

2011 PRE Design of Anthem Atrazine PREMIX F9316 versus Standards in Corn

Trial ID: 11 FMC CRN Anthem PRE 6A Protocol ID: 11 FMC CRN Anthem PRE 6A  
Location: Concord, NE  
Project ID: QNA891 ZEAMX 6A3 Investigator: Stevan Knezevic

General Trial Information

Investigator: Stevan Knezevic

Trial Location

City: Concord  
State/Prov.: NE  
Postal Code: 68728  
Country: USA

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1: ZEAMX Zea mays Corn  
Variety: Pioneer 35F40 Description: RRLL  
BBCH Scale: BCOR Planting Date: 06-05-2011  
Planting Method: SEEDED seeded Rate, Unit: 25677 s/a  
Depth, Unit: 2 in  
Row Spacing, Unit: 30 in  
Harvest Date: 10-21-2011 Harvest Equipment: Almaco SP40  
Harvested Width, Unit: 5 ft Harvested Length, Unit: 22.5 ft  
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis  
Common Name: Green foxtail  
Pest 2 Type: W Code: AMATU Amaranthus tuberculatus  
Common Name: Tall waterhemp  
Pest 3 Type: W Code: ABUTH Abutilon theophrasti  
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 6.667 FT Site Type: FIELD field  
Plot Length, Unit: 25 FT  
Plot Area, Unit: 166.6667 FT2 Tillage Type: NOTILL no-till  
Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	05-18-2011	glyphosate (Durango)	5.4	lb/gal	SL	44	oz/A	yes
2.	06-05-2011	Roundup PowerMAX	5.5	lb/gal	SL	29	oz/A	yes
3.	06-05-2011	AMS	21.5	%	SG	2.5	lb/A	yes

Comment: On 5-18-11 glyphosate mixed in 20 gal/A 32% Nitrogen

Soil Description

% Sand: 10 % OM: 2.8 Texture: SICL silty clay loam  
% Silt: 58 pH: 6.3  
% Clay: 32 CEC: 19.7 Fert. Level: E excellent  
Analyzed By:  
Midwest Labs

Application Description

	A
Application Date:	06-08-2011
Time of Day:	5:45 pm
Application Method:	spray
Application Timing:	PRE
Application Placement:	surface
Applied By:	js
Air Temperature, Unit:	76 F
% Relative Humidity:	41
Wind Velocity, Unit:	4 mph
Wind Direction:	NE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	64 F
Soil Moisture:	SLIWET
% Cloud Cover:	5

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SETVI W
Pest 2 Code, Type, Scale:	AMATU W
Pest 3 Code, Type, Scale:	ABUTH W

Application Equipment

	A
Appl. Equipment:	4 nozzle PRE
Operating Pressure, Unit:	20 PSI
Nozzle Type:	Turbo Tee
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 in
Boom Length, Unit:	6.67 ft
Boom Height, Unit:	15 in
Ground Speed, Unit:	2.7 mph
Carrier:	WATER
Spray Volume, Unit:	15 gal/ac
Mix Size, Unit:	.9 liters
Propellant:	COMCO2

Northeast Research & Extension Center

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Description	Corn, field	Corn, field	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf		
Rating Date	07-04-2011	07-26-2011	07-04-2011	07-26-2011	07-04-2011	07-26-2011		
Rating Type	Injury	Injury	Control	Control	Control	Control		
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent		
Days After First/Last Applic.	26 26	48 48	26 26	48 48	26 26	48 48		
Trt-Eval Interval	26 DA-A	48 DA-A	26 DA-A	48 DA-A	26 DA-A	48 DA-A		
Plant-Eval Interval	29 DP-1	51 DP-1	29 DP-1	51 DP-1	29 DP-1	51 DP-1		
Trt Treatment No. Name	Form Conc	Form Unit	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code
1 Anthem AAtrax	2.15 lb/gal SE	4 lb/gal SC	SE	6 oz/a	113 g a/ha	0.77 lb ai/a	PRE A	A
				24.6 oz/a			PRE A	
2 Anthem AAtrax	2.15 lb/gal SE	4 lb/gal SC	SE	7.5 oz/a	141 g a/ha	0.96 lb ai/a	PRE A	A
				30.7 oz/a			PRE A	
3 Anthem AAtrax	2.15 lb/gal SE	4 lb/gal SC	SE	9 oz/a	170 g a/ha	1.16 lb ai/a	PRE A	A
				37 oz/a			PRE A	
4 Anthem	2.15 lb/gal SE		SE	7 oz/a	132 g a/ha		PRE A	A
5 Anthem	2.15 lb/gal SE		SE	9 oz/a	170 g a/ha		PRE A	A
6 F9316-2	4.5 lb/gal SE		SE	18.63 oz/a	0.655 lb ai/a		PRE A	A
7 F9316-2	4.5 lb/gal SE		SE	24.84 oz/a	0.87 lb ai/a		PRE A	A
8 F9316-2	4.5 lb/gal SE		SE	31.05 oz/a	1.09 lb ai/a		PRE A	A
9 F9316-2	4.5 lb/gal SE		SE	37.26 oz/a	1.31 lb ai/a		PRE A	A
10 Bicep Lite II Magnum	6 lb/gal F		F	1.5 qt/a	2.25 lb ai/a		PRE A	A
11 Harness XTRA	6 lb/gal SC		SC	2.3 qt/a	3.45 lb ai/a		PRE A	A
12 Nontreated Check								
LSD (P=.05)	0.00	0.00		9.62	14.50	13.24		15.19
Standard Deviation	0.00	0.00		6.66	10.04	9.17		10.47
CV	0.0	0.0		7.85	13.22	11.27		13.63
Grand Mean	0.0	0.0		84.83	75.96	81.33		76.81
Replicate F	0.000	0.000		6.059	2.750	2.349		2.541
Replicate Prob(F)	1.0000	1.0000		0.0021	0.0583	0.0904		0.0774
Treatment F	0.000	0.000		66.726	26.740	32.046		22.746
Treatment Prob(F)	1.0000	1.0000		0.0001	0.0001	0.0001		0.0001

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Description								Waterhemp	Waterhemp	Corn, field	Corn, field	Corn, field		
Rating Date								07-04-2011	07-26-2011	10-21-2011	10-21-2011	10-21-2011		
Rating Type								Control	Control	Moisture	Test WT	Yield@15.5		
Rating Unit								Percent	Percent	%	lb/bu	bu/A		
Days After First/Last Applic.								26 26	48 48	135 135	135 135	135 135		
Trt-Eval Interval								26 DA-A	48 DA-A	135 DA-A	135 DA-A	135 DA-A		
Plant-Eval Interval								29 DP-1	51 DP-1	138 DP-1	138 DP-1	138 DP-1		
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	Anthem AAtrex	2.15 lb/gal	SE	4 lb/gal	SE SC	6 oz/a	113 g a/ha	PRE	A	87.3 ab	75.0 d	14.660 a	54.958 a	165.023 a
						24.6 oz/a	0.77 lb ai/a	PRE	A					
2	Anthem AAtrex	2.15 lb/gal	SE	4 lb/gal	SE SC	7.5 oz/a	141 g a/ha	PRE	A	95.5 ab	92.3 ab	14.360 a	55.145 a	162.428 a
						30.7 oz/a	0.96 lb ai/a	PRE	A					
3	Anthem AAtrex	2.15 lb/gal	SE	4 lb/gal	SE SC	9 oz/a	170 g a/ha	PRE	A	99.0 a	94.5 ab	15.158 a	54.330 a	157.088 a
						37 oz/a	1.16 lb ai/a	PRE	A					
4	Anthem	2.15 lb/gal	SE			7 oz/a	132 g a/ha	PRE	A	94.3 ab	78.8 cd	14.605 a	54.845 a	163.108 a
5	Anthem	2.15 lb/gal	SE			9 oz/a	170 g a/ha	PRE	A	91.0 ab	88.5 abc	14.958 a	54.358 a	163.700 a
6	F9316-2	4.5 lb/gal	SE			18.63 oz/a	0.655 lb ai/a	PRE	A	92.0 ab	88.5 abc	14.865 a	54.383 a	162.173 a
7	F9316-2	4.5 lb/gal	SE			24.84 oz/a	0.87 lb ai/a	PRE	A	86.0 b	82.5 bcd	14.528 a	54.848 a	157.198 a
8	F9316-2	4.5 lb/gal	SE			31.05 oz/a	1.09 lb ai/a	PRE	A	96.8 ab	95.8 a	15.035 a	53.463 a	157.385 a
9	F9316-2	4.5 lb/gal	SE			37.26 oz/a	1.31 lb ai/a	PRE	A	96.8 ab	97.0 a	14.510 a	55.308 a	161.935 a
10	Bicep Lite II Magnum	6 lb/gal	F			1.5 qt/a	2.25 lb ai/a	PRE	A	99.0 a	86.3 a-d	14.955 a	54.870 a	162.558 a
11	Harness XTRA	6 lb/gal	SC			2.3 qt/a	3.45 lb ai/a	PRE	A	99.0 a	98.0 a	15.033 a	54.195 a	160.103 a
12	Nontreated Check									0.0 c	0.0 e	14.593 a	54.438 a	149.263 a
LSD (P=.05)								10.23	10.95	0.8017	1.4468	9.6304		
Standard Deviation								7.09	7.58	0.5552	1.0020	6.6696		
CV								8.21	9.32	3.76	1.84	4.16		
Grand Mean								86.38	81.42	14.77	54.59	160.16		
Replicate F								1.476	2.216	0.672	2.261	1.500		
Replicate Prob(F)								0.2390	0.1047	0.5752	0.0996	0.2327		
Treatment F								60.473	49.388	0.864	1.012	1.697		
Treatment Prob(F)								0.0001	0.0001	0.5815	0.4575	0.1177		

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