

University of Georgia

PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Trial ID: CN-07-12 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 gal/ac Mix size: 1.5 liters (min .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC							101	203	309	410
2	ZIDUA	85 WG		2.0 OZ/A	PRE	A	1.498 g/mx	102	211	305	408
	SHARPEN	2.85 SC		2.5 OZ/A	PRE	A	1.953 ml/mx				
	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx				
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	37.5 ml/mx				
3	ZIDUA	85 WG		2.0 OZ/A	PRE	A	1.498 g/mx	103	212	302	407
	SHARPEN	2.85 SC		2.5 OZ/A	PRE	A	1.953 ml/mx				
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	37.5 ml/mx				
4	VERDICT	5.57 EC		12.0 OZ/A	PRE	A	9.374 ml/mx	104	206	308	405
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	37.5 ml/mx				
5	VERDICT	5.57 EC		12.0 OZ/A	PRE	A	9.374 ml/mx	105	209	312	406
	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx				
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	37.5 ml/mx				
6	ZIDUA	85 WG		2.0 OZ/A	PRE	A	1.498 g/mx	106	207	303	409
	VERDICT	5.57 EC		10.0 OZ/A	PRE	A	7.812 ml/mx				
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	37.5 ml/mx				
7	GUARDSMAN MAX	5 SC		3.0 PT/A	PRE	A	37.5 ml/mx	107	210	301	403
	SHARPEN	2.85 SC		2.5 OZ/A	PRE	A	1.953 ml/mx				
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	37.5 ml/mx				
8	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx	108	201	306	401
	ROUNDUP WM	5.5 SL		22.0 OZ/A	POST	B	17.19 ml/mx				
	ATRAZINE	4 L		1.5 QT/A	POST	B	37.5 ml/mx				
9	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx	109	202	310	412
	ATRAZINE	4 L		1.5 QT/A	POST	B	37.5 ml/mx				
	COC			1.0 % V/V	POST	B	15.0 ml/mx				
10	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx	110	205	311	404
	STEADFAST Q	37.7 DG		1.5 OZ/A	POST	B	1.123 g/mx				
	ATRAZINE	4 L		1.5 QT/A	POST	B	37.5 ml/mx				
	COC			1.0 % V/V	POST	B	15.0 ml/mx				
11	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx	111	204	307	411
	CAPRENO	3.45 SC		3.0 OZ/A	POST	B	2.343 ml/mx				
	ATRAZINE	4 L		1.5 QT/A	POST	B	37.5 ml/mx				
	COC			1.0 % V/V	POST	B	15.0 ml/mx				
12	ATRAZINE	4 L		1.0 QT/A	PRE	A	25.0 ml/mx	112	208	304	402
	HALEX GT	4.39 EC		3.6 PT/A	POST	B	45.0 ml/mx				
	ATRAZINE	4 L		1.5 QT/A	POST	B	37.5 ml/mx				
	COC			1.0 % V/V	POST	B	15.0 ml/mx				

Sort Order: Replicate 1

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Trial Comments

VERDICT = SAFLUFENACIL (0.57 LBS/GAL) + DIMETHENAMID (5.0 LBS/GAL)
GUARDSMAN MAX = DIMETHENAMID (1.7 LBS/GAL) + ATRAZINE (3.3 LBS/GAL)
STEADFAST Q = NICOSULFURON (25.2%) + RIMSULFURON (12.5%) + ISOXADIFEN
CAPRENO = THIENCARBAZONE (0.57 LBS/GAL) + TEMBOTRIONE (2.88 LBS/GAL) + ISOXADIFEN
HALEX GT = S-MOC (2.09 LBS/GAL) + GLYPHOSATE (2.09 LBS/GAL) + MESOTRIONE (0.209 LBS/GAL)

COC = RELIABLE

ANNUAL GRASS = TEXAS MILLET + CRABGRASS + GOOSEGRASS + CROWFOOTGRASS

HARVEST MOISTURE: 17.04%

YIELD ADJUSTED TO 15.5% MOISTURE

SUMMARY:

1) GENERALLY, SIGNIFICANT CORN STUNTING WAS OBSERVED EARLY IN THE SEASON FROM PRE TREATMENTS THAT CONTAINED SHARPEN OR VERDICT.

2) ON MAY 18 (57 DAP), THE FOLLOWING WEED CONTROL OBSERVATIONS WERE MADE:

A) ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (99% CONTROL).

B) ALL TREATMENTS PROVIDED POOR CONTROL (<65%) OF ANNUAL GRASSES EXCEPT FOR THE FOLLOWING:

ATRAZINE (PRE) FB STEADFAST Q + ATRAZINE (POST) = 78% CONTROL.

3) ALL HERBICIDE TREATED PLOTS HAD HIGHER YIELDS THAN THE NTC EXCEPT FOR THE ATRAZINE (PRE) FB ATRAZINE (POST) TREATMENT. THE SPLIT APPLICATION OF ATRAZINE ALSO RESULTED IN LOWER YIELDS THAN THE OTHER HERBICIDE TREATMENTS (I.E. NO ANNUAL GRASS CONTROL. THERE WERE NO OTHER DIFFERENCES IN YIELD BETWEEN HERBICIDE TREATMENTS EXCEPT FOR THE FOLLOWING:

VERDICT (PRE) FB ROUNDUP (POST) > ATRAZINE (PRE) FB STEADFAST Q + ATRAZINE (POST)

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GENERAL TRIAL INFORMATION

Study Director: SANDY NEWELL **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.** GRASS MILLET+CROW + CRAB+GOOSE
Crop 1: ZEAMA FIELD CORN **Variety:** DKC 66-97 **Planting Date:** Mar-22-12
Planting Method: MONOSEM **Rate:** 24891 S/A **Depth:** 1.5 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:** RACOB
Trial Initiation Comments: PONCHO/VOTIVO SEED TREATMENTS

Previous: Crops **Pesticides** **Year**
1. PEANUT 2011 _____

MAINTENANCE

Field Prep./Maintenance: _____
No. Date Treatment Name Form Form Form Rate Unit
1. _____

SOIL DESCRIPTION

Texture: SAND **% OM:** 1.02 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** _____ **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date Time Amount Unit Type Interval Unit
1. Mar-23-12 3 HAT 0.5 IN SPRINKLER - WATER CANNON _____
2. Mar-23-12 _____ 0.39 IN RAINFALL _____
3. Mar-24-12 _____ 0.31 IN RAINFALL _____
4. Mar-27-12 _____ 0.5 IN SPRINKLER - LATERAL MOVE _____

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

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CN-07-12

Study Dir.:

SANDY NEWELL

Location:

PONDER FARM

Investigator:

Eric P. Prostko

		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	Mar-23-12	Apr-10-12					
Time of Day:	7:30 AM	7:20 AM					
Application Method:	BROADCAST	BROADCAST					
Application Timing:	PRE	EPOST					
Applic. Placement:	SOIL	FOLIAGE					
Air Temp., Unit:	65 F	47 F					
% Relative Humidity:	61	84					
Wind Velocity, Unit:	3 MPH	0 MPH					
Dew Presence (Y/N):	Y	Y					
Water Hardness:	--	--					
Soil Temp., Unit:	68 F	65 F					
Soil Moisture:	OPTIMUM	FAIR					
% Cloud Cover:	5	5					

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: ZEAMA						
	Stage Scale:		V2-V3				
	Height, Unit:		7 IN				

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA		1-2"				
	Stage Scale:						
	Density, Unit:						
Weed 2	Stage: GRASS		1-2"				
	Stage Scale:						
	Density, Unit:						

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME					
Operating Pressure:	38						
Nozzle Type:	FLAT FAN						
Nozzle Size:	11002DG						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN					
Boom Height, Unit:	17	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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Weed Code Crop Code Part Rated Rating Data Type						----- ZEAMA PLANT - STUNTING	AMAPA ----- CONTROL	ANNUAL GRASS CONTROL	----- ZEAMA PLANT - STUNTING	----- ZEAMA PLANT - CHLOROSIS
Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Trt-Eval Interval PRM Data Type # Subsamples, Dec.						PERCENT Apr-4-12	PERCENT Apr-4-12	PERCENT Apr-4-12	PERCENT Apr-23-12	PERCENT Apr-23-12
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	NTC						0.0 a	0.0 b	0.0 c	0.0 c
2	ZIDUA SHARPEN ATRAZINE ROUNDUP WMAX AMS XTRA	85 WG 2.85 SC 4 L 5.5 SL 3.4 SL		2.0 OZ/A 2.5 OZ/A 1.0 QT/A 22.0 OZ/A 2.5 % V/V	PRE PRE PRE POST POST	A A A B B	0.0 a	99.0 a	67.5 b	22.5 a
3	ZIDUA SHARPEN ROUNDUP WMAX AMS XTRA	85 WG 2.85 SC 5.5 SL 3.4 SL		2.0 OZ/A 2.5 OZ/A 22.0 OZ/A 2.5 % V/V	PRE PRE POST POST	A A B B	0.0 a	99.0 a	62.5 b	10.0 abc
4	VERDICT ROUNDUP WMAX AMS XTRA	5.57 EC 5.5 SL 3.4 SL		12.0 OZ/A 22.0 OZ/A 2.5 % V/V	PRE POST POST	A B B	2.5 a	99.0 a	66.3 b	17.5 ab
5	VERDICT ATRAZINE ROUNDUP WMAX AMS XTRA	5.57 EC 4 L 5.5 SL 3.4 SL		12.0 OZ/A 1.0 QT/A 22.0 OZ/A 2.5 % V/V	PRE PRE POST POST	A A B B	0.0 a	99.0 a	72.5 ab	20.0 a
6	ZIDUA VERDICT ROUNDUP WMAX AMS XTRA	85 WG 5.57 EC 5.5 SL 3.4 SL		2.0 OZ/A 10.0 OZ/A 22.0 OZ/A 2.5 % V/V	PRE PRE POST POST	A A B B	0.0 a	99.0 a	87.5 a	13.8 abc
7	GUARDSMAN MAX SHARPEN ROUNDUP WMAX AMS XTRA	5 SC 2.85 SC 5.5 SL 3.4 SL		3.0 PT/A 2.5 OZ/A 22.0 OZ/A 2.5 % V/V	PRE PRE POST POST	A A B B	2.5 a	99.0 a	61.3 b	23.8 a

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)

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 PLANT - STUNTING	AMAPA ----- CONTROL	ANNUAL GRASS CONTROL	----- ZEAMA PLANT - STUNTING	----- ZEAMA PLANT - CHLOROSI
Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Trt-Eval Interval PRM Data Type # Subsamples, Dec.						PERCENT Apr-4-12	PERCENT Apr-4-12	PERCENT Apr-4-12	PERCENT Apr-23-12	PERCENT Apr-23-12
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
8	ATRAZINE ROUNDUP WM ATRAZINE	4 L 5.5 SL 4 L		1.0 QT/A 22.0 OZ/A 1.5 QT/A	PRE POST POST	A B B	0.0 a	99.0 a	0.0 c	5.0 bc 2.5 a
9	ATRAZINE ATRAZINE COC	4 L 4 L		1.0 QT/A 1.5 QT/A 1.0 % V/V	PRE POST POST	A B B	0.0 a	99.0 a	0.0 c	2.5 c 0.0 a
10	ATRAZINE STEADFAST Q ATRAZINE COC	4 L 37.7 DG 4 L		1.0 QT/A 1.5 OZ/A 1.5 QT/A 1.0 % V/V	PRE POST POST POST	A B B B	0.0 a	99.0 a	16.3 c	5.0 bc 2.5 a
11	ATRAZINE CAPRENO ATRAZINE COC	4 L 3.45 SC 4 L		1.0 QT/A 3.0 OZ/A 1.5 QT/A 1.0 % V/V	PRE POST POST POST	A B B B	0.0 a	99.0 a	12.5 c	3.8 bc 2.5 a
12	ATRAZINE HALEX GT ATRAZINE COC	4 L 4.39 EC 4 L		1.0 QT/A 3.6 PT/A 1.5 QT/A 1.0 % V/V	PRE POST POST POST	A B B B	0.0 a	99.0 a	12.5 c	13.8 abc 7.5 a
LSD (P=.10)						2.49	0.00	15.26	12.73	7.56
Standard Deviation						2.07	0.00	12.72	10.61	6.30
CV						497.27	0.0	33.27	92.59	137.38
Grand Mean						0.42	90.75	38.23	11.46	4.58
Bartlett's X2						0.0	0.0	30.519	17.175	5.274
P(Bartlett's X2)						.	.	0.001*	0.071	0.81
Replicate F						0.647	0.000	4.880	5.287	2.032
Replicate Prob(F)						0.5904	1.0000	0.0064	0.0043	0.1285
Treatment F						0.882	0.000	28.223	2.421	1.471
Treatment Prob(F)						0.5658	1.0000	0.0001	0.0245	0.1893

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Trt-Eval Interval PRM Data Type # Subsamples, Dec.							AMAPA ----- CONTROL PERCENT Apr-23-12	ANNUAL GRASS CONTROL PERCENT Apr-23-12	AMAPA ----- CONTROL PERCENT May-18-12	ANNUAL GRASS CONTROL PERCENT May-18-12	----- ZEAMA YIELD LBS/PLOT Aug-25-12
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code				
1	NTC							0.0 b	0.0 d	0.0 b	0.0 g 24.5 c
2	ZIDUA SHARPEN ATRAZINE ROUNDUP WMAX AMS XTRA	85 2.85 4 5.5 3.4	WG SC L SL SL	2.0 2.5 1.0 22.0 2.5	OZ/A OZ/A QT/A OZ/A % V/V	PRE PRE PRE POST POST	A A A B B	99.0 a	80.0 a	99.0 a	56.3 bcd 38.8 ab
3	ZIDUA SHARPEN ROUNDUP WMAX AMS XTRA	85 2.85 5.5 3.4	WG SC SL SL	2.0 2.5 22.0 2.5	OZ/A OZ/A OZ/A % V/V	PRE PRE POST POST	A A B B	99.0 a	82.5 a	99.0 a	56.3 bcd 38.3 ab
4	VERDICT ROUNDUP WMAX AMS XTRA	5.57 5.5 3.4	EC SL SL	12.0 22.0 2.5	OZ/A OZ/A % V/V	PRE POST POST	A B B	99.0 a	73.8 ab	99.0 a	35.0 f 41.0 a
5	VERDICT ATRAZINE ROUNDUP WMAX AMS XTRA	5.57 4 5.5 3.4	EC L SL SL	12.0 1.0 22.0 2.5	OZ/A QT/A OZ/A % V/V	PRE PRE POST POST	A A B B	99.0 a	81.3 a	99.0 a	47.5 cde 37.8 ab
6	ZIDUA VERDICT ROUNDUP WMAX AMS XTRA	85 5.57 5.5 3.4	WG EC SL SL	2.0 10.0 22.0 2.5	OZ/A OZ/A OZ/A % V/V	PRE PRE POST POST	A A B B	99.0 a	81.3 a	99.0 a	61.3 b 40.5 ab
7	GUARDSMAN MAX SHARPEN ROUNDUP WMAX AMS XTRA	5 2.85 5.5 3.4	SC SC SL SL	3.0 2.5 22.0 2.5	PT/A OZ/A OZ/A % V/V	PRE PRE POST POST	A A B B	99.0 a	75.0 ab	99.0 a	40.0 ef 38.8 ab

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Weed Code	AMAPA	ANNUAL	AMAPA	ANNUAL	----
Crop Code	----	GRASS	----	GRASS	ZEAMA
Part Rated					
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	LBS/PLOT
Rating Date	Apr-23-12	Apr-23-12	May-18-12	May-18-12	Aug-25-12
Crop Stage					
Crop Stage Scale					
Weed Stage					
Weed Density, Unit					
Footnote Number					
Trt-Eval Interval					
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment	Form Form	Rate	Grow	Appl	
No. Name	Conc Type Rate Unit	Stg	Code		
8 ATRAZINE	4 L	1.0 QT/A	PRE A		
ROUNDUP WM	5.5 SL	22.0 OZ/A	POST B		
ATRAZINE	4 L	1.5 QT/A	POST B		
				99.0 a	77.5 ab
				99.0 a	45.0 def
					38.5 ab
9 ATRAZINE	4 L	1.0 QT/A	PRE A		
ATRAZINE	4 L	1.5 QT/A	POST B		
COC		1.0 % V/V	POST B		
				99.0 a	20.0 c
				99.0 a	0.0 g
					27.5 c
10 ATRAZINE	4 L	1.0 QT/A	PRE A		
STEADFAST Q	37.7 DG	1.5 OZ/A	POST B		
ATRAZINE	4 L	1.5 QT/A	POST B		
COC		1.0 % V/V	POST B		
				99.0 a	70.0 b
				99.0 a	77.5 a
					34.0 b
11 ATRAZINE	4 L	1.0 QT/A	PRE A		
CAPRENO	3.45 SC	3.0 OZ/A	POST B		
ATRAZINE	4 L	1.5 QT/A	POST B		
COC		1.0 % V/V	POST B		
				99.0 a	68.8 b
				99.0 a	53.8 bcd
					35.0 ab
12 ATRAZINE	4 L	1.0 QT/A	PRE A		
HALEX GT	4.39 EC	3.6 PT/A	POST B		
ATRAZINE	4 L	1.5 QT/A	POST B		
COC		1.0 % V/V	POST B		
				99.0 a	81.3 a
				99.0 a	60.0 bc
					35.5 ab
LSD (P=.10)	0.00	8.40	0.00	11.28	5.81
Standard Deviation	0.00	7.00	0.00	9.40	4.84
CV	0.0	10.62	0.0	21.18	13.5
Grand Mean	90.75	65.94	90.75	44.38	35.83
Bartlett's X2	0.0	5.173	0.0	4.36	10.499
P(Bartlett's X2)	.	0.879	.	0.886	0.486
Replicate F	0.000	4.602	0.000	10.418	0.648
Replicate Prob(F)	1.0000	0.0085	1.0000	0.0001	0.5899
Treatment F	0.000	58.878	0.000	24.916	4.414
Treatment Prob(F)	1.0000	0.0001	1.0000	0.0001	0.0004

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Weed Code	-----
Crop Code	ZEAMA
Part Rated	
Rating Data Type	YIELD
Rating Unit	BU/A
Rating Date	Aug-25-12
Crop Stage	
Crop Stage Scale	
Weed Stage	
Weed Density, Unit	
Footnote Number	
Trt-Eval Interval	
PRM Data Type	TY1
# Subsamples, Dec.	- 0
Trt Treatment	Form Form Rate Grow Appl
No. Name	Conc Type Rate Unit Stg Code
1 NTC	125 c
2 ZIDUA	85 WG 2.0 OZ/A PRE A
SHARPEN	2.85 SC 2.5 OZ/A PRE A
ATRAZINE	4 L 1.0 QT/A PRE A
ROUNDUP WMAX	5.5 SL 22.0 OZ/A POST B
AMS XTRA	3.4 SL 2.5 % V/V POST B
3 ZIDUA	85 WG 2.0 OZ/A PRE A
SHARPEN	2.85 SC 2.5 OZ/A PRE A
ROUNDUP WMAX	5.5 SL 22.0 OZ/A POST B
AMS XTRA	3.4 SL 2.5 % V/V POST B
4 VERDICT	5.57 EC 12.0 OZ/A PRE A
ROUNDUP WMAX	5.5 SL 22.0 OZ/A POST B
AMS XTRA	3.4 SL 2.5 % V/V POST B
5 VERDICT	5.57 EC 12.0 OZ/A PRE A
ATRAZINE	4 L 1.0 QT/A PRE A
ROUNDUP WMAX	5.5 SL 22.0 OZ/A POST B
AMS XTRA	3.4 SL 2.5 % V/V POST B
6 ZIDUA	85 WG 2.0 OZ/A PRE A
VERDICT	5.57 EC 10.0 OZ/A PRE A
ROUNDUP WMAX	5.5 SL 22.0 OZ/A POST B
AMS XTRA	3.4 SL 2.5 % V/V POST B
7 GUARDSMAN MAX	5 SC 3.0 PT/A PRE A
SHARPEN	2.85 SC 2.5 OZ/A PRE A
ROUNDUP WMAX	5.5 SL 22.0 OZ/A POST B
AMS XTRA	3.4 SL 2.5 % V/V POST B

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Weed Code							----
Crop Code							ZEAMA
Part Rated							
Rating Data Type							YIELD
Rating Unit							BU/A
Rating Date							Aug-25-12
Crop Stage							
Crop Stage Scale							
Weed Stage							
Weed Density, Unit							
Footnote Number							
Trt-Eval Interval							
PRM Data Type							TY1
# Subsamples, Dec.							- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	
8	ATRAZINE	4 L		1.0 QT/A	PRE	A	196 ab
	ROUNDUP WM	5.5 SL		22.0 OZ/A	POST	B	
	ATRAZINE	4 L		1.5 QT/A	POST	B	
9	ATRAZINE	4 L		1.0 QT/A	PRE	A	140 c
	ATRAZINE	4 L		1.5 QT/A	POST	B	
	COC			1.0 % V/V	POST	B	
10	ATRAZINE	4 L		1.0 QT/A	PRE	A	173 b
	STEADFAST Q	37.7 DG		1.5 OZ/A	POST	B	
	ATRAZINE	4 L		1.5 QT/A	POST	B	
	COC			1.0 % V/V	POST	B	
11	ATRAZINE	4 L		1.0 QT/A	PRE	A	178 ab
	CAPRENO	3.45 SC		3.0 OZ/A	POST	B	
	ATRAZINE	4 L		1.5 QT/A	POST	B	
	COC			1.0 % V/V	POST	B	
12	ATRAZINE	4 L		1.0 QT/A	PRE	A	181 ab
	HALEX GT	4.39 EC		3.6 PT/A	POST	B	
	ATRAZINE	4 L		1.5 QT/A	POST	B	
	COC			1.0 % V/V	POST	B	
LSD (P=.10)							29.6
Standard Deviation							24.6
CV							13.5
Grand Mean							182.43
Bartlett's X2							10.499
P(Bartlett's X2)							0.486
Replicate F							0.648
Replicate Prob(F)							0.5899
Treatment F							4.414
Treatment Prob(F)							0.0004

University of Georgia

PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Trial ID: CN-07-12 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Trt-Eval Interval PRM Data Type # Subsamples, Dec.							----- ZEAMA PLANT - STUNTING PERCENT Apr-4-12	AMAPA ----- CONTROL PERCENT Apr-4-12	ANNUAL GRASS CONTROL PERCENT Apr-4-12	----- ZEAMA PLANT - STUNTING PERCENT Apr-23-12	----- ZEAMA PLANT - CHLOROSI PERCENT Apr-23-12
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot			
1	NTC						101	0.0	0.0	0.0	0.0
							203	0.0	0.0	0.0	0.0
							309	0.0	0.0	0.0	0.0
							410	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0
2	ZIDUA	85	WG	2.0	OZ/A	PRE	A	102	0.0	99.0	75.0
	SHARPEN	2.85	SC	2.5	OZ/A	PRE	A	211	0.0	99.0	65.0
	ATRAZINE	4	L	1.0	QT/A	PRE	A	305	0.0	99.0	65.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	408	0.0	99.0	65.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B				0.0
							Mean =	0.0	99.0	67.5	22.5
3	ZIDUA	85	WG	2.0	OZ/A	PRE	A	103	0.0	99.0	65.0
	SHARPEN	2.85	SC	2.5	OZ/A	PRE	A	212	0.0	99.0	65.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	302	0.0	99.0	50.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	407	0.0	99.0	70.0
							Mean =	0.0	99.0	62.5	10.0
4	VERDICT	5.57	EC	12.0	OZ/A	PRE	A	104	0.0	99.0	65.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	206	0.0	99.0	70.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	308	10.0	99.0	65.0
							405	0.0	99.0	65.0	10.0
							Mean =	2.5	99.0	66.3	17.5
5	VERDICT	5.57	EC	12.0	OZ/A	PRE	A	105	0.0	99.0	75.0
	ATRAZINE	4	L	1.0	QT/A	PRE	A	209	0.0	99.0	65.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	312	0.0	99.0	65.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	406	0.0	99.0	85.0
							Mean =	0.0	99.0	72.5	20.0
6	ZIDUA	85	WG	2.0	OZ/A	PRE	A	106	0.0	99.0	90.0
	VERDICT	5.57	EC	10.0	OZ/A	PRE	A	207	0.0	99.0	85.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	303	0.0	99.0	85.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	409	0.0	99.0	90.0
							Mean =	0.0	99.0	87.5	13.8

PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Weed Code							-----	AMAPA	ANNUAL	-----	-----
Crop Code							ZEAMA			ZEAMA	ZEAMA
Part Rated							PLANT -			PLANT -	PLANT -
Rating Data Type							STUNTING	CONTROL	CONTROL	STUNTING	CHLOROSI
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date							Apr-4-12	Apr-4-12	Apr-4-12	Apr-23-12	Apr-23-12
Crop Stage											
Crop Stage Scale											
Weed Stage											
Weed Density, Unit											
Footnote Number											
Trt-Eval Interval											
PRM Data Type											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	Plot				
7	GUARDSMAN MAX SHARPEN	5 SC	3.0 PT/A	PRE	A	107	0.0	99.0	65.0	10.0	10.0
	ROUNDUP WMAX	2.85 SC	2.5 OZ/A	PRE	A	210	10.0	99.0	65.0	30.0	20.0
	AMS XTRA	5.5 SL	22.0 OZ/A	POST	B	301	0.0	99.0	50.0	30.0	10.0
		3.4 SL	2.5 % V/V	POST	B	403	0.0	99.0	65.0	25.0	10.0
	Mean =						2.5	99.0	61.3	23.8	12.5
8	ATRAZINE	4 L	1.0 QT/A	PRE	A	108	0.0	99.0	0.0	0.0	0.0
	ROUNDUP WM	5.5 SL	22.0 OZ/A	POST	B	201	0.0	99.0	0.0	20.0	10.0
	ATRAZINE	4 L	1.5 QT/A	POST	B	306	0.0	99.0	0.0	0.0	0.0
						401	0.0	99.0	0.0	0.0	0.0
	Mean =						0.0	99.0	0.0	5.0	2.5
9	ATRAZINE	4 L	1.0 QT/A	PRE	A	109	0.0	99.0	0.0	0.0	0.0
	ATRAZINE	4 L	1.5 QT/A	POST	B	202	0.0	99.0	0.0	10.0	0.0
	COC		1.0 % V/V	POST	B	310	0.0	99.0	0.0	0.0	0.0
						412	0.0	99.0	0.0	0.0	0.0
	Mean =						0.0	99.0	0.0	2.5	0.0
10	ATRAZINE	4 L	1.0 QT/A	PRE	A	110	0.0	99.0	65.0	0.0	0.0
	STEADFAST Q	37.7 DG	1.5 OZ/A	POST	B	205	0.0	99.0	0.0	10.0	0.0
	ATRAZINE	4 L	1.5 QT/A	POST	B	311	0.0	99.0	0.0	0.0	0.0
	COC		1.0 % V/V	POST	B	404	0.0	99.0	0.0	10.0	10.0
	Mean =						0.0	99.0	16.3	5.0	2.5
11	ATRAZINE	4 L	1.0 QT/A	PRE	A	111	0.0	99.0	50.0	0.0	0.0
	CAPRENO	3.45 SC	3.0 OZ/A	POST	B	204	0.0	99.0	0.0	10.0	10.0
	ATRAZINE	4 L	1.5 QT/A	POST	B	307	0.0	99.0	0.0	0.0	0.0
	COC		1.0 % V/V	POST	B	411	0.0	99.0	0.0	5.0	0.0
	Mean =						0.0	99.0	12.5	3.8	2.5
12	ATRAZINE	4 L	1.0 QT/A	PRE	A	112	0.0	99.0	50.0	0.0	0.0
	HALEX GT	4.39 EC	3.6 PT/A	POST	B	208	0.0	99.0	0.0	0.0	0.0
	ATRAZINE	4 L	1.5 QT/A	POST	B	304	0.0	99.0	0.0	40.0	20.0
	COC		1.0 % V/V	POST	B	402	0.0	99.0	0.0	15.0	10.0
	Mean =						0.0	99.0	12.5	13.8	7.5

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PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Trial ID: CN-07-12 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Footnote Number Trt-Eval Interval PRM Data Type # Subsamples, Dec.						AMAPA ----- CONTROL PERCENT Apr-23-12	ANNUAL GRASS CONTROL PERCENT Apr-23-12	AMAPA ----- CONTROL PERCENT May-18-12	ANNUAL GRASS CONTROL PERCENT May-18-12	----- ZEAMA YIELD LBS/PLOT Aug-25-12
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
1	NTC						101		0.0	0.0
							203		0.0	0.0
							309		0.0	0.0
							410		0.0	0.0
							Mean =		0.0	0.0
2	ZIDUA	85	WG	2.0	OZ/A	PRE	A	102	99.0	85.0
	SHARPEN	2.85	SC	2.5	OZ/A	PRE	A	211	99.0	75.0
	ATRAZINE	4	L	1.0	QT/A	PRE	A	305	99.0	75.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	408	99.0	85.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B			
							Mean =		99.0	80.0
3	ZIDUA	85	WG	2.0	OZ/A	PRE	A	103	99.0	85.0
	SHARPEN	2.85	SC	2.5	OZ/A	PRE	A	212	99.0	80.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	302	99.0	75.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	407	99.0	90.0
							Mean =		99.0	82.5
4	VERDICT	5.57	EC	12.0	OZ/A	PRE	A	104	99.0	80.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	206	99.0	65.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	308	99.0	75.0
							405		99.0	75.0
							Mean =		99.0	73.8
5	VERDICT	5.57	EC	12.0	OZ/A	PRE	A	105	99.0	85.0
	ATRAZINE	4	L	1.0	QT/A	PRE	A	209	99.0	80.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	312	99.0	75.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	406	99.0	85.0
							Mean =		99.0	81.3
6	ZIDUA	85	WG	2.0	OZ/A	PRE	A	106	99.0	90.0
	VERDICT	5.57	EC	10.0	OZ/A	PRE	A	207	99.0	75.0
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	303	99.0	75.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	409	99.0	85.0
							Mean =		99.0	81.3

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PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Trial ID: CN-07-12 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code									AMAPA	ANNUAL	AMAPA	ANNUAL	----
Crop Code									----	GRASS	----	GRASS	ZEAMA
Part Rated													
Rating Data Type									CONTROL	CONTROL	CONTROL	CONTROL	YIELD
Rating Unit									PERCENT	PERCENT	PERCENT	PERCENT	LBS/PLOT
Rating Date									Apr-23-12	Apr-23-12	May-18-12	May-18-12	Aug-25-12
Crop Stage													
Crop Stage Scale													
Weed Stage													
Weed Density, Unit													
Footnote Number													
Trt-Eval Interval													
PRM Data Type													
# Subsamples, Dec.													
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot					
7	GUARDSMAN MAX	5 SC		3.0 PT/A	PRE	A	107		99.0	85.0	99.0	65.0	43.0
	SHARPEN	2.85 SC		2.5 OZ/A	PRE	A	210		99.0	75.0	99.0	25.0	39.0
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	301		99.0	65.0	99.0	20.0	37.0
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	403		99.0	75.0	99.0	50.0	36.0
							Mean =		99.0	75.0	99.0	40.0	38.8
8	ATRAZINE	4 L		1.0 QT/A	PRE	A	108		99.0	85.0	99.0	65.0	40.0
	ROUNDUP WM	5.5 SL		22.0 OZ/A	POST	B	201		99.0	65.0	99.0	30.0	39.0
	ATRAZINE	4 L		1.5 QT/A	POST	B	306		99.0	85.0	99.0	45.0	33.0
							401		99.0	75.0	99.0	40.0	42.0
							Mean =		99.0	77.5	99.0	45.0	38.5
9	ATRAZINE	4 L		1.0 QT/A	PRE	A	109		99.0	20.0	99.0	0.0	28.0
	ATRAZINE	4 L		1.5 QT/A	POST	B	202		99.0	30.0	99.0	0.0	28.0
	COC			1.0 % V/V	POST	B	310		99.0	30.0	99.0	0.0	33.0
							412		99.0	0.0	99.0	0.0	21.0
							Mean =		99.0	20.0	99.0	0.0	27.5
10	ATRAZINE	4 L		1.0 QT/A	PRE	A	110		99.0	85.0	99.0	85.0	21.0
	STEADFAST Q	37.7 DG		1.5 OZ/A	POST	B	205		99.0	65.0	99.0	70.0	40.0
	ATRAZINE	4 L		1.5 QT/A	POST	B	311		99.0	65.0	99.0	85.0	38.0
	COC			1.0 % V/V	POST	B	404		99.0	65.0	99.0	70.0	37.0
							Mean =		99.0	70.0	99.0	77.5	34.0
11	ATRAZINE	4 L		1.0 QT/A	PRE	A	111		99.0	80.0	99.0	65.0	33.0
	CAPRENO	3.45 SC		3.0 OZ/A	POST	B	204		99.0	65.0	99.0	30.0	37.0
	ATRAZINE	4 L		1.5 QT/A	POST	B	307		99.0	65.0	99.0	60.0	37.0
	COC			1.0 % V/V	POST	B	411		99.0	65.0	99.0	60.0	33.0
							Mean =		99.0	68.8	99.0	53.8	35.0
12	ATRAZINE	4 L		1.0 QT/A	PRE	A	112		99.0	85.0	99.0	75.0	31.0
	HALEX GT	4.39 EC		3.6 PT/A	POST	B	208		99.0	75.0	99.0	60.0	38.0
	ATRAZINE	4 L		1.5 QT/A	POST	B	304		99.0	75.0	99.0	45.0	40.0
	COC			1.0 % V/V	POST	B	402		99.0	90.0	99.0	60.0	33.0
							Mean =		99.0	81.3	99.0	60.0	35.5

University of Georgia

PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Trial ID: CN-07-12 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code								-----
Crop Code								ZEAMA
Part Rated								
Rating Data Type								YIELD
Rating Unit								BU/A
Rating Date								Aug-25-12
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval								
PRM Data Type								TY1
# Subsamples, Dec.								- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Plot
1	NTC							101 203 309 410 Mean =
2	ZIDUA	85	WG	2.0	OZ/A	PRE	A	102
	SHARPEN	2.85	SC	2.5	OZ/A	PRE	A	211
	ATRAZINE	4	L	1.0	QT/A	PRE	A	305
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	408
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	
								Mean =
3	ZIDUA	85	WG	2.0	OZ/A	PRE	A	103
	SHARPEN	2.85	SC	2.5	OZ/A	PRE	A	212
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	302
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	407
								Mean =
4	VERDICT	5.57	EC	12.0	OZ/A	PRE	A	104
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	206
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	308
								405
								Mean =
5	VERDICT	5.57	EC	12.0	OZ/A	PRE	A	105
	ATRAZINE	4	L	1.0	QT/A	PRE	A	209
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	312
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	406
								Mean =
6	ZIDUA	85	WG	2.0	OZ/A	PRE	A	106
	VERDICT	5.57	EC	10.0	OZ/A	PRE	A	207
	ROUNDUP WMAX	5.5	SL	22.0	OZ/A	POST	B	303
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	409
								Mean =

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PREEMERGENCE WEED CONTROL IN FIELD CORN WITH ZIDUA

Trial ID: CN-07-12 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code								-----
Crop Code								ZEAMA
Part Rated								
Rating Data Type								YIELD
Rating Unit								BU/A
Rating Date								Aug-25-12
Crop Stage								
Crop Stage Scale								
Weed Stage								
Weed Density, Unit								
Footnote Number								
Trt-Eval Interval								
PRM Data Type								TY1
# Subsamples, Dec.								- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	
7	GUARDSMAN MAX SHARPEN	5 SC		3.0 PT/A	PRE	A	107	219
		2.85 SC		2.5 OZ/A	PRE	A	210	199
	ROUNDUP WMAX	5.5 SL		22.0 OZ/A	POST	B	301	188
	AMS XTRA	3.4 SL		2.5 % V/V	POST	B	403	183
							Mean =	197
8	ATRAZINE	4 L		1.0 QT/A	PRE	A	108	204
	ROUNDUP WM	5.5 SL		22.0 OZ/A	POST	B	201	199
	ATRAZINE	4 L		1.5 QT/A	POST	B	306	168
							401	214
							Mean =	196
9	ATRAZINE	4 L		1.0 QT/A	PRE	A	109	143
	ATRAZINE	4 L		1.5 QT/A	POST	B	202	143
	COC			1.0 % V/V	POST	B	310	168
							412	107
							Mean =	140
10	ATRAZINE	4 L		1.0 QT/A	PRE	A	110	107
	STEADFAST Q	37.7 DG		1.5 OZ/A	POST	B	205	204
	ATRAZINE	4 L		1.5 QT/A	POST	B	311	193
	COC			1.0 % V/V	POST	B	404	188
							Mean =	173
11	ATRAZINE	4 L		1.0 QT/A	PRE	A	111	168
	CAPRENO	3.45 SC		3.0 OZ/A	POST	B	204	188
	ATRAZINE	4 L		1.5 QT/A	POST	B	307	188
	COC			1.0 % V/V	POST	B	411	168
							Mean =	178
12	ATRAZINE	4 L		1.0 QT/A	PRE	A	112	158
	HALEX GT	4.39 EC		3.6 PT/A	POST	B	208	193
	ATRAZINE	4 L		1.5 QT/A	POST	B	304	204
	COC			1.0 % V/V	POST	B	402	168
							Mean =	181