

2011 Surestart Corn Programs

Trial ID: 11 DOW CRN Surestart PRE Protocol ID: 11 DOW CRN Surestart PRE
 Location: Concord, NE
 Project ID: 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 Description: 35F40 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

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

Application Description

	A	B	C
Application Date:	06-09-2011	07-06-2011	07-06-2011
Time of Day:	10:40 am	11:00 am	11:00 am
Application Method:	spray	spray	spray
Application Timing:	PRE	POST	LPOST
Application Placement:	surface	foliar	foliar
Applied By:	js		
Air Temperature, Unit:	60 F	85 F	85 F
% Relative Humidity:	71	50	50
Wind Velocity, Unit:	7 mph	1 mph	1 mph
Wind Direction:	NE	SE	SE
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	64 F	84 F	84 F
Soil Moisture:	SLIWET	GOOD	GOOD
% Cloud Cover:	90	30	30

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR

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Description	Greenfoxtail	Greenfoxtail	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Corn, field
Rating Date	07-04-2011	08-24-2011	07-04-2011	08-24-2011	07-04-2011	08-24-2011	10-21-2011
Rating Type	Control	Control	Control	Control	Control	Control	Moisture
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	%
Days After First/Last Applic.	25 25	76 49	25 25	76 49	25 25	76 49	134 107
Trt-Eval Interval	25 DA-A	49 DA-C	25 DA-A	49 DA-C	25 DA-A	49 DA-C	
Plant-Eval Interval	29 DP-1	80 DP-1	29 DP-1	80 DP-1	29 DP-1	80 DP-1	138 DP-1
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Growth Stage	Appl Code
1	Surestart	4.16 lb/gal	SE		1.75 pt/a	PRE	A
	Durango DMA	4 lb/gal	SL		24 oz/a	POST 4-6" w C	
	AMS	21.5 %	SG		2 % v/v	POST 4-6" w C	
							78.8 a
2	Surestart	4.16 lb/gal	SE		2 pt/a	PRE	A
	AATREX	90 %	WG		1.11 lb/a	PRE	A
	Durango DMA	4 lb/gal	SL		24 oz/a	POST 4-6" w C	
	AMS	21.5 %	SG		2 % v/v	POST 4-6" w C	
							80.0 a
3	Surestart	4.16 lb/gal	SE		1.75 pt/a	POST 4-6" w B	
	Durango DMA	4 lb/gal	SL		24 oz/a	POST 4-6" w B	
	AMS	21.5 %	SG		2 % v/v	POST 4-6" w B	
							99.0 a
LSD (P=.05)		15.06		2.00		3.98	1.91
Standard Deviation		6.69		1.15		1.77	1.11
CV		8.43		1.17		3.33	1.12
Grand Mean		79.38		98.67		53.13	98.5
Replicate F		7.698		1.000		206.333	1.000
Replicate Prob(F)		0.0639		0.4547		0.0006	0.4547
Treatment F		0.070		1.000		1.000	2.455
Treatment Prob(F)		0.8088		0.4219		0.3910	0.1664
							0.000
							0.000
							1.000
							0.000
							1.000
							0.4180

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
Rating Date								10-21-2011	10-21-2011
Rating Type								Test Weight	Yield@15.5%
Rating Unit								lb/bu	bu/A
Days After First/Last Applic.								134 107	134 107
Trt-Eval Interval									
Plant-Eval Interval								138 DP-1	138 DP-1
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Growth Stage	Appl Code	
1	Surestart	4.16	lb/gal	SE	1.75	pt/a	PRE	A	55.578 a
	Durango DMA	4	lb/gal	SL	24	oz/a	POST 4-6" w	C	154.565 a
	AMS	21.5	%	SG	2	% v/v	POST 4-6" w	C	
2	Surestart	4.16	lb/gal	SE	2	pt/a	PRE	A	55.415 a
	AATREX	90	%	WG	1.11	lb/a	PRE	A	162.108 a
	Durango DMA	4	lb/gal	SL	24	oz/a	POST 4-6" w	C	
	AMS	21.5	%	SG	2	% v/v	POST 4-6" w	C	
3	Surestart	4.16	lb/gal	SE	1.75	pt/a	POST 4-6" w	B	54.845 a
	Durango DMA	4	lb/gal	SL	24	oz/a	POST 4-6" w	B	149.303 a
	AMS	21.5	%	SG	2	% v/v	POST 4-6" w	B	
LSD (P=.05)								1.0155	10.2014
Standard Deviation								0.5869	5.8957
CV								1.06	3.8
Grand Mean								55.28	155.33
Replicate F								0.932	1.070
Replicate Prob(F)								0.4810	0.4295
Treatment F								1.712	4.766
Treatment Prob(F)								0.2581	0.0576

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