.562500	37.854167	1.101	0.3626	
Treatment	11	59545.229167	5413.202652	157.432	0.0001	
Error	33	1134.687500	34.384470			
Randomized Complete Block (RCB) AOV For ----- ZEAMA YIELD LBS/PLOT Aug-23-21 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	599.479167				
Replicate	3	51.562500	17.187500	1.340	0.2781	
Treatment	11	124.729167	11.339015	0.884	0.5641	
Error	33	423.187500	12.823864			
Randomized Complete Block (RCB) AOV For ----- ZEAMA YIELD BU/A Aug-23-21 (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	47	15048.175196				
Replicate	3	1294.326103	431.442034	1.340	0.2781	
Treatment	11	3130.961769	284.632888	0.884	0.5641	
Error	33	10622.887324	321.905676			
<u>Part Rated</u>						
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)						
<u>Rating Unit</u>						
% = PERCENT						
<u>ARM Action Codes</u>						
TY1 = 5.0101978*[18]						

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN			
Trial ID:	CN-11-21	Study Dir.:	W. FAIRCLOTH
Location:	PONDER FARM	Investigator:	Eric P. Prostko

							----- Zeama Plant, - Stunting % Mar-31-21	----- Zeama Plant, - Injury % Apr-19-21	----- Amapa ----- Control % Apr-19-21	----- Agrass ----- Control % Apr-19-21		
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Unit	Grow Stg	Appl Code	Plot	1	2	3	4
1	NTC							101	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0
								302	0.0	0.0	0.0	0.0
								412	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	AATREX	4 L		48.0 oz/a		PRE	A	102	0.0	0.0	99.0	65.0
	HALEX GT	4.39 SC		58.0 oz/a		POST	C	208	0.0	0.0	99.0	0.0
	AATREX	4 L		32.0 oz/a		POST	C	309	0.0	0.0	99.0	0.0
	INDUCE			0.25 % v/v		POST	C	410	0.0	0.0	99.0	0.0
								Mean =	0.0	0.0	99.0	16.3
3	AATREX	4 L		48.0 oz/a		PRE	A	103	0.0	0.0	99.0	85.0
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	207	0.0	0.0	99.0	0.0
	AATREX	4 L		32.0 oz/a		POST	C	311	0.0	0.0	99.0	0.0
	INDUCE			0.25 % v/v		POST	C	408	0.0	0.0	99.0	0.0
								Mean =	0.0	0.0	99.0	21.3
4	AATREX	4 L		64.0 oz/a		PRE	A	104	0.0	0.0	99.0	85.0
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	201	0.0	0.0	99.0	85.0
	INDUCE			0.25 % v/v		POST	C	305	0.0	0.0	99.0	50.0
								406	0.0	0.0	99.0	0.0
								Mean =	0.0	0.0	99.0	55.0
5	ACURON GT	4.29 ZC		60.0 oz/a		EPOST	B	105	0.0	0.0	99.0	95.0
	AATREX	4 L		32.0 oz/a		EPOST	B	211	0.0	0.0	99.0	95.0
	INDUCE			0.25 % v/v		EPOST	B	304	0.0	0.0	99.0	75.0
								411	0.0	0.0	99.0	85.0
								Mean =	0.0	0.0	99.0	87.5
6	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	106	0.0	0.0	99.0	85.0
	LAUDIS	3.5 SC		3.0 oz/a		EPOST	B	212	0.0	0.0	99.0	90.0
	AATREX	4 L		32.0 oz/a		EPOST	B	301	0.0	0.0	99.0	99.0
								402	0.0	0.0	99.0	85.0
								Mean =	0.0	0.0	99.0	89.8
7	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	107	0.0	5.0	99.0	65.0
	IMPACT	2.8 SC		1.0 oz/a		EPOST	B	203	0.0	0.0	99.0	95.0
	AATREX	4 L		32.0 oz/a		EPOST	B	310	0.0	0.0	99.0	65.0
								401	0.0	0.0	99.0	99.0
								Mean =	0.0	1.3	99.0	81.0
8	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	108	0.0	0.0	99.0	65.0
	SHIELDDEX	3.33 OD		1.0 oz/a		EPOST	B	205	0.0	0.0	99.0	85.0
	AATREX	4 L		32.0 oz/a		EPOST	B	303	0.0	0.0	99.0	75.0
								407	0.0	0.0	99.0	85.0
								Mean =	0.0	0.0	99.0	77.5
9	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	109	0.0	0.0	99.0	65.0
	REVULIN Q	51.2 DG		3.5 oz/a		EPOST	B	206	0.0	0.0	99.0	50.0
	AATREX	4 L		32.0 oz/a		EPOST	B	308	0.0	0.0	99.0	60.0
								403	0.0	0.0	99.0	95.0
								Mean =	0.0	0.0	99.0	67.5
10	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	110	0.0	10.0	99.0	85.0
	RESICORE	3.29 SC		72.0 oz/a		EPOST	B	209	0.0	10.0	99.0	85.0
	AATREX	4 L		32.0 oz/a		EPOST	B	306	0.0	10.0	99.0	85.0
								409	0.0	10.0	99.0	99.0
								Mean =	0.0	10.0	99.0	88.5
11	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	111	0.0	0.0	99.0	85.0
	CAPRENO	3.45 SC		3.0 oz/a		EPOST	B	204	0.0	0.0	99.0	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	312	0.0	0.0	99.0	65.0
								405	0.0	0.0	99.0	85.0
								Mean =	0.0	0.0	99.0	83.5

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN										
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- Zeama Plant, - Stunting %	----- Zeama Plant, - Injury %	----- Amapa Control %	----- Agrass Control %	
						Mar-31-21	Apr-19-21	Apr-19-21	Apr-19-21	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot		
							1	2	3	4
12	NTC					112	0.0	0.0	0.0	0.0
						202	0.0	0.0	0.0	0.0
						307	0.0	0.0	0.0	0.0
						404	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN												
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Lamam ----- Control % Apr-19-21	----- Zeama Plant, - Stunting % Apr-28-21	----- Zeama Plant, - Chlorosi % Apr-28-21	----- Zeama Plant, - Necrosis % Apr-28-21			
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	5	6	7	8
1 NTC												
								101	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0
								302	0.0	0.0	0.0	0.0
								412	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2 AATREX												
		4 L		48.0 oz/a		PRE	A	102	99.0	0.0	0.0	0.0
		4.39 SC		58.0 oz/a		POST	C	208	99.0	10.0	0.0	0.0
		4 L		32.0 oz/a		POST	C	309	99.0	10.0	0.0	0.0
				0.25 % v/v		POST	C	410	99.0	5.0	0.0	0.0
								Mean =	99.0	6.3	0.0	0.0
3 AATREX												
		4 L		48.0 oz/a		PRE	A	103	99.0	0.0	0.0	0.0
		4.29 ZC		60.0 oz/a		POST	C	207	99.0	0.0	0.0	0.0
		4 L		32.0 oz/a		POST	C	311	99.0	5.0	0.0	0.0
				0.25 % v/v		POST	C	408	99.0	5.0	0.0	0.0
								Mean =	99.0	2.5	0.0	0.0
4 AATREX												
		4 L		64.0 oz/a		PRE	A	104	99.0	10.0	0.0	0.0
		4.29 ZC		60.0 oz/a		POST	C	201	99.0	0.0	0.0	0.0
				0.25 % v/v		POST	C	305	99.0	0.0	0.0	0.0
								406	99.0	0.0	0.0	0.0
								Mean =	99.0	2.5	0.0	0.0
5 ACURON GT												
		4.29 ZC		60.0 oz/a		EPOST	B	105	99.0	0.0	0.0	0.0
		4 L		32.0 oz/a		EPOST	B	211	99.0	0.0	0.0	0.0
				0.25 % v/v		EPOST	B	304	99.0	10.0	0.0	0.0
								411	99.0	5.0	0.0	0.0
								Mean =	99.0	3.8	0.0	0.0
6 ROUNDUP POWERMAX3												
		5.88 SL		21.0 oz/a		EPOST	B	106	99.0	0.0	0.0	0.0
		3.5 SC		3.0 oz/a		EPOST	B	212	99.0	0.0	0.0	0.0
		4 L		32.0 oz/a		EPOST	B	301	99.0	0.0	0.0	0.0
								402	99.0	15.0	0.0	0.0
								Mean =	99.0	3.8	0.0	0.0
7 ROUNDUP POWERMAX3												
		5.88 SL		21.0 oz/a		EPOST	B	107	99.0	0.0	0.0	0.0
		2.8 SC		1.0 oz/a		EPOST	B	203	99.0	0.0	0.0	0.0
		4 L		32.0 oz/a		EPOST	B	310	99.0	0.0	0.0	0.0
								401	99.0	0.0	0.0	0.0
								Mean =	99.0	0.0	0.0	0.0
8 ROUNDUP POWERMAX3												
		5.88 SL		21.0 oz/a		EPOST	B	108	99.0	10.0	0.0	0.0
		3.33 OD		1.0 oz/a		EPOST	B	205	99.0	0.0	0.0	0.0
		4 L		32.0 oz/a		EPOST	B	303	99.0	5.0	0.0	0.0
								407	99.0	0.0	0.0	5.0
								Mean =	99.0	3.8	0.0	1.3
9 ROUNDUP POWERMAX3												
		5.88 SL		21.0 oz/a		EPOST	B	109	99.0	0.0	0.0	0.0
		51.2 DG		3.5 oz/a		EPOST	B	206	99.0	0.0	0.0	0.0
		4 L		32.0 oz/a		EPOST	B	308	99.0	5.0	0.0	0.0
								403	99.0	0.0	0.0	0.0
								Mean =	99.0	1.3	0.0	0.0
10 ROUNDUP POWERMAX3												
		5.88 SL		21.0 oz/a		EPOST	B	110	99.0	0.0	0.0	0.0
		3.29 SC		72.0 oz/a		EPOST	B	209	99.0	10.0	0.0	5.0
		4 L		32.0 oz/a		EPOST	B	306	99.0	0.0	5.0	0.0
								409	99.0	5.0	5.0	0.0
								Mean =	99.0	3.8	2.5	1.3
11 ROUNDUP POWERMAX3												
		5.88 SL		21.0 oz/a		EPOST	B	111	99.0	10.0	0.0	0.0
		3.45 SC		3.0 oz/a		EPOST	B	204	99.0	15.0	0.0	0.0
		4 L		32.0 oz/a		EPOST	B	312	65.0	10.0	0.0	0.0
								405	99.0	0.0	0.0	0.0
								Mean =	90.5	8.8	0.0	0.0

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN									
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Lamam ----- Control %	----- Zeama Plant, - Stunting %	----- Zeama Plant, - Chlorosi %	----- Zeama Plant, - Necrosis %
						Apr-19-21	Apr-28-21	Apr-28-21	Apr-28-21
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	
									5
									6
									7
									8
12	NTC			112				0.0	0.0
				202				0.0	0.0
				307				0.0	0.0
				404				0.0	0.0
				Mean =				0.0	0.0

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN									
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Amapa ----- Control % Apr-28-21	Lamam ----- Control % Apr-28-21	Agrass ----- Control % Apr-28-21	----- Zeama Stunt % May-14-21
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	
1	NTC							101	0.0
								210	0.0
								302	0.0
								412	0.0
								Mean =	0.0
2	AATREX	4 L		48.0 oz/a		PRE	A	102	99.0
	HALEX GT	4.39 SC		58.0 oz/a		POST	C	208	99.0
	AATREX	4 L		32.0 oz/a		POST	C	309	99.0
	INDUCE			0.25 % v/v		POST	C	410	99.0
								Mean =	99.0
3	AATREX	4 L		48.0 oz/a		PRE	A	103	99.0
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	207	99.0
	AATREX	4 L		32.0 oz/a		POST	C	311	99.0
	INDUCE			0.25 % v/v		POST	C	408	99.0
								Mean =	99.0
4	AATREX	4 L		64.0 oz/a		PRE	A	104	99.0
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	201	99.0
	INDUCE			0.25 % v/v		POST	C	305	99.0
								406	99.0
								Mean =	99.0
5	ACURON GT	4.29 ZC		60.0 oz/a		EPOST	B	105	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	211	99.0
	INDUCE			0.25 % v/v		EPOST	B	304	99.0
								411	99.0
								Mean =	99.0
6	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	106	99.0
	LAUDIS	3.5 SC		3.0 oz/a		EPOST	B	212	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	301	99.0
								402	99.0
								Mean =	99.0
7	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	107	99.0
	IMPACT	2.8 SC		1.0 oz/a		EPOST	B	203	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	310	99.0
								401	99.0
								Mean =	99.0
8	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	108	99.0
	SHIELDDEX	3.33 OD		1.0 oz/a		EPOST	B	205	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	303	99.0
								407	99.0
								Mean =	99.0
9	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	109	99.0
	REVULIN Q	51.2 DG		3.5 oz/a		EPOST	B	206	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	308	99.0
								403	99.0
								Mean =	99.0
10	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	110	99.0
	RESICORE	3.29 SC		72.0 oz/a		EPOST	B	209	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	306	99.0
								409	99.0
								Mean =	99.0
11	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	111	99.0
	CAPRENO	3.45 SC		3.0 oz/a		EPOST	B	204	99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	312	99.0
								405	99.0
								Mean =	99.0

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN									
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- Zeama	----- Zeama	Amapa -----	Lamam -----
						Chlorosis % May-14-21	Necrosis % May-14-21	Control % May-14-21	Control % May-14-21
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	
									13 14 15 16
1	NTC							101	0.0 0.0 0.0 0.0
								210	0.0 0.0 0.0 0.0
								302	0.0 0.0 0.0 0.0
								412	0.0 0.0 0.0 0.0
								Mean =	0.0 0.0 0.0 0.0
2	AATREX	4 L		48.0 oz/a		PRE	A	102	0.0 0.0 99.0 99.0
	HALEX GT	4.39 SC		58.0 oz/a		POST	C	208	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		POST	C	309	0.0 0.0 99.0 99.0
	INDUCE			0.25 % v/v		POST	C	410	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
3	AATREX	4 L		48.0 oz/a		PRE	A	103	0.0 0.0 99.0 99.0
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	207	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		POST	C	311	0.0 0.0 99.0 99.0
	INDUCE			0.25 % v/v		POST	C	408	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
4	AATREX	4 L		64.0 oz/a		PRE	A	104	0.0 0.0 99.0 99.0
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	201	0.0 0.0 99.0 99.0
	INDUCE			0.25 % v/v		POST	C	305	0.0 0.0 99.0 99.0
								406	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
5	ACURON GT	4.29 ZC		60.0 oz/a		EPOST	B	105	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	211	0.0 0.0 99.0 99.0
	INDUCE			0.25 % v/v		EPOST	B	304	0.0 0.0 99.0 99.0
								411	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
6	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	106	0.0 0.0 99.0 99.0
	LAUDIS	3.5 SC		3.0 oz/a		EPOST	B	212	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	301	0.0 0.0 99.0 99.0
								402	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
7	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	107	0.0 0.0 99.0 95.0
	IMPACT	2.8 SC		1.0 oz/a		EPOST	B	203	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	310	0.0 0.0 99.0 99.0
								401	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 98.0
8	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	108	0.0 0.0 99.0 99.0
	SHIELDDEX	3.33 OD		1.0 oz/a		EPOST	B	205	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	303	0.0 0.0 99.0 99.0
								407	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
9	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	109	0.0 0.0 99.0 99.0
	REVULIN Q	51.2 DG		3.5 oz/a		EPOST	B	206	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	308	0.0 0.0 99.0 99.0
								403	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0
10	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	110	0.0 0.0 99.0 95.0
	RESICORE	3.29 SC		72.0 oz/a		EPOST	B	209	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	306	0.0 0.0 99.0 99.0
								409	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 98.0
11	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	111	0.0 0.0 99.0 99.0
	CAPRENO	3.45 SC		3.0 oz/a		EPOST	B	204	0.0 0.0 99.0 99.0
	AATREX	4 L		32.0 oz/a		EPOST	B	312	0.0 0.0 99.0 99.0
								405	0.0 0.0 99.0 99.0
								Mean =	0.0 0.0 99.0 99.0

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN											
Trial ID: CN-11-21		Study Dir.: W. FAIRCLOTH									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Agrass -----	----- ZEAMA	----- ZEAMA			
						Control % May-14-21	YIELD LBS/PLOT Aug-23-21	YIELD BU/A Aug-23-21			
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	17	18	19
1	NTC							101	0.0	53.0	265.5
								210	0.0	58.0	290.6
								302	0.0	54.0	270.6
								412	0.0	45.0	225.5
								Mean =	0.0	52.5	263.0
2	AATREX	4 L		48.0 oz/a		PRE	A	102	85.0	54.0	270.6
	HALEX GT	4.39 SC		58.0 oz/a		POST	C	208	85.0	57.0	285.6
	AATREX	4 L		32.0 oz/a		POST	C	309	90.0	53.0	265.5
	INDUCE			0.25 % v/v		POST	C	410	99.0	59.0	295.6
								Mean =	89.8	55.8	279.3
3	AATREX	4 L		48.0 oz/a		PRE	A	103	99.0	51.0	255.5
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	207	85.0	46.0	230.5
	AATREX	4 L		32.0 oz/a		POST	C	311	99.0	51.0	255.5
	INDUCE			0.25 % v/v		POST	C	408	95.0	55.0	275.6
								Mean =	94.5	50.8	254.3
4	AATREX	4 L		64.0 oz/a		PRE	A	104	99.0	53.0	265.5
	ACURON GT	4.29 ZC		60.0 oz/a		POST	C	201	99.0	53.0	265.5
	INDUCE			0.25 % v/v		POST	C	305	99.0	57.0	285.6
								406	99.0	58.0	290.6
								Mean =	99.0	55.3	276.8
5	ACURON GT	4.29 ZC		60.0 oz/a		EPOST	B	105	99.0	53.0	265.5
	AATREX	4 L		32.0 oz/a		EPOST	B	211	99.0	51.0	255.5
	INDUCE			0.25 % v/v		EPOST	B	304	99.0	55.0	275.6
								411	99.0	55.0	275.6
								Mean =	99.0	53.5	268.0
6	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	106	95.0	55.0	275.6
	LAUDIS	3.5 SC		3.0 oz/a		EPOST	B	212	99.0	54.0	270.6
	AATREX	4 L		32.0 oz/a		EPOST	B	301	95.0	60.0	300.6
								402	99.0	52.0	260.5
								Mean =	97.0	55.3	276.8
7	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	107	85.0	47.0	235.5
	IMPACT	2.8 SC		1.0 oz/a		EPOST	B	203	99.0	57.0	285.6
	AATREX	4 L		32.0 oz/a		EPOST	B	310	85.0	56.0	280.6
								401	95.0	56.0	280.6
								Mean =	91.0	54.0	270.6
8	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	108	80.0	53.0	265.5
	SHIELDDEX	3.33 OD		1.0 oz/a		EPOST	B	205	99.0	59.0	295.6
	AATREX	4 L		32.0 oz/a		EPOST	B	303	85.0	53.0	265.5
								407	85.0	51.0	255.5
								Mean =	87.3	54.0	270.6
9	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	109	85.0	52.0	260.5
	REVULIN Q	51.2 DG		3.5 oz/a		EPOST	B	206	99.0	52.0	260.5
	AATREX	4 L		32.0 oz/a		EPOST	B	308	95.0	54.0	270.6
								403	99.0	54.0	270.6
								Mean =	94.5	53.0	265.5
10	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	110	99.0	55.0	275.6
	RESICORE	3.29 SC		72.0 oz/a		EPOST	B	209	75.0	49.0	245.5
	AATREX	4 L		32.0 oz/a		EPOST	B	306	99.0	58.0	290.6
								409	99.0	54.0	270.6
								Mean =	93.0	54.0	270.6
11	ROUNDUP POWERMAX3	5.88 SL		21.0 oz/a		EPOST	B	111	90.0	49.0	245.5
	CAPRENO	3.45 SC		3.0 oz/a		EPOST	B	204	99.0	49.0	245.5
	AATREX	4 L		32.0 oz/a		EPOST	B	312	95.0	56.0	280.6
								405	99.0	55.0	275.6
								Mean =	95.8	52.3	261.8

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HPPD HERBICIDES FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-11-21 Study Dir.: W. FAIRCLOTH
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

Rating Unit

% = PERCENT

ARM Action Codes

TY1 = 5.0101978*[18]