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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC								101	208	310	402
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	74.99 ml/mx	102	206	304	401
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	74.99 ml/mx	103	207	305	410
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	17.19 ml/mx				
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	56.24 ml/mx	104	209	308	409
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	17.19 ml/mx				
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	45.0 ml/mx	105	204	307	408
	NIS			0.25	% V/V	POST	B	3.75 ml/mx				
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	37.5 ml/mx				
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	45.0 ml/mx	106	202	301	406
	ATRAZINE	4	L	1.5	QT/A	POST	B	37.5 ml/mx				
	NIS			0.25	% V/V	POST	B	3.75 ml/mx				
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	37.5 ml/mx				
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	1.123 g/mx	107	205	306	405
	ATRAZINE	4	L	1.5	QT/A	POST	B	37.5 ml/mx				
	COC			1.0	% V/V	POST	B	15.0 ml/mx				
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	17.19 ml/mx	108	210	309	404
	ATRAZINE	4	L	1.5	QT/A	POST	B	37.5 ml/mx				
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	22.65 ml/mx	109	203	302	407
	ATRAZINE	4	L	1.5	QT/A	POST	B	37.5 ml/mx				
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	2.343 ml/mx	110	201	303	403
	ATRAZINE	4	L	1.5	QT/A	POST	B	37.5 ml/mx				
	COC			1.0	% V/V	POST	B	15.0 ml/mx				
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	37.5 ml/mx				

Sort Order: Replicate 1

Trial Comments

LEXAR = S-MOC (1.74 LBS/GAL) + MESOTRIONE (0.224 LBS/GAL) + ATRAZINE (1.74 LBS/GAL)
HALEX GT = S-MOC (2.09 LBS/GAL) + GLYPHOSATE (2.09 LBS/GAL) + MESOTRIONE (0.209 LBS/GAL)
STEADFAST Q = NICOSULFURON (25.2%) + RIMSULFURON (12.5%)
CAPRENO = TEMBOTRIONE (2.88 LBS/GAL) + THIENCARBAZONE (0.57 LBS/GAL) + ISOXADIFEN

COC = RELIABLE (SOUTHERN STATES)

0.5" IRRIGATION 2-3 H AFTER POST TRT

HARVEST MOISTURE = 17%
YIELD ADJUSTED TO 15.5%

ANNUAL GRASS = TEXAS MILLET AND CRABGRASS

SUMMARY:

1) NO SIGNIFICANT CROP INJURY (STUNTING OR CHLOROSIS) WAS OBSERVED FROM ANY TREATMENT (<10%).

2) AT 32 DAP, ALL TREATMENTS PROVIDED >90% CONTROL OF ANNUAL GRASS EXCEPT FOR THE FOLLOWING:

LEXAR (PRE) = 81% CONTROL
LEXAR (PRE) FB ROUNDUP (POST) = 84% CONTROL
STEADFAST Q + ATRAZINE (POST) = 78% CONTROL

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

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Location:	PONDER FARM	Investigator:	Eric P. Prostko

GENERAL GRASS POPULATION WAS LOW AT THIS SITE.

3) AT 51 DAP, ALL TREATMENTS PROVIDED 99% CONTROL OF PALMER AMARANTH.

4) ALL HERBICIDE TREATED PLOTS HAD HIGHER YIELDS THAN THE NTC. HOWEVER, THERE WERE NO DIFFERENCES IN CORN YIELD BETWEEN HERBICIDE TREATMENTS.

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: HENRY MCCLEAN **Title:** _____
Affiliation: _____ **Postal Code:** _____

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

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective:

Conclusions:

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** GRASS T. MILLET + CRABGRASS

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 31P42 **Planting Date:** Mar-26-12
Planting Method: MONOSEM **Rate:** 25000 SEED/A **Depth:** 1.5 IN
Perennial Age: ____ _____ **Row Spacing:** 36 IN **Seed Bed:** _____
Soil Temperature: ____ _ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: _____
_____

Previous:	Crops	Pesticides	Year
1.	PEANUT	2011	____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.97 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** ____ **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-27-12	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	___
2.	Apr-17-12	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	___

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

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Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Mar-26-12	Apr-17-12				
Time of Day:	1:00 PM	8:15 AM				
Application Method:	BROADCAST	BROADCAST				
Application Timing:	PRE	POST				
Applic. Placement:	SOIL	FOLIAR				
Air Temp., Unit:	85 F	63 F				
% Relative Humidity:	42	72				
Wind Velocity, Unit:	2 MPH	1 MPH				
Dew Presence (Y/N):	N	Y				
Water Hardness:	--	--				
Soil Temp., Unit:	74 F	67 F				
Soil Moisture:	ADEQUATE	FAIR				
% Cloud Cover:	0	0				

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage:	AMAPA	1-4"				
Stage Scale:						
Density, Unit:						
Weed 2 Stage:	GRASS	1-3"				
Stage Scale:						
Density, Unit:						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME				
Operating Pressure:	38					
Nozzle Type:	FLAT FAN					
Nozzle Size:	11002DG					
Nozzle Spacing, Unit:	20	IN				
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit:	60	IN				
Boom Height, Unit:	17	IN				
Ground Speed, Unit:	3.5	MPH				
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	WATER					
Spray Volume, Unit:	15	GPA				
Spray pH:						
Propellant:	CO2					
Tank Mix (Y/N):						

Trt No **Treatment Application Comment**

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Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	----- ZEAMA PLANT - STUNTING PERCENT Apr-6-12	AMAPA ----- CONTROL PERCENT Apr-6-12	ANNUAL GRASS CONTROL PERCENT Apr-6-12	----- ZEAMA PLANT - STUNTING PERCENT Apr-17-12	----- ZEAMA PLANT - CHLOROSI PERCENT Apr-17-12	AMAPA ----- CONTROL PERCENT Apr-17-12
	Weed Code								AMAPA	ANNUAL			AMAPA
	Crop Code								-----	GRASS			-----
	Part Rated							ZEAMA			ZEAMA	ZEAMA	
	Rating Data Type							PLANT -			PLANT -	PLANT -	
	Rating Unit							STUNTING	CONTROL	CONTROL	STUNTING	CHLOROSI	CONTROL
	Rating Date							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
								Apr-6-12	Apr-6-12	Apr-6-12	Apr-17-12	Apr-17-12	Apr-17-12
	Crop Stage												
	Crop Stage Scale												
	Weed Stage												
	Weed Density, Unit												
	Footnote Number												
	Trt-Eval Interval							11 DA-A	11 DA-A	11 DA-A	22 DA-A	22 DA-A	22 DA-A
	PRM Data Type												
	# Subsamples, Dec.												
1	NTC							0.0 a	0.0 b	0.0 b	2.5 bc	0.0 a	0.0 b
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	0.0 a	99.0 a	86.0 a	3.8 b	0.0 a	99.0 a
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	0.0 a	99.0 a	90.5 a	8.8 a	0.0 a	99.0 a
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B						
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B						
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	NIS			0.25	% V/V	POST	B						
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B						
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	ATRAZINE	4	L	1.5	QT/A	POST	B						
	NIS			0.25	% V/V	POST	B						
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B						
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	ATRAZINE	4	L	1.5	QT/A	POST	B						
	COC			1.0	% V/V	POST	B						
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	ATRAZINE	4	L	1.5	QT/A	POST	B						
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	ATRAZINE	4	L	1.5	QT/A	POST	B						

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 = Average (2)

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Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
Weed Code								-----	AMAPA	ANNUAL	-----	-----	AMAPA
Crop Code								ZEAMA	-----	GRASS	ZEAMA	ZEAMA	-----
Part Rated								PLANT -			PLANT -	PLANT -	
Rating Data Type								STUNTING	CONTROL	CONTROL	STUNTING	CHLOROSI	CONTROL
Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								Apr-6-12	Apr-6-12	Apr-6-12	Apr-17-12	Apr-17-12	Apr-17-12
Crop Stage													
Crop Stage Scale													
Weed Stage													
Weed Density, Unit													
Footnote Number													
Trt-Eval Interval								11 DA-A	11 DA-A	11 DA-A	22 DA-A	22 DA-A	22 DA-A
PRM Data Type													
# Subsamples, Dec.													
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 a	0.0 b
	ATRAZINE	4	L	1.5	QT/A	POST	B						
	COC			1.0	% V/V	POST	B						
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B						
LSD (P=.10)								0.00	0.00	7.50	2.86	0.00	0.00
Standard Deviation								0.00	0.00	6.23	2.38	0.00	0.00
CV								0.0	0.0	35.29	158.44	0.0	0.0
Grand Mean								0.0	19.8	17.65	1.5	0.0	19.8
Bartlett's X2								0.0	0.0	0.617	1.448	0.0	0.0
P(Bartlett's X2)								.	.	0.432	0.485	.	.
Replicate F								0.000	0.000	1.390	0.590	0.000	0.000
Replicate Prob(F)								1.0000	1.0000	0.2673	0.6268	1.0000	1.0000
Treatment F								0.000	0.000	142.893	5.852	0.000	0.000
Treatment Prob(F)								1.0000	1.0000	0.0001	0.0002	1.0000	1.0000

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Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ANNUAL GRASS CONTROL PERCENT Apr-17-12	----- ZEAMA PLANT - STUNTING PERCENT Apr-27-12	----- ZEAMA PLANT - CHLORSIS PERCENT Apr-27-12	AMAPA ----- CONTROL PERCENT Apr-27-12	ANNUAL GRASS CONTROL PERCENT Apr-27-12	AMAPA ----- CONTROL PERCENT May-16-12
	Weed Code							ANNUAL GRASS	----- ZEAMA	----- ZEAMA	AMAPA -----	ANNUAL GRASS	AMAPA -----
	Crop Code								PLANT -	PLANT -			
	Part Rated												
	Rating Data Type							CONTROL	STUNTING	CHLORSIS	CONTROL	CONTROL	CONTROL
	Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date							Apr-17-12	Apr-27-12	Apr-27-12	Apr-27-12	Apr-27-12	May-16-12
	Crop Stage												
	Crop Stage Scale												
	Weed Stage												
	Weed Density, Unit												
	Footnote Number												
	Trt-Eval Interval							22 DA-A	32 DA-A	32 DA-A	32 DA-A	32 DA-A	51 DA-A
	PRM Data Type												
	# Subsamples, Dec.												
1	NTC							0.0 b	0.0 c	0.0 b	0.0 b	0.0 c	0.0 b
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	91.0 a	0.0 c	2.5 b	99.0 a	81.3 b	99.0 a
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	91.0 a	7.5 b	0.0 b	99.0 a	93.8 a	99.0 a
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B						
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	0.0 b	1.3 bc	0.0 b	99.0 a	83.8 b	99.0 a
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B						
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	0.0 b	2.5 bc	0.0 b	99.0 a	96.0 a	99.0 a
	NIS			0.25	% V/V	POST	B						
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B						
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	0.0 b	0.0 c	0.0 b	99.0 a	93.8 a	99.0 a
	ATRAZINE	4	L	1.5	QT/A	POST	B						
	NIS			0.25	% V/V	POST	B						
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B						
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	0.0 b	2.5 bc	0.0 b	99.0 a	77.5 b	99.0 a
	ATRAZINE	4	L	1.5	QT/A	POST	B						
	COC			1.0	% V/V	POST	B						
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	0.0 b	3.8 bc	0.0 b	99.0 a	96.0 a	99.0 a
	ATRAZINE	4	L	1.5	QT/A	POST	B						
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	0.0 b	5.0 bc	0.0 b	99.0 a	95.0 a	99.0 a
	ATRAZINE	4	L	1.5	QT/A	POST	B						

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ANNUAL GRASS CONTROL PERCENT Apr-17-12	----- ZEAMA PLANT - STUNTING PERCENT Apr-27-12	----- ZEAMA PLANT - CHLORSIS PERCENT Apr-27-12	AMAPA ----- CONTROL PERCENT Apr-27-12	ANNUAL GRASS CONTROL PERCENT Apr-27-12	AMAPA ----- CONTROL PERCENT May-16-12
	Weed Code							ANNUAL GRASS	-----	-----	AMAPA -----	ANNUAL GRASS	AMAPA -----
	Crop Code								ZEAMA	ZEAMA			
	Part Rated								PLANT -	PLANT -			
	Rating Data Type							CONTROL	STUNTING	CHLORSIS	CONTROL	CONTROL	CONTROL
	Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date							Apr-17-12	Apr-27-12	Apr-27-12	Apr-27-12	Apr-27-12	May-16-12
	Crop Stage												
	Crop Stage Scale												
	Weed Stage												
	Weed Density, Unit												
	Footnote Number												
	Trt-Eval Interval							22 DA-A	32 DA-A	32 DA-A	32 DA-A	32 DA-A	51 DA-A
	PRM Data Type												
	# Subsamples, Dec.												
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	0.0 b	17.5 a	7.5 a	99.0 a	95.0 a	99.0 a
	ATRAZINE	4	L	1.5	QT/A	POST	B						
	COC			1.0	% V/V	POST	B						
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B						
	LSD (P=.10)							3.34	5.64	2.64	0.00	8.09	0.00
	Standard Deviation							2.78	4.68	2.19	0.00	6.71	0.00
	CV							15.26	117.11	219.43	0.0	8.27	0.0
	Grand Mean							18.2	4.0	1.0	89.1	81.2	89.1
	Bartlett's X2							0.117	3.51	0.0	0.0	24.315	0.0
	P(Bartlett's X2)							0.733	0.743	.	.	0.001*	.
	Replicate F							1.980	1.443	1.385	0.000	3.006	0.000
	Replicate Prob(F)							0.1408	0.2522	0.2688	1.0000	0.0477	1.0000
	Treatment F							763.666	5.177	4.846	0.000	76.369	0.000
	Treatment Prob(F)							0.0001	0.0004	0.0007	1.0000	0.0001	1.0000

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
	Weed Code							-----	-----
	Crop Code							ZEAMA	ZEAMA
	Part Rated							YIELD -	YIELD -
	Rating Data Type							YIELD	YIELD
	Rating Unit							LBS/PLOT	BU
	Rating Date							Aug-27-12	Aug-27-12
	Crop Stage								
	Crop Stage Scale								
	Weed Stage								
	Weed Density, Unit								
	Footnote Number								
	Trt-Eval Interval							154 DA-A	154 DA-A
	PRM Data Type								TY1
	# Subsamples, Dec.							- 1	- 0
1	NTC							27.9 b	142 b
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	40.8 a	208 a
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	42.0 a	214 a
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B		
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	42.8 a	218 a
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B		
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	44.1 a	225 a
	NIS			0.25	% V/V	POST	B		
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B		
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	42.8 a	218 a
	ATRAZINE	4	L	1.5	QT/A	POST	B		
	NIS			0.25	% V/V	POST	B		
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B		
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	43.7 a	223 a
	ATRAZINE	4	L	1.5	QT/A	POST	B		
	COC			1.0	% V/V	POST	B		
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	42.0 a	214 a
	ATRAZINE	4	L	1.5	QT/A	POST	B		
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	45.2 a	230 a
	ATRAZINE	4	L	1.5	QT/A	POST	B		

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Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
	Weed Code							-----	-----
	Crop Code							ZEAMA	ZEAMA
	Part Rated							YIELD -	YIELD -
	Rating Data Type							YIELD	YIELD
	Rating Unit							LBS/PLOT	BU
	Rating Date							Aug-27-12	Aug-27-12
	Crop Stage								
	Crop Stage Scale								
	Weed Stage								
	Weed Density, Unit								
	Footnote Number								
	Trt-Eval Interval							154 DA-A	154 DA-A
	PRM Data Type								TY1
	# Subsamples, Dec.							- 1	- 0
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	42.2 a	215 a
	ATRAZINE	4	L	1.5	QT/A	POST	B		
	COC			1.0	% V/V	POST	B		
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B		
	LSD (P=.10)							4.77	24.3
	Standard Deviation							3.96	20.2
	CV							9.58	9.58
	Grand Mean							41.34	210.55
	Bartlett's X2							7.219	7.219
	P(Bartlett's X2)							0.614	0.614
	Replicate F							9.586	9.586
	Replicate Prob(F)							0.0002	0.0002
	Treatment F							6.091	6.091
	Treatment Prob(F)							0.0001	0.0001

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ZEAMA PLANT - STUNTING PERCENT Apr-6-12	AMAPA ----- CONTROL PERCENT Apr-6-12	ANNUAL GRASS CONTROL PERCENT Apr-6-12	----- ZEAMA PLANT - STUNTING PERCENT Apr-17-12	----- ZEAMA PLANT - CHLOROSI PERCENT Apr-17-12
	Weed Code												
	Crop Code								ZEAMA	-----		ZEAMA	ZEAMA
	Part Rated								PLANT -			PLANT -	PLANT -
	Rating Data Type								STUNTING	CONTROL	CONTROL	STUNTING	CHLOROSI
	Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date								Apr-6-12	Apr-6-12	Apr-6-12	Apr-17-12	Apr-17-12
	Crop Stage												
	Crop Stage Scale												
	Weed Stage												
	Weed Density, Unit												
	Footnote Number												
	Trt-Eval Interval								11 DA-A	11 DA-A	11 DA-A	22 DA-A	22 DA-A
	PRM Data Type												
	# Subsamples, Dec.												
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								208	0.0	0.0	0.0	0.0	0.0
								310	0.0	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	10.0	0.0
								Mean =	0.0	0.0	0.0	2.5	0.0
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	102	0.0	99.0	90.0	5.0	0.0
								206	0.0	99.0	99.0	0.0	0.0
								304	0.0	.	75.0	10.0	0.0
								401	0.0	99.0	80.0	0.0	0.0
								Mean =	0.0	99.0	86.0	3.8	0.0
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	103	0.0	99.0	99.0	5.0	0.0
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	207	0.0	99.0	99.0	10.0	0.0
								305	0.0	99.0	99.0	10.0	0.0
								410	0.0	99.0	65.0	10.0	0.0
								Mean =	0.0	99.0	90.5	8.8	0.0
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	104	0.0	0.0	0.0	0.0	0.0
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	209	0.0	0.0	0.0	0.0	0.0
								308	0.0	0.0	0.0	0.0	0.0
								409	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	105	0.0	0.0	0.0	0.0	0.0
	NIS			0.25	% V/V	POST	B	204	0.0	0.0	0.0	0.0	0.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	307	0.0	0.0	0.0	0.0	0.0
								408	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	106	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	202	0.0	0.0	0.0	0.0	0.0
	NIS			0.25	% V/V	POST	B	301	0.0	0.0	0.0	0.0	0.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	406	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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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ZEAMA PLANT - STUNTING PERCENT Apr-6-12	AMAPA ----- CONTROL PERCENT Apr-6-12	ANNUAL GRASS CONTROL PERCENT Apr-6-12	----- ZEAMA PLANT - STUNTING PERCENT Apr-17-12	----- ZEAMA PLANT - CHLOROSI PERCENT Apr-17-12
	Weed Code												
	Crop Code								ZEAMA	-----	GRASS	ZEAMA	ZEAMA
	Part Rated								PLANT -			PLANT -	PLANT -
	Rating Data Type								STUNTING	CONTROL	CONTROL	STUNTING	CHLOROSI
	Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date								Apr-6-12	Apr-6-12	Apr-6-12	Apr-17-12	Apr-17-12
	Crop Stage												
	Crop Stage Scale												
	Weed Stage												
	Weed Density, Unit												
	Footnote Number												
	Trt-Eval Interval								11 DA-A	11 DA-A	11 DA-A	22 DA-A	22 DA-A
	PRM Data Type												
	# Subsamples, Dec.												
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	107	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	205	0.0	0.0	0.0	0.0	0.0
	COC			1.0	% V/V	POST	B	306	0.0	0.0	0.0	0.0	0.0
								405	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	108	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	210	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0
								404	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	109	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	203	0.0	0.0	0.0	0.0	0.0
								302	0.0	0.0	0.0	0.0	0.0
								407	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	110	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	201	0.0	0.0	0.0	0.0	0.0
	COC			1.0	% V/V	POST	B	303	0.0	0.0	0.0	0.0	0.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	403	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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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	AMAPA ----- CONTROL PERCENT Apr-17-12 22 DA-A	ANNUAL GRASS CONTROL PERCENT Apr-17-12 22 DA-A	----- ZEAMA PLANT - STUNTING PERCENT Apr-27-12 32 DA-A	----- ZEAMA PLANT - CHLORSIS PERCENT Apr-27-12 32 DA-A	AMAPA ----- CONTROL PERCENT Apr-27-12 32 DA-A
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								208	0.0	0.0	0.0	0.0	0.0
								310	0.0	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	102	99.0	95.0	0.0	0.0	99.0
								206	99.0	99.0	0.0	0.0	99.0
								304	99.0	85.0	0.0	0.0	99.0
								401	99.0	85.0	0.0	10.0	99.0
								Mean =	99.0	91.0	0.0	2.5	99.0
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	103	99.0	90.0	0.0	0.0	99.0
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	207	99.0	99.0	10.0	0.0	99.0
								305	99.0	85.0	10.0	0.0	99.0
								410	99.0	90.0	10.0	0.0	99.0
								Mean =	99.0	91.0	7.5	0.0	99.0
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	104	0.0	0.0	0.0	0.0	99.0
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	209	0.0	0.0	5.0	0.0	99.0
								308	0.0	0.0	0.0	0.0	99.0
								409	0.0	0.0	0.0	0.0	99.0
								Mean =	0.0	0.0	1.3	0.0	99.0
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	105	0.0	0.0	0.0	0.0	99.0
	NIS			0.25	% V/V	POST	B	204	0.0	0.0	10.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	307	0.0	0.0	0.0	0.0	99.0
								408	0.0	0.0	0.0	0.0	99.0
								Mean =	0.0	0.0	2.5	0.0	99.0
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	106	0.0	0.0	0.0	0.0	99.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	202	0.0	0.0	0.0	0.0	99.0
	NIS			0.25	% V/V	POST	B	301	0.0	0.0	0.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	406	0.0	0.0	0.0	0.0	99.0
								Mean =	0.0	0.0	0.0	0.0	99.0

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	AMAPA ----- CONTROL PERCENT Apr-17-12 22 DA-A	ANNUAL GRASS CONTROL PERCENT Apr-17-12 22 DA-A	----- ZEAMA PLANT - STUNTING PERCENT Apr-27-12 32 DA-A	----- ZEAMA PLANT - CHLORSIS PERCENT Apr-27-12 32 DA-A	AMAPA ----- CONTROL PERCENT Apr-27-12 32 DA-A
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	107	0.0	0.0	10.0	0.0	99.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	205	0.0	0.0	0.0	0.0	99.0
	COC			1.0	% V/V	POST	B	306	0.0	0.0	0.0	0.0	99.0
								405	0.0	0.0	0.0	0.0	99.0
								Mean =	0.0	0.0	2.5	0.0	99.0
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	108	0.0	0.0	0.0	0.0	99.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	210	0.0	0.0	15.0	0.0	99.0
								309	0.0	0.0	0.0	0.0	99.0
								404	0.0	0.0	0.0	0.0	99.0
								Mean =	0.0	0.0	3.8	0.0	99.0
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	109	0.0	0.0	5.0	0.0	99.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	203	0.0	0.0	15.0	0.0	99.0
								302	0.0	0.0	0.0	0.0	99.0
								407	0.0	0.0	0.0	0.0	99.0
								Mean =	0.0	0.0	5.0	0.0	99.0
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	110	0.0	0.0	25.0	10.0	99.0
	ATRAZINE	4	L	1.5	QT/A	POST	B	201	0.0	0.0	10.0	0.0	99.0
	COC			1.0	% V/V	POST	B	303	0.0	0.0	15.0	10.0	99.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	403	0.0	0.0	20.0	10.0	99.0
								Mean =	0.0	0.0	17.5	7.5	99.0

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	ANNUAL GRASS CONTROL PERCENT Apr-27-12	AMAPA ----- CONTROL PERCENT May-16-12	ZEAMA YIELD - YIELD LBS/PLOT Aug-27-12	ZEAMA YIELD - YIELD BU Aug-27-12
	Weed Code								ANNUAL GRASS	AMAPA -----	----- ZEAMA	----- ZEAMA
	Crop Code								GRASS	-----	YIELD -	YIELD -
	Part Rated										YIELD	YIELD
	Rating Data Type								CONTROL	CONTROL	LBS/PLOT	BU
	Rating Unit								PERCENT	PERCENT	Aug-27-12	Aug-27-12
	Rating Date								Apr-27-12	May-16-12		
	Crop Stage											
	Crop Stage Scale											
	Weed Stage											
	Weed Density, Unit											
	Footnote Number											
	Trt-Eval Interval								32 DA-A	51 DA-A	154 DA-A	154 DA-A
	PRM Data Type											TY1
	# Subsamples, Dec.										- 1	- 0
1	NTC							101	0.0	0.0	20.2	103
								208	0.0	0.0	26.4	134
								310	0.0	0.0	25.0	127
								402	0.0	0.0	39.9	203
								Mean =	0.0	0.0	27.9	142
2	LEXAR	3.7	EC	3.0	QT/A	PRE	A	102	95.0	99.0	33.0	168
								206	95.0	99.0	36.4	185
								304	65.0	99.0	49.4	252
								401	70.0	99.0	44.5	227
								Mean =	81.3	99.0	40.8	208
3	LEXAR	3.7	EC	3.0	QT/A	PRE	A	103	95.0	99.0	41.0	209
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	207	95.0	99.0	40.0	204
								305	90.0	99.0	43.5	222
								410	95.0	99.0	43.5	222
								Mean =	93.8	99.0	42.0	214
4	LEXAR	3.7	EC	2.25	QT/A	POST	B	104	95.0	99.0	35.7	182
	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	209	85.0	99.0	46.0	234
								308	85.0	99.0	44.5	227
								409	70.0	99.0	45.0	229
								Mean =	83.8	99.0	42.8	218
5	HALEX GT	4.39	EC	3.6	PT/A	POST	B	105	95.0	99.0	38.0	194
	NIS			0.25	% V/V	POST	B	204	95.0	99.0	42.0	214
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	307	95.0	99.0	49.8	254
								408	99.0	99.0	46.5	237
								Mean =	96.0	99.0	44.1	225
6	HALEX GT	4.39	EC	3.6	PT/A	POST	B	106	95.0	99.0	37.2	189
	ATRAZINE	4	L	1.5	QT/A	POST	B	202	95.0	99.0	39.0	199
	NIS			0.25	% V/V	POST	B	301	95.0	99.0	51.0	260
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	406	90.0	99.0	43.8	223
								Mean =	93.8	99.0	42.8	218

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SYNGENTA CORN WEED CONTROL PROGRAMS VS. OTHER STANDARDS

Trial ID: CN-12-12 Study Dir.: HENRY MCCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	ANNUAL GRASS CONTROL PERCENT Apr-27-12 32 DA-A	AMAPA ----- CONTROL PERCENT May-16-12 51 DA-A	----- ZEAMA YIELD - YIELD LBS/PLOT Aug-27-12 154 DA-A - 1	----- ZEAMA YIELD - YIELD BU Aug-27-12 154 DA-A TY1 - 0
7	STEADFAST Q	37.7	DG	1.5	OZ/A	POST	B	107	95.0	99.0	43.0	219
	ATRAZINE	4	L	1.5	QT/A	POST	B	205	75.0	99.0	40.0	204
	COC			1.0	% V/V	POST	B	306	75.0	99.0	40.8	208
								405	65.0	99.0	51.0	260
								Mean =	77.5	99.0	43.7	223
8	ROUNDUP WM	5.5	SL	22.0	OZ/A	POST	B	108	95.0	99.0	38.0	194
	ATRAZINE	4	L	1.5	QT/A	POST	B	210	99.0	99.0	39.7	202
								309	95.0	99.0	43.0	219
								404	95.0	99.0	47.3	241
								Mean =	96.0	99.0	42.0	214
9	LIBERTY	2.34	SL	29.0	OZ/A	POST	B	109	95.0	99.0	42.5	216
	ATRAZINE	4	L	1.5	QT/A	POST	B	203	95.0	99.0	43.6	222
								302	95.0	99.0	43.5	222
								407	95.0	99.0	51.0	260
								Mean =	95.0	99.0	45.2	230
10	CAPRENO	3.45	SC	3.0	OZ/A	POST	B	110	95.0	99.0	44.5	227
	ATRAZINE	4	L	1.5	QT/A	POST	B	201	95.0	99.0	36.2	184
	COC			1.0	% V/V	POST	B	303	95.0	99.0	44.0	224
	AMS XTRA	3.4	SL	2.5	% V/V	POST	B	403	95.0	99.0	44.0	224
								Mean =	95.0	99.0	42.2	215