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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC							-	101	206	308	411
2	CORVUS	2.63	SC	3.33 oz/a	PRE	A	2.601 mL/mx	1472.4 mL	102	203	302	409
	ATRAZINE	4 L		32.0 oz/a	PRE	A	25.0 mL/mx					
	DIFLEXX DUO	2.13	SC	24.0 oz/a	POST	C	18.75 mL/mx	1418.8 mL				
	ATRAZINE	4 L		48.0 oz/a	POST	C	37.5 mL/mx					
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	25.0 mL/mx					
3	BALANCE FLEXX	2	SC	3.0 oz/a	PRE	A	2.343 mL/mx	1472.7 mL	103	211	303	407
	ATRAZINE	4 L		32.0 oz/a	PRE	A	25.0 mL/mx					
	CAPRENO	3.45	SC	3.0 oz/a	POST	C	2.343 mL/mx	1435.2 mL				
	ATRAZINE	4 L		48.0 oz/a	POST	C	37.5 mL/mx					
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	25.0 mL/mx					
4	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	2.343 mL/mx	1432.7 mL	104	207	312	404
	ATRAZINE	4 L		64.0 oz/a	EPOST	B	49.99 mL/mx					
	MSO			1.0 % v/v	EPOST	B	15.0 mL/mx					
5	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	25.0 mL/mx	1422.7 mL	105	208	305	408
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	2.343 mL/mx					
	ATRAZINE	4 L		64.0 oz/a	EPOST	B	49.99 mL/mx					
6	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	25.0 mL/mx	1397.7 mL	106	212	301	406
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	2.343 mL/mx					
	ATRAZINE	4 L		64.0 oz/a	EPOST	B	49.99 mL/mx					
	PROWL H20	3.8	SC	32.0 oz/a	EPOST	B	25.0 mL/mx					
7	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	2.343 mL/mx	1445.2 mL	107	209	306	412
	WARRANT	3	SC	3.0 pt/a	EPOST	B	37.5 mL/mx					
	MSO			1.0 % v/v	EPOST	B	15.0 mL/mx					
8	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	2.343 mL/mx	1395.2 mL	108	210	307	405
	WARRANT	3	SC	3.0 pt/a	EPOST	B	37.5 mL/mx					
	ATRAZINE	4 L		64.0 oz/a	EPOST	B	49.99 mL/mx					
	MSO			1.0 % v/v	EPOST	B	15.0 mL/mx					
9	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	25.0 mL/mx	1385.2 mL	109	201	310	402
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	2.343 mL/mx					
	WARRANT	3	SC	3.0 pt/a	EPOST	B	37.5 mL/mx					
	ATRAZINE	4 L		64.0 oz/a	EPOST	B	49.99 mL/mx					
10	WARRANT	3	SC	3.0 pt/a	PRE	A	37.5 mL/mx	1462.5 mL	110	204	311	410
	CAPRENO	3.45	SC	3.0 oz/a	POST	C	2.343 mL/mx	1422.7 mL				
	ATRAZINE	4 L		64.0 oz/a	POST	C	49.99 mL/mx					
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	25.0 mL/mx					
11	WARRANT	3	SC	3.0 pt/a	PRE	A	37.5 mL/mx	1462.5 mL	111	205	309	401
	LAUDIS	3.45	SC	3.0 oz/a	POST	C	2.343 mL/mx	1422.7 mL				
	ATRAZINE	4 L		64.0 oz/a	POST	C	49.99 mL/mx					
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	25.0 mL/mx					
12	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	25.0 mL/mx	1400.0 mL	112	202	304	403
	ATRAZINE	4 L		64.0 oz/a	EPOST	B	49.99 mL/mx					
	PROWL H20	3.8	SC	32.0 oz/a	EPOST	B	25.0 mL/mx					

Sort Order: Treatment

Trial Comments
MSO = MES-100 (DREXEL)
BALANCE FLEXX = ISOXAFLUTOLE + SAFENER (CYPROSULFAMIDE)
CORVUS = ISOXAFLUTOLE (1.88 LBS/GAL)+ THIENCARBAZONE (0.75 LBS/GAL)
CAPRENO = TEMBOTRIONE (2.88 LBS/GAL)+ THIENCARBAZONE (0.57 LBS/GAL)
DIFLEXX DUO = DICAMBA (1.86 LBS/GAL) + TEMBOTRIONE (0.27 LBS/GAL)
AGRASS = NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDING TX PANICUM, CRABGRASS, GOOSEGRASS, AND

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CROWFOOTGRASS.

HARVEST MOISTURE: 17.28%
YIELD ADJUSTED TO 15.55

SUMMARY:

- 1) PRE APPLICATIONS OF CORVUS CAUSED SIGNIFICANT CORN STUNTING.
- 2) ALL TREATMENTS PROVIDED 97%+ CONTROL OF PALMER AMARANTH, ANNUAL GRASSES, AND WILD RADISH.
- 3) ALL TREATMENTS RESULTED IN GREATER YIELDS THAN THE NTC. NO DIFFERENCES IN YIELD WERE OBSERVED BETWEEN HERBICIDE TREATED PLOTS WITH THE FOLLOWING EXCEPTION:

LAUDIS + WARRANT + MSO (POST) > WARRANT (PRE) FB CAPRENO + ATRAZINE + ROUNDUP (POST)

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 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

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

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

Trial Status: E **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/CROW/GOOSE/TPANICUM
Weed 3: RAPRA WILD RADISH **4.** _____

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1870YHR **Planting Date:** Apr-1-19
Planting Method: MONOSEM **Rate:** 36300 SEED/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 36 In **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4

Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: 800 LBS/A 5-15-30 PPLNT; 125 LBS/A OF NITROGEN
 SIDEDRESS-APRIL 22; 128 LBS/A NITROGEN SIDEDRESS-MAY 1; 2 LBS/A AXILO MIX 5-MAY

Previous: Crops **Pesticides** **Year**
 1. PEANUT 2018 _____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
			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

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MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-4-19		0.25	IN	SPRINKLER - LATERAL MOVE		
2. Apr-4-19		0.02	IN	RAIN		
3. Apr-5-19		0.02	IN	RAIN		
4. Apr-6-19		0.21	IN	RAIN		
5. Apr-9-19		0.17	IN	RAIN		
6. Apr-11-19		0.5	IN	RAIN		
7. Apr-14-19		0.83	IN	RAIN		
8. Apr-19-19		1.43	IN	RAIN		
9. Apr-25-19		0.5	IN	SPRINKLER - LATERAL MOVE		
10. Apr-25-19		0.05	IN	RAIN		
11. Apr-26-19		0.03	IN	RAIN		
12. Apr-29-19		0.5	IN	SPRINKLER - LATERAL MOVE		
13. May-6-19		0.75	IN	SPRINKLER - LATERAL MOVE		
14. May-9-19		0.195	IN	RAIN		
15. May-10-19		0.3	IN	SPRINKLER - LATERAL MOVE		
16. May-10-19		0.11	IN	RAIN		
17. May-11-19		0.65	IN	RAIN		
18. May-12-19		0.27	IN	RAIN		
19. May-16-19		0.5	IN	SPRINKLER - LATERAL MOVE		
20. May-17-19		0.62	IN	RAIN		
21. May-20-19		0.75	IN	SPRINKLER - LATERAL MOVE		
22. May-23-19		0.75	IN	SPRINKLER - LATERAL MOVE		
23. May-24-19		0.75	IN	SPRINKLER - LATERAL MOVE		
24. May-27-19		0.75	IN	SPRINKLER - LATERAL MOVE		

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-3-19	Apr-22-19	Apr-30-19			
Time of Day:	9:00 AM	8:15 AM	7:45 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	PRE	EPOST	POST			
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE			
Air Temp., Unit:	52 F	53 F	61 F			
% Relative Humidity:	88	87	95			
Wind Velocity, Unit:	1 MPH	0 MPH	0 MPH			
Dew Presence (Y/N):	N	Y	Y			
Water Hardness:	--	--	--			
Soil Temp., Unit:	55 F	59 F	68 F			
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM			
% Cloud Cover:	0	0	0			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	ZEAMA	7"T	12"T			
Stage Scale:		V4	V6			
Height, Unit:						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage:	AMAPA	1-2"T				
Stage Scale:		4-6 LF				
Density, Unit:						
Weed 2 Stage:	AGRASS	1-2"T	2-3"T			
Stage Scale:		2-3 LF				
Density, Unit:						
Weed 3 Stage:	RAPRA	2"T	2-6"T			
Stage Scale:		4-6 LF				
Density, Unit:						

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	APPLICATION EQUIPMENT						D	E	F
	A	B		C					
Appl. Equipment:	BACKPACK	BACKPACK		BACKPACK					
Operating Pressure:	28	32		32					
Nozzle Type:	AIXR	AIXR		AIXR					
Nozzle Size:	11002	11002		11002					
Nozzle Spacing, Unit:	15	IN	20	IN	20	IN			
Nozzles/Row:	2								
Band Width, Unit:									
Boom Length, Unit:	60	IN	60	IN	60	IN			
Boom Height, Unit:	20	IN	20	IN	20	IN			
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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Weed Code	-----	-----	AMAPA	AGRASS	RAPRA	-----						
Crop Code	ZEAMA	ZEAMA	-----	-----	-----	ZEAMA						
Part Rated												
Rating Data Type												
Rating Unit	Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent	Stunting Percent						
Rating Date	Apr-10-19	Apr-16-19	Apr-16-19	Apr-16-19	Apr-16-19	Apr-25-19						
PRM Data Type												
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	NTC						0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
2	CORVUS	2.63	SC	3.33 oz/a	PRE	A	2.5 a	3.8 a	99.0 a	99.0 a	99.0 a	16.3 a
	ATRAZINE	4	L	32.0 oz/a	PRE	A						
	DIFLEXX DUO	2.13	SC	24.0 oz/a	POST	C						
	ATRAZINE	4	L	48.0 oz/a	POST	C						
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C						
3	BALANCE FLEXX	2	SC	3.0 oz/a	PRE	A	1.3 ab	0.0 b	99.0 a	98.0 b	99.0 a	0.0 b
	ATRAZINE	4	L	32.0 oz/a	PRE	A						
	CAPRENO	3.45	SC	3.0 oz/a	POST	C						
	ATRAZINE	4	L	48.0 oz/a	POST	C						
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C						
4	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	ATRAZINE	4	L	64.0 oz/a	EPOST	B						
	MSO			1.0 % v/v	EPOST	B						
5	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B						
	ATRAZINE	4	L	64.0 oz/a	EPOST	B						
6	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B						
	ATRAZINE	4	L	64.0 oz/a	EPOST	B						
	PROWL H20	3.8	SC	32.0 oz/a	EPOST	B						
7	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	WARRANT	3	SC	3.0 pt/a	EPOST	B						
	MSO			1.0 % v/v	EPOST	B						
8	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	WARRANT	3	SC	3.0 pt/a	EPOST	B						
	ATRAZINE	4	L	64.0 oz/a	EPOST	B						
	MSO			1.0 % v/v	EPOST	B						
9	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B						
	WARRANT	3	SC	3.0 pt/a	EPOST	B						
	ATRAZINE	4	L	64.0 oz/a	EPOST	B						
10	WARRANT	3	SC	3.0 pt/a	PRE	A	0.0 b	0.0 b	99.0 a	99.0 a	86.0 b	0.0 b
	CAPRENO	3.45	SC	3.0 oz/a	POST	C						
	ATRAZINE	4	L	64.0 oz/a	POST	C						
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C						
11	WARRANT	3	SC	3.0 pt/a	PRE	A	0.0 b	0.0 b	99.0 a	99.0 a	66.3 c	0.0 b
	LAUDIS	3.45	SC	3.0 oz/a	POST	C						
	ATRAZINE	4	L	64.0 oz/a	POST	C						
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C						
12	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d	0.0 b
	ATRAZINE	4	L	64.0 oz/a	EPOST	B						
	PROWL H20	3.8	SC	32.0 oz/a	EPOST	B						
LSD P=.10							1.28	1.65	.	0.69	6.98	0.86
Standard Deviation							1.07	1.38	0.00	0.58	5.83	0.72
CV							343.48	442.22	0.0	1.75	19.98	53.29
Grand Mean							0.31	0.31	33.00	32.92	29.19	1.35
Bartlett's X2							0.061	0.00	0.00	0.00	0.001	0.00
P(Bartlett's X2)							0.805	.	.	.	0.975	.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 3,12,13,14,17,18,19 because error mean square = 0.

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	----- ZEAMA	AMAPA -----	AGRASS -----	RAPRA -----	----- ZEAMA	----- ZEAMA
Weed Code						
Crop Code						
Part Rated						
Rating Data Type						
Rating Unit	Leafburn Percent	Control Percent	Control Percent	Control Percent	STUNTING Percent	Leaf - Necrosis Percent
Rating Date	Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19	May-8-19	May-8-19
PRM Data Type						
# Subsamples, Dec.						
Trt Treatment						
No. Name	7	8	9	10	11	12
1 NTC	0.0 -	0.0 b	0.0 b	0.0 c	0.0 e	0.0 -
2 CORVUS	0.0 -	99.0 a	98.0 a	99.0 a	10.0 a	0.0 -
ATRAZINE	2.63 SC	4 L	3.33 oz/a	PRE	A	
DIFLEXX DUO	2.13 SC	4 L	24.0 oz/a	POST	C	
ATRAZINE	4 L	48.0 oz/a	POST	C		
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST	C		
3 BALANCE FLEXX	0.0 -	99.0 a	97.0 a	98.0 a	6.3 bc	0.0 -
ATRAZINE	2 SC	4 L	3.0 oz/a	PRE	A	
CAPRENO	3.45 SC	3.0 oz/a	POST	C		
ATRAZINE	4 L	48.0 oz/a	POST	C		
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST	C		
4 LAUDIS	0.0 -				0.0 e	0.0 -
ATRAZINE	3.5 SC	4 L	3.0 oz/a	EPOST	B	
MSO			64.0 oz/a	EPOST	B	
MSO			1.0 % v/v	EPOST	B	
5 ROUNDUP P-MAX	0.0 -				0.0 e	0.0 -
LAUDIS	5.5 SL	3.5 SC	32.0 oz/a	EPOST	B	
ATRAZINE		4 L	3.0 oz/a	EPOST	B	
ATRAZINE			64.0 oz/a	EPOST	B	
6 ROUNDUP P-MAX	0.0 -				1.3 de	0.0 -
LAUDIS	5.5 SL	3.5 SC	32.0 oz/a	EPOST	B	
ATRAZINE		4 L	3.0 oz/a	EPOST	B	
PROWL H20		3.8 SC	64.0 oz/a	EPOST	B	
PROWL H20			32.0 oz/a	EPOST	B	
7 LAUDIS	0.0 -				0.0 e	0.0 -
WARRANT	3.5 SC	3 SC	3.0 oz/a	EPOST	B	
MSO			3.0 pt/a	EPOST	B	
MSO			1.0 % v/v	EPOST	B	
8 LAUDIS	0.0 -				1.3 de	0.0 -
WARRANT	3.5 SC	3 SC	3.0 oz/a	EPOST	B	
ATRAZINE		4 L	3.0 pt/a	EPOST	B	
MSO			64.0 oz/a	EPOST	B	
MSO			1.0 % v/v	EPOST	B	
9 ROUNDUP P-MAX	0.0 -				3.8 cd	0.0 -
LAUDIS	5.5 SL	3.5 SC	32.0 oz/a	EPOST	B	
WARRANT		3 SC	3.0 oz/a	EPOST	B	
ATRAZINE		4 L	3.0 pt/a	EPOST	B	
ATRAZINE			64.0 oz/a	EPOST	B	
10 WARRANT	0.0 -	98.0 a	99.0 a	46.3 b	7.5 ab	0.0 -
CAPRENO	3 SC	3.45 SC	3.0 pt/a	PRE	A	
ATRAZINE	4 L	4 L	3.0 oz/a	POST	C	
ROUNDUP P-MAX	5.5 SL	5.5 SL	64.0 oz/a	POST	C	
ROUNDUP P-MAX			32.0 oz/a	POST	C	
11 WARRANT	0.0 -	99.0 a	97.0 a	25.0 bc	1.3 de	0.0 -
LAUDIS	3 SC	3.45 SC	3.0 pt/a	PRE	A	
ATRAZINE	3.45 SC	4 L	3.0 oz/a	POST	C	
ROUNDUP P-MAX	4 L	5.5 SL	64.0 oz/a	POST	C	
ROUNDUP P-MAX			32.0 oz/a	POST	C	
12 ROUNDUP P-MAX	3.8 -				1.3 de	0.0 -
ATRAZINE	5.5 SL	4 L	32.0 oz/a	EPOST	B	
PROWL H20		3.8 SC	64.0 oz/a	EPOST	B	
PROWL H20			32.0 oz/a	EPOST	B	
LSD P=.10	2.59	1.13	2.16	27.80	2.71	.
Standard Deviation	2.17	0.89	1.71	22.06	2.26	0.00
CV	692.82	1.13	2.19	41.12	83.5	0.0
Grand Mean	0.31	79.00	78.20	53.65	2.71	0.00
Bartlett's X2	0.00	0.00	0.078	12.809	2.566	0.00
P(Bartlett's X2)	.	.	0.962	0.002*	0.861	.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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	AMAPA	RAPRA	AGRASS	----- ZEAMA	AMAPA	RAPRA
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.	----- Control Percent May-8-19	----- Control Percent May-8-19	----- Control Percent May-8-19	----- Stunting Percent May-14-19	----- Control Percent May-14-19	----- Control Percent May-14-19
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	13 14 15 16 17 18
1 NTC	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 b
2 CORVUS	99.0 a	99.0 a	99.0 a	7.5 a	99.0 a	99.0 a
ATRAZINE						
DIFLEXX DUO						
ATRAZINE						
ROUNDUP P-MAX						
3 BALANCE FLEXX	99.0 a	99.0 a	99.0 a	0.0 b	99.0 a	99.0 a
ATRAZINE						
CAPRENO						
ATRAZINE						
ROUNDUP P-MAX						
4 LAUDIS	99.0 a	99.0 a	99.0 a	0.0 b	99.0 a	99.0 a
ATRAZINE						
MSO						
5 ROUNDUP P-MAX	99.0 a	99.0 a	98.0 b	0.0 b	99.0 a	99.0 a
LAUDIS						
ATRAZINE						
6 ROUNDUP P-MAX	99.0 a	99.0 a	99.0 a	1.3 b	99.0 a	99.0 a
LAUDIS						
ATRAZINE						
PROWL H20						
7 LAUDIS	99.0 a	99.0 a	98.0 b	0.0 b	99.0 a	99.0 a
WARRANT						
MSO						
8 LAUDIS	99.0 a	99.0 a	99.0 a	0.0 b	99.0 a	99.0 a
WARRANT						
ATRAZINE						
MSO						
9 ROUNDUP P-MAX	99.0 a	99.0 a	99.0 a	2.5 b	99.0 a	99.0 a
LAUDIS						
WARRANT						
ATRAZINE						
10 WARRANT	99.0 a	99.0 a	99.0 a	2.5 b	99.0 a	99.0 a
CAPRENO						
ATRAZINE						
ROUNDUP P-MAX						
11 WARRANT	99.0 a	99.0 a	99.0 a	2.5 b	99.0 a	99.0 a
LAUDIS						
ATRAZINE						
ROUNDUP P-MAX						
12 ROUNDUP P-MAX	99.0 a	99.0 a	99.0 a	0.0 b	99.0 a	99.0 a
ATRAZINE						
PROWL H20						
LSD P=.10	.	.	0.99	2.98	.	.
Standard Deviation	0.00	0.00	0.83	2.49	0.00	0.00
CV	0.0	0.0	0.91	183.91	0.0	0.0
Grand Mean	90.75	90.75	90.58	1.35	90.75	90.75
Bartlett's X2	0.00	0.00	0.00	2.552	0.00	0.00
P(Bartlett's X2)	.	.	.	0.635	.	.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 3,12,13,14,17,18,19 because error mean square = 0.

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I
 Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	AGRASS	AMAPA	AGRASS	ZEAMA	ZEAMA
Crop Code	-----	-----	-----	-----	-----
Part Rated				PLOT -	PLOT -
Rating Data Type				YIELD	YIELD
Rating Unit				LBS	BU/A
Rating Date	May-14-19	Jun-11-19	Jun-11-19	Aug-30-19	Aug-30-19
PRM Data Type					TY1
# Subsamples, Dec.					- 0
Trt Treatment	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code
No. Name					
	19	20	21	22	23
1 NTC	0.0 b	0.0 c	0.0 d	45.8 c	232 c
2 CORVUS	99.0 a	99.0 a	99.0 a	53.5 ab	272 ab
ATRAZINE					
DIFLEXX DUO					
ATRAZINE					
ROUNDUP P-MAX					
3 BALANCE FLEXX	99.0 a	99.0 a	97.0 bc	53.0 ab	269 ab
ATRAZINE					
CAPRENO					
ATRAZINE					
ROUNDUP P-MAX					
4 LAUDIS	99.0 a	98.0 ab	98.0 ab	53.3 ab	270 ab
ATRAZINE					
MSO					
5 ROUNDUP P-MAX	99.0 a	99.0 a	98.0 ab	54.0 ab	274 ab
LAUDIS					
ATRAZINE					
6 ROUNDUP P-MAX	99.0 a	99.0 a	98.0 ab	55.3 ab	280 ab
LAUDIS					
ATRAZINE					
PROWL H20					
7 LAUDIS	99.0 a	97.0 b	97.0 bc	56.3 a	286 a
WARRANT					
MSO					
8 LAUDIS	99.0 a	99.0 a	96.0 c	54.8 ab	278 ab
WARRANT					
ATRAZINE					
MSO					
9 ROUNDUP P-MAX	99.0 a	99.0 a	99.0 a	54.5 ab	277 ab
LAUDIS					
WARRANT					
ATRAZINE					
10 WARRANT	99.0 a	99.0 a	99.0 a	52.0 b	264 b
CAPRENO					
ATRAZINE					
ROUNDUP P-MAX					
11 WARRANT	99.0 a	99.0 a	99.0 a	54.8 ab	278 ab
LAUDIS					
ATRAZINE					
ROUNDUP P-MAX					
12 ROUNDUP P-MAX	99.0 a	99.0 a	99.0 a	54.5 ab	277 ab
ATRAZINE					
PROWL H20					
LSD P=.10	.	1.03	1.68	3.98	20.2
Standard Deviation	0.00	0.86	1.41	3.32	16.9
CV	0.0	0.95	1.56	6.22	6.22
Grand Mean	90.75	90.50	89.92	53.46	271.4
Bartlett's X2	0.00	0.061	0.162	11.217	11.217
P(Bartlett's X2)	.	0.805	0.999	0.425	0.425

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 3,12,13,14,17,18,19 because error mean square = 0.

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For ----- ZEAMA Injury Percent Apr-10-19 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	70.312500			
Replicate	3	5.729167	1.909722	1.658	0.1951
Treatment	11	26.562500	2.414773	2.096	0.0497
Error	33	38.020833	1.152146		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Injury Percent Apr-16-19 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	120.312500			
Replicate	3	5.729167	1.909722	1.000	0.4051
Treatment	11	51.562500	4.687500	2.455	0.0228
Error	33	63.020833	1.909722		

Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Apr-16-19 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	104544.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	104544.000000	9504.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent Apr-16-19 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	104031.666667			
Replicate	3	1.000000	0.333333	1.000	0.4051
Treatment	11	104019.666667	9456.333333	28369.003	0.0001
Error	33	11.000000	0.333333		

Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent Apr-16-19 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	85917.312500			
Replicate	3	138.395833	46.131944	1.356	0.2731
Treatment	11	84656.562500	7696.051136	226.283	0.0001
Error	33	1122.354167	34.010732		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Stunting Percent Apr-25-19 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	986.979167			
Replicate	3	1.562500	0.520833	1.000	0.4051
Treatment	11	968.229167	88.020833	169.000	0.0001
Error	33	17.187500	0.520833		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Leafburn Percent Apr-25-19 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	220.312500			
Replicate	3	14.062500	4.687500	1.000	0.4051
Treatment	11	51.562500	4.687500	1.000	0.4671
Error	33	154.687500	4.687500		

Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Apr-25-19 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	19	31220.000000			
Replicate	3	2.400000	0.800000	1.000	0.4262
Treatment	4	31208.000000	7802.000000	9752.501	0.0001
Error	12	9.600000	0.800000		

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent Apr-25-19 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	19	30631.200000			
Replicate	3	8.800000	2.933333	1.000	0.4262
Treatment	4	30587.200000	7646.800000	2606.864	0.0001
Error	12	35.200000	2.933333		

Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent Apr-25-19 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	19	37290.550000			
Replicate	3	340.150000	113.383333	0.233	0.8717
Treatment	4	31109.800000	7777.450000	15.979	0.0001
Error	12	5840.600000	486.716667		

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I					
Trial ID: CN-05-19		Study Dir.: KEITH RUCKER			
Location: PONDER FARM		Investigator: Eric P. Prostko			
Randomized Complete Block (RCB) AOV For ----- ZEAMA STUNTING Percent May-8-19 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	697.916667			
Replicate	3	18.750000	6.250000	1.222	0.3171
Treatment	11	510.416667	46.401515	9.074	0.0001
Error	33	168.750000	5.113636		
Randomized Complete Block (RCB) AOV For ----- ZEAMA Leaf Necrosis Percent May-8-19 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	33	0.000000000000	0.000000000000		
Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-8-19 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-8-19 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-8-19 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35835.666667			
Replicate	3	1.333333	0.444444	0.647	0.5904
Treatment	11	35811.666667	3255.606061	4739.780	0.0001
Error	33	22.666667	0.686869		
Randomized Complete Block (RCB) AOV For ----- ZEAMA Stunting Percent May-14-19 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	436.979167			
Replicate	3	14.062500	4.687500	0.756	0.5270
Treatment	11	218.229167	19.839015	3.198	0.0047
Error	33	204.687500	6.202652		
Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-14-19 (Data Column 17)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-14-19 (Data Column 18)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-14-19 (Data Column 19)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Jun-11-19 (Data Column 20)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35784.000000			
Replicate	3	3.666667	1.222222	1.658	0.1951
Treatment	11	35756.000000	3250.545455	4408.274	0.0001
Error	33	24.333333	0.737374		

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent Jun-11-19 (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35403.666667			
Replicate	3	14.666667	4.888889	2.469	0.0792
Treatment	11	35323.666667	3211.242424	1622.005	0.0001
Error	33	65.333333	1.979798		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD LBS Aug-30-19 (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	767.916667			
Replicate	3	88.916667	29.638889	2.683	0.0627
Treatment	11	314.416667	28.583333	2.587	0.0171
Error	33	364.583333	11.047980		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD BU/A Aug-30-19 TY1 0 (Data Column 23)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	19789.687634			
Replicate	3	2291.437516	763.812505	2.683	0.0627
Treatment	11	8102.712040	736.610185	2.587	0.0171
Error	33	9395.538079	284.713275		

Weed Code

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

RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.

Part Rated

Leaf = LEAF / FOLIAGE

PRM Data Type

TY1 = 5.076477*[22]

University of Georgia

BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

	----- ZEAMA	----- ZEAMA	AMAPA -----	AGRASS -----	RAPRA -----
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.	Injury Percent Apr-10-19	Injury Percent Apr-16-19	Control Percent Apr-16-19	Control Percent Apr-16-19	Control Percent Apr-16-19
Trt Treatment Form Form Rate Grow Appl No. Name Conc Type Rate Unit Stg Code Plot	1	2	3	4	5
11 WARRANT 3 SC 3.0 pt/a PRE A 111	0.0	0.0	99.0	99.0	65.0
LAUDIS 3.45 SC 3.0 oz/a POST C 205	0.0	0.0	99.0	99.0	65.0
ATRAZINE 4 L 64.0 oz/a POST C 309	0.0	0.0	99.0	99.0	85.0
ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST C 401	0.0	0.0	99.0	99.0	50.0
Mean =	0.0	0.0	99.0	99.0	66.3
12 ROUNDUP PMAX 5.5 SL 32.0 oz/a EPOST B 112	0.0	0.0	0.0	0.0	0.0
ATRAZINE 4 L 64.0 oz/a EPOST B 202	0.0	0.0	0.0	0.0	0.0
PROWL H20 3.8 SC 32.0 oz/a EPOST B 304	0.0	0.0	0.0	0.0	0.0
Mean =	0.0	0.0	0.0	0.0	0.0

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	-----	AMAPA	AGRASS	RAPRA			
Crop Code						ZEAMA	ZEAMA	-----	-----	-----			
Part Rated													
Rating Data Type						Stunting	Leafburn	Control	Control	Control			
Rating Unit						Percent	Percent	Percent	Percent	Percent			
Rating Date						Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19			
PRM Data Type													
# Subsamples, Dec.													
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	6	7	8	9	10
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0
								308	0.0	0.0	0.0	0.0	0.0
								411	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	CORVUS	2.63	SC	3.33	oz/a	PRE	A	102	15.0	0.0	99.0	95.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	203	15.0	0.0	99.0	99.0	99.0
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	302	20.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	48.0	oz/a	POST	C	409	15.0	0.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C						
								Mean =	16.3	0.0	99.0	98.0	99.0
3	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	103	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	211	0.0	0.0	99.0	95.0	95.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	303	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	48.0	oz/a	POST	C	407	0.0	0.0	99.0	95.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C						
								Mean =	0.0	0.0	99.0	97.0	98.0
4	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	104	0.0	0.0	.	.	.
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	207	0.0	0.0	.	.	.
	MSO			1.0	% v/v	EPOST	B	312	0.0	0.0	.	.	.
								404	0.0	0.0	.	.	.
								Mean =	0.0	0.0	.	.	.
5	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	105	0.0	0.0	.	.	.
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	208	0.0	0.0	.	.	.
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	305	0.0	0.0	.	.	.
								408	0.0	0.0	.	.	.
								Mean =	0.0	0.0	.	.	.
6	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	106	0.0	0.0	.	.	.
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	212	0.0	0.0	.	.	.
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	301	0.0	0.0	.	.	.
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	406	0.0	0.0	.	.	.
								Mean =	0.0	0.0	.	.	.
7	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	107	0.0	0.0	.	.	.
	WARRANT	3	SC	3.0	pt/a	EPOST	B	209	0.0	0.0	.	.	.
	MSO			1.0	% v/v	EPOST	B	306	0.0	0.0	.	.	.
								412	0.0	0.0	.	.	.
								Mean =	0.0	0.0	.	.	.
8	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	108	0.0	0.0	.	.	.
	WARRANT	3	SC	3.0	pt/a	EPOST	B	210	0.0	0.0	.	.	.
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	307	0.0	0.0	.	.	.
	MSO			1.0	% v/v	EPOST	B	405	0.0	0.0	.	.	.
								Mean =	0.0	0.0	.	.	.
9	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	109	0.0	0.0	.	.	.
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	201	0.0	0.0	.	.	.
	WARRANT	3	SC	3.0	pt/a	EPOST	B	310	0.0	0.0	.	.	.
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	402	0.0	0.0	.	.	.
								Mean =	0.0	0.0	.	.	.
10	WARRANT	3	SC	3.0	pt/a	PRE	A	110	0.0	0.0	95.0	99.0	85.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	204	0.0	0.0	99.0	99.0	50.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	311	0.0	0.0	99.0	99.0	0.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	410	0.0	0.0	99.0	99.0	50.0
								Mean =	0.0	0.0	98.0	99.0	46.3

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

	----- ZEAMA	----- ZEAMA	AMAPA -----	AGRASS -----	RAPRA -----
Weed Code					
Crop Code					
Part Rated					
Rating Data Type					
Rating Unit	Stunting Percent	Leafburn Percent	Control Percent	Control Percent	Control Percent
Rating Date	Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment					
No. Name	6	7	8	9	10
11 WARRANT					
3 SC					
3.0 pt/a					
PRE A					
111	0.0	0.0	99.0	95.0	0.0
LAUDIS					
3.45 SC					
3.0 oz/a					
POST C					
205	0.0	0.0	99.0	99.0	50.0
ATRAZINE					
4 L					
64.0 oz/a					
POST C					
309	0.0	0.0	99.0	99.0	50.0
ROUNDUP P-MAX					
5.5 SL					
32.0 oz/a					
POST C					
401	0.0	0.0	99.0	95.0	0.0
Mean =	0.0	0.0	99.0	97.0	25.0
12 ROUNDUP PMAX					
5.5 SL					
32.0 oz/a					
EPOST B					
112	0.0	0.0	.	.	.
ATRAZINE					
4 L					
64.0 oz/a					
EPOST B					
202	0.0	0.0	.	.	.
PROWL H20					
3.8 SC					
32.0 oz/a					
EPOST B					
304	0.0	0.0	.	.	.
403	0.0	15.0	.	.	.
Mean =	0.0	3.8	.	.	.

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I							-----	-----	AMAPA	RAPRA	AGRASS	-----		
Trial ID: CN-05-19 Study Dir.: KEITH RUCKER							ZEAMA	ZEAMA	-----	-----	-----	ZEAMA		
Location: PONDER FARM Investigator: Eric P. Prostko							STUNTING	Leaf -	Control	Control	Control	Stunting		
							Percent	Necrosis	Percent	Percent	Percent	Percent		
							May-8-19	Percent	May-8-19	May-8-19	May-8-19	May-14-19		
Weed Code														
Crop Code														
Part Rated														
Rating Data Type														
Rating Unit														
Rating Date														
PRM Data Type														
# Subsamples, Dec.														
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	11	12	13	14	15	16
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0	0.0
								308	0.0	0.0	0.0	0.0	0.0	0.0
								411	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	CORVUS	2.63	SC	3.33	oz/a	PRE	A	102	10.0	0.0	99.0	99.0	99.0	5.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	203	10.0	0.0	99.0	99.0	99.0	10.0
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	302	10.0	0.0	99.0	99.0	99.0	10.0
	ATRAZINE	4	L	48.0	oz/a	POST	C	409	10.0	0.0	99.0	99.0	99.0	5.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C							
								Mean =	10.0	0.0	99.0	99.0	99.0	7.5
3	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	103	5.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	211	5.0	0.0	99.0	99.0	99.0	0.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	303	5.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	48.0	oz/a	POST	C	407	10.0	0.0	99.0	99.0	99.0	0.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C							
								Mean =	6.3	0.0	99.0	99.0	99.0	0.0
4	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	104	0.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	207	0.0	0.0	99.0	99.0	99.0	0.0
	MSO			1.0	% v/v	EPOST	B	312	0.0	0.0	99.0	99.0	99.0	0.0
								404	0.0	0.0	99.0	99.0	99.0	0.0
								Mean =	0.0	0.0	99.0	99.0	99.0	0.0
5	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	105	0.0	0.0	99.0	99.0	99.0	0.0
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	208	0.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	305	0.0	0.0	99.0	99.0	99.0	0.0
								408	0.0	0.0	99.0	99.0	95.0	0.0
								Mean =	0.0	0.0	99.0	99.0	98.0	0.0
6	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	106	0.0	0.0	99.0	99.0	99.0	0.0
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	212	5.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	301	0.0	0.0	99.0	99.0	99.0	5.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	406	0.0	0.0	99.0	99.0	99.0	0.0
								Mean =	1.3	0.0	99.0	99.0	99.0	1.3
7	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	107	0.0	0.0	99.0	99.0	99.0	0.0
	WARRANT	3	SC	3.0	pt/a	EPOST	B	209	0.0	0.0	99.0	99.0	99.0	0.0
	MSO			1.0	% v/v	EPOST	B	306	0.0	0.0	99.0	99.0	95.0	0.0
								412	0.0	0.0	99.0	99.0	99.0	0.0
								Mean =	0.0	0.0	99.0	99.0	98.0	0.0
8	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	108	0.0	0.0	99.0	99.0	99.0	0.0
	WARRANT	3	SC	3.0	pt/a	EPOST	B	210	5.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	307	0.0	0.0	99.0	99.0	99.0	0.0
	MSO			1.0	% v/v	EPOST	B	405	0.0	0.0	99.0	99.0	99.0	0.0
								Mean =	1.3	0.0	99.0	99.0	99.0	0.0
9	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	109	0.0	0.0	99.0	99.0	99.0	0.0
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	201	10.0	0.0	99.0	99.0	99.0	10.0
	WARRANT	3	SC	3.0	pt/a	EPOST	B	310	5.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	402	0.0	0.0	99.0	99.0	99.0	0.0
								Mean =	3.8	0.0	99.0	99.0	99.0	2.5
10	WARRANT	3	SC	3.0	pt/a	PRE	A	110	10.0	0.0	99.0	99.0	99.0	0.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	204	5.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	311	5.0	0.0	99.0	99.0	99.0	5.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	410	10.0	0.0	99.0	99.0	99.0	5.0
								Mean =	7.5	0.0	99.0	99.0	99.0	2.5

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code							-----	-----	AMAPA	RAPRA	AGRASS	-----		
Crop Code							ZEAMA	ZEAMA	-----	-----	-----	ZEAMA		
Part Rated							STUNTING	Leaf -	Control	Control	Control	Stunting		
Rating Data Type							Percent	Necrosis	Percent	Percent	Percent	Percent		
Rating Unit							May-8-19	Percent	May-8-19	May-8-19	May-8-19	May-14-19		
Rating Date														
PRM Data Type														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code	Plot						
									11	12	13	14	15	16
11	WARRANT	3	SC	3.0	pt/a	PRE	A	111	0.0	0.0	99.0	99.0	99.0	0.0
	LAUDIS	3.45	SC	3.0	oz/a	POST	C	205	0.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	309	0.0	0.0	99.0	99.0	99.0	0.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	401	5.0	0.0	99.0	99.0	99.0	10.0
								Mean =	1.3	0.0	99.0	99.0	99.0	2.5
12	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	112	0.0	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	202	0.0	0.0	99.0	99.0	99.0	0.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	304	0.0	0.0	99.0	99.0	99.0	0.0
								403	5.0	0.0	99.0	99.0	99.0	0.0
								Mean =	1.3	0.0	99.0	99.0	99.0	0.0

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						AMAPA	RAPRA	AGRASS	AMAPA	AGRASS		
Crop Code						----	----	----	----	----		
Part Rated												
Rating Data Type						Control	Control	Control	Control	Control		
Rating Unit						Percent	Percent	Percent	Percent	Percent		
Rating Date						May-14-19	May-14-19	May-14-19	Jun-11-19	Jun-11-19		
PRM Data Type												
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	17	18	19	20	21
1	NTC						101	0.0	0.0	0.0	0.0	0.0
							206	0.0	0.0	0.0	0.0	0.0
							308	0.0	0.0	0.0	0.0	0.0
							411	0.0	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0	0.0
2	CORVUS	2.63	SC	3.33 oz/a	PRE	A	102	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	203	99.0	99.0	99.0	99.0	99.0
	DIFLEXX DUO	2.13	SC	24.0 oz/a	POST	C	302	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	48.0 oz/a	POST	C	409	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C						
							Mean =	99.0	99.0	99.0	99.0	99.0
3	BALANCE FLEXX	2	SC	3.0 oz/a	PRE	A	103	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	211	99.0	99.0	99.0	99.0	95.0
	CAPRENO	3.45	SC	3.0 oz/a	POST	C	303	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	48.0 oz/a	POST	C	407	99.0	99.0	99.0	99.0	95.0
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C						
							Mean =	99.0	99.0	99.0	99.0	97.0
4	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	104	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0 oz/a	EPOST	B	207	99.0	99.0	99.0	99.0	99.0
	MSO			1.0 % v/v	EPOST	B	312	99.0	99.0	99.0	95.0	95.0
							404	99.0	99.0	99.0	99.0	99.0
							Mean =	99.0	99.0	99.0	98.0	98.0
5	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	105	99.0	99.0	99.0	99.0	99.0
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	208	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0 oz/a	EPOST	B	305	99.0	99.0	99.0	99.0	99.0
							408	99.0	99.0	99.0	99.0	95.0
							Mean =	99.0	99.0	99.0	99.0	98.0
6	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	106	99.0	99.0	99.0	99.0	99.0
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	212	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0 oz/a	EPOST	B	301	99.0	99.0	99.0	99.0	95.0
	PROWL H20	3.8	SC	32.0 oz/a	EPOST	B	406	99.0	99.0	99.0	99.0	99.0
							Mean =	99.0	99.0	99.0	99.0	98.0
7	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	107	99.0	99.0	99.0	95.0	99.0
	WARRANT	3	SC	3.0 pt/a	EPOST	B	209	99.0	99.0	99.0	99.0	99.0
	MSO			1.0 % v/v	EPOST	B	306	99.0	99.0	99.0	95.0	95.0
							412	99.0	99.0	99.0	99.0	95.0
							Mean =	99.0	99.0	99.0	97.0	97.0
8	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	108	99.0	99.0	99.0	99.0	99.0
	WARRANT	3	SC	3.0 pt/a	EPOST	B	210	99.0	99.0	99.0	99.0	95.0
	ATRAZINE	4	L	64.0 oz/a	EPOST	B	307	99.0	99.0	99.0	99.0	95.0
	MSO			1.0 % v/v	EPOST	B	405	99.0	99.0	99.0	99.0	95.0
							Mean =	99.0	99.0	99.0	99.0	96.0
9	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	B	109	99.0	99.0	99.0	99.0	99.0
	LAUDIS	3.5	SC	3.0 oz/a	EPOST	B	201	99.0	99.0	99.0	99.0	99.0
	WARRANT	3	SC	3.0 pt/a	EPOST	B	310	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0 oz/a	EPOST	B	402	99.0	99.0	99.0	99.0	99.0
							Mean =	99.0	99.0	99.0	99.0	99.0
10	WARRANT	3	SC	3.0 pt/a	PRE	A	110	99.0	99.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0 oz/a	POST	C	204	99.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0 oz/a	POST	C	311	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	410	99.0	99.0	99.0	99.0	99.0
							Mean =	99.0	99.0	99.0	99.0	99.0

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

	AMAPA	RAPRA	AGRASS	AMAPA	AGRASS
Weed Code	-----	-----	-----	-----	-----
Crop Code	-----	-----	-----	-----	-----
Part Rated					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	May-14-19	May-14-19	May-14-19	Jun-11-19	Jun-11-19
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment					
No. Name	17	18	19	20	21
Form Form					
Conc Type					
Rate Rate					
Unit Unit					
Grow Stg					
Appl Code					
Plot Plot					
11 WARRANT	99.0	99.0	99.0	99.0	99.0
LAUDIS	99.0	99.0	99.0	99.0	99.0
ATRAZINE	99.0	99.0	99.0	99.0	99.0
ROUNDUP P-MAX	99.0	99.0	99.0	99.0	99.0
Mean =	99.0	99.0	99.0	99.0	99.0
12 ROUNDUP PMAX	99.0	99.0	99.0	99.0	99.0
ATRAZINE	99.0	99.0	99.0	99.0	99.0
PROWL H20	99.0	99.0	99.0	99.0	99.0
Mean =	99.0	99.0	99.0	99.0	99.0

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
 Location: PONDER FARM Investigator: Eric P. Prostko

							----- ZEAMA PLOT - YIELD LBS Aug-30-19	----- ZEAMA PLOT - YIELD BU/A Aug-30-19 TY1 - 0		
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
								22	23	
1	NTC							101 206 308 411 Mean =	39.0 51.0 46.0 47.0 45.8	198 259 234 239 232
2	CORVUS	2.63	SC	3.33	oz/a	PRE	A	102	53.0	269
	ATRAZINE	4	L	32.0	oz/a	PRE	A	203	55.0	279
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	302	50.0	254
	ATRAZINE	4	L	48.0	oz/a	POST	C	409	56.0	284
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	Mean =	53.5	272
3	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	103	54.0	274
	ATRAZINE	4	L	32.0	oz/a	PRE	A	211	51.0	259
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	303	53.0	269
	ATRAZINE	4	L	48.0	oz/a	POST	C	407	54.0	274
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	Mean =	53.0	269
4	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	104	57.0	289
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	207	55.0	279
	MSO			1.0	% v/v	EPOST	B	312	48.0	244
								404	53.0	269
								Mean =	53.3	270
5	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	105	57.0	289
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	208	52.0	264
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	305	57.0	289
								408	50.0	254
								Mean =	54.0	274
6	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	106	58.0	294
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	212	53.0	269
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	301	53.0	269
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	406	57.0	289
								Mean =	55.3	280
7	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	107	59.0	300
	WARRANT	3	SC	3.0	pt/a	EPOST	B	209	57.0	289
	MSO			1.0	% v/v	EPOST	B	306	57.0	289
								412	52.0	264
								Mean =	56.3	286
8	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	108	56.0	284
	WARRANT	3	SC	3.0	pt/a	EPOST	B	210	53.0	269
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	307	54.0	274
	MSO			1.0	% v/v	EPOST	B	405	56.0	284
								Mean =	54.8	278
9	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	109	59.0	300
	LAUDIS	3.5	SC	3.0	oz/a	EPOST	B	201	54.0	274
	WARRANT	3	SC	3.0	pt/a	EPOST	B	310	49.0	249
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	402	56.0	284
								Mean =	54.5	277
10	WARRANT	3	SC	3.0	pt/a	PRE	A	110	58.0	294
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	204	57.0	289
	ATRAZINE	4	L	64.0	oz/a	POST	C	311	46.0	234
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	410	47.0	239
								Mean =	52.0	264

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BAYER FIELD CORN WEED CONTROL PROGRAMS - I

Trial ID: CN-05-19 Study Dir.: KEITH RUCKER
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.

Part Rated

Leaf = LEAF / FOLIAGE

PRM Data Type

TY1 = 5.076477*[22]