

2011 Zidua PRE Corn Treatments

Trial ID: 11 BAS CRN Zidua PRE Protocol ID: 11 BAS CRN Zidua PRE
 Location: Concord, NE
 Project ID: 05-11-MW Investigator: Stevan Knezevic

General Trial Information

Investigator: Stevan Knezevic

Trial Location

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

Conclusions:
 All products when applied at label rates resulted in excellent control. There were no major differences between these treatments.

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: Pioneer 35F40 Description: RR LL
 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: AMASS Amaranthus sp.
 Common Name: Amaranth
 Description: waterhemp and redroot pigweed

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 Power MAX	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:	5:35 pm
Application Method:	spray
Application Timing:	PRE
Application Placement:	surface
Applied By:	js
Air Temperature, Unit:	75 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:	adequate
% 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:	AMASS 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

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Description								Corn, field	Corn, field	Gift	Gift	Gift	AMASS
Rating Date								07-04-2011	07-30-2011	07-04-2011	07-30-2011	08-29-2011	07-04-2011
Rating Type								Injury	Injury	Control	Control	Control	Control
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.								26 26	52 52	26 26	52 52	82 82	26 26
Trt-Eval Interval								26 DA-A	52 DA-A	26 DA-A	52 DA-A	82 DA-A	26 DA-A
Plant-Eval Interval								29 DP-1	55 DP-1	29 DP-1	55 DP-1	85 DP-1	29 DP-1
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Code				
1	Verdict	5.57 lb/gal	EC	15 oz/a	730 g a/ha			PRE	A	0.0 a	0.0 a	99.0 a	99.0 a
2	Verdict Zidua	5.57 lb/gal 85 %	EC WG	15 oz/a 1 oz/a	730 g a/ha 59.5 g a/ha			PRE PRE	A A	0.0 a	0.0 a	99.0 a	99.0 a
3	Guardsman MAX Sharpen	5 lb/gal 2.85 lb/gal	SC SC	4 pt/a 3 oz/a	2800 g a/ha 75 g a/ha			PRE PRE	A A	0.0 a	0.0 a	99.0 a	99.0 a
4	Verdict Outlook	5.57 lb/gal 6 lb/gal	EC SL	15 oz/a 5.6 oz/a	730 g a/ha 294 g a/ha			PRE PRE	A A	0.0 a	0.0 a	99.0 a	99.0 a
5	Lexar	3.7 lb/gal	SC	3 qt/a	3100 g a/ha			PRE	A	0.0 a	0.0 a	99.0 a	99.0 a
LSD (P=.05)								0.00	0.00	0.00	0.00	0.00	0.00
Standard Deviation								0.00	0.00	0.00	0.00	0.00	0.00
CV								0.0	0.0	0.0	0.0	0.0	0.0
Grand Mean								0.0	0.0	99.0	99.0	99.0	99.0
Replicate F								0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F								0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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	AMASS 07-30-2011 Control		AMASS 08-29-2011 Control		Corn, field 10-21-2011 Moisture		Corn, field 10-21-2011 Test Weight		Corn, field 10-21-2011 Yield@15.5%						
Rating Date	Percent		Percent		%		lb/bu		bu/A						
Rating Type	52	52	82	82	135	135	135	135	135	135					
Rating Unit	52 DA-A		82 DA-A		135 DA-A		135 DA-A		135 DA-A						
Days After First/Last Applic.	55 DP-1		85 DP-1		138 DP-1		138 DP-1		138 DP-1						
Trt-Eval Interval															
Plant-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Other Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	Verdict	5.57 lb/gal	EC		15 oz/a	730 g a/ha			PRE	A	99.0 a	99.0 a	15.815 a	56.693 a	163.823 a
2	Verdict Zidua	5.57 lb/gal 85 %	EC WG		15 oz/a 1 oz/a	730 g a/ha 59.5 g a/ha			PRE PRE	A A	99.0 a	99.0 a	17.128 a	57.183 a	163.993 a
3	Guardsman MAX Sharpen	5 lb/gal 2.85 lb/gal	SC SC		4 pt/a 3 oz/a	2800 g a/ha 75 g a/ha			PRE PRE	A A	99.0 a	99.0 a	16.988 a	57.155 a	164.185 a
4	Verdict Outlook	5.57 lb/gal 6 lb/gal	EC SL		15 oz/a 5.6 oz/a	730 g a/ha 294 g a/ha			PRE PRE	A A	99.0 a	99.0 a	16.910 a	57.290 a	166.025 a
5	Lexar	3.7 lb/gal	SC		3 qt/a	3100 g a/ha			PRE	A	99.0 a	99.0 a	17.110 a	56.993 a	169.630 a
LSD (P=.05)					0.00	0.00					0.00	0.00	3.1124	1.1610	7.8978
Standard Deviation					0.00	0.00					0.00	0.00	2.0200	0.7535	5.1258
CV					0.0	0.0					0.0	0.0	12.03	1.32	3.1
Grand Mean					99.0	99.0					99.0	99.0	16.79	57.06	165.53
Replicate F					0.000	0.000					0.000	0.000	0.233	0.564	20.958
Replicate Prob(F)					1.0000	1.0000					1.0000	1.0000	0.8720	0.6490	0.0001
Treatment F					0.000	0.000					0.000	0.000	0.299	0.381	0.919
Treatment Prob(F)					1.0000	1.0000					1.0000	1.0000	0.8729	0.8178	0.4846

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.