

2011 Value of Post Residual herbicide treatments

Trial ID: 11 SYN CRN Post Residual Protocol ID: 11 SYN CRN Post Residual
 Location: Concord, NE
 Project ID: 2011-TSR-004 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: 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

Establishment Method/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 L 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:	07-06-2011
Time of Day:	10:00 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	79 F
% Relative Humidity:	71
Wind Velocity, Unit:	1 mph
Wind Direction:	SE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	76 F
Soil Moisture:	adequate
% Cloud Cover:	30

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	V6 50
Stage Maximum, Percent:	V7 50
Height, Unit:	14 in
Height Minimum, Maximum:	12 16

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SETVI W
Height, Unit:	8 in
Height Minimum, Maximum:	6 10
Density, Unit:	5 m2
Pest 2 Code, Type, Scale:	AMASS W
Height, Unit:	6 in
Height Minimum, Maximum:	4 8
Density, Unit:	2 m2

Application Equipment

	A
Appl. Equipment:	Backpack
Operating Pressure, Unit:	30 PSI
Nozzle Type:	AIXR
Nozzle Size:	110015
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		Green foxtail		Green foxtail		AMASS		AMASS	
Rating Date	07-30-2011		08-29-2011		07-30-2011		08-29-2011		07-30-2011		08-29-2011	
Rating Type	Injury		Injury		Control		Control		Control		Control	
Rating Unit	Percent		Percent		Percent		Percent		Percent		Percent	
Days After First/Last Applic.	24 24		54 54		24 24		54 54		24 24		54 54	
Trt-Eval Interval	24 DA-A		54 DA-A		24 DA-A		54 DA-A		24 DA-A		54 DA-A	
Plant-Eval Interval	55 DP-1		85 DP-1		55 DP-1		85 DP-1		55 DP-1		85 DP-1	
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Growth Stage	Appl Code				
1	Halex GT	4.84	lb/gal	SC	3.6	pt/a	POST	A	0.0	a	0.0	a
	NIS	100	%	L	0.25	% v/v	POST	A				
	AMS	21.5	%	SG	8.5	lb/100 gal	POST	A				
2	Halex GT	4.84	lb/gal	SC	3.6	pt/a	POST	A	0.0	a	0.0	a
	AAtrex	4	lb/gal	L	1	pt/a	POST	A				
	NIS	100	%	L	0.25	% v/v	POST	A				
	AMS	21.5	%	SG	8.5	lb/100 gal	POST	A				
3	Surestart	4.16	lb/gal	SE	1	pt/a	POST	A	0.0	a	0.0	a
	Durango	5.4	lb/gal	SL	22	oz/a	POST	A				
	AMS	21.5	%	SG	8.5	lb/100 gal	POST	A				
4	Capreno	44.85	ga/l	SC	3	oz/a	POST	A	0.0	a	0.0	a
	Roundup PowerMAX	5.5	lb/gal	SL	22	oz/a	POST	A				
	AMS	21.5	%	SG	8.5	lb/100 gal	POST	A				
5	Realm Q 4 oz								0.0	a	0.0	a
	rimsulfuron	25	%	SG	1.2	oz/a	POST	A				
	isoxadifen	50	%	WG	0.3	oz/a	POST	A				
	mesotrione	50	%	WG	2.5	oz/a	POST	A				
	COC	100	%	L	1	% v/v	POST	A				
	AMS	21.5	%	SG	8.5	lb/100 gal	POST	A				
6	Callisto Xtra	3.7	lb/gal	SC	20	oz/a	POST	A	0.0	a	0.0	a
	Touchdown Total	4.17	lb/ae/gal	SL	24	oz/a	POST	A				
	AMS	21.5	%	SG	8.5	lb/100 gal	POST	A				
LSD (P=.05)									0.00		0.00	
Standard Deviation									0.00		0.00	
CV									0.0		0.0	
Grand Mean									0.0		0.0	
Replicate F									0.000		0.000	
Replicate Prob(F)									1.0000		1.0000	
Treatment F									0.000		0.000	
Treatment Prob(F)									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						Corn, field	Corn, field	Corn, field
Rating Date						10-21-2011	10-21-2011	10-21-2011
Rating Type						Moisture	Test weight	Yield@15.5%
Rating Unit						%	lb/bu	bu/A
Days After First/Last Applic.						107 107	107 107	107 107
Trt-Eval Interval						107 DA-A	107 DA-A	107 DA-A
Plant-Eval Interval						138 DP-1	138 DP-1	138 DP-1
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Unit	Growth Stage	Appl Code	
1	Halex GT	4.84	lb/gal	SC	3.6 pt/a	POST	A	14.233 a
	NIS	100	%	L	0.25 % v/v	POST	A	55.718 a
	AMS	21.5	%	SG	8.5 lb/100 gal	POST	A	162.413 a
2	Halex GT	4.84	lb/gal	SC	3.6 pt/a	POST	A	14.233 a
	AAtrex	4	lb/gal	L	1 pt/a	POST	A	55.688 a
	NIS	100	%	L	0.25 % v/v	POST	A	158.708 a
	AMS	21.5	%	SG	8.5 lb/100 gal	POST	A	
3	Surestart	4.16	lb/gal	SE	1 pt/a	POST	A	14.110 a
	Durango	5.4	lb/gal	SL	22 oz/a	POST	A	55.663 a
	AMS	21.5	%	SG	8.5 lb/100 gal	POST	A	158.110 a
4	Capreno	44.85	ga/l	SC	3 oz/a	POST	A	13.640 a
	Roundup PowerMAX	5.5	lb/gal	SL	22 oz/a	POST	A	56.638 a
	AMS	21.5	%	SG	8.5 lb/100 gal	POST	A	151.958 a
5	Realm Q 4 oz							14.268 a
	rimsulfuron	25	%	SG	1.2 oz/a	POST	A	55.553 a
	isoxadifen	50	%	WG	0.3 oz/a	POST	A	155.240 a
	mesotrione	50	%	WG	2.5 oz/a	POST	A	
	COC	100	%	L	1 % v/v	POST	A	
	AMS	21.5	%	SG	8.5 lb/100 gal	POST	A	
6	Callisto Xtra	3.7	lb/gal	SC	20 oz/a	POST	A	14.165 a
	Touchdown Total	4.17	lbae/gal	SL	24 oz/a	POST	A	55.660 a
	AMS	21.5	%	SG	8.5 lb/100 gal	POST	A	158.238 a
LSD (P=.05)						0.8048	1.2606	9.3644
Standard Deviation						0.5341	0.8366	6.2146
CV						3.79	1.5	3.95
Grand Mean						14.11	55.82	157.44
Replicate F						0.842	1.793	3.517
Replicate Prob(F)						0.4919	0.1917	0.0413
Treatment F						0.782	0.938	1.291
Treatment Prob(F)						0.5782	0.4847	0.3192

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