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HARNESS MAX PRE TO CORN AND WEEDS

Trial ID: CN-09-18 Study Dir.: Teresa K Perkins (2018-01-24-10)
 Location: PONDER FARM Investigator: ROSS A RECKER

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	HIGH RATE HARNESS XTRA	6 #/G	L		3.9 lb ai/a	A	64.99 mL/mx	101	209	306	412
2	HIGH RATE RESICORE	3.29 #/G	EC		2.5 lb ai/a	A	75.98 mL/mx	102	210	317	415
3	HIGH RATE ACURON	3.44 #/G	AI SC		2.58 lb ai/a	A	74.99 mL/mx	103	208	308	411
4	HIGH RATE HARNESS MAX	3.85 #/G	AI SC		2.26 lb ai/a	A	58.69 mL/mx	104	207	309	417
5	HIGH RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC SC		2.26 lb ai/a 1 lb ai/a	A A	58.69 mL/mx 25.0 mL/mx	105	206	316	413
6	MEDIUM RATE HARNESS XTRA	6 #/G	L		3.3 lb ai/a	A	54.99 mL/mx	106	213	304	407
7	MEDIUM RATE RESICORE	3.29 #/G	EC		1.99 lb ai/a	A	60.48 mL/mx	107	214	305	406
8	MEDIUM RATE ACURON	3.44 #/G	AI SC		2.37 lb ai/a	A	68.89 mL/mx	108	215	303	416
9	MEDIUM RATE HARNESS MAX	3.85 #/G	AI SC		1.93 lb ai/a	A	50.12 mL/mx	109	212	301	409
10	MEDIUM RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC SC		1.93 lb ai/a 1 lb ai/a	A A	50.12 mL/mx 25.0 mL/mx	110	211	302	408
11	LOW RATE HARNESS XTRA	6 #/G	L		2.7 lb ai/a	A	45.0 mL/mx	111	216	311	403
12	LOW RATE RESICORE	3.29 #/G	EC		1.88 lb ai/a	A	57.14 mL/mx	112	217	314	401
13	LOW RATE ACURON	3.44 #/G	AI SC		2.15 lb ai/a	A	62.49 mL/mx	113	203	313	405
14	LOW RATE HARNESS MAX	3.85 #/G	AI SC		1.65 lb ai/a	A	42.85 mL/mx	114	205	315	404
15	LOW RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC SC		1.65 lb ai/a 1 lb ai/a	A A	42.85 mL/mx 25.0 mL/mx	115	202	312	402
16	NTC							116	204	307	410
17	NTC							117	201	310	414

Sort Order: Treatment

Trial Comments

HARNESS XTRA = ACETOCHLOR (4.3 LBS) + ATRAZINE (1.7 LBS)
 HARNESS MAX = ACETOCHLOR (3.52 LBS) + MESOTRIONE (0.33 LBS)
 RESICORE = ACETOCHLOR (2.8 LBS) + MESOTRIONE (0.30 LBS) + CLOPYRALID (0.19 LBS)
 ACURON = S-METOLACHLOR (2.14 LBS) + ATRAZINE (1.0 LBS) + MEOSTRIONE (0.24 LBS) + BICYCLOPYRONE (0.06 LBS)

HARNESS XTRA AND HARNESS MAX ARE FORMULATED AS SE NOT EC

AGRASS = NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDING TEXAS PANICUM, CROWFOOTGRASS, CRABGRASS, AND GOOSEGRASS.

HARVEST MOISTURE: 16.05%
 YIELDS ADJUSTED TO 15.5%

SUMMARY:

1) CORN STUNTING:

A) AT 14 DAT, CROP STUNTING WAS LESS THAN 10% WITH ALL PRE TREATMENTS.

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B) AT 22 DAT, ONLY THE MEDIUM RATE OF RESICORE AND THE LOW RATE OF HARNESS EXTRA CAUSED STUNTING OF 10% OR HIGHER.

C) AT 42 DAT, THE FOLLOWING TREATMENTS CAUSED AT LEAST 10% STUNTING: HIGH RATES OF HARNESS EXTRA AND HARNESS MAX (12.5%-15%); LOW RATE OF HARNESS EXTRA AND LOW RATE OF HARNESS MAX + ATRAZINE (10%).

2) PALMER AMARANTH CONTROL:

A) PALMER AMARANTH CONTROL WAS EXCELLENT (99%) WITH ALL TREATMENTS AT EVERY RATING DATE.

3) ANNUAL GRASS CONTROL:

A) AT 14 AND 22 DAT, ANNUAL GRASS CONTROL WAS EXCELLENT (>95%) WITH ALL TREATMENTS.

B) AT 42 DAT, ONLY THE HIGH RATES OF HARNESS EXTRA AND RESICORE PROVIDED >90% CONTROL OF ANNUAL GRASSES.

C) AT 76 DAT, ALL TREATMENTS PROVIDED <64% CONTROL OF ANNUAL GRASSES EXCEPT THE HIGH RATE OF HARNESS XTRA (77.5%) AND HIGH RATE OF ACURON (75%).

4) CORN YIELD:

A) GENERALLY, ALL TREATMENTS RESULTED IN HIGHER CORN YIELDS THAN THE NTC EXCEPT FOR THE FOLLOWING:

HARNESS XTRA - LOW RATE

HARNESS MAX + ATRAZINE - LOW RATE

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HARNESS MAX PRE TO CORN AND WEEDS

Trial ID: CN-09-18 Study Dir.: Teresa K Perkins (2018-01-24-10)
Location: PONDER FARM Investigator: ROSS A RECKER

GENERAL TRIAL INFORMATION

Study Director: Teresa K Perkins (2018-01-24) **Title:** _____ **Postal Code:** _____
Affiliation: _____
Investigator: ROSS A RECKER **Title:** _____ **Postal Code:** _____
Affiliation: _____
Trial Status: I **Initiation Date:** _____ **Country:** USA
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: Compare mesotrione plus acetochlor premix (Harness Max) with industry standard herbicide premix competitors. The rate structure is designed to induce weed control breaks that will help separate product performance within the rates specified on the product label.

Conclusions:

CROP AND PEST DESCRIPTION

Weed 1: AMAPA PALMER AMARANTH **2:** AGRASS TX PAN/CROW/GOOSE/ CRAB
Crop 1: ZEAMA FIELD CORN **Variety:** DEKALB DKC 70-27 **Planting Date:** Apr-2-18
Planting Method: MONOSEM **Rate:** 363000 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:** SPLPLO
Trial Initiation Comments: _____

Previous: Crops **Pesticides** **Year**
1. PEANUT 2017 _____

MAINTENANCE

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.51 **% Sand:** 92 **% Silt:** 4 **% Clay:** 4
pH: 6.0 **CEC:** 1.7 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Mar-29-18	_____	0.4	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. Mar-30-18	_____	1.03	IN	RAINFALL	_____	_____
3. Apr-4-18	_____	0.03	IN	RAINFALL	_____	_____
4. Apr-5-18	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
5. Apr-7-18	_____	0.36	IN	RAINFALL	_____	_____
6. Apr-12-18	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
7. Apr-15-18	_____	1.0	IN	RAINFALL	_____	_____
8. Apr-22-18	_____	0.33	IN	RAINFALL	_____	_____
9. Apr-23-18	_____	1.18	IN	RAINFALL	_____	_____
10. May-4-18	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
11. May-7-18	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
12. May-9-18	_____	0.5	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:	Apr-3-18						
Time of Day:	7:15 AM						
Application Method:	BROADCAST						
Application Timing:	PRE						
Applic. Placement:	SOIL						
Air Temp., Unit:	56 F						
% Relative Humidity:	95						
Wind Velocity, Unit:	0 MPH						
Dew Presence (Y/N):	Y						
Water Hardness:	--						
Soil Temp., Unit:	61 F						
Soil Moisture:	OPTIMUM						
% Cloud Cover:	0						

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

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

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK						
Operating Pressure:	25						
Nozzle Type:	AIXR						
Nozzle Size:	11002						
Nozzle Spacing, Unit:	15 IN						
Nozzles/Row:	2						
Band Width, Unit:							
Boom Length, Unit:	60 IN						
Boom Height, Unit:	20 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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HARNESS MAX PRE TO CORN AND WEEDS							
Trial ID: CN-09-18 Study Dir.: Teresa K Perkins (2018-01-24-10) Location: PONDER FARM Investigator: ROSS A RECKER							
Weed Code	-----	AMAPA	AGRASS	-----	AMAPA	AGRASS	-----
Crop Code	ZEAMA	-----	-----	ZEAMA	-----	-----	ZEAMA
Part Rated							
Rating Data Type	STUNTING	CONTROL	CONTROL	STUNTING	CONTROL	CONTROL	STUNTING
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Apr-17-18	Apr-17-18	Apr-17-18	Apr-25-18	Apr-25-18	Apr-25-18	May-15-18
PRM Data Type							
# Subsamples, Dec.							
Trt Treatment	Form Form	Form	Rate	Appl			
No. Name	Conc Unit	Type	Rate Unit	Code			
1 HIGH RATE					1	2	3
HARNESS XTRA	6 #/G	L	3.9 lb ai/a A	A	2.5 a	99.0 a	99.0 a
2 HIGH RATE					4	5	6
RESICORE	3.29 #/G	EC	2.5 lb ai/a A	A	6.3 a	99.0 a	99.0 a
3 HIGH RATE					7		
ACURON	3.44 #/G AI	SC	2.58 lb ai/a A	A	0.0 a	99.0 a	99.0 a
4 HIGH RATE							
HARNESS MAX	3.85 #/G AI	SC	2.26 lb ai/a A	A	2.5 a	99.0 a	99.0 a
5 HIGH RATE							
HARNESS MAX	3.85 #/G AI	SC	2.26 lb ai/a A	A	0.0 a	99.0 a	99.0 a
ATRAZINE	4 #/G	SC	1 lb ai/a A	A	99.0 a	99.0 a	7.5 a
6 MEDIUM RATE							
HARNESS XTRA	6 #/G	L	3.3 lb ai/a A	A	2.5 a	99.0 a	99.0 a
7 MEDIUM RATE							
RESICORE	3.29 #/G	EC	1.99 lb ai/a A	A	5.0 a	99.0 a	99.0 a
8 MEDIUM RATE							
ACURON	3.44 #/G AI	SC	2.37 lb ai/a A	A	11.3 a	99.0 a	99.0 a
9 MEDIUM RATE							
HARNESS MAX	3.85 #/G AI	SC	1.93 lb ai/a A	A	7.5 a	99.0 a	99.0 a
10 MEDIUM RATE							
HARNESS MAX	3.85 #/G AI	SC	1.93 lb ai/a A	A	5.0 a	99.0 a	99.0 a
ATRAZINE	4 #/G	SC	1 lb ai/a A	A	99.0 a	99.0 a	5.0 a
11 LOW RATE							
HARNESS XTRA	6 #/G	L	2.7 lb ai/a A	A	2.5 a	99.0 a	99.0 a
12 LOW RATE							
RESICORE	3.29 #/G	EC	1.88 lb ai/a A	A	10.0 a	99.0 a	99.0 a
13 LOW RATE							
ACURON	3.44 #/G AI	SC	2.15 lb ai/a A	A	5.0 a	99.0 a	99.0 a
14 LOW RATE							
HARNESS MAX	3.85 #/G AI	SC	1.65 lb ai/a A	A	2.5 a	99.0 a	99.0 a
15 LOW RATE							
HARNESS MAX	3.85 #/G AI	SC	1.65 lb ai/a A	A	99.0 a	99.0 a	10.0 a
ATRAZINE	4 #/G	SC	1 lb ai/a A	A	0.0	0.0	0.0
16 NTC					0.0	0.0	0.0
17 NTC					0.0	0.0	0.0
Tukey's HSD P=.10					11.32	.	20.33
Comp. Trt. LSD					5.08	0.00	10.38
Standard Deviation					4.68	0.00	8.41
CV					176.97	0.0	144.82
Grand Mean					2.65	87.35	5.81
Levene's F					1.938	0.00	1.889
Levene's Prob(F)					0.038*	0.00*	0.044*
Replicate F					2.591	0.000	1.308
Replicate Prob(F)					0.0678	1.0000	0.2869
Treatment F					0.779	0.000	1.258
Treatment Prob(F)					0.6974	1.0000	0.2753

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

Mean separations are based on the complete error term.

Could not calculate Tukey's HSD (% mean diff) for columns 2,3,5,8,10 because error mean square = 0.

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Weed Code							AMAPA	AGRASS	AMAPA	AGRASS	-----	-----
Crop Code							-----	-----	-----	-----	ZEAMA	ZEAMA
Part Rated											PLOT -	PLOT -
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	YIELD	YIELD
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	LBS/PLOT	BU/A
Rating Date							May-15-18	May-15-18	Jun-18-18	Jun-18-18	Sep-7-18	Sep-7-18
PRM Data Type												TY1
# Subsamples, Dec.												- 0
Trt Treatment	Form	Form	Form	Rate	Appl		8	9	10	11	12	13
No. Name	Conc	Unit	Type	Unit	Code							
1 HIGH RATE					A		99.0 a	96.0 a	99.0 a	77.5 a	35.8 abc	184 abc
HARNESS XTRA	6 #/G	L		3.9 lb ai/a	A							
2 HIGH RATE					A		99.0 a	93.8 ab	99.0 a	62.5 abc	37.0 ab	191 ab
RESICORE	3.29 #/G	EC		2.5 lb ai/a	A							
3 HIGH RATE					A		99.0 a	87.0 abc	99.0 a	75.0 ab	38.5 ab	198 ab
ACURON	3.44 #/G	AI SC		2.58 lb ai/a	A							
4 HIGH RATE					A		99.0 a	72.3 abc	99.0 a	36.3 cd	36.3 ab	187 ab
HARNESS MAX	3.85 #/G	AI SC		2.26 lb ai/a	A							
5 HIGH RATE					A		99.0 a	83.8 abc	99.0 a	63.8 abc	34.3 abc	176 abc
HARNESS MAX	3.85 #/G	AI SC		2.26 lb ai/a	A							
ATRAZINE	4 #/G	SC		1 lb ai/a	A							
6 MEDIUM RATE					A		99.0 a	72.5 abc	99.0 a	57.5 abc	36.5 ab	188 ab
HARNESS XTRA	6 #/G	L		3.3 lb ai/a	A							
7 MEDIUM RATE					A		99.0 a	73.8 abc	99.0 a	52.5 abc	35.8 abc	184 abc
RESICORE	3.29 #/G	EC		1.99 lb ai/a	A							
8 MEDIUM RATE					A		99.0 a	67.5 bc	99.0 a	48.8 abc	37.0 ab	191 ab
ACURON	3.44 #/G	AI SC		2.37 lb ai/a	A							
9 MEDIUM RATE					A		99.0 a	68.8 abc	99.0 a	46.3 abc	37.5 ab	193 ab
HARNESS MAX	3.85 #/G	AI SC		1.93 lb ai/a	A							
10 MEDIUM RATE					A		99.0 a	73.8 abc	99.0 a	60.0 abc	39.0 a	201 a
HARNESS MAX	3.85 #/G	AI SC		1.93 lb ai/a	A							
ATRAZINE	4 #/G	SC		1 lb ai/a	A							
11 LOW RATE					A		99.0 a	66.3 bc	99.0 a	31.3 cd	33.0 abc	170 abc
HARNESS XTRA	6 #/G	L		2.7 lb ai/a	A							
12 LOW RATE					A		99.0 a	76.3 abc	99.0 a	46.3 abc	37.0 ab	191 ab
RESICORE	3.29 #/G	EC		1.88 lb ai/a	A							
13 LOW RATE					A		99.0 a	71.3 abc	99.0 a	43.8 abc	37.0 ab	191 ab
ACURON	3.44 #/G	AI SC		2.15 lb ai/a	A							
14 LOW RATE					A		99.0 a	68.8 abc	99.0 a	37.5 bcd	37.3 ab	192 ab
HARNESS MAX	3.85 #/G	AI SC		1.65 lb ai/a	A							
15 LOW RATE					A		99.0 a	65.0 c	99.0 a	42.5 abc	32.5 bc	167 bc
HARNESS MAX	3.85 #/G	AI SC		1.65 lb ai/a	A							
ATRAZINE	4 #/G	SC		1 lb ai/a	A							
16 NTC							0.0	0.0	0.0	0.0	28.0	144
17 NTC							0.0	0.0	0.0	0.0	29.8	153
Tukey's HSD P=.10							.	28.11	.	38.03	6.38	32.9
Comp. Trt. LSD							0.00	13.35	0.00	18.57	3.91	20.2
Standard Deviation							0.00	11.63	0.00	15.74	2.64	13.6
CV							0.0	17.4	0.0	34.25	7.46	7.46
Grand Mean							87.35	66.85	87.35	45.96	35.41	182.4
Levene's F							0.00	1.334	0.00	1.702	0.952	0.952
Levene's Prob(F)							0.00*	0.214	0.00*	0.077	0.519	0.519
Replicate F							0.000	1.957	0.000	2.970	11.383	11.383
Replicate Prob(F)							1.0000	0.1380	1.0000	0.0446	0.0001	0.0001
Treatment F							0.000	21.212	0.000	7.502	5.201	5.201
Treatment Prob(F)							1.0000	0.0001	1.0000	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

Mean separations are based on the complete error term.

Could not calculate Tukey's HSD (% mean diff) for columns 2,3,5,8,10 because error mean square = 0.

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HARNESS MAX PRE TO CORN AND WEEDS	
Trial ID: CN-09-18	Study Dir.: Teresa K Perkins (2018-01-24-10)
Location: PONDER FARM	Investigator: ROSS A RECKER
<u>Weed Code</u> AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. <u>PRM Data Type</u> TY1 = 5.151961*[12]	

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HARNESS MAX PRE TO CORN AND WEEDS

Trial ID: CN-09-18 Study Dir.: Teresa K Perkins (2018-01-24-10)
 Location: PONDER FARM Investigator: ROSS A RECKER

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA -----	AMAPA -----	AGRASS -----	----- ZEAMA -----	AMAPA -----	AGRASS -----			
							STUNTING PERCENT Apr-17-18	CONTROL PERCENT Apr-17-18	CONTROL PERCENT Apr-17-18	STUNTING PERCENT Apr-25-18	CONTROL PERCENT Apr-25-18	CONTROL PERCENT Apr-25-18			
Trt	Treatment	Form	Form	Form	Rate	Appl									
No.	Name	Conc	Unit	Type	Rate	Unit	Code	Plot	1	2	3	4	5	6	
1	HIGH RATE HARNESS XTRA	6	#/G	L	3.9	lb ai/a	A	101	0.0	99.0	99.0	0.0	99.0	99.0	
							A	209	0.0	99.0	99.0	0.0	99.0	99.0	
								306	0.0	99.0	99.0	15.0	99.0	99.0	
								412	10.0	99.0	99.0	10.0	99.0	99.0	
								Mean =	2.5	99.0	99.0	6.3	99.0	99.0	
2	HIGH RATE RESICORE	3.29	#/G	EC	2.5	lb ai/a	A	102	0.0	99.0	99.0	0.0	99.0	99.0	
								210	10.0	99.0	99.0	15.0	99.0	99.0	
								317	10.0	99.0	99.0	10.0	99.0	99.0	
								415	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	5.0	99.0	99.0	6.3	99.0	99.0	
3	HIGH RATE ACURON	3.44	#/G	AI	SC	2.58	lb ai/a	A	103	10.0	99.0	99.0	0.0	99.0	99.0
								208	0.0	99.0	99.0	0.0	99.0	99.0	
								308	0.0	99.0	99.0	0.0	99.0	99.0	
								411	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	2.5	99.0	99.0	0.0	99.0	99.0	
4	HIGH RATE HARNESS MAX	3.85	#/G	AI	SC	2.26	lb ai/a	A	104	0.0	99.0	99.0	0.0	99.0	99.0
								207	0.0	99.0	99.0	0.0	99.0	99.0	
								309	0.0	99.0	99.0	10.0	99.0	99.0	
								417	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	0.0	99.0	99.0	2.5	99.0	99.0	
5	HIGH RATE HARNESS MAX ATRAZINE	3.85 4	#/G #/G	AI SC	2.26 1	lb ai/a lb ai/a	A A	105	0.0	99.0	99.0	0.0	99.0	99.0	
								206	10.0	99.0	99.0	0.0	99.0	99.0	
								316	0.0	99.0	99.0	0.0	99.0	99.0	
								413	10.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	5.0	99.0	99.0	0.0	99.0	99.0	
6	MEDIUM RATE HARNESS XTRA	6	#/G	L	3.3	lb ai/a	A	106	0.0	99.0	99.0	0.0	99.0	99.0	
								213	0.0	99.0	99.0	0.0	99.0	99.0	
								304	0.0	99.0	99.0	10.0	99.0	99.0	
								407	10.0	99.0	99.0	10.0	99.0	99.0	
								Mean =	2.5	99.0	99.0	5.0	99.0	99.0	
7	MEDIUM RATE RESICORE	3.29	#/G	EC	1.99	lb ai/a	A	107	0.0	99.0	99.0	0.0	99.0	99.0	
								214	10.0	99.0	99.0	20.0	99.0	99.0	
								305	0.0	99.0	99.0	15.0	99.0	99.0	
								406	10.0	99.0	99.0	10.0	99.0	99.0	
								Mean =	5.0	99.0	99.0	11.3	99.0	99.0	
8	MEDIUM RATE ACURON	3.44	#/G	AI	SC	2.37	lb ai/a	A	108	10.0	99.0	99.0	0.0	99.0	99.0
								215	10.0	99.0	99.0	20.0	99.0	99.0	
								303	0.0	99.0	99.0	10.0	99.0	99.0	
								416	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	5.0	99.0	99.0	7.5	99.0	99.0	
9	MEDIUM RATE HARNESS MAX	3.85	#/G	AI	SC	1.93	lb ai/a	A	109	10.0	99.0	99.0	0.0	99.0	99.0
								212	10.0	99.0	99.0	20.0	99.0	99.0	
								301	0.0	99.0	99.0	0.0	99.0	99.0	
								409	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	5.0	99.0	99.0	5.0	99.0	99.0	
10	MEDIUM RATE HARNESS MAX ATRAZINE	3.85 4	#/G #/G	AI SC	1.93 1	lb ai/a lb ai/a	A A	110	0.0	99.0	99.0	0.0	99.0	99.0	
								211	10.0	99.0	99.0	20.0	99.0	99.0	
								302	0.0	99.0	99.0	0.0	99.0	99.0	
								408	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	2.5	99.0	99.0	5.0	99.0	99.0	
11	LOW RATE HARNESS XTRA	6	#/G	L	2.7	lb ai/a	A	111	0.0	99.0	99.0	0.0	99.0	99.0	
								216	10.0	99.0	99.0	30.0	99.0	99.0	
								311	0.0	99.0	99.0	10.0	99.0	99.0	
								403	0.0	99.0	99.0	0.0	99.0	99.0	
								Mean =	2.5	99.0	99.0	10.0	99.0	99.0	

Weed Code							----- ZEAMA	AMAPA -----	AGRASS -----	----- ZEAMA	AMAPA -----	AGRASS -----
Crop Code							STUNTING PERCENT	CONTROL PERCENT	CONTROL PERCENT	STUNTING PERCENT	CONTROL PERCENT	CONTROL PERCENT
Part Rated							Apr-17-18	Apr-17-18	Apr-17-18	Apr-25-18	Apr-25-18	Apr-25-18
Rating Data Type												
Rating Unit												
Rating Date												
PRM Data Type												
# Subsamples, Dec.												
Trt Treatment	Form	Form	Form	Rate	Appl							
No. Name	Conc	Unit	Type	Rate	Unit	Code Plot	1	2	3	4	5	6
12 LOW RATE						112	0.0	99.0	99.0	0.0	99.0	99.0
RESICORE	3.29	#/G	EC	1.88	lb ai/a	A 217	10.0	99.0	99.0	10.0	99.0	99.0
						314	0.0	99.0	99.0	0.0	99.0	99.0
						401	10.0	99.0	99.0	10.0	99.0	99.0
						Mean =	5.0	99.0	99.0	5.0	99.0	99.0
13 LOW RATE						113	0.0	99.0	99.0	0.0	99.0	99.0
ACURON	3.44	#/G	AI SC	2.15	lb ai/a	A 203	0.0	99.0	99.0	0.0	99.0	99.0
						313	0.0	99.0	99.0	0.0	99.0	90.0
						405	10.0	99.0	99.0	10.0	99.0	95.0
						Mean =	2.5	99.0	99.0	2.5	99.0	95.8
14 LOW RATE						114	0.0	99.0	99.0	0.0	99.0	99.0
HARNESS MAX	3.85	#/G	AI SC	1.65	lb ai/a	A 205	0.0	99.0	99.0	0.0	99.0	99.0
						315	0.0	99.0	99.0	10.0	99.0	99.0
						404	0.0	99.0	99.0	0.0	99.0	99.0
						Mean =	0.0	99.0	99.0	2.5	99.0	99.0
15 LOW RATE						115	0.0	99.0	99.0	20.0	99.0	99.0
HARNESS MAX	3.85	#/G	AI SC	1.65	lb ai/a	A 202	0.0	99.0	99.0	0.0	99.0	99.0
ATRAZINE	4	#/G	SC	1	lb ai/a	A 312	0.0	99.0	99.0	0.0	99.0	99.0
						402	0.0	99.0	99.0	10.0	99.0	99.0
						Mean =	0.0	99.0	99.0	7.5	99.0	99.0
16 NTC						116	0.0	0.0	0.0	0.0	0.0	0.0
						204	0.0	0.0	0.0	0.0	0.0	0.0
						307	0.0	0.0	0.0	0.0	0.0	0.0
						410	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
17 NTC						117	0.0	0.0	0.0	0.0	0.0	0.0
						201	0.0	0.0	0.0	0.0	0.0	0.0
						310	0.0	0.0	0.0	0.0	0.0	0.0
						414	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

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA -----	AMAPA -----	AGRASS -----	AMAPA -----	AGRASS -----	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-7-18
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Appl Unit Code Plot	7	8	9	10	11	12
1	HIGH RATE HARNESS XTRA	6 #/G		L	3.9 lb ai/a	A 101 209 306 412 Mean =	0.0 0.0 20.0 40.0 15.0	99.0 99.0 99.0 99.0 99.0	95.0 95.0 95.0 99.0 96.0	99.0 99.0 99.0 99.0 99.0	65.0 80.0 80.0 85.0 77.5	45.0 38.0 30.0 30.0 35.8
2	HIGH RATE RESICORE	3.29 #/G		EC	2.5 lb ai/a	A 102 210 317 415 Mean =	0.0 20.0 20.0 0.0 10.0	99.0 99.0 99.0 99.0 99.0	95.0 95.0 95.0 90.0 93.8	99.0 99.0 99.0 99.0 99.0	65.0 65.0 65.0 55.0 62.5	42.0 37.0 35.0 34.0 37.0
3	HIGH RATE ACURON	3.44 #/G	AI	SC	2.58 lb ai/a	A 103 208 308 411 Mean =	0.0 0.0 0.0 5.0 1.3	99.0 99.0 99.0 99.0 99.0	99.0 85.0 65.0 99.0 87.0	99.0 99.0 99.0 99.0 99.0	90.0 75.0 40.0 95.0 75.0	44.0 40.0 33.0 37.0 38.5
4	HIGH RATE HARNESS MAX	3.85 #/G	AI	SC	2.26 lb ai/a	A 104 207 309 417 Mean =	20.0 0.0 10.0 20.0 12.5	99.0 99.0 99.0 99.0 99.0	99.0 60.0 65.0 65.0 72.3	99.0 99.0 99.0 99.0 99.0	65.0 50.0 10.0 20.0 36.3	37.0 40.0 31.0 37.0 36.3
5	HIGH RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC	SC	2.26 lb ai/a 1 lb ai/a	A 105 206 316 413 Mean =	0.0 0.0 0.0 30.0 7.5	99.0 99.0 99.0 99.0 99.0	85.0 60.0 95.0 95.0 83.8	99.0 99.0 99.0 99.0 99.0	60.0 50.0 60.0 85.0 63.8	35.0 32.0 37.0 33.0 34.3
6	MEDIUM RATE HARNESS XTRA	6 #/G		L	3.3 lb ai/a	A 106 213 304 407 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	65.0 60.0 85.0 80.0 72.5	99.0 99.0 99.0 99.0 99.0	50.0 50.0 65.0 65.0 57.5	38.0 34.0 38.0 36.0 36.5
7	MEDIUM RATE RESICORE	3.29 #/G		EC	1.99 lb ai/a	A 107 214 305 406 Mean =	0.0 10.0 10.0 10.0 7.5	99.0 99.0 99.0 99.0 99.0	60.0 60.0 95.0 80.0 73.8	99.0 99.0 99.0 99.0 99.0	50.0 40.0 65.0 55.0 52.5	38.0 32.0 39.0 34.0 35.8
8	MEDIUM RATE ACURON	3.44 #/G	AI	SC	2.37 lb ai/a	A 108 215 303 416 Mean =	0.0 15.0 0.0 0.0 3.8	99.0 99.0 99.0 99.0 99.0	65.0 65.0 80.0 60.0 67.5	99.0 99.0 99.0 99.0 99.0	55.0 50.0 60.0 30.0 48.8	38.0 34.0 37.0 39.0 37.0
9	MEDIUM RATE HARNESS MAX	3.85 #/G	AI	SC	1.93 lb ai/a	A 109 212 301 409 Mean =	0.0 15.0 0.0 0.0 3.8	99.0 99.0 99.0 99.0 99.0	75.0 65.0 60.0 75.0 68.8	99.0 99.0 99.0 99.0 99.0	55.0 55.0 20.0 55.0 46.3	36.0 32.0 40.0 42.0 37.5
10	MEDIUM RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC	SC	1.93 lb ai/a 1 lb ai/a	A 110 211 302 408 Mean =	0.0 20.0 0.0 0.0 5.0	99.0 99.0 99.0 99.0 99.0	65.0 95.0 65.0 70.0 73.8	99.0 99.0 99.0 99.0 99.0	55.0 75.0 55.0 55.0 60.0	39.0 36.0 41.0 40.0 39.0
11	LOW RATE HARNESS XTRA	6 #/G		L	2.7 lb ai/a	A 111 216 311 403 Mean =	0.0 20.0 20.0 0.0 10.0	99.0 99.0 99.0 99.0 99.0	65.0 60.0 75.0 65.0 66.3	99.0 99.0 99.0 99.0 99.0	55.0 20.0 30.0 20.0 31.3	36.0 30.0 31.0 35.0 33.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA ----- STUNTING PERCENT May-15-18	AMAPA ----- CONTROL PERCENT May-15-18	AGRASS ----- CONTROL PERCENT May-15-18	AMAPA ----- CONTROL PERCENT Jun-18-18	AGRASS ----- CONTROL PERCENT Jun-18-18	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-7-18		
Trt	Treatment	Form	Form	Form	Rate	Appl								
No.	Name	Conc	Unit	Type	Rate	Unit	Code	Plot						
12	LOW RATE RESICORE	3.29	#/G	EC	1.88	lb ai/a	A	112 217 314 401 Mean =	0.0 10.0 99.0 99.0 7.5	99.0 99.0 99.0 99.0 99.0	85.0 60.0 65.0 95.0 76.3	99.0 99.0 99.0 99.0 99.0	60.0 30.0 30.0 65.0 46.3	45.0 32.0 36.0 35.0 37.0
13	LOW RATE ACURON	3.44	#/G	AI SC	2.15	lb ai/a	A	113 203 313 405 Mean =	0.0 0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0 99.0	90.0 65.0 65.0 65.0 71.3	99.0 99.0 99.0 99.0 99.0	85.0 50.0 20.0 20.0 43.8	40.0 35.0 38.0 35.0 37.0
14	LOW RATE HARNESS MAX	3.85	#/G	AI SC	1.65	lb ai/a	A	114 205 315 404 Mean =	10.0 0.0 10.0 0.0 5.0	99.0 99.0 99.0 99.0 99.0	85.0 60.0 70.0 60.0 68.8	99.0 99.0 99.0 99.0 99.0	60.0 40.0 40.0 10.0 37.5	43.0 34.0 39.0 33.0 37.3
15	LOW RATE HARNESS MAX ATRAZINE	3.85 4	#/G #/G	AI SC SC	1.65 1	lb ai/a lb ai/a	A A	115 202 312 402 Mean =	10.0 0.0 20.0 10.0 10.0	99.0 99.0 99.0 99.0 99.0	75.0 60.0 60.0 65.0 65.0	99.0 99.0 99.0 99.0 99.0	60.0 50.0 20.0 40.0 42.5	38.0 31.0 30.0 31.0 32.5
16	NTC							116 204 307 410 Mean =	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	32.0 24.0 27.0 29.0 28.0
17	NTC							117 201 310 414 Mean =	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	30.0 33.0 25.0 31.0 29.8

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA PLOT - YIELD BU/A Sep-7-18 TY1 - 0
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Code	Plot
							13
1	HIGH RATE HARNESS XTRA	6 #/G	L		3.9 lb ai/a	A	101 232 209 196 306 155 412 155 Mean = 184
2	HIGH RATE RESICORE	3.29 #/G	EC		2.5 lb ai/a	A	102 216 210 191 317 180 415 175 Mean = 191
3	HIGH RATE ACURON	3.44 #/G	AI SC		2.58 lb ai/a	A	103 227 208 206 308 170 411 191 Mean = 198
4	HIGH RATE HARNESS MAX	3.85 #/G	AI SC		2.26 lb ai/a	A	104 191 207 206 309 160 417 191 Mean = 187
5	HIGH RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC SC		2.26 lb ai/a 1 lb ai/a	A	105 180 206 165 316 191 413 170 Mean = 176
6	MEDIUM RATE HARNESS XTRA	6 #/G	L		3.3 lb ai/a	A	106 196 213 175 304 196 407 185 Mean = 188
7	MEDIUM RATE RESICORE	3.29 #/G	EC		1.99 lb ai/a	A	107 196 214 165 305 201 406 175 Mean = 184
8	MEDIUM RATE ACURON	3.44 #/G	AI SC		2.37 lb ai/a	A	108 196 215 175 303 191 416 201 Mean = 191
9	MEDIUM RATE HARNESS MAX	3.85 #/G	AI SC		1.93 lb ai/a	A	109 185 212 165 301 206 409 216 Mean = 193
10	MEDIUM RATE HARNESS MAX ATRAZINE	3.85 #/G 4 #/G	AI SC SC		1.93 lb ai/a 1 lb ai/a	A	110 201 211 185 302 211 408 206 Mean = 201
11	LOW RATE HARNESS XTRA	6 #/G	L		2.7 lb ai/a	A	111 185 216 155 311 160 403 180 Mean = 170

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Weed Code							-----
Crop Code							ZEAMA
Part Rated							PLOT -
Rating Data Type							YIELD
Rating Unit							BU/A
Rating Date							Sep-7-18
PRM Data Type							TY1
# Subsamples, Dec.							- 0
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code Plot
12	LOW RATE RESICORE	3.29	#/G	EC	1.88 lb ai/a	A	112 232 217 165 314 185 401 180 Mean = 191
13	LOW RATE ACURON	3.44	#/G	AI SC	2.15 lb ai/a	A	113 206 203 180 313 196 405 180 Mean = 191
14	LOW RATE HARNESS MAX	3.85	#/G	AI SC	1.65 lb ai/a	A	114 222 205 175 315 201 404 170 Mean = 192
15	LOW RATE HARNESS MAX ATRAZINE	3.85 4	#/G #/G	AI SC	1.65 lb ai/a 1 lb ai/a	A A	115 196 202 160 312 155 402 160 Mean = 167
16	NTC						116 165 204 124 307 139 410 149 Mean = 144
17	NTC						117 155 201 170 310 129 414 160 Mean = 153

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HARNESS MAX PRE TO CORN AND WEEDS	
Trial ID: CN-09-18	Study Dir.: Teresa K Perkins (2018-01-24-10)
Location: PONDER FARM	Investigator: ROSS A RECKER
<u>Weed Code</u> AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. <u>PRM Data Type</u> TY1 = 5.151961*[12]	