

University of Georgia

WEED CONTROL IN FIELD CORN
WITHOUT ATRAZINE OR GLYPHOSATE
Trial ID: CN-03-17 Study Dir.:
Location: PONDER Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
Spray vol: 15 GAL/AC Mix Size: 1.5 liters (.78211 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NO PRE NO POST							101	202	309	403
2	NO PRE LAUDIS COC AMS XTRA	3.5	SC	3.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B		2.343 ml/mx 15.0 ml/mx 37.5 ml/mx	102	203	314	407
3	NO PRE IMPACT COC AMS XTRA	2.8	L	1.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B		0.7812 ml/mx 15.0 ml/mx 37.5 ml/mx	103	208	303	415
4	NO PRE STATUS COC AMS XTRA	56	WG	5.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B		3.745 g/mx 15.0 ml/mx 37.5 ml/mx	104	210	308	413
5	ZIDUA NO POST	85	WG	1.5 oz/a	PRE A		1.123 g/mx	105	212	316	405
6	ZIDUA LAUDIS COC AMS XTRA	85 3.5	WG SC	1.5 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		1.123 g/mx 2.343 ml/mx 15.0 ml/mx 37.5 ml/mx	106	215	311	406
7	ZIDUA IMPACT COC AMS XTRA	85 2.8	WG L	1.5 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		1.123 g/mx 0.7812 ml/mx 15.0 ml/mx 37.5 ml/mx	107	205	313	410
8	ZIDUA STATUS COC AMS XTRA	85 56	WG WG	1.5 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		1.123 g/mx 3.745 g/mx 15.0 ml/mx 37.5 ml/mx	108	213	312	402
9	DUAL II MAGNUM NO POST	7.64	EC	21.0 oz/a	PRE A		16.4 ml/mx	109	207	301	414
10	DUAL II MAGNUM LAUDIS COC AMS XTRA	7.64 3.5	EC SC	21.0 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		16.4 ml/mx 2.343 ml/mx 15.0 ml/mx 37.5 ml/mx	110	211	315	416
11	DUAL II MAGNUM IMPACT COC AMS XTRA	7.64 2.8	EC L	21.0 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		16.4 ml/mx 0.7812 ml/mx 15.0 ml/mx 37.5 ml/mx	111	216	302	404
12	DUAL II MAGNUM STATUS COC AMS XTRA	7.64 56	EC WG	21.0 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		16.4 ml/mx 3.745 g/mx 15.0 ml/mx 37.5 ml/mx	112	206	305	409
13	WARRANT NO POST	3	ME	48.0 oz/a	PRE A		37.5 ml/mx	113	201	304	401
14	WARRANT LAUDIS COC AMS XTRA	3 3.5	ME SC	48.0 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		37.5 ml/mx 2.343 ml/mx 15.0 ml/mx 37.5 ml/mx	114	204	310	412
15	WARRANT IMPACT COC AMS XTRA	3 2.8	ME L	48.0 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		37.5 ml/mx 0.7812 ml/mx 15.0 ml/mx 37.5 ml/mx	115	209	306	411
16	WARRANT STATUS COC AMS XTRA	3 56	ME WG	48.0 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B		37.5 ml/mx 3.745 g/mx 15.0 ml/mx 37.5 ml/mx	116	214	307	408

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Reps: 4
Spray vol: 15 GAL/AC
Sort Order: Treatment

Plots: 6 by 25 feet
Mix Size: 1.5 liters (.78211 liters calculated mix size)

Trial Comments

STATUS = DICAMBA (40%) + DIFLUFENZOPYR (16%) + SAFENER (ISOXADIFEN)

COC = RELIABLE (SOUTHERN STATES)

HARVEST DATE: AUGUST 23

HARVEST MOISTURE: 15.58%

YIELDS ADJUSTED TO 15.5% MOISTURE.

SUMMARY:

1) GENERALLY, PRE APPLICATIONS OF ZIDUA WERE MORE INJURIOUS THAN DUAL II MAGNUM OR WARRANT THROUGHOUT THE GROWING SEASON

2) FROM RATINGS OBTAINED ON MAY 18 (23 DAYS AFTER LAST POST TREATMENT), THE FOLLOWING OBSERVATIONS WERE MADE:

A) POST APPLICATIONS OF IMPACT PROVIDED POOR CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES (<42%).

B) PALMER AMARANTH CONTROL WAS EXCELLENT (>91%) WITH ALL TREATMENTS, EXCEPT IMPACT AS DESCRIBED ABOVE. POST HERBICIDES DID NOT SIGNIFICANTLY IMPROVE PALMER CONTROL WHEN APPLIED AFTER THE PRE HERBICIDES.

C) STATUS PROVIDED POOR CONTROL OF ANNUAL GRASSES(<15%).

D) DUAL II MAGNUM WAS MORE EFFECTIVE ON ANNUAL GRASSES THAN ZIDUA OR WARRANT.

E) POST APPLIED LAUDIS PROVIDED 86% CONTROL OF ANNUAL GRASSES.

3) FOR CORN YIELD, THERE WAS A SIGNIFICANT INTERACTION BETWEEN PRE AND POST HERBICIDES. ALL TREATMENTS RESULTED IN HIGHER YIELDS THAN THE NTC. THERE WERE SOME DIFFERENCES IN YIELD BETWEEN TREATMENTS. FOR EXAMPLE, PLOTS TREATED WITH IMPACT, DUAL II FB IMPACT, AND ZIDUA FB STATUS HAD LOWER YIELDS THAN WARRANT FB STATUS OR DUAL II FB LAUDIS.

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WEED CONTROL IN FIELD CORN
 WITHOUT ATRAZINE OR GLYPHOSATE
 Trial ID: CN-03-17 Study Dir.:
 Location: PONDER Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

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

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

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS TPANICUM/CRAB/GOOS/CROW/SI

Crop 1: ZEAMA FIELD CORN **Variety:** DEKALB DKC6659 **Planting Date:** Mar-28-17
Planting Method: MONOSEM **Rate:** 33880 SEED/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 36 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** FACTOR
Trial Initiation Comments: ACELERON SEED TRT: 800 LBS/A 5-15-30 PREPLANT;

Previous: Crops _____ **Pesticides** _____ **Year** _____
 1. SOYBEAN 2016

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.93 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.7 **CEC:** 5.0 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Mar-30-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. Apr-13-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. Apr-21-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
4. Apr-23-17	_____	0.17	IN	RAINFALL	_____	_____
5. Apr-26-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Mar-29-17	Apr-14-17	Apr-25-17	_____	_____	_____
Time of Day:	8:15 AM	7:40 AM	8:00 AM	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
Application Timing:	PRE	POST-PRE	POST+PRE	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE	_____	_____	_____
Air Temp., Unit:	70 F	58 F	60 F	_____	_____	_____
% Relative Humidity:	88	81	96	_____	_____	_____
Wind Velocity, Unit:	0 MPH	0 MPH	4 MPH	_____	_____	_____
Dew Presence (Y/N):	N	N	Y	_____	_____	_____
Water Hardness:	---	---	---	_____	_____	_____
Soil Temp., Unit:	68 F	62 F	60 F	_____	_____	_____
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIM	_____	_____	_____
% Cloud Cover:	0	0	60	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ZEAMA	_____	_____	_____	_____	_____	_____
Stage Scale:	_____	V3	V7	_____	_____	_____
Height, Unit:	_____	4 IN	12 IN	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA	_____	0.5-1"	NONE UP	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Density, Unit:		_____	_____	_____	_____	_____	_____
Weed 2	Stage: AGRASS	_____	0.5-1"	NONE UP	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
Density, Unit:		_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	SAME AS B	_____	_____	_____
Operating Pressure:	38	38	_____	_____	_____	_____	_____
Nozzle Type:	TT1	AIXR	_____	_____	_____	_____	_____
Nozzle Size:	02	11002	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	20	IN	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN	60	IN	_____	_____	_____
Boom Height, Unit:	20	IN	20	IN	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	3.5	MPH	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	WATER	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	15	GPA	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	CO2	_____	_____	_____	_____	_____
Tank Mix (Y/N):	-	-	-	-	-	-	-

Trt No	Treatment Application Comment
_____	_____

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WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR GLYPHOSATE Trial ID: CN-03-17 Study Dir.: Location: PONDER Investigator: Eric P. Prostko											
Weed Code Crop Code Part Rated Rating Data Type	----- ZEAMA - S STUNT	AMAPA CONTROL	A.GRASS CONTROL	----- ZEAMA - S STUNT	AMAPA CONTROL	A.GRASS CONTROL	----- ZEAMA - S STUNT				
Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.	PERCENT Apr-12-17	PERCENT Apr-12-17	PERCENT Apr-12-17	PERCENT Apr-24-17	PERCENT Apr-24-17	PERCENT Apr-24-17	PERCENT May-5-17				
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
TABLE OF R MEANS											
Replicate 1					0.0	74.3	74.0	4.7	90.6	80.9	9.1
Replicate 2					0.0	74.3	73.4	6.6	90.0	78.4	10.0
Replicate 3					0.0	74.3	74.0	5.0	91.3	71.6	10.6
Replicate 4					0.0	74.3	74.0	4.7	92.5	85.3	14.7
TABLE OF A (PRE) MEANS											
1 NO PRE					0.0 a	0.0 b	0.0 c	1.3 c	66.3 b	55.6 d	5.8 c
2 ZIDUA	85 WG	1.5 oz/a	PRE	A	0.0 a	99.0 a	98.8 a	13.8 a	100.0 a	86.9 b	22.5 a
3 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	5.6 b	100.0 a	96.6 a	12.3 b
4 WARRANT	3 ME	48.0 oz/a	PRE	A	0.0 a	99.0 a	97.6 b	0.3 c	98.1 a	77.2 c	3.8 c
LSD P=.10					0.00	0.00	1.08	2.26	2.97	6.60	4.21
Standard Deviation					0.00	0.00	1.67	3.49	4.58	10.19	6.50
CV					0.00	0.00	2.26	66.72	5.03	12.89	58.65
TABLE OF B (POST) MEANS											
1 NO POST					0.0 a	74.3 a	74.0 a	5.0 a	73.8 c	65.0 c	7.8 a
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B	0.0 a	74.3 a	74.3 a	4.7 a	99.7 a	90.6 a	9.9 a
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
3 IMPACT	2.8 L	1.0 oz/a	POST	B	0.0 a	74.3 a	73.4 a	5.9 a	91.9 b	83.4 ab	13.1 a
3 COC		1.0 % v/v	POST	B							
3 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
4 STATUS	56 WG	5.0 oz/a	POST	B	0.0 a	74.3 a	73.8 a	5.3 a	99.1 a	77.2 b	13.4 a
4 COC		1.0 % v/v	POST	B							
4 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
LSD P=.10					0.00	0.00	1.35	1.71	4.03	8.13	4.26
Standard Deviation					0.00	0.00	2.08	2.64	6.22	12.54	6.58
CV					0.00	0.00	2.82	50.50	6.83	15.86	59.38
TABLE OF A (PRE) B (POST) MEANS											
1 NO PRE					0.0 a	0.0 b	0.0 a	0.0 a	0.0 c	0.0 g	0.0 a
1 NO POST											
2 ZIDUA	85 WG	1.5 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	13.8 a	100.0 a	82.5 b-e	20.0 a
1 NO POST											
3 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	5.0 a	100.0 a	96.3 a	10.0 a
1 NO POST											
4 WARRANT	3 ME	48.0 oz/a	PRE	A	0.0 a	99.0 a	98.0 a	1.3 a	95.0 a	81.3 cde	1.3 a
1 NO POST											
1 NO PRE					0.0 a	0.0 b	0.0 a	2.5 a	98.8 a	97.5 a	4.3 a
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B							
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
2 ZIDUA	85 WG	1.5 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	12.5 a	100.0 a	86.3 a-d	20.0 a
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B							
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
3 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	3.8 a	100.0 a	97.5 a	10.5 a
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B							
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							

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

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Weed Code Crop Code Part Rated Rating Data Type							----- ZEAMA - S STUNT	AMAPA	A.GRASS	----- ZEAMA - S STUNT	AMAPA	A.GRASS	----- ZEAMA - S STUNT
Rating Unit Rating Date Tri-Eval Interval PRM Data Type # Subsamples, Dec.							PERCENT Apr-12-17	PERCENT Apr-12-17	PERCENT Apr-12-17	PERCENT Apr-24-17	PERCENT Apr-24-17	PERCENT Apr-24-17	PERCENT May-5-17
Tri	Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	1	2	3	4	5	6	7
4	WARRANT	3	ME	48.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	0.0 a	100.0 a	81.3 cde	5.0 a
2	LAUDIS	3.5	SC	3.0 oz/a	POST	B							
2	COC			1.0 % v/v	POST	B							
2	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
1	NO PRE						0.0 a	0.0 b	0.0 a	0.0 a	68.8 b	72.5 e	8.8 a
3	IMPACT	2.8	L	1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
2	ZIDUA	85	WG	1.5 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	15.0 a	100.0 a	91.3 abc	22.5 a
3	IMPACT	2.8	L	1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
3	DUAL II MAGNUM	7.64	EC	21.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	8.8 a	100.0 a	95.0 ab	13.8 a
3	IMPACT	2.8	L	1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
4	WARRANT	3	ME	48.0 oz/a	PRE	A	0.0 a	99.0 a	95.5 a	0.0 a	98.8 a	75.0 de	7.5 a
3	IMPACT	2.8	L	1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
1	NO PRE						0.0 a	0.0 b	0.0 a	2.5 a	97.5 a	52.5 f	10.0 a
4	STATUS	56	WG	5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
2	ZIDUA	85	WG	1.5 oz/a	PRE	A	0.0 a	99.0 a	98.0 a	13.8 a	100.0 a	87.5 a-d	27.5 a
4	STATUS	56	WG	5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
3	DUAL II MAGNUM	7.64	EC	21.0 oz/a	PRE	A	0.0 a	99.0 a	99.0 a	5.0 a	100.0 a	97.5 a	15.0 a
4	STATUS	56	WG	5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
4	WARRANT	3	ME	48.0 oz/a	PRE	A	0.0 a	99.0 a	98.0 a	0.0 a	98.8 a	71.3 e	1.3 a
4	STATUS	56	WG	5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4	SL	2.5 % v/v	POST	B							
LSD P=.10									2.48	3.34	7.17	12.59	8.84
Standard Deviation							0.00	0.00	2.06	2.77	5.96	10.45	7.34
CV							0.00	0.00	2.78	52.95	6.54	13.22	66.24

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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Weed Code Crop Code Part Rated Rating Data Type		AMAPA	A.GRASS	----- ZEAMA - S STUNT	AMAPA	A.GRASS	----- ZEAMA PLOT - YIELD	----- ZEAMA PLOT - YIELD			
Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	LBS/PLOT Aug-23-17 147 DA-A	BU/A Aug-23-17 147 DA-A TY1 - 0			
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Grow Stg	Appl Code	8	9	10	11	12	13	14
TABLE OF R MEANS											
Replicate 1					90.3	81.9	1.9	89.4	67.5	47.3	245
Replicate 2					85.9	80.9	3.8	82.5	72.5	46.5	241
Replicate 3					89.4	76.3	2.8	86.9	66.6	46.1	239
Replicate 4					93.4	87.8	0.3	93.1	84.1	46.9	243
TABLE OF A (PRE) MEANS											
1 NO PRE					66.3 b	51.6 c	0.0 b	57.2 b	34.1 c	44.8 b	232 b
2 ZIDUA	85 WG	1.5 oz/a	PRE	A	100.0 a	94.1 a	7.5 a	99.4 a	80.3 b	47.3 a	245 a
3 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	100.0 a	98.4 a	1.3 b	99.1 a	94.7 a	47.1 a	244 a
4 WARRANT	3 ME	48.0 oz/a	PRE	A	92.8 a	82.8 b	0.0 b	96.3 a	81.6 b	47.5 a	246 a
LSD P=.10					10.58	8.64	3.48	8.94	10.68	1.54	8.0
Standard Deviation					16.32	13.33	5.37	13.79	16.47	2.38	12.3
CV					18.18	16.31	245.41	15.67	22.67	5.09	5.1
TABLE OF B (POST) MEANS											
1 NO POST					73.4 c	59.4 c	2.5 a	71.3 c	55.0 d	45.4 c	235 c
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B	97.2 a	97.8 a	1.9 a	97.8 a	91.6 a	48.0 a	249 a
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
3 IMPACT	2.8 L	1.0 oz/a	POST	B	88.4 b	84.4 b	2.5 a	83.8 b	76.6 b	46.4 b	240 b
3 COC		1.0 % v/v	POST	B							
3 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
4 STATUS	56 WG	5.0 oz/a	POST	B	100.0 a	85.3 b	1.9 a	99.1 a	67.5 c	47.0 b	243 b
4 COC		1.0 % v/v	POST	B							
4 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
LSD P=.10					5.04	8.78	1.27	8.20	8.90	0.93	4.8
Standard Deviation					7.78	13.55	1.95	12.66	13.72	1.44	7.5
CV					8.66	16.58	89.34	14.39	18.89	3.09	3.1
TABLE OF A (PRE) B (POST) MEANS											
1 NO PRE 1 NO POST					0.0 d	0.0 e	0.0 c	0.0 c	0.0 e	40.3 d	209 d
2 ZIDUA	85 WG	1.5 oz/a	PRE	A	100.0 a	80.0 c	10.0 a	97.5 a	60.0 c	47.8 abc	247 abc
1 NO POST											
3 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	100.0 a	96.3 ab	0.0 c	97.5 a	93.8 a	46.5 abc	241 abc
1 NO POST											
4 WARRANT	3 ME	48.0 oz/a	PRE	A	93.8 ab	61.3 d	0.0 c	90.0 a	66.3 bc	47.0 abc	243 abc
1 NO POST											
1 NO PRE					92.5 ab	93.8 abc	0.0 c	91.3 a	86.3 ab	47.8 abc	247 abc
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B							
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
2 ZIDUA	85 WG	1.5 oz/a	PRE	A	100.0 a	100.0 a	7.5 ab	100.0 a	87.5 ab	48.0 abc	249 abc
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B							
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							
3 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	100.0 a	100.0 a	0.0 c	100.0 a	96.3 a	48.5 ab	251 ab
2 LAUDIS	3.5 SC	3.0 oz/a	POST	B							
2 COC		1.0 % v/v	POST	B							
2 AMS XTRA	3.4 SL	2.5 % v/v	POST	B							

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							AMAPA	A.GRASS	----- ZEAMA - S STUNT	AMAPA	A.GRASS	----- ZEAMA PLOT - YIELD	----- ZEAMA PLOT - YIELD
Weed Code							CONTROL	CONTROL	PERCENT	CONTROL	CONTROL	LBS/PLOT	BU/A
Crop Code									May-18-17			Aug-23-17	Aug-23-17
Part Rated												147 DA-A	147 DA-A
Rating Data Type							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	147 DA-A	TY1
Rating Unit							May-5-17	May-5-17	May-18-17	May-18-17	May-18-17		- 0
Rating Date													
Trt-Eval Interval													
PRM Data Type													
# Subsamples, Dec.													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	8	9	10	11	12	13	14
4	WARRANT	3 ME		48.0 oz/a	PRE	A	96.3 a	97.5 ab	0.0 c	100.0 a	96.3 a	47.8 abc	247 abc
2	LAUDIS	3.5 SC		3.0 oz/a	POST	B							
2	COC			1.0 % v/v	POST	B							
2	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
1	NO PRE						72.5 c	55.0 d	0.0 c	41.3 b	37.5 d	45.5 c	236 c
3	IMPACT	2.8 L		1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
2	ZIDUA	85 WG		1.5 oz/a	PRE	A	100.0 a	98.8 ab	5.0 b	100.0 a	87.5 ab	48.0 abc	249 abc
3	IMPACT	2.8 L		1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
3	DUAL II MAGNUM	7.64 EC		21.0 oz/a	PRE	A	100.0 a	98.8 ab	5.0 b	98.8 a	92.5 a	45.5 c	236 c
3	IMPACT	2.8 L		1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
4	WARRANT	3 ME		48.0 oz/a	PRE	A	81.3 bc	85.0 bc	0.0 c	95.0 a	88.8 a	46.7 abc	242 abc
3	IMPACT	2.8 L		1.0 oz/a	POST	B							
3	COC			1.0 % v/v	POST	B							
3	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
1	NO PRE						100.0 a	57.5 d	0.0 c	96.3 a	12.5 e	45.8 bc	237 bc
4	STATUS	56 WG		5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
2	ZIDUA	85 WG		1.5 oz/a	PRE	A	100.0 a	97.5 ab	7.5 ab	100.0 a	86.3 ab	45.5 c	236 c
4	STATUS	56 WG		5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
3	DUAL II MAGNUM	7.64 EC		21.0 oz/a	PRE	A	100.0 a	98.8 ab	0.0 c	100.0 a	96.3 a	48.0 abc	249 abc
4	STATUS	56 WG		5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
4	WARRANT	3 ME		48.0 oz/a	PRE	A	100.0 a	87.5 abc	0.0 c	100.0 a	75.0 abc	48.8 a	253 a
4	STATUS	56 WG		5.0 oz/a	POST	B							
4	COC			1.0 % v/v	POST	B							
4	AMS XTRA	3.4 SL		2.5 % v/v	POST	B							
LSD P=.10							14.49	14.62	2.87	15.92	22.15	2.99	15.5
Standard Deviation							12.03	12.14	2.38	13.22	18.39	2.48	12.9
CV							13.40	14.86	108.87	15.03	25.32	5.31	5.3

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)
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COMPLETE FACTORIAL AOV For ----- ZEAMA S STUNT PERCENT Apr-12-17 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	3	0.000000	0.000000	0.000	1.0000	
RA	9	0.000000	0.000000			
B	3	0.000000	0.000000	0.000	1.0000	
RB	9	0.000000	0.000000			
AB	9	0.000000	0.000000	0.000	1.0000	
RAB	27	0.000000	0.000000			

COMPLETE FACTORIAL AOV For AMAPA CONTROL PERCENT Apr-12-17 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	117612.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	3	117612.000000	39204.000000	0.000	1.0000	
RA	9	0.000000	0.000000			
B	3	0.000000	0.000000	0.000	1.0000	
RB	9	0.000000	0.000000			
AB	9	0.000000	0.000000	0.000	1.0000	
RAB	27	0.000000	0.000000			

COMPLETE FACTORIAL AOV For A.GRASS CONTROL PERCENT Apr-12-17 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	116558.437500				
R	3	4.687500	1.562500	0.369	0.7756	
A	3	116345.687500	38781.895833	13926.667	0.0001	1.1
RA	9	25.062500	2.784722			
B	3	6.687500	2.229167	0.514	0.6830	1.4
RB	9	39.062500	4.340278			
AB	9	23.062500	2.562500	0.606	0.7810	2.5
RAB	27	114.187500	4.229167			

COMPLETE FACTORIAL AOV For ----- ZEAMA S STUNT PERCENT Apr-24-17 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	2321.484375				
R	3	38.671875	12.890625	1.678	0.1952	
A	3	1804.296875	601.432292	49.313	0.0001	2.3
RA	9	109.765625	12.196181			
B	3	13.671875	4.557292	0.652	0.6014	1.7
RB	9	62.890625	6.987847			
AB	9	84.765625	9.418403	1.226	0.3206	3.3
RAB	27	207.421875	7.682292			

COMPLETE FACTORIAL AOV For AMAPA CONTROL PERCENT Apr-24-17 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	40523.437500				
R	3	54.687500	18.229167	0.514	0.6762	
A	3	13204.687500	4401.562500	209.529	0.0001	3.0
RA	9	189.062500	21.006944			
B	3	7020.312500	2340.104167	60.444	0.0001	4.0
RB	9	348.437500	38.715278			
AB	9	18748.437500	2083.159722	58.723	0.0001	7.2
RAB	27	957.812500	35.474537			

COMPLETE FACTORIAL AOV For A.GRASS CONTROL PERCENT Apr-24-17 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	42643.750000				
R	3	1587.500000	529.166667	4.843	0.0080	
A	3	14721.875000	4907.291667	47.268	0.0001	6.6
RA	9	934.375000	103.819444			
B	3	5665.625000	1888.541667	12.007	0.0017	8.1
RB	9	1415.625000	157.291667			
AB	9	15368.750000	1707.638889	15.629	0.0001	12.6
RAB	27	2950.000000	109.259259			

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COMPLETE FACTORIAL AOV For ----- ZEAMA S STUNT PERCENT May-5-17 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	6528.609375				
R	3	296.296875	98.765625	1.834	0.1648	
A	3	3425.171875	1141.723958	27.049	0.0001	4.2
RA	9	379.890625	42.210069			
B	3	347.546875	115.848958	2.677	0.1103	4.3
RB	9	389.515625	43.279514			
AB	9	236.140625	26.237847	0.487	0.8703	8.8
RAB	27	1454.046875	53.853588			

COMPLETE FACTORIAL AOV For AMAPA CONTROL PERCENT May-5-17 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	45471.484375				
R	3	457.421875	152.473958	1.054	0.3850	
A	3	12348.046875	4116.015625	15.453	0.0007	10.6
RA	9	2397.265625	266.362847			
B	3	6851.171875	2283.723958	37.772	0.0001	5.0
RB	9	544.140625	60.460069			
AB	9	18966.015625	2107.335069	14.562	0.0001	14.5
RAB	27	3907.421875	144.719329			

COMPLETE FACTORIAL AOV For A.GRASS CONTROL PERCENT May-5-17 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	51660.937500				
R	3	1082.812500	360.937500	2.449	0.0853	
A	3	21479.687500	7159.895833	40.314	0.0001	8.6
RA	9	1598.437500	177.604167			
B	3	12451.562500	4150.520833	22.618	0.0002	8.8
RB	9	1651.562500	183.506944			
AB	9	9417.187500	1046.354167	7.099	0.0001	14.6
RAB	27	3979.687500	147.395833			

COMPLETE FACTORIAL AOV For ----- ZEAMA S STUNT PERCENT May-18-17 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	1293.750000				
R	3	103.125000	34.375000	6.061	0.0027	
A	3	618.750000	206.250000	7.157	0.0093	3.5
RA	9	259.375000	28.819444			
B	3	6.250000	2.083333	0.545	0.6634	1.3
RB	9	34.375000	3.819444			
AB	9	118.750000	13.194444	2.327	0.0435	2.9
RAB	27	153.125000	5.671296			

COMPLETE FACTORIAL AOV For AMAPA CONTROL PERCENT May-18-17 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	54285.937500				
R	3	954.687500	318.229167	1.821	0.1671	
A	3	20307.812500	6769.270833	35.608	0.0001	8.9
RA	9	1710.937500	190.104167			
B	3	8276.562500	2758.854167	17.217	0.0005	8.2
RB	9	1442.187500	160.243056			
AB	9	16876.562500	1875.173611	10.733	0.0001	15.9
RAB	27	4717.187500	174.710648			

COMPLETE FACTORIAL AOV For A.GRASS CONTROL PERCENT May-18-17 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	72048.437500				
R	3	3101.562500	1033.854167	3.055	0.0454	
A	3	33804.687500	11268.229167	41.526	0.0001	10.7
RA	9	2442.187500	271.354167			
B	3	11376.562500	3792.187500	20.132	0.0002	8.9
RB	9	1695.312500	188.368056			
AB	9	10492.187500	1165.798611	3.445	0.0060	22.2
RAB	27	9135.937500	338.368056			

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)
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COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Aug-23-17 147 DA-A (Data Column 13) Missing values in column 13

results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	62	493.270833				
R	3	12.562500	4.187500	0.680	0.5722	
A	3	77.229167	25.743056	4.560	0.0332	1.5
RA	9	50.812500	5.645833			
B	3	57.854167	19.284722	9.288	0.0041	0.9
RB	9	18.687500	2.076389			
AB	9	116.020833	12.891204	2.093	0.0683	3.0
RAB	26	160.104167	6.157853			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD BU/A Aug-23-17 147 DA-A TY1 0 (Data Column 14) Missing values in column 14

results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	62	13239.754408				
R	3	337.186802	112.395601	0.680	0.5722	
A	3	2072.888018	690.962673	4.560	0.0332	8
RA	9	1363.845124	151.538347			
B	3	1552.848671	517.616224	9.288	0.0041	5
RB	9	501.586337	55.731815			
AB	9	3114.085074	346.009453	2.093	0.0683	16
RAB	26	4297.314382	165.281322			

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

PRM Data Type

TY1 = 5.180805*[C13]

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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WEED CONTROL IN FIELD CORN
 WITHOUT ATRAZINE OR GLYPHOSATE
 Trial ID: CN-03-17 Study Dir.:
 Location: PONDER Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.						----- ZEAMA - S STUNT PERCENT Apr-12-17	AMAPA CONTROL PERCENT Apr-12-17	A.GRASS CONTROL PERCENT Apr-12-17	----- ZEAMA - S STUNT PERCENT Apr-24-17	AMAPA CONTROL PERCENT Apr-24-17	A.GRASS CONTROL PERCENT Apr-24-17	
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	1	2	3	4	5	6	
1 NO PRE NO POST					101	0.0	0.0	0.0	0.0	0.0	0.0	
					202	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	
					403	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	
2 NO PRE LAUDIS COC AMS XTRA	3.5 SC		3.0 oz/a	POST B	102	0.0	0.0	0.0	0.0	100.0	100.0	
					203	0.0	0.0	0.0	0.0	100.0	100.0	
				1.0 % v/v	POST B	314	0.0	0.0	0.0	5.0	100.0	95.0
	3.4 SL		2.5 % v/v	POST B	407	0.0	0.0	0.0	5.0	95.0	95.0	
					Mean =	0.0	0.0	0.0	2.5	98.8	97.5	
3 NO PRE IMPACT COC AMS XTRA	2.8 L		1.0 oz/a	POST B	103	0.0	0.0	0.0	0.0	65.0	60.0	
					208	0.0	0.0	0.0	0.0	50.0	65.0	
				1.0 % v/v	POST B	303	0.0	0.0	0.0	60.0	65.0	
	3.4 SL		2.5 % v/v	POST B	415	0.0	0.0	0.0	0.0	100.0	100.0	
					Mean =	0.0	0.0	0.0	0.0	68.8	72.5	
4 NO PRE STATUS COC AMS XTRA	56 WG		5.0 oz/a	POST B	104	0.0	0.0	0.0	0.0	95.0	50.0	
					210	0.0	0.0	0.0	0.0	100.0	65.0	
				1.0 % v/v	POST B	308	0.0	0.0	0.0	100.0	30.0	
	3.4 SL		2.5 % v/v	POST B	413	0.0	0.0	0.0	10.0	95.0	65.0	
					Mean =	0.0	0.0	0.0	2.5	97.5	52.5	
5 ZIDUA NO POST	85 WG		1.5 oz/a	PRE A	105	0.0	99.0	99.0	15.0	100.0	95.0	
					212	0.0	99.0	99.0	15.0	100.0	65.0	
					316	0.0	99.0	99.0	15.0	100.0	75.0	
					405	0.0	99.0	99.0	10.0	100.0	95.0	
						0.0	99.0	99.0	13.8	100.0	82.5	
6 ZIDUA LAUDIS COC AMS XTRA	85 WG		1.5 oz/a	PRE A	106	0.0	99.0	99.0	15.0	100.0	95.0	
					215	0.0	99.0	99.0	15.0	100.0	90.0	
	3.5 SC		3.0 oz/a	POST B	311	0.0	99.0	99.0	10.0	100.0	85.0	
			1.0 % v/v	POST B	406	0.0	99.0	99.0	10.0	100.0	75.0	
					Mean =	0.0	99.0	99.0	12.5	100.0	86.3	
7 ZIDUA IMPACT COC AMS XTRA	85 WG		1.5 oz/a	PRE A	107	0.0	99.0	99.0	15.0	100.0	95.0	
					205	0.0	99.0	99.0	15.0	100.0	95.0	
	2.8 L		1.0 oz/a	POST B	313	0.0	99.0	99.0	15.0	100.0	75.0	
			1.0 % v/v	POST B	410	0.0	99.0	99.0	15.0	100.0	100.0	
					Mean =	0.0	99.0	99.0	15.0	100.0	91.3	
8 ZIDUA STATUS COC AMS XTRA	85 WG		1.5 oz/a	PRE A	108	0.0	99.0	99.0	10.0	100.0	95.0	
					213	0.0	99.0	99.0	20.0	100.0	100.0	
	56 WG		5.0 oz/a	POST B	312	0.0	99.0	99.0	15.0	100.0	65.0	
			1.0 % v/v	POST B	402	0.0	99.0	95.0	10.0	100.0	90.0	
					Mean =	0.0	99.0	98.0	13.8	100.0	87.5	
9 DUAL II MAGNUM NO POST	7.64 EC		21.0 oz/a	PRE A	109	0.0	99.0	99.0	5.0	100.0	95.0	
					207	0.0	99.0	99.0	10.0	100.0	95.0	
					301	0.0	99.0	99.0	0.0	100.0	95.0	
					414	0.0	99.0	99.0	5.0	100.0	100.0	
						0.0	99.0	99.0	5.0	100.0	96.3	
10 DUAL II MAGNUM LAUDIS COC AMS XTRA	7.64 EC		21.0 oz/a	PRE A	110	0.0	99.0	99.0	5.0	100.0	95.0	
					211	0.0	99.0	99.0	5.0	100.0	100.0	
	3.5 SC		3.0 oz/a	POST B	315	0.0	99.0	99.0	5.0	100.0	95.0	
			1.0 % v/v	POST B	416	0.0	99.0	99.0	0.0	100.0	100.0	
					Mean =	0.0	99.0	99.0	3.8	100.0	97.5	
11 DUAL II MAGNUM IMPACT COC AMS XTRA	7.64 EC		21.0 oz/a	PRE A	111	0.0	99.0	99.0	10.0	100.0	95.0	
					216	0.0	99.0	99.0	10.0	100.0	95.0	
	2.8 L		1.0 oz/a	POST B	302	0.0	99.0	99.0	5.0	100.0	95.0	
			1.0 % v/v	POST B	404	0.0	99.0	99.0	10.0	100.0	95.0	
					Mean =	0.0	99.0	99.0	8.8	100.0	95.0	

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.							----- ZEAMA - S STUNT PERCENT Apr-12-17	AMAPA CONTROL PERCENT Apr-12-17	A.GRASS CONTROL PERCENT Apr-12-17	----- ZEAMA - S STUNT PERCENT Apr-24-17	AMAPA CONTROL PERCENT Apr-24-17	A.GRASS CONTROL PERCENT Apr-24-17
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Grow Stg	Appl Code	Plot		1	2	3	4	5	6
12 DUAL II MAGNUM	7.64 EC	21.0 oz/a	PRE	A	112		0.0	99.0	99.0	0.0	100.0	95.0
STATUS	56 WG	5.0 oz/a	POST	B	206		0.0	99.0	99.0	10.0	100.0	95.0
COC		1.0 % v/v	POST	B	305		0.0	99.0	99.0	10.0	100.0	100.0
AMS XTRA	3.4 SL	2.5 % v/v	POST	B	409		0.0	99.0	99.0	0.0	100.0	100.0
					Mean =		0.0	99.0	99.0	5.0	100.0	97.5
13 WARRANT NO POST	3 ME	48.0 oz/a	PRE	A	113		0.0	99.0	99.0	0.0	95.0	90.0
					201		0.0	99.0	99.0	5.0	90.0	85.0
					304		0.0	99.0	95.0	0.0	100.0	65.0
					401		0.0	99.0	99.0	0.0	95.0	85.0
					Mean =		0.0	99.0	98.0	1.3	95.0	81.3
14 WARRANT LAUDIS	3 ME	48.0 oz/a	PRE	A	114		0.0	99.0	99.0	0.0	100.0	85.0
COC	3.5 SC	3.0 oz/a	POST	B	204		0.0	99.0	99.0	0.0	100.0	65.0
AMS XTRA		1.0 % v/v	POST	B	310		0.0	99.0	99.0	0.0	100.0	75.0
	3.4 SL	2.5 % v/v	POST	B	412		0.0	99.0	99.0	0.0	100.0	100.0
					Mean =		0.0	99.0	99.0	0.0	100.0	81.3
15 WARRANT IMPACT	3 ME	48.0 oz/a	PRE	A	115		0.0	99.0	99.0	0.0	95.0	85.0
COC	2.8 L	1.0 oz/a	POST	B	209		0.0	99.0	85.0	0.0	100.0	50.0
AMS XTRA		1.0 % v/v	POST	B	306		0.0	99.0	99.0	0.0	100.0	65.0
	3.4 SL	2.5 % v/v	POST	B	411		0.0	99.0	99.0	0.0	100.0	100.0
					Mean =		0.0	99.0	95.5	0.0	98.8	75.0
16 WARRANT STATUS	3 ME	48.0 oz/a	PRE	A	116		0.0	99.0	95.0	0.0	100.0	65.0
COC	56 WG	5.0 oz/a	POST	B	214		0.0	99.0	99.0	0.0	100.0	90.0
AMS XTRA		1.0 % v/v	POST	B	307		0.0	99.0	99.0	0.0	100.0	65.0
	3.4 SL	2.5 % v/v	POST	B	408		0.0	99.0	99.0	0.0	95.0	65.0
					Mean =		0.0	99.0	98.0	0.0	98.8	71.3

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.						----- ZEAMA - S STUNT PERCENT May-5-17	AMAPA CONTROL PERCENT May-5-17	A.GRASS CONTROL PERCENT May-5-17	----- ZEAMA - S STUNT PERCENT May-18-17	AMAPA CONTROL PERCENT May-18-17	A.GRASS CONTROL PERCENT May-18-17
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code Plot	7	8	9	10	11	12
1 NO PRE NO POST					101 202 309 403 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
2 NO PRE LAUDIS COC AMS XTRA	3.5 SC 3.4 SL		3.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B	102 203 314 407 Mean =	0.0 5.0 2.0 10.0 4.3	95.0 85.0 95.0 95.0 92.5	100.0 95.0 85.0 95.0 93.8	0.0 0.0 0.0 0.0 0.0	95.0 75.0 100.0 95.0 91.3	95.0 95.0 65.0 90.0 86.3
3 NO PRE IMPACT COC AMS XTRA	2.8 L 3.4 SL		1.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B	103 208 303 415 Mean =	5.0 0.0 10.0 20.0 8.8	50.0 100.0 40.0 100.0 72.5	50.0 30.0 40.0 100.0 55.0	0.0 0.0 0.0 0.0 0.0	65.0 0.0 0.0 100.0 41.3	0.0 0.0 50.0 100.0 37.5
4 NO PRE STATUS COC AMS XTRA	56 WG 3.4 SL		5.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B	104 210 308 413 Mean =	5.0 5.0 10.0 20.0 10.0	100.0 100.0 100.0 100.0 100.0	50.0 65.0 30.0 85.0 57.5	0.0 0.0 0.0 0.0 0.0	95.0 95.0 95.0 100.0 96.3	0.0 0.0 0.0 50.0 12.5
5 ZIDUA NO POST	85 WG		1.5 oz/a	PRE A	105 212 316 405 Mean =	25.0 15.0 20.0 20.0 20.0	100.0 100.0 100.0 100.0 100.0	100.0 65.0 60.0 95.0 80.0	10.0 15.0 10.0 5.0 10.0	90.0 100.0 100.0 100.0 97.5	50.0 50.0 50.0 90.0 60.0
6 ZIDUA LAUDIS COC AMS XTRA	85 WG 3.5 SC 3.4 SL		1.5 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	106 215 311 406 Mean =	25.0 15.0 20.0 20.0 20.0	100.0 100.0 100.0 100.0 100.0	100.0 100.0 100.0 100.0 100.0	10.0 10.0 10.0 0.0 7.5	100.0 100.0 100.0 100.0 100.0	65.0 95.0 95.0 95.0 87.5
7 ZIDUA IMPACT COC AMS XTRA	85 WG 2.8 L 3.4 SL		1.5 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	107 205 313 410 Mean =	20.0 20.0 30.0 20.0 22.5	100.0 100.0 100.0 100.0 100.0	100.0 100.0 100.0 95.0 98.8	0.0 10.0 10.0 0.0 5.0	100.0 100.0 100.0 100.0 100.0	90.0 100.0 75.0 85.0 87.5
8 ZIDUA STATUS COC AMS XTRA	85 WG 56 WG 3.4 SL		1.5 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	108 213 312 402 Mean =	10.0 50.0 30.0 20.0 27.5	100.0 100.0 100.0 100.0 100.0	100.0 100.0 100.0 90.0 97.5	0.0 15.0 15.0 0.0 7.5	100.0 100.0 100.0 100.0 100.0	95.0 95.0 65.0 90.0 86.3
9 DUAL II MAGNUM NO POST	7.64 EC		21.0 oz/a	PRE A	109 207 301 414 Mean =	0.0 10.0 10.0 20.0 10.0	100.0 100.0 100.0 100.0 100.0	100.0 100.0 85.0 100.0 96.3	0.0 0.0 0.0 0.0 0.0	95.0 95.0 100.0 100.0 97.5	95.0 95.0 85.0 100.0 93.8
10 DUAL II MAGNUM LAUDIS COC AMS XTRA	7.64 EC 3.5 SC 3.4 SL		21.0 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	110 211 315 416 Mean =	10.0 10.0 2.0 20.0 10.5	100.0 100.0 100.0 100.0 100.0	100.0 100.0 100.0 100.0 100.0	0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0	95.0 95.0 100.0 95.0 96.3
11 DUAL II MAGNUM IMPACT COC AMS XTRA	7.64 EC 2.8 L 3.4 SL		21.0 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	111 216 302 404 Mean =	20.0 10.0 15.0 10.0 13.8	100.0 100.0 100.0 100.0 100.0	100.0 100.0 100.0 95.0 98.8	10.0 10.0 0.0 0.0 5.0	100.0 95.0 100.0 100.0 98.8	95.0 95.0 95.0 85.0 92.5

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.							----- ZEAMA - S STUNT PERCENT May-5-17	AMAPA CONTROL PERCENT May-5-17	A.GRASS CONTROL PERCENT May-5-17	----- ZEAMA - S STUNT PERCENT May-18-17	AMAPA CONTROL PERCENT May-18-17	A.GRASS CONTROL PERCENT May-18-17
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	7	8	9	10	11	12	
12 DUAL II MAGNUM STATUS COC AMS XTRA	7.64 EC 56 WG 3.4 SL	21.0 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	112 206 305 409	20.0 10.0 15.0 15.0 Mean = 15.0	100.0 100.0 100.0 100.0 100.0	100.0 100.0 100.0 95.0 98.8	0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0	95.0 100.0 95.0 95.0 96.3	
13 WARRANT NO POST	3 ME	48.0 oz/a	PRE	A	113 201 304 401 Mean =	5.0 0.0 0.0 0.0 1.3	100.0 75.0 100.0 100.0 93.8	65.0 75.0 40.0 65.0 61.3	0.0 0.0 0.0 0.0 0.0	100.0 65.0 100.0 95.0 90.0	85.0 65.0 30.0 85.0 66.3	
14 WARRANT LAUDIS COC AMS XTRA	3 ME 3.5 SC 3.4 SL	48.0 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	114 204 310 412 Mean =	0.0 0.0 0.0 20.0 5.0	100.0 85.0 100.0 100.0 96.3	95.0 100.0 100.0 95.0 97.5	0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0	95.0 100.0 95.0 95.0 96.3	
15 WARRANT IMPACT COC AMS XTRA	3 ME 2.8 L 3.4 SL	48.0 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	115 209 306 411 Mean =	0.0 5.0 5.0 20.0 7.5	100.0 30.0 95.0 100.0 81.3	85.0 65.0 95.0 95.0 85.0	0.0 0.0 0.0 0.0 0.0	90.0 95.0 95.0 100.0 95.0	85.0 85.0 90.0 95.0 88.8	
16 WARRANT STATUS COC AMS XTRA	3 ME 56 WG 3.4 SL	48.0 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A B B B	116 214 307 408 Mean =	0.0 5.0 0.0 0.0 1.3	100.0 100.0 100.0 100.0 100.0	65.0 100.0 85.0 100.0 87.5	0.0 0.0 0.0 0.0 0.0	100.0 100.0 100.0 100.0 100.0	40.0 90.0 75.0 95.0 75.0	

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Weed Code						-----	-----
Crop Code						ZEAMA	ZEAMA
Part Rated						PLOT -	PLOT -
Rating Data Type						YIELD	YIELD
Rating Unit						LBS/PLOT	BU/A
Rating Date						Aug-23-17	Aug-23-17
Trt-Eval Interval						147 DA-A	147 DA-A
PRM Data Type						TY1	
# Subsamples, Dec.						- 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot
1	NO PRE NO POST						13
							14
						101	38.0
						202	40.0
						309	39.0
						403	44.0
						Mean =	40.3
2	NO PRE LAUDIS COC AMS XTRA	3.5	SC	3.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B	102 203 314 407	46.0 45.0 50.0 50.0
						Mean =	47.8
3	NO PRE IMPACT COC AMS XTRA	2.8	L	1.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B	103 208 303 415	47.0 45.0 43.0 47.0
						Mean =	45.5
4	NO PRE STATUS COC AMS XTRA	56	WG	5.0 oz/a 1.0 % v/v 2.5 % v/v	POST B POST B POST B	104 210 308 413	49.0 43.0 44.0 47.0
						Mean =	45.8
5	ZIDUA NO POST	85	WG	1.5 oz/a	PRE A	105 212 316 405	48.0 47.0 47.0 49.0
						Mean =	47.8
6	ZIDUA LAUDIS COC AMS XTRA	85	WG	1.5 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	106 215 311 406	48.0 47.0 45.0 52.0
						Mean =	48.0
7	ZIDUA IMPACT COC AMS XTRA	85	WG	1.5 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	107 205 313 410	51.0 50.0 47.0 44.0
						Mean =	48.0
8	ZIDUA STATUS COC AMS XTRA	85	WG	1.5 oz/a 5.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	108 213 312 402	46.0 45.0 45.0 46.0
						Mean =	45.5
9	DUAL II MAGNUM NO POST	7.64	EC	21.0 oz/a	PRE A	109 207 301 414	46.0 47.0 45.0 48.0
						Mean =	46.5
10	DUAL II MAGNUM LAUDIS COC AMS XTRA	7.64	EC	21.0 oz/a 3.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	110 211 315 416	50.0 48.0 48.0 48.0
						Mean =	48.5
11	DUAL II MAGNUM IMPACT COC AMS XTRA	7.64	EC	21.0 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE A POST B POST B POST B	111 216 302 404	43.0 45.0 46.0 48.0
						Mean =	45.5

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Weed Code							-----	-----
Crop Code							ZEAMA	ZEAMA
Part Rated							PLOT -	PLOT -
Rating Data Type							YIELD	YIELD
Rating Unit							LBS/PLOT	BU/A
Rating Date							Aug-23-17	Aug-23-17
Trt-Eval Interval							147 DA-A	147 DA-A
PRM Data Type								TY1
# Subsamples, Dec.								- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Plot 13	Plot 14
12	DUAL II MAGNUM	7.64	EC	21.0 oz/a	PRE	A 112	50.0	259
	STATUS	56	WG	5.0 oz/a	POST	B 206	49.0	254
	COC			1.0 % v/v	POST	B 305	49.0	254
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B 409	44.0	228
						Mean =	48.0	249
13	WARRANT NO POST	3	ME	48.0 oz/a	PRE	A 113	51.0	264
						201	46.0	238
						304	47.0	243
						401	44.0	228
						Mean =	47.0	243
14	WARRANT LAUDIS	3	ME	48.0 oz/a	PRE	A 114	50.0	259
	COC	3.5	SC	3.0 oz/a	POST	B 204	48.0	249
				1.0 % v/v	POST	B 310	46.0	238
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B 412	47.0	243
						Mean =	47.8	247
15	WARRANT IMPACT	3	ME	48.0 oz/a	PRE	A 115	48.0	249
	COC	2.8	L	1.0 oz/a	POST	B 209	.	.
				1.0 % v/v	POST	B 306	48.0	249
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B 411	44.0	228
						Mean =	46.7	242
16	WARRANT STATUS	3	ME	48.0 oz/a	PRE	A 116	46.0	238
	COC	56	WG	5.0 oz/a	POST	B 214	52.0	269
				1.0 % v/v	POST	B 307	49.0	254
	AMS XTRA	3.4	SL	2.5 % v/v	POST	B 408	48.0	249
						Mean =	48.8	253

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WEED CONTROL IN FIELD CORN
WITHOUT ATRAZINE OR GLYPHOSATE
Trial ID: CN-03-17 Study Dir.:
Location: PONDER Investigator: Eric P. Prostko

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
PRM Data Type
TY1 = 5.180805*[C13]