

University of Georgia

ANNUAL MG CONTROL IN FIELD CORN

Trial ID: CN-06-15 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 5 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .48882)

Trt No.	Treatment Name	Form Form		Rate	Grow Stg	Appl Code	Amt Product to Measure	Rep		
		Conc	Type					Rate Unit	1	2
1	NO PRE + POST NO EVIK PDIR							101	204	308
2	NO PRE + POST EVIK NIS	80	WG	2.0 lb/a 0.5 % v/v	PDIR PDIR	C C	23.97 g/mx 7.499 ml/mx	102	201	303
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 L 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 48.0 oz/a	PRE POST POST	A B B	25.0 ml/mx 25.0 ml/mx 37.5 ml/mx	103	205	302
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 L 5.5 SL 4 L 80 WG		32.0 oz/a 32.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	25.0 ml/mx 25.0 ml/mx 37.5 ml/mx 23.97 g/mx 7.499 ml/mx	104	206	304
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 L 2.34 SL 4 L		32.0 oz/a 29.0 oz/a 48.0 oz/a	PRE POST POST	A B B	25.0 ml/mx 22.65 ml/mx 37.5 ml/mx	105	208	309
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 L 2.34 SL 4 L 80 WG		32.0 oz/a 29.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	25.0 ml/mx 22.65 ml/mx 37.5 ml/mx 23.97 g/mx 7.499 ml/mx	106	209	301
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	12.5 ml/mx 25.0 ml/mx 49.99 ml/mx	107	203	305
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 EC 5.5 SL 4 L 80 WG		16.0 oz/a 32.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	12.5 ml/mx 25.0 ml/mx 49.99 ml/mx 23.97 g/mx 7.499 ml/mx	108	207	306
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 EC 2.34 SL 4 L		16.0 oz/a 29.0 oz/a 64.0 oz/a	PRE POST POST	A B B	12.5 ml/mx 22.65 ml/mx 49.99 ml/mx	109	210	307
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 EC 2.34 SL 4 L 80 WG		16.0 oz/a 29.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	12.5 ml/mx 22.65 ml/mx 49.99 ml/mx 23.97 g/mx 7.499 ml/mx	110	202	310

Sort Order: Treatment

Trial Comments

OVERSEEDED ANNUAL MG SEED FROM AZLIN.

ATRAZINE (DREXEL)

NIS = ADEPT

ANNUAL GRASS = CRABGRASS + TEXAS PANICUM + CROWFOOTGRASS

IPSOP = IVYLEAF

HARVEST MOISTURE: 17.1%

YIELDS ADJUSTED TO 15.5%

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SUMMARY:

- 1) GENERALLY DUAL II @ 16 OZ/A (PRE) FOLLOWED BY ROUNDUP OR LIBERTY + ATRAZINE @ 64 OZ/A (POST) WAS MORE EFFECTIVE IN CONTROLLING PALMER AMARANTH AND ANNUAL GRASSES THAN WHEN ATRAZINE @ 32 OZ/A (PRE) FOLLOWED BY ROUNDUP + LIBERTY + ATRAZINE @ 48 OZ/A (POST) WAS APPLIED.
- 2) THUS, PDIR APPLICATIONS OF EVIK IMPROVED THE CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES WHEN ATRAZINE WAS APPLIED POST @ 48 OZ/A BUT NOT 64 OZ/A.
- 3) CORN YIELDS WERE NOT INFLUENCED BY ANY HERBICIDE TREATMENT.

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ANNUAL MG CONTROL IN FIELD CORN

Trial ID: CN-06-15 Study Dir.:
 Location: PONDER FARM 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 CRAB + TPANICUM + CROW

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1794VYHR **Planting Date:** Mar-18-15
Planting Method: MONOSEM **Rate:** 34848 S/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** NORMAL **Emergence Date:** _____

Plot Width, Unit: 5 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** FACTOR
Trial Initiation Comments: PONCHO/VOTIVO SEED TRT; AGRISURE VIPTERA

Previous: Crops	Pesticides	Year
1. PEANUT	2014	_____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.78 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 3.3 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-19-15	_____	0.26	IN	RAINFALL	_____	_____
2.	Mar-22-15	_____	0.30	IN	RAINFALL	_____	_____
3.	Mar-23-15	_____	0.25	IN	RAINFALL	_____	_____
4.	Mar-27-15	_____	0.30	IN	SPRINKLER - LATERAL MOVE	_____	_____
5.	Apr-2-15	_____	0.40	IN	SPRINKLER - LATERAL MOVE	_____	_____
6.	Apr-8-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
7.	May-6-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
8.	May-11-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
9.	May-12-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
10.	May-14-15	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
11.	May-19-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
12.	May-22-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
13.	May-26-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
14.	Jun-2-15	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____

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

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APPLICATION DESCRIPTION						
	A	B	C	D	E	F
Application Date:	Mar-18-15	Apr-8-15	Apr-24-15			
Time of Day:	7:09 PM	8:20	7:20			
Application Method:	BROADCAST	BROADCAST	PDIR			
Application Timing:	PRE	POST	PDIR			
Applic. Placement:	SOIL	FOLIAGE	F			
Air Temp., Unit:	74 F	78 F	61 F			
% Relative Humidity:	44	64	63			
Wind Velocity, Unit:	4 MPH	2 MPH	2 MPH			
Dew Presence (Y/N):	N	Y	N			
Water Hardness:	--					
Soil Temp., Unit:	73 F	70 F	70 F			
Soil Moisture:	OPTIMUM	WET	OPTIMUM			
% Cloud Cover:	85	10	0			
	G	H	I	J	K	L
Application Date:						
Time of Day:						
Application Method:						
Application Timing:						
Applic. Placement:						
Air Temp., Unit:						
% Relative Humidity:						
Wind Velocity, Unit:						
Dew Presence (Y/N):						
Water Hardness:						
Soil Temp., Unit:						
Soil Moisture:						
% Cloud Cover:						

CROP STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Crop 1 Stage: ZEAMA						
Stage Scale:		V3-V4	V7			
Height, Unit:		4 IN	17 IN			
	G	H	I	J	K	L
Crop 1 Stage: ZEAMA						
Stage Scale:						
Height, Unit:						

WEED STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Weed 1 Stage: AMAPA		1-2"	14-16"			
Stage Scale:			1-2"			
Density, Unit:						
Weed 2 Stage: AGRASS		1-2"	7-9"/1-2"			
Stage Scale:						
Density, Unit:						

APPLICATION EQUIPMENT						
	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	38	38	30			
Nozzle Type:	AIXR	FLAT FAN	FLAT FAN			
Nozzle Size:	11002	11002DG	11002XR			
Nozzle Spacing, Unit:	20	IN 20	IN 18	INCH		
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit:	60	IN 60	IN 18	INCH		
Boom Height, Unit:	20	IN 20	IN 15	GPA		
Ground Speed, Unit:	3.5	MPH 3.5	MPH 3.5	MPH		
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	15	GPA 15	GPA 15	GPA		
Spray pH:						
Propellant:	CO2	CO2	CO2			
Tank Mix (Y/N):						

Trt No	Treatment Application Comment

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ANNUAL MG CONTROL IN FIELD CORN														
Trial ID: CN-06-15		Study Dir.:												
Location: PONDER FARM		Investigator: Eric P. Prostko												
Weed Code	IPOSP	IPOSP	ZEAMA	AMAPA	IPOLA	A.GRASS	ZEAMA							
Crop Code	----	----		----	----	----								
Part Rated														
Rating Data Type	PLANTS	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	STUNT							
Rating Unit	2FT2	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT							
Rating Date	Mar-24-15	Mar-31-15	Apr-8-15	Apr-8-15	Apr-8-15	Apr-8-15	Apr-17-15							
PRM Data Type														
# Subsamples, Dec.														
Trt No.	Treatment	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	1	2	3	4	5	6	7
1	NO PRE + POST NO EVIK PDIR							3.0 a	0.0 c	0.0 a	0.0 c	0.0 c	0.0 c	0.0 c
2	NO PRE + POST EVIK NIS	80 WG		2.0 lb/a 0.5 % v/v	PDIR PDIR	C C		4.0 a	0.0 c	0.0 a	0.0 c	0.0 c	0.0 c	0.0 c
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 L 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 48.0 oz/a	PRE POST POST	A B B		2.3 a	90.0 b	0.0 a	92.7 ab	93.3 ab	43.3 b	3.3 bc
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 L 5.5 SL 4 L 80 WG		32.0 oz/a 32.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C		1.7 a	91.0 b	0.0 a	91.0 ab	89.7 b	21.7 bc	1.7 c
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 L 2.34 SL 4 L		32.0 oz/a 29.0 oz/a 48.0 oz/a	PRE POST POST	A B B		3.0 a	95.0 a	0.0 a	88.0 ab	96.3 a	0.0 c	3.3 bc
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 L 2.34 SL 4 L 80 WG		32.0 oz/a 29.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C		1.3 a	95.0 a	0.0 a	84.7 b	96.3 a	21.7 bc	8.3 a
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B		2.7 a	0.0 c	0.0 a	99.0 a	0.0 c	99.0 a	0.0 c
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 EC 5.5 SL 4 L 80 WG		16.0 oz/a 32.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C		2.7 a	0.0 c	0.0 a	99.0 a	0.0 c	99.0 a	1.7 c
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 EC 2.34 SL 4 L		16.0 oz/a 29.0 oz/a 64.0 oz/a	PRE POST POST	A B B		1.7 a	0.0 c	0.0 a	99.0 a	0.0 c	99.0 a	6.7 ab
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 EC 2.34 SL 4 L 80 WG		16.0 oz/a 29.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C		3.3 a	0.0 c	0.0 a	99.0 a	0.0 c	99.0 a	1.7 c
LSD P=.10								1.51	3.49	.	10.96	3.97	30.16	4.29
Standard Deviation								1.07	2.47	0.00	7.74	2.81	21.30	3.03
CV								41.68	6.65	0.0	10.29	7.47	44.14	113.54
Grand Mean								2.57	37.10	0.00	75.23	37.57	48.27	2.67
Bartlett's X2								6.233	0.142	0.0	0.106	4.793	0.0	1.993
P(Bartlett's X2)								0.716	0.707	.	0.991	0.188	.	0.92
Replicate F								2.650	2.188	0.000	1.342	1.705	0.310	0.091
Replicate Prob(F)								0.0980	0.1410	1.0000	0.2861	0.2098	0.7370	0.9135
Treatment F								1.816	1133.468	0.000	80.025	896.992	13.754	2.667
Treatment Prob(F)								0.1346	0.0001	1.0000	0.0001	0.0001	0.0001	0.0366

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.
 Missing data estimates are included in columns: Yates=10
 Could not calculate LSD (% mean diff) for columns 3,14 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AMAPA ----- CONTROL PERCENT Apr-17-15	A.GRASS ----- CONTROL PERCENT Apr-17-15	IPOSP ----- CONTROL PERCENT Apr-17-15	----- ZEAMA PLANT - STUNTING PERCENT Jun-8-15	AMAPA ----- CONTROL PERCENT Jun-8-15	ANNUAL GRASS CONTROL PERCENT Jun-8-15	IPOSP ----- CONTROL PERCENT Jun-8-15
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	8	9	10	11	12	13	14
1	NO PRE + POST NO EVIK PDIR						0.0 c	0.0 c	0.0 b	0.0 c	0.0 d	0.0 d	0.0 b
2	NO PRE + POST EVIK NIS	80 WG		2.0 lb/a 0.5 % v/v	PDIR PDIR	C C	0.0 c	0.0 c	0.0 b	9.3 abc	89.7 b	65.0 c	99.0 a
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 L 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 48.0 oz/a	PRE POST POST	A B B	99.0 a	83.3 b	99.0 a	3.3 bc	65.0 c	65.0 c	99.0 a
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 L 5.5 SL 4 L 80 WG		32.0 oz/a 32.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	99.0 a	83.3 b	99.0 a	0.0 c	99.0 a	99.0 a	99.0 a
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 L 2.34 SL 4 L		32.0 oz/a 29.0 oz/a 48.0 oz/a	PRE POST POST	A B B	99.0 a	81.7 b	97.7 a	3.3 bc	65.0 c	65.0 c	99.0 a
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 L 2.34 SL 4 L 80 WG		32.0 oz/a 29.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	99.0 a	86.7 b	97.7 a	16.7 a	99.0 a	99.0 a	99.0 a
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B	97.7 b	95.0 a	99.0 a	3.3 bc	93.0 b	99.0 a	99.0 a
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 EC 5.5 SL 4 L 80 WG		16.0 oz/a 32.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	99.0 a	96.0 a	99.0 a	5.0 bc	99.0 a	99.0 a	99.0 a
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 EC 2.34 SL 4 L		16.0 oz/a 29.0 oz/a 64.0 oz/a	PRE POST POST	A B B	99.0 a	93.0 a	99.0 a	8.3 abc	90.0 b	91.7 b	99.0 a
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 EC 2.34 SL 4 L 80 WG		16.0 oz/a 29.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C	99.0 a	97.7 a	99.0 a	11.7 ab	99.0 a	99.0 a	99.0 a
LSD P=.10							1.03	4.68	1.55	8.31	4.41	1.29	.
Standard Deviation							0.73	3.31	1.09	5.87	3.11	0.91	0.00
CV							0.92	4.61	1.38	96.22	3.9	1.17	0.0
Grand Mean							79.07	71.67	78.93	6.10	79.87	78.17	89.10
Bartlett's X2							0.0	4.221	0.0	2.066	0.369	0.0	0.0
P(Bartlett's X2)							.	0.647	.	0.956	0.543	.	.
Replicate F							1.000	1.759	0.447	0.038	0.519	1.000	0.000
Replicate Prob(F)							0.3874	0.2006	0.6466	0.9630	0.6038	0.3874	1.0000
Treatment F							9769.001	400.386	4355.927	2.484	297.466	3593.000	0.000
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0480	0.0001	0.0001	1.0000

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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-14-15	Aug-14-15	
PRM Data Type								TY1	
# Subsamples, Dec.								- 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	15	16
1	NO PRE + POST NO EVIK PDIR							44.0 a	269 a
2	NO PRE + POST EVIK NIS	80	WG	2.0	lb/a 0.5 % v/v	PDIR PDIR	C C	39.3 a	240 a
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 5.5 4	L SL L	32.0 32.0 48.0	oz/a oz/a oz/a	PRE POST POST	A B B	44.7 a	273 a
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 5.5 4 80	L SL L WG	32.0 32.0 48.0 2.0	oz/a oz/a oz/a lb/a	PRE POST POST PDIR	A B B C	46.3 a	283 a
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 2.34 4	L SL L	32.0 29.0 48.0	oz/a oz/a oz/a	PRE POST POST	A B B	45.3 a	277 a
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 2.34 4 80	L SL L WG	32.0 29.0 48.0 2.0	oz/a oz/a oz/a lb/a	PRE POST POST PDIR	A B B C	44.3 a	271 a
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 5.5 4	EC SL L	16.0 32.0 64.0	oz/a oz/a oz/a	PRE POST POST	A B B	48.0 a	293 a
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 5.5 4 80	EC SL L WG	16.0 32.0 64.0 2.0	oz/a oz/a oz/a lb/a	PRE POST POST PDIR	A B B C	41.0 a	250 a
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 2.34 4	EC SL L	16.0 29.0 64.0	oz/a oz/a oz/a	PRE POST POST	A B B	43.0 a	263 a
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 2.34 4 80	EC SL L WG	16.0 29.0 64.0 2.0	oz/a oz/a oz/a lb/a	PRE POST POST PDIR	A B B C	43.0 a	263 a
LSD P=.10							5.86	35.8	
Standard Deviation							4.14	25.3	
CV							9.42	9.42	
Grand Mean							43.90	268.0	
Bartlett's X2							9.082	9.082	
P(Bartlett's X2)							0.43	0.43	
Replicate F							5.828	5.828	
Replicate Prob(F)							0.0112	0.0112	
Treatment F							1.100	1.100	
Treatment Prob(F)							0.4100	0.4100	

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ANNUAL MG CONTROL IN FIELD CORN

Trial ID: CN-06-15 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
IPOLA = MORNINGGLORY, SMALL WHITE / IPOMOEA LACUNOSA L.

Part Rated

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

PRM Data Type

TY1 = 6.105028*[15]

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ANNUAL MG CONTROL IN FIELD CORN							IPOSP -----	IPOSP -----	ZEAMA	AMAPA -----	IPOLA -----	A.GRASS -----
Trial ID: CN-06-15 Study Dir.: Location: PONDER FARM Investigator: Eric P. Prostko							PLANTS 2FT2 Mar-24-15	CONTROL PERCENT Mar-31-15	INJURY PERCENT Apr-8-15	CONTROL PERCENT Apr-8-15	CONTROL PERCENT Apr-8-15	CONTROL PERCENT Apr-8-15
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 + POST NO EVIK PDIR					101 204 308 Mean =	3.0 2.0 4.0 3.0	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 + POST EVIK NIS	80 WG		2.0 lb/a 0.5 % v/v	PDIR PDIR	C C 303 Mean =	2.0 5.0 5.0 4.0	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
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 L 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 48.0 oz/a	PRE POST POST	A B B 302 Mean =	2.0 1.0 4.0 2.3	95.0 90.0 85.0 90.0	0.0 0.0 0.0 0.0	99.0 99.0 80.0 92.7	95.0 95.0 90.0 93.3	0.0 65.0 65.0 43.3
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 L 5.5 SL 4 L 80 WG		32.0 oz/a 32.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C 304 Mean =	1.0 2.0 2.0 1.7	98.0 90.0 85.0 91.0	0.0 0.0 0.0 0.0	99.0 75.0 99.0 91.0	99.0 85.0 85.0 89.7	65.0 0.0 0.0 21.7
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 L 2.34 SL 4 L		32.0 oz/a 29.0 oz/a 48.0 oz/a	PRE POST POST	A B B 309 Mean =	3.0 2.0 4.0 3.0	95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0	99.0 75.0 90.0 88.0	99.0 95.0 95.0 96.3	0.0 0.0 0.0 0.0
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 L 2.34 SL 4 L 80 WG		32.0 oz/a 29.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C 301 Mean =	1.0 2.0 1.0 1.3	95.0 95.0 95.0 95.0	0.0 0.0 0.0 0.0	80.0 75.0 99.0 84.7	95.0 99.0 95.0 96.3	65.0 0.0 0.0 21.7
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE POST POST	A B B 305 Mean =	1.0 3.0 4.0 2.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 EC 5.5 SL 4 L 80 WG		16.0 oz/a 32.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C 306 Mean =	3.0 2.0 3.0 2.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 EC 2.34 SL 4 L		16.0 oz/a 29.0 oz/a 64.0 oz/a	PRE POST POST	A B B 307 Mean =	3.0 0.0 2.0 1.7	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 EC 2.34 SL 4 L 80 WG		16.0 oz/a 29.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE POST POST PDIR PDIR	A B B C C 310 Mean =	4.0 3.0 3.0 3.3	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	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	AMAPA	A.GRASS	IPOSP	---- ZEAMA PLANT -	AMAPA			
						STUNT PERCENT Apr-17-15	CONTROL PERCENT Apr-17-15	CONTROL PERCENT Apr-17-15	CONTROL PERCENT Apr-17-15	STUNTING PERCENT Jun-8-15	CONTROL PERCENT Jun-8-15			
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 + POST NO EVIK PDIR							101 204 308 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		
2	NO PRE + POST EVIK NIS	80 WG		2.0 lb/a 0.5 % v/v		PDIR PDIR	C C	102 201 303 Mean =	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0* 0.0 10.0 9.3	85.0 85.0 99.0 89.7		
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 L 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 48.0 oz/a		PRE POST POST	A B B	103 205 302 Mean =	5.0 0.0 5.0 3.3	99.0 99.0 99.0 99.0	80.0 85.0 85.0 83.3	99.0 99.0 99.0 99.0	10.0 0.0 0.0 3.3	65.0 65.0 65.0 65.0
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 L 5.5 SL 4 L 80 WG		32.0 oz/a 32.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v		PRE POST POST PDIR PDIR	A B B C C	104 206 304 Mean =	0.0 5.0 0.0 1.7	99.0 99.0 99.0 99.0	80.0 85.0 85.0 83.3	99.0 99.0 99.0 99.0	0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 L 2.34 SL 4 L		32.0 oz/a 29.0 oz/a 48.0 oz/a		PRE POST POST	A B B	105 208 309 Mean =	0.0 5.0 5.0 3.3	99.0 99.0 99.0 99.0	80.0 80.0 85.0 81.7	99.0 99.0 95.0 97.7	0.0 0.0 10.0 3.3	65.0 65.0 65.0 65.0
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 L 2.34 SL 4 L 80 WG		32.0 oz/a 29.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v		PRE POST POST PDIR PDIR	A B B C C	106 209 301 Mean =	10.0 10.0 5.0 8.3	99.0 99.0 99.0 99.0	90.0 85.0 85.0 86.7	95.0 99.0 99.0 97.7	10.0 20.0 20.0 16.7	99.0 99.0 99.0 99.0
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a		PRE POST POST	A B B	107 203 305 Mean =	0.0 0.0 0.0 0.0	99.0 95.0 99.0 97.7	95.0 95.0 95.0 95.0	99.0 99.0 99.0 99.0	0.0 10.0 0.0 3.3	90.0 99.0 90.0 93.0
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 EC 5.5 SL 4 L 80 WG		16.0 oz/a 32.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v		PRE POST POST PDIR PDIR	A B B C C	108 207 306 Mean =	0.0 0.0 5.0 1.7	99.0 99.0 99.0 99.0	90.0 99.0 99.0 96.0	99.0 99.0 99.0 99.0	0.0 0.0 15.0 5.0	99.0 99.0 99.0 99.0
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 EC 2.34 SL 4 L		16.0 oz/a 29.0 oz/a 64.0 oz/a		PRE POST POST	A B B	109 210 307 Mean =	10.0 10.0 0.0 6.7	99.0 99.0 99.0 99.0	95.0 85.0 99.0 93.0	99.0 99.0 99.0 99.0	15.0 10.0 0.0 8.3	90.0 90.0 90.0 90.0
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 EC 2.34 SL 4 L 80 WG		16.0 oz/a 29.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v		PRE POST POST PDIR PDIR	A B B C C	110 202 310 Mean =	0.0 0.0 5.0 1.7	99.0 99.0 99.0 99.0	95.0 99.0 99.0 97.7	99.0 99.0 99.0 99.0	10.0 15.0 10.0 11.7	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.						ANNUAL GRASS CONTROL PERCENT Jun-8-15	IPOSP ----- CONTROL PERCENT Jun-8-15	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-14-15	----- ZEAMA PLOT - YIELD BU/A Aug-14-15 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 + POST NO EVIK PDIR					101 204 308 Mean =	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	34.0 52.0 46.0 44.0	208 317 281 269
2	NO PRE + POST EVIK NIS	80 WG		2.0 lb/a 0.5 % v/v	PDIR C PDIR C	102 201 303 Mean =	65.0 65.0 65.0 65.0	99.0 99.0 99.0 99.0	31.0 43.0 44.0 39.3	189 263 269 240
3	ATRAZINE ROUNDUP WM ATRAZINE NO EVIK PDIR	4 L 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 48.0 oz/a	PRE A POST B POST B	103 205 302 Mean =	65.0 65.0 65.0 65.0	99.0 99.0 99.0 99.0	40.0 49.0 45.0 44.7	244 299 275 273
4	ATRAZINE ROUNDUP WM ATRAZINE EVIK NIS	4 L 5.5 SL 4 L 80 WG		32.0 oz/a 32.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE A POST B POST B PDIR C PDIR C	104 206 304 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	44.0 45.0 50.0 46.3	269 275 305 283
5	ATRAZINE LIBERTY ATRAZINE NO EVIK PDIR	4 L 2.34 SL 4 L		32.0 oz/a 29.0 oz/a 48.0 oz/a	PRE A POST B POST B	105 208 309 Mean =	65.0 65.0 65.0 65.0	99.0 99.0 99.0 99.0	41.0 50.0 45.0 45.3	250 305 275 277
6	ATRAZINE LIBERTY ATRAZINE EVIK NIS	4 L 2.34 SL 4 L 80 WG		32.0 oz/a 29.0 oz/a 48.0 oz/a 2.0 lb/a 0.5 % v/v	PRE A POST B POST B PDIR C PDIR C	106 209 301 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	40.0 44.0 49.0 44.3	244 269 299 271
7	DUAL II MAGNUM ROUNDUP WM ATRAZINE NO EVIK PDIR	7.64 EC 5.5 SL 4 L		16.0 oz/a 32.0 oz/a 64.0 oz/a	PRE A POST B POST B	107 203 305 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	42.0 50.0 52.0 48.0	256 305 317 293
8	DUAL II MAGNUM ROUNDUP WM ATRAZINE EVIK NIS	7.64 EC 5.5 SL 4 L 80 WG		16.0 oz/a 32.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE A POST B POST B PDIR C PDIR C	108 207 306 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	42.0 40.0 41.0 41.0	256 244 250 250
9	DUAL II MAGNUM LIBERTY ATRAZINE NO EVIK PDIR	7.64 EC 2.34 SL 4 L		16.0 oz/a 29.0 oz/a 64.0 oz/a	PRE A POST B POST B	109 210 307 Mean =	90.0 90.0 95.0 91.7	99.0 99.0 99.0 99.0	46.0 44.0 39.0 43.0	281 269 238 263
10	DUAL II MAGNUM LIBERTY ATRAZINE EVIK NIS	7.64 EC 2.34 SL 4 L 80 WG		16.0 oz/a 29.0 oz/a 64.0 oz/a 2.0 lb/a 0.5 % v/v	PRE A POST B POST B PDIR C PDIR C	110 202 310 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0	43.0 45.0 41.0 43.0	263 275 250 263

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ANNUAL MG CONTROL IN FIELD CORN

Trial ID: CN-06-15 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
IPOLA = MORNINGGLORY, SMALL WHITE / IPOMOEA LACUNOSA L.

Part Rated

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

PRM Data Type

TY1 = 6.105028*[15]