

University of Georgia

WEED CONTROL IN FIELD CORN
WITHOUT ATRAZINE OR GLYPHOSATE

Trial ID: CN-13-15 Study Dir.:
Location: ATTAPULGUS Investigator: Eric P. Prostko

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

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 CALLISTO COC AMS XTRA	4 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 CALLISTO COC AMS XTRA	85 WG 4 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 WG 2.8 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 WG 56 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	7.62 EC		21.0 oz/a	PRE A		16.4 ml/mx	109	207	301	414
10	DUAL II MAGNUM CALLISTO COC AMS XTRA	7.62 EC 4 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	7.62 EC 2.8 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	7.62 EC 56 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 CALLISTO COC AMS XTRA	3 ME 4 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 ME 2.8 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 ME 56 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 (calculated mix size .78211)

Trial Comments

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

ANNUAL GRASS = CRABGRASS + TEXAS PANICUM + SIGNALGRASS + CROWFOOTGRASS + GOOSEGRASS

YIELDS ADJUSTED TO 15.5% MOISTURE.

SUMMARY:

- 1) CORN INJURY WAS MINIMAL WITH ALL TREATMENTS.
- 2) ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (>95%)
- 3) PRE APPLIED ZIDUA AND DUAL MAGNUM PROVIDED BETTER CONTROL OF ANNUAL GRASSES THAN WARRANT.
- 4) SICKLEPOD WAS NOT CONTROLLED BY ANY TREATMENT.
- 5) GENERALLY, ANNUAL GRASS CONTROL WAS BETTER WITH PRE FB POST TREATMENTS WHEN COMPARED TO PRE OR POST ALONE.
- 6) IMPACT PROVIDED BETTER ANNUAL GRASS CONTROL THAT CALLISTO OR STATUS.
- 7) CORN YIELD DATA:
 - A) ALL TREATMENTS HAD HIGHER YIELDS THAN NTC.
 - B) ZIDUA AND DUAL MAGNUM TREATED PLOTS HAD HIGHER YIELDS THAN WARRANT TREATED PLOTS.
 - C) WITH THE EXCEPTION OF WARRANT PRE, CORN YIELDS WERE EQUIVALENT WITH EITHER PRE OR POST TREATMENTS. THERE WAS NO YIELD ADVANTAGE TO PRE + POST TREATMENTS.

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WEED CONTROL IN FIELD CORN
 WITHOUT ATRAZINE OR GLYPHOSATE
 Trial ID: CN-13-15 Study Dir.:
 Location: ATTAPULGUS 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
Weed 3. CASOB SICKLEPOD **4.** _____
Crop 1: ZEAMA FIELD CORN **Variety:** N83D-3000GT **Planting Date:** Apr-11-15
Planting Method: MONOSEM **Rate:** 34848 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: _____ **Study Design:** FACTOR
Tillage Type: CONVENTIONAL **Trial Initiation Comments:** AVICTA COMPLETE SEED TRT; VIBRANCE

Previous: Crops _____ **Pesticides** _____ **Year** _____
 1. COTTON 2014

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: LOAMY SAND **% OM:** 1.6 **% Sand:** 84 **% Silt:** 6 **% Clay:** 10
pH: 6.0 **CEC:** _____ **Soil Name:** FACEVILLE **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-2-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. Apr-18-15	_____	0.09	IN	RAINFALL	_____	_____
3. Apr-19-15	_____	1.49	IN	RAINFALL	_____	_____

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-2-15	Apr-18-15	Apr-22-15	_____	_____	_____
Time of Day:	8:45 AM	9:00 AM	8:15 AM	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
Application Timing:	PRE	POST -PRE	POST +PRE	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE	_____	_____	_____
Air Temp., Unit:	70 F	75 F	67 F	_____	_____	_____
% Relative Humidity:	81	86	83	_____	_____	_____
Wind Velocity, Unit:	1 MPH	2 MPH	0 MPH	_____	_____	_____
Dew Presence (Y/N):	N	Y	Y	_____	_____	_____
Water Hardness:	__	__	__	_____	_____	_____
Soil Temp., Unit:	67 F	71 F	65 F	_____	_____	_____
Soil Moisture:	OPTIMUM	WET	OPTIMUM	_____	_____	_____
% Cloud Cover:	100	100	0	_____	_____	_____

CROP STAGE AT EACH APPLICATION

Crop 1	Stage:	A	B	C	D	E	F
ZEAMA	_____	_____	_____	_____	_____	_____	_____
Stage Scale:	_____	V4	V5	_____	_____	_____	_____
Height, Unit:	_____	7 IN	10 IN	_____	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA	1-5"	1-3"				
Stage Scale:							
Density, Unit:							
Weed 2	Stage: AGRASS	2-4"	2-4"				
Stage Scale:							
Density, Unit:							
Weed 3	Stage: CASOB	1-2"	1-2"				
Stage Scale:							
Density, Unit:							

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	SAME AS B				
Operating Pressure:	38	38					
Nozzle Type:	AIXR	FLAT FAN					
Nozzle Size:	11002	11002DG					
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-13-15 Study Dir.: Location: ATTAPULGUS Investigator: Eric P. Prostko															
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type	# Subsamples, Dec.	ZEAMA CROP - STUNT PERCENT Apr-9-15	AMAPA ----- CONTROL PERCENT Apr-9-15	ANNUAL GRASS CONTROL PERCENT Apr-9-15	CASOB ----- CONTROL PERCENT Apr-9-15	ZEAMA CROP - STUNT PERCENT Apr-22-15	AMAPA ----- CONTROL PERCENT Apr-22-15	CASOB ----- CONTROL PERCENT Apr-22-15	
Trt Treatment	Form	Form	Rate	Grow	Appl										
No. Name	Conc	Type	Rate Unit	Stg	Code	1	2	3	4	5	6	7			
TABLE OF R MEANS															
Replicate 1						0.6	74.3	64.9	34.3	1.3	82.1	32.5			
Replicate 2						1.3	74.3	44.3	20.0	0.6	81.8	5.3			
Replicate 3						0.0	74.3	53.4	23.1	3.1	82.1	4.7			
Replicate 4						0.6	74.0	52.5	50.3	1.3	82.7	4.1			
TABLE OF A (PRE) MEANS															
1 NO PRE						0.0 a	0.0 b	0.0 c	0.0 b	0.0 b	32.5 b	17.2 a			
2 ZIDUA 85 WG 1.5 oz/a PRE A						1.3 a	99.0 a	77.4 a	47.8 a	3.8 a	99.0 a	10.6 a			
3 DUAL II MAGNUM 7.62 EC 21.0 oz/a PRE A						0.6 a	99.0 a	86.4 a	52.4 a	2.5 a	99.0 a	12.5 a			
4 WARRANT 3 ME 48.0 oz/a PRE A						0.6 a	98.8 a	51.3 b	27.5 ab	0.0 b	98.2 a	6.3 a			
LSD P=.10						1.53	0.32	19.02	30.62	1.79	1.22	16.26			
Standard Deviation						2.36	0.50	29.34	47.25	2.76	1.89	25.09			
CV						377.12	0.67	54.58	148.02	176.89	2.30	215.55			
TABLE OF B (POST) MEANS															
1 NO POST						0.0 a	74.3 a	46.9 a	31.6 a	0.9 a	74.0 c	5.6 b			
2 CALLISTO 4 SC 3.0 oz/a POST B						1.3 a	74.0 a	58.3 a	19.3 a	2.5 a	81.8 b	8.8 b			
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						0.6 a	74.3 a	49.6 a	37.1 a	1.6 a	81.1 b	8.1 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						0.6 a	74.3 a	60.3 a	39.7 a	1.3 a	91.8 a	24.1 a			
4 COC 1.0 % v/v POST B															
4 AMS XTRA 3.4 SL 2.5 % v/v POST B															
LSD P=.10						1.53	0.32	11.28	22.45	2.06	1.41	4.69			
Standard Deviation						2.36	0.50	17.40	34.63	3.17	2.18	7.24			
CV						377.12	0.67	32.36	108.50	203.09	2.66	62.23			
TABLE OF A (PRE) B (POST) MEANS															
1 NO PRE						0.0 b	0.0 a	0.0 a	0.0 a	0.0 a	0.0 d	0.0 c			
1 NO POST															
2 ZIDUA 85 WG 1.5 oz/a PRE A						0.0 b	99.0 a	75.0 a	50.0 a	3.8 a	99.0 a	0.0 c			
1 NO POST															
3 DUAL II MAGNUM 7.62 EC 21.0 oz/a PRE A						0.0 b	99.0 a	83.8 a	47.5 a	0.0 a	99.0 a	15.0 b			
1 NO POST															
4 WARRANT 3 ME 48.0 oz/a PRE A						0.0 b	99.0 a	28.8 a	28.8 a	0.0 a	98.0 a	7.5 bc			
1 NO POST															
1 NO PRE						0.0 b	0.0 a	0.0 a	0.0 a	0.0 a	30.0 c	0.0 c			
2 CALLISTO 4 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						5.0 a	99.0 a	86.0 a	37.3 a	5.0 a	99.0 a	15.0 b			
2 CALLISTO 4 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 7.62 EC 21.0 oz/a PRE A						0.0 b	99.0 a	96.0 a	40.0 a	5.0 a	99.0 a	12.5 b			
2 CALLISTO 4 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															
4 WARRANT 3 ME 48.0 oz/a PRE A						0.0 b	98.0 a	51.3 a	0.0 a	0.0 a	99.0 a	7.5 bc			
2 CALLISTO 4 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 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 Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							ZEAMA CROP - STUNT PERCENT Apr-9-15	AMAPA ----- CONTROL PERCENT Apr-9-15	ANNUAL GRASS CONTROL PERCENT Apr-9-15	CASOB ----- CONTROL PERCENT Apr-9-15	ZEAMA CROP - STUNT PERCENT Apr-22-15	AMAPA ----- CONTROL PERCENT Apr-22-15	CASOB ----- CONTROL PERCENT Apr-22-15
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	NO PRE						0.0 b	0.0 a	0.0 a	0.0 a	0.0 a	27.5 c	0.0 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	0.0 b	99.0 a	68.8 a	40.0 a	3.8 a	99.0 a	12.5 b
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	7.62	EC	21.0 oz/a	PRE	A	0.0 b	99.0 a	81.0 a	72.3 a	2.5 a	99.0 a	15.0 b
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	2.5 ab	99.0 a	48.8 a	36.3 a	0.0 a	99.0 a	5.0 bc
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 b	0.0 a	0.0 a	0.0 a	0.0 a	72.5 b	68.8 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 b	99.0 a	79.8 a	63.8 a	2.5 a	99.0 a	15.0 b
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	7.62	EC	21.0 oz/a	PRE	A	2.5 ab	99.0 a	85.0 a	50.0 a	2.5 a	99.0 a	7.5 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							
4	WARRANT	3	ME	48.0 oz/a	PRE	A	0.0 b	99.0 a	76.3 a	45.0 a	0.0 a	96.8 a	5.0 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							
LSD P=.10							2.72	0.60	22.34	34.83	3.99	4.28	11.38
Standard Deviation							2.26	0.50	18.54	28.92	3.32	3.55	9.45
CV							361.07	0.67	34.49	90.59	212.22	4.33	81.17

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Weed Code						ANNUAL GRASS	----- ZEAMA PLANT -	AMAPA -----	ANNUAL GRASS	AMAPA -----	ANNUAL GRASS	----- ZEAMA PLOT -	
Crop Code						CONTROL PERCENT	STUNTING PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	YIELD LBS/PLOT	
Part Rated						Apr-22-15	May-4-15	May-4-15	May-4-15	Jun-9-15	Jun-9-15	Aug-27-15	
Rating Data Type													
Rating Unit													
Rating Date													
PRM Data Type													
# Subsamples, Dec.												- 2	
Trt Treatment	Form	Form	Rate	Grow	Appl								
No. Name	Conc	Type	Rate	Unit	Stg	Code	8	9	10	11	12	13	14
TABLE OF R MEANS													
Replicate 1						64.5	5.9	92.8	65.3	92.6	41.3	45.15	
Replicate 2						60.3	4.1	92.8	63.4	91.6	35.3	44.63	
Replicate 3						66.3	3.2	92.8	66.6	92.8	36.3	42.86	
Replicate 4						56.9	6.6	92.8	64.1	92.8	37.2	43.78	
TABLE OF A (PRE) MEANS													
1 NO PRE						25.0 c	0.0 c	74.3 b	38.8 c	72.8 b	16.3 c	43.26 a	
2 ZIDUA	85 WG		1.5 oz/a	PRE	A	86.1 a	11.6 a	99.0 a	80.6 a	99.0 a	50.9 a	43.90 a	
3 DUAL II MAGNUM	7.62 EC		21.0 oz/a	PRE	A	86.8 a	5.4 b	99.0 a	84.7 a	99.0 a	53.1 a	45.52 a	
4 WARRANT	3 ME		48.0 oz/a	PRE	A	50.0 b	2.8 bc	99.0 a	55.3 b	99.0 a	29.7 b	43.75 a	
LSD P=.10						14.49	4.19	.	8.80	1.46	10.96	2.744	
Standard Deviation						22.36	6.47	0.00	13.58	2.26	16.91	4.234	
CV						36.07	131.02	0.00	20.95	2.44	45.11	9.600	
TABLE OF B (POST) MEANS													
1 NO POST						48.1 c	4.7 a	74.3 b	38.1 c	74.3 b	18.8 c	41.58 c	
2 CALLISTO	4 SC		3.0 oz/a	POST	B	67.4 ab	3.8 a	99.0 a	70.3 b	99.0 a	35.3 b	46.09 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	62.1 b	5.3 a	99.0 a	84.7 a	97.8 a	58.8 a	45.10 ab	
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	70.3 a	5.9 a	99.0 a	66.3 b	98.8 a	37.2 b	43.65 bc	
4 COC			1.0 % v/v	POST	B								
4 AMS XTRA	3.4 SL		2.5 % v/v	POST	B								
LSD P=.10						7.93	2.75	.	9.16	1.61	7.02	2.131	
Standard Deviation						12.24	4.25	0.00	14.14	2.48	10.83	3.287	
CV						19.74	85.99	0.00	21.80	2.68	28.89	7.453	
TABLE OF A (PRE) B (POST) MEANS													
1 NO PRE						0.0 f	0.0 a	0.0 b	0.0 f	0.0 c	0.0 g	33.00 e	
1 NO POST													
2 ZIDUA	85 WG		1.5 oz/a	PRE	A	81.3 a	12.5 a	99.0 a	68.8 cd	99.0 a	32.5 de	45.61 abc	
1 NO POST													
3 DUAL II MAGNUM	7.62 EC		21.0 oz/a	PRE	A	83.8 a	6.3 a	99.0 a	76.3 bc	99.0 a	42.5 cd	46.91 ab	
1 NO POST													
4 WARRANT	3 ME		48.0 oz/a	PRE	A	27.5 e	0.0 a	99.0 a	7.5 f	99.0 a	0.0 g	40.80 d	
1 NO POST													
1 NO PRE						30.0 de	0.0 a	99.0 a	40.0 e	99.0 a	5.0 g	47.01 ab	
2 CALLISTO	4 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	92.3 a	8.8 a	99.0 a	87.5 a	99.0 a	60.0 ab	46.01 abc	
2 CALLISTO	4 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	7.62 EC		21.0 oz/a	PRE	A	92.5 a	4.0 a	99.0 a	88.8 a	99.0 a	53.8 abc	44.79 a-d	
2 CALLISTO	4 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								
4 WARRANT	3 ME		48.0 oz/a	PRE	A	55.0 bc	2.5 a	99.0 a	65.0 d	99.0 a	22.5 ef	46.56 abc	
2 CALLISTO	4 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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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							ANNUAL GRASS CONTROL PERCENT Apr-22-15	----- ZEAMA PLANT - STUNTING PERCENT May-4-15	AMAPA ----- CONTROL PERCENT May-4-15	ANNUAL GRASS CONTROL PERCENT May-4-15	AMAPA ----- CONTROL PERCENT Jun-9-15	ANNUAL GRASS CONTROL PERCENT Jun-9-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-27-15 - 2
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Unit	Stg Stg	Appl Code	8	9	10	11	12	13	14
1 NO PRE 3 IMPACT 3 COC 3 AMS XTRA	2.8 L		1.0 oz/a 1.0 % v/v 2.5 % v/v	POST POST POST	B B B		27.5 e	0.0 a	99.0 a	80.0 ab	94.3 b	50.0 bc	48.21 a
2 ZIDUA 3 IMPACT 3 COC 3 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 POST POST POST	A B B B		86.0 a	11.3 a	99.0 a	85.0 ab	99.0 a	57.5 ab	43.14 bcd
3 DUAL II MAGNUM 3 IMPACT 3 COC 3 AMS XTRA	7.62 EC 2.8 L 3.4 SL		21.0 oz/a 1.0 oz/a 1.0 % v/v 2.5 % v/v	PRE POST POST POST	A B B B		81.0 a	7.5 a	99.0 a	83.8 ab	99.0 a	63.8 a	43.84 a-d
4 WARRANT 3 IMPACT 3 COC 3 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		53.8 bc	2.5 a	99.0 a	90.0 a	99.0 a	63.8 a	45.20 a-d
1 NO PRE 4 STATUS 4 COC 4 AMS XTRA	56 WG 3.4 SL		5.0 oz/a 1.0 % v/v 2.5 % v/v	POST POST POST	B B B		42.5 cd	0.0 a	99.0 a	35.0 e	98.0 a	10.0 fg	44.80 a-d
2 ZIDUA 4 STATUS 4 COC 4 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 POST POST POST	A B B B		85.0 a	13.8 a	99.0 a	81.3 ab	99.0 a	53.8 abc	40.85 d
3 DUAL II MAGNUM 4 STATUS 4 COC 4 AMS XTRA	7.62 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		90.0 a	3.8 a	99.0 a	90.0 a	99.0 a	52.5 abc	46.52 abc
4 WARRANT 4 STATUS 4 COC 4 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		63.8 b	6.3 a	99.0 a	58.8 d	99.0 a	32.5 de	42.45 cd
LSD P=.10							13.83	5.27	.	10.39	2.99	13.25	4.404
Standard Deviation							11.48	4.37	0.00	8.63	2.48	11.00	3.640
CV							18.52	88.55	0.00	13.31	2.68	29.33	8.253

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Weed Code							-----	-----
Crop Code							ZEAMA	ZEAMA
Part Rated							PLOT -	PLOT -
Rating Data Type							MOISTURE	YIELD
Rating Unit							PERCENT	BU/A
Rating Date							Aug-27-15	Aug-27-15
PRM Data Type								TY1
# Subsamples, Dec.							- 2	- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code	15	16
1	NO PRE						13.65 a	256 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	12.23 a	232 a-d
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	7.62	EC	21.0 oz/a	PRE	A	12.29 a	236 a-d
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	13.18 a	241 a-d
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						12.09 a	242 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		
2	ZIDUA	85	WG	1.5 oz/a	PRE	A	12.46 a	219 cd
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	7.62	EC	21.0 oz/a	PRE	A	12.32 a	250 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	12.94 a	227 bcd
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							1.345	23.4
Standard Deviation							1.112	19.3
CV							8.756	8.2

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COMPLETE FACTORIAL AOV For ZEAMA CROP STUNT PERCENT Apr-9-15 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	375.000000				
R	3	12.500000	4.166667	0.818	0.4952	
A	3	12.500000	4.166667	0.750	0.5493	1.5
RA	9	50.000000	5.555556			
B	3	12.500000	4.166667	0.750	0.5493	1.5
RB	9	50.000000	5.555556			
AB	9	100.000000	11.111111	2.182	0.0567	2.7
RAB	27	137.500000	5.092593			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Apr-9-15 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	117429.750000				
R	3	0.750000	0.250000	1.000	0.4079	
A	3	117414.750000	39138.250000	156553.016	0.0001	0.3
RA	9	2.250000	0.250000			
B	3	0.750000	0.250000	1.000	0.4363	0.3
RB	9	2.250000	0.250000			
AB	9	2.250000	0.250000	1.000	0.4635	0.6
RAB	27	6.750000	0.250000			

COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Apr-9-15 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	101271.484375				
R	3	3450.796875	1150.265625	3.345	0.0338	
A	3	72350.796875	24116.932292	28.010	0.0001	19.0
RA	9	7749.140625	861.015625			
B	3	2037.546875	679.182292	2.244	0.1524	11.3
RB	9	2723.890625	302.654514			
AB	9	3673.890625	408.210069	1.187	0.3424	22.3
RAB	27	9285.421875	343.904514			

COMPLETE FACTORIAL AOV For CASOB ----- CONTROL PERCENT Apr-9-15 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	98460.609375				
R	3	9032.796875	3010.932292	3.600	0.0262	
A	3	27359.671875	9119.890625	4.085	0.0437	30.6
RA	9	20092.890625	2232.543403			
B	3	3944.046875	1314.682292	1.096	0.3998	22.4
RB	9	10796.015625	1199.557292			
AB	9	4654.140625	517.126736	0.618	0.7709	34.8
RAB	27	22581.046875	836.335069			

COMPLETE FACTORIAL AOV For ZEAMA CROP STUNT PERCENT Apr-22-15 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	743.750000				
R	3	56.250000	18.750000	1.705	0.1895	
A	3	168.750000	56.250000	7.364	0.0085	1.8
RA	9	68.750000	7.638889			
B	3	21.875000	7.291667	0.724	0.5626	2.1
RB	9	90.625000	10.069444			
AB	9	40.625000	4.513889	0.411	0.9183	4.0
RAB	27	296.875000	10.995370			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Apr-22-15 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	63829.109375				
R	3	6.546875	2.182292	0.173	0.9139	
A	3	52642.671875	17547.557292	4913.658	0.0001	1.2
RA	9	32.140625	3.571181			
B	3	2575.921875	858.640625	180.174	0.0001	1.4
RB	9	42.890625	4.765625			
AB	9	8187.765625	909.751736	71.997	0.0001	4.3
RAB	27	341.171875	12.635995			

COMPLETE FACTORIAL AOV For CASOB ----- CONTROL PERCENT Apr-22-15 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	33802.734375				
R	3	9294.921875	3098.307292	34.703	0.0001	
A	3	985.546875	328.515625	0.522	0.6779	16.3
RA	9	5666.015625	629.557292			
B	3	3379.296875	1126.432292	21.467	0.0002	4.7
RB	9	472.265625	52.473958			
AB	9	11594.140625	1288.237847	14.429	0.0001	11.4
RAB	27	2410.546875	89.279514			

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COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Apr-22-15 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	61010.984375				
R	3	854.796875	284.932292	2.162	0.1157	
A	3	43370.796875	14456.932292	28.923	0.0001	14.5
RA	9	4498.640625	499.848958			
B	3	4658.921875	1552.973958	10.368	0.0028	7.9
RB	9	1348.015625	149.779514			
AB	9	2721.515625	302.390625	2.295	0.0461	13.8
RAB	27	3558.296875	131.788773			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT STUNTING PERCENT May-4-15 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	2515.750000				
R	3	119.500000	39.833333	2.084	0.1259	
A	3	1167.625000	389.208333	9.301	0.0040	4.2
RA	9	376.625000	41.847222			
B	3	39.500000	13.166667	0.730	0.5594	2.8
RB	9	162.250000	18.027778			
AB	9	134.125000	14.902778	0.780	0.6365	5.3
RAB	27	516.125000	19.115741			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT May-4-15 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	36753.750000				
R	3	0.000000	0.000000	0.000	1.0000	
A	3	7350.750000	2450.250000	0.000	1.0000	.
RA	9	0.000000	0.000000			
B	3	7350.750000	2450.250000	0.000	1.0000	.
RB	9	0.000000	0.000000			
AB	9	22052.250000	2450.250000	0.000	1.0000	.
RAB	27	0.000000	0.000000			

COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT May-4-15 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	56748.437500				
R	3	92.187500	30.729167	0.413	0.7453	
A	3	22632.812500	7544.270833	40.880	0.0001	8.8
RA	9	1660.937500	184.548611			
B	3	18232.812500	6077.604167	30.414	0.0001	9.2
RB	9	1798.437500	199.826389			
AB	9	10320.312500	1146.701389	15.396	0.0001	10.4
RAB	27	2010.937500	74.479167			

COMPLETE FACTORIAL AOV For AMAPA ----- CONTROL PERCENT Jun-9-15 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	36837.859375				
R	3	15.296875	5.098958	0.828	0.4898	
A	3	8229.421875	2743.140625	537.981	0.0001	1.5
RA	9	45.890625	5.098958			
B	3	7081.421875	2360.473958	383.535	0.0001	1.6
RB	9	55.390625	6.154514			
AB	9	21244.265625	2360.473958	383.535	0.0001	3.0
RAB	27	166.171875	6.154514			

COMPLETE FACTORIAL AOV For ANNUAL GRASS CONTROL PERCENT Jun-9-15 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	63	39700.000000				
R	3	328.125000	109.375000	0.904	0.4519	
A	3	14996.875000	4998.958333	17.472	0.0004	11.0
RA	9	2575.000000	286.111111			
B	3	12928.125000	4309.375000	36.719	0.0001	7.0
RB	9	1056.250000	117.361111			
AB	9	4550.000000	505.555556	4.180	0.0018	13.2
RAB	27	3265.625000	120.949074			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Aug-27-15 2 (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	60	1432.338842				
R	3	48.397542	16.132514	1.218	0.3248	
A	3	46.100049	15.366683	0.857	0.4975	2.74
RA	9	161.359894	17.928877			
B	3	184.210969	61.403656	5.682	0.0183	2.13
RB	9	97.262686	10.806965			
AB	9	576.996463	64.110718	4.838	0.0009	4.40
RAB	24	318.011238	13.250468			

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COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT MOISTURE PERCENT Aug-27-15 2 (Data Column 15) Missing values in column 15 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	60	97.076947				
R	3	3.117756	1.039252	0.841	0.4849	
A	3	11.102928	3.700976	2.270	0.1493	0.83
RA	9	14.670993	1.630110			
B	3	10.954986	3.651662	3.738	0.0540	0.64
RB	9	8.791308	0.976812			
AB	9	18.773878	2.085986	1.688	0.1471	1.35
RAB	24	29.665097	1.236046			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD BU/A Aug-27-15 TY1 0 (Data Column 16) Missing values in column 16 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	60	44224.917935				
R	3	1210.685508	403.561836	1.081	0.3758	
A	3	1682.134921	560.711640	1.010	0.4324	15
RA	9	4997.218083	555.246454			
B	3	6280.967020	2093.655673	6.511	0.0124	12
RB	9	2894.085287	321.565032			
AB	9	18203.505521	2022.611725	5.420	0.0004	23
RAB	24	8956.321594	373.180066			

Weed Code
 AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
 CASOB = SICKLEPOD / CASSIA OBTUSIFOLIA L.
Part Rated
 PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
PRM Data Type
 TY1 = 5.185714*[14]*(100-@MVAVGREP([15]))/84.5

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WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR GLYPHOSATE													
Trial ID: CN-13-15						Study Dir.:							
Location: ATTAPULGUS						Investigator: Eric P. Prostko							
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type	# Subsamples, Dec.	ZEAMA CROP - STUNT PERCENT Apr-9-15	AMAPA CONTROL PERCENT Apr-9-15	ANNUAL GRASS CONTROL PERCENT Apr-9-15	CASOB CONTROL PERCENT Apr-9-15	ZEAMA CROP - STUNT PERCENT Apr-22-15	AMAPA CONTROL PERCENT Apr-22-15
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
1	NO PRE NO POST						101 202 309 403 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 CALLISTO COC AMS XTRA	4 SC		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 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	30.0 30.0 30.0 30.0 30.0
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 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	20.0 30.0 30.0 30.0 27.5
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 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	85.0 65.0 65.0 75.0 72.5
5	ZIDUA NO POST	85 WG		1.5 oz/a	PRE A		105 212 316 405 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	65.0 85.0 75.0 75.0 75.0	50.0 75.0 0.0 75.0 50.0	5.0 0.0 10.0 0.0 3.8	99.0 99.0 99.0 99.0 99.0
6	ZIDUA CALLISTO COC AMS XTRA	85 WG 4 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		106 215 311 406 Mean =	10.0 10.0 0.0 0.0 5.0	99.0 99.0 99.0 99.0 99.0	99.0 85.0 85.0 75.0 86.0	99.0 0.0 0.0 50.0 37.3	10.0 0.0 0.0 10.0 5.0	99.0 99.0 99.0 99.0 99.0
7	ZIDUA IMPACT COC AMS XTRA	85 WG 2.8 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		107 205 313 410 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	95.0 0.0 95.0 85.0 68.8	85.0 0.0 0.0 75.0 40.0	0.0 5.0 10.0 0.0 3.8	99.0 99.0 99.0 99.0 99.0
8	ZIDUA STATUS COC AMS XTRA	85 WG 56 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 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	99.0 85.0 85.0 50.0 79.8	85.0 75.0 0.0 95.0 63.8	0.0 0.0 10.0 0.0 2.5	99.0 99.0 99.0 99.0 99.0
9	DUAL II MAGNUM NO POST	7.62 EC		21.0 oz/a	PRE A		109 207 301 414 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	95.0 95.0 50.0 95.0 83.8	0.0 0.0 95.0 95.0 47.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0
10	DUAL II MAGNUM CALLISTO COC AMS XTRA	7.62 EC 4 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		110 211 315 416 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	95.0 99.0 95.0 95.0 96.0	85.0 75.0 0.0 0.0 40.0	0.0 0.0 10.0 10.0 5.0	99.0 99.0 99.0 99.0 99.0
11	DUAL II MAGNUM IMPACT COC AMS XTRA	7.62 EC 2.8 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		111 216 302 404 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	95.0 99.0 65.0 65.0 81.0	85.0 20.0 99.0 85.0 72.3	0.0 0.0 10.0 0.0 2.5	99.0 99.0 99.0 99.0 99.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							ZEAMA CROP - STUNT PERCENT Apr-9-15	AMAPA ----- CONTROL PERCENT Apr-9-15	ANNUAL GRASS CONTROL PERCENT Apr-9-15	CASOB ----- CONTROL PERCENT Apr-9-15	ZEAMA CROP - STUNT PERCENT Apr-22-15	AMAPA ----- CONTROL PERCENT Apr-22-15		
Trt	Treatment	Form	Form	Rate	Grow	Appl	1	2	3	4	5	6		
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot						
12	DUAL II MAGNUM	7.62	EC	21.0	oz/a	PRE	A	112	0.0	99.0	95.0	30.0	5.0	99.0
	STATUS	56	WG	5.0	oz/a	POST	B	206	10.0	99.0	95.0	0.0	5.0	99.0
	COC			1.0	% v/v	POST	B	305	0.0	99.0	65.0	95.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	409	0.0	99.0	85.0	75.0	0.0	99.0
								Mean =	2.5	99.0	85.0	50.0	2.5	99.0
13	WARRANT	3	ME	48.0	oz/a	PRE	A	113	0.0	99.0	85.0	30.0	0.0	99.0
	NO POST							201	0.0	99.0	0.0	0.0	0.0	95.0
								304	0.0	99.0	30.0	0.0	0.0	99.0
								401	0.0	99.0	0.0	85.0	0.0	99.0
								Mean =	0.0	99.0	28.8	28.8	0.0	98.0
14	WARRANT	3	ME	48.0	oz/a	PRE	A	114	0.0	99.0	65.0	0.0	0.0	99.0
	CALLISTO	4	SC	3.0	oz/a	POST	B	204	0.0	99.0	0.0	0.0	0.0	99.0
	COC			1.0	% v/v	POST	B	310	0.0	99.0	75.0	0.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	412	0.0	95.0	65.0	0.0	0.0	99.0
								Mean =	0.0	98.0	51.3	0.0	0.0	99.0
15	WARRANT	3	ME	48.0	oz/a	PRE	A	115	0.0	99.0	65.0	0.0	0.0	99.0
	IMPACT	2.8	L	1.0	oz/a	POST	B	209	0.0	99.0	0.0	0.0	0.0	99.0
	COC			1.0	% v/v	POST	B	306	0.0	99.0	65.0	50.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	411	10.0	99.0	65.0	95.0	0.0	99.0
								Mean =	2.5	99.0	48.8	36.3	0.0	99.0
16	WARRANT	3	ME	48.0	oz/a	PRE	A	116	0.0	99.0	85.0	0.0	0.0	90.0
	STATUS	56	WG	5.0	oz/a	POST	B	214	0.0	99.0	65.0	75.0	0.0	99.0
	COC			1.0	% v/v	POST	B	307	0.0	99.0	70.0	30.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	408	0.0	99.0	85.0	75.0	0.0	99.0
								Mean =	0.0	99.0	76.3	45.0	0.0	96.8

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						CASOB ----- CONTROL PERCENT Apr-22-15	ANNUAL GRASS CONTROL PERCENT Apr-22-15	----- ZEAMA PLANT - STUNTING PERCENT May-4-15	AMAPA ----- CONTROL PERCENT May-4-15	ANNUAL GRASS CONTROL PERCENT May-4-15	AMAPA ----- CONTROL PERCENT Jun-9-15			
Trt	Treatment	Form	Form	Rate	Grow	Appl	7	8	9	10	11	12		
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot						
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		
2	NO PRE CALLISTO COC AMS XTRA	4 SC		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 0.0 0.0 0.0 0.0	30.0 30.0 30.0 30.0 30.0	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	30.0 20.0 50.0 60.0 40.0	99.0 99.0 99.0 99.0 99.0
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 Mean =	0.0 0.0 0.0 0.0 0.0	20.0 30.0 30.0 30.0 27.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	65.0 85.0 85.0 85.0 80.0	99.0 80.0 99.0 99.0 94.3
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 Mean =	50.0 85.0 75.0 65.0 68.8	0.0 60.0 70.0 40.0 42.5	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	20.0 50.0 40.0 30.0 35.0	95.0 99.0 99.0 99.0 98.0
5	ZIDUA NO POST	85 WG		1.5 oz/a		PRE A		105 212 316 405 Mean =	0.0 0.0 0.0 0.0 0.0	65.0 90.0 95.0 75.0 81.3	10.0 15.0 15.0 10.0 12.5	99.0 99.0 99.0 99.0 99.0	65.0 80.0 65.0 65.0 68.8	99.0 99.0 99.0 99.0 99.0
6	ZIDUA CALLISTO COC AMS XTRA	85 WG 4 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		106 215 311 406 Mean =	60.0 0.0 0.0 0.0 15.0	99.0 90.0 95.0 85.0 92.3	10.0 10.0 0.0 15.0 8.8	99.0 99.0 99.0 99.0 99.0	85.0 85.0 95.0 85.0 87.5	99.0 99.0 99.0 99.0 99.0
7	ZIDUA IMPACT COC AMS XTRA	85 WG 2.8 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		107 205 313 410 Mean =	50.0 0.0 0.0 0.0 12.5	99.0 75.0 95.0 75.0 86.0	10.0 10.0 15.0 10.0 11.3	99.0 99.0 99.0 99.0 99.0	95.0 75.0 75.0 95.0 85.0	99.0 99.0 99.0 99.0 99.0
8	ZIDUA STATUS COC AMS XTRA	85 WG 56 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 Mean =	60.0 0.0 0.0 0.0 15.0	90.0 90.0 95.0 65.0 85.0	20.0 15.0 10.0 10.0 13.8	99.0 99.0 99.0 99.0 99.0	85.0 90.0 85.0 65.0 81.3	99.0 99.0 99.0 99.0 99.0
9	DUAL II MAGNUM NO POST	7.62 EC		21.0 oz/a		PRE A		109 207 301 414 Mean =	60.0 0.0 0.0 0.0 15.0	95.0 95.0 65.0 80.0 83.8	10.0 0.0 0.0 15.0 6.3	99.0 99.0 99.0 99.0 99.0	85.0 90.0 65.0 65.0 76.3	99.0 99.0 99.0 99.0 99.0
10	DUAL II MAGNUM CALLISTO COC AMS XTRA	7.62 EC 4 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		110 211 315 416 Mean =	50.0 0.0 0.0 0.0 12.5	95.0 95.0 95.0 85.0 92.5	0.0 0.0 1.0 15.0 4.0	99.0 99.0 99.0 99.0 99.0	95.0 85.0 90.0 85.0 88.8	99.0 99.0 99.0 99.0 99.0
11	DUAL II MAGNUM IMPACT COC AMS XTRA	7.62 EC 2.8 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		111 216 302 404 Mean =	60.0 0.0 0.0 0.0 15.0	99.0 95.0 65.0 65.0 81.0	0.0 15.0 10.0 5.0 7.5	99.0 99.0 99.0 99.0 99.0	85.0 90.0 75.0 85.0 83.8	99.0 99.0 99.0 99.0 99.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						CASOB ----- CONTROL PERCENT Apr-22-15	ANNUAL GRASS CONTROL PERCENT Apr-22-15	----- ZEAMA PLANT - STUNTING PERCENT May-4-15	AMAPA ----- CONTROL PERCENT May-4-15	ANNUAL GRASS CONTROL PERCENT May-4-15	AMAPA ----- CONTROL PERCENT Jun-9-15			
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	7	8	9	10	11	12
12	DUAL II MAGNUM	7.62	EC	21.0	oz/a	PRE	A	112	30.0	95.0	0.0	99.0	90.0	99.0
	STATUS	56	WG	5.0	oz/a	POST	B	206	0.0	95.0	0.0	99.0	90.0	99.0
	COC			1.0	% v/v	POST	B	305	0.0	95.0	0.0	99.0	95.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	409	0.0	75.0	15.0	99.0	85.0	99.0
								Mean =	7.5	90.0	3.8	99.0	90.0	99.0
13	WARRANT	3	ME	48.0	oz/a	PRE	A	113	30.0	60.0	0.0	99.0	30.0	99.0
	NO POST							201	0.0	0.0	0.0	99.0	0.0	99.0
								304	0.0	30.0	0.0	99.0	0.0	99.0
								401	0.0	20.0	0.0	99.0	0.0	99.0
								Mean =	7.5	27.5	0.0	99.0	7.5	99.0
14	WARRANT	3	ME	48.0	oz/a	PRE	A	114	30.0	60.0	10.0	99.0	60.0	99.0
	CALLISTO	4	SC	3.0	oz/a	POST	B	204	0.0	30.0	0.0	99.0	50.0	99.0
	COC			1.0	% v/v	POST	B	310	0.0	70.0	0.0	99.0	90.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	412	0.0	60.0	0.0	99.0	60.0	99.0
								Mean =	7.5	55.0	2.5	99.0	65.0	99.0
15	WARRANT	3	ME	48.0	oz/a	PRE	A	115	20.0	60.0	10.0	99.0	95.0	99.0
	IMPACT	2.8	L	1.0	oz/a	POST	B	209	0.0	30.0	0.0	99.0	75.0	99.0
	COC			1.0	% v/v	POST	B	306	0.0	65.0	0.0	99.0	95.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	411	0.0	60.0	0.0	99.0	95.0	99.0
								Mean =	5.0	53.8	2.5	99.0	90.0	99.0
16	WARRANT	3	ME	48.0	oz/a	PRE	A	116	20.0	65.0	15.0	99.0	60.0	99.0
	STATUS	56	WG	5.0	oz/a	POST	B	214	0.0	60.0	0.0	99.0	50.0	99.0
	COC			1.0	% v/v	POST	B	307	0.0	65.0	0.0	99.0	60.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	B	408	0.0	65.0	10.0	99.0	65.0	99.0
								Mean =	5.0	63.8	6.3	99.0	58.8	99.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						ANNUAL GRASS CONTROL PERCENT Jun-9-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-27-15	----- ZEAMA PLOT - MOISTURE PERCENT Aug-27-15	----- ZEAMA PLOT - YIELD BU/A Aug-27-15 TY1 - 0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	13	14	15	16
1	NO PRE NO POST						101 202 309 403 Mean =	0.0 0.0 0.0 0.0 0.0	33.95 36.46 27.84 33.73 33.00	18.67 16.06 11.41 14.46 15.15	169 188 151 177 171
2	NO PRE CALLISTO COC AMS XTRA	4 SC		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 0.0 0.0 20.0 5.0	46.84 47.83 47.89 45.49 47.01	12.04 12.75 12.02 12.20 12.25	253 256 259 245 253
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 Mean =	50.0 60.0 30.0 60.0 50.0	48.53 52.95 49.49 41.88 48.21	14.78 11.92 13.77 14.13 13.65	254 286 262 221 256
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 Mean =	0.0 20.0 10.0 10.0 10.0	43.92 48.10 44.42 42.77 44.80	12.75 11.65 11.50 12.45 12.09	235 261 241 230 242
5	ZIDUA NO POST	85 WG		1.5 oz/a	PRE A		105 212 316 405 Mean =	40.0 30.0 40.0 20.0 32.5	49.54 43.35 44.37* 45.20 45.61	11.99 11.63 11.62* 12.16 11.85	268 235 240* 244 247
6	ZIDUA CALLISTO COC AMS XTRA	85 WG 4 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		106 215 311 406 Mean =	65.0 60.0 65.0 50.0 60.0	47.36 41.75 49.24 45.68* 46.01	11.35 13.60 11.52 11.92* 12.10	258 221 267 247* 248
7	ZIDUA IMPACT COC AMS XTRA	85 WG 2.8 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		107 205 313 410 Mean =	75.0 30.0 60.0 65.0 57.5	46.59 45.64 35.50 44.81 43.14	12.17 12.94 12.01 11.78 12.23	251 244 192 243 232
8	ZIDUA STATUS COC AMS XTRA	85 WG 56 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 Mean =	50.0 65.0 60.0 40.0 53.8	41.01 45.29 30.98 46.11 40.85	12.68 12.93 12.24 11.98 12.46	220 242 167 249 219
9	DUAL II MAGNUM NO POST	7.62 EC		21.0 oz/a	PRE A		109 207 301 414 Mean =	50.0 50.0 20.0 50.0 42.5	48.49 47.70 43.42 48.04 46.91	12.91 13.91 13.93 11.73 13.12	259 252 229 260 250
10	DUAL II MAGNUM CALLISTO COC AMS XTRA	7.62 EC 4 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		110 211 315 416 Mean =	75.0 50.0 50.0 40.0 53.8	47.58 43.96 43.55* 44.09 44.79	11.90 12.19 12.07* 13.04 12.30	257 237 235* 235 241
11	DUAL II MAGNUM IMPACT COC AMS XTRA	7.62 EC 2.8 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		111 216 302 404 Mean =	75.0 80.0 50.0 50.0 63.8	48.07 37.66 44.77 44.87 43.84	12.20 13.01 11.89 12.05 12.29	259 201 242 242 236

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							ANNUAL GRASS CONTROL PERCENT Jun-9-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-27-15 - 2	----- ZEAMA PLOT - MOISTURE PERCENT Aug-27-15 - 2	----- ZEAMA PLOT - YIELD BU/A Aug-27-15 TY1 - 0	
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code Plot	13	14	15	16	
12 DUAL II MAGNUM STATUS COC AMS XTRA	7.62 56	EC WG	21.0 5.0	oz/a oz/a	PRE POST	A B B B	112 206 305 409	55.0 50.0 50.0 55.0	50.20 48.13 47.07 40.67	11.71 12.18 12.99 12.39	272 259 251 219
						Mean =	52.5	46.52	12.32	250	
13 WARRANT NO POST	3	ME	48.0	oz/a	PRE	A	113 201 304 401	0.0 0.0 0.0 0.0	40.07 39.39 41.35 42.40	12.45 13.78 12.68 13.41	215 208 222 225
						Mean =	0.0	40.80	13.08	218	
14 WARRANT CALLISTO COC AMS XTRA	3 4	ME SC	48.0 3.0	oz/a oz/a	PRE POST	A B B B	114 204 310 412	20.0 0.0 50.0 20.0	46.81 43.05 46.93 49.45	11.94 12.22 11.88 12.65	253 232 254 265
						Mean =	22.5	46.56	12.17	251	
15 WARRANT IMPACT COC AMS XTRA	3 2.8	ME L	48.0 1.0	oz/a oz/a	PRE POST	A B B B	115 209 306 411	75.0 50.0 65.0 65.0	45.93 48.39 42.78 43.69	13.20 14.45 12.71 12.34	245 254 229 235
						Mean =	63.8	45.20	13.18	241	
16 WARRANT STATUS COC AMS XTRA	3 56	ME WG	48.0 5.0	oz/a oz/a	PRE POST	A B B B	116 214 307 408	30.0 20.0 30.0 50.0	37.50 44.50 46.17 41.61	11.77 13.09 15.22 11.67	203 237 240 226
						Mean =	32.5	42.45	12.94	227	

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WEED CONTROL IN FIELD CORN
WITHOUT ATRAZINE OR GLYPHOSATE

Trial ID: CN-13-15 Study Dir.:
Location: ATTAPULGUS Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
CASOB = SICKLEPOD / CASSIA OBTUSIFOLIA L.

Part Rated

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

PRM Data Type

TY1 = $5.185714 * [14] * (100 - @MVAVGREP([15])) / 84.5$