

Northeast Research & Extension Center

2009 Evaluate control options for RR corn in simulated replant situations with Gramoxone Inteon + atrazine and metribuzin.

Trial ID: 09 CRRL-2 Gramoxone	Protocol ID: 09 CRRL-2 Gramoxone
Location: Concord, NE	Study Director:
Project ID: HPQ001A4-2009US	Investigator: Stevan Knezevic
	Sponsor Contact:

General Trial Information

Investigator: Stevan Knezevic

Trial Status: F one-year/final

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: 04-24-09
Planting Method: SEEDED	seeded	Rate, Unit: 16335 s/a
Depth, Unit: 1.75 in		
Row Spacing, Unit: 30	in	

Crop 2: ZEAMX	Zea mays	Corn
Variety: Dekalb DKC 61-73		Description: RR
BBCH Scale: BCOR		Planting Date: 04-24-09
Planting Method: SEEDED	seeded	Rate, Unit: 16335 s/a
Depth, Unit: 1.75 in		

Pest Description

Pest 1 Type: W Code: ZEAMX Zea mays
 Common Name: Corn
 Description: simulated poor stand

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field
 Plot Length, Unit: 30 FT
 Plot Area, Unit: 300 FT² Tillage Type: NOTILL no-till
 Replications: 3 Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

% Sand: 16 % OM: 2.7 Texture: SIL silt loam
 % Silt: 58 pH: 5.7
 % Clay: 26 CEC: 17.2 Fert. Level: F fair

Application Description

	A
Application Date:	05-30-09
Time of Day:	9:30 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	73 F
% Relative Humidity:	40
Wind Velocity, Unit:	8 mph
Wind Direction:	NNW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	68 F
Soil Moisture:	dry
% Cloud Cover:	0

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	DESC
Stage Majority, Percent:	V4
Height, Unit:	6 in
Crop 2 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	V4
Height, Unit:	6 in

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	ZEAMX W
Stage Majority, Percent:	V4
Height, Unit:	6 IN

Application Equipment

	A
Appl. Equipment:	Backpack
Equipment Type:	SPRBAC
Operating Pressure, Unit:	20 PSI
Nozzle Type:	flat fan
Nozzle Size:	XRC 11003
Nozzle Spacing, Unit:	20 in
Boom Length, Unit:	10 ft
Boom Height, Unit:	12 in
Ground Speed, Unit:	2.7 in
Carrier:	WATER
Spray Volume, Unit:	20 gal/ac
Mix Size, Unit:	1.8 liters
Propellant:	CO2
Tank Mix (Y/N):	Y yes

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Description	Pioneer 35F40	Pioneer 35F40	Pioneer 35F40	Dekalb DKC61-73	Dekalb DKC61-73						
Rating Date	06-01-09	06-08-09	06-18-09	06-01-09	06-08-09						
Rating Type	Control	Control	Control	Control	Control						
Rating Unit	Percent	Percent	Percent	Percent	Percent						
Days After First/Last Applic.	2 2	9 9	19 19	2 2	9 9						
Trt-Eval Interval	2 DA-A	9 DA-A	19 DA-A	2 DA-A	9 DA-A						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
1	Nontreated Check						0.0 c	0.0 c	0.0 b	0.0 c	0.0 d
2	Gramoxone Inteon	40 oz/a	700 g a/ha		POST	A	65.0 b	98.7 a	98.3 a	65.0 b	92.7 b
	atrazine	16 oz/a	560 g a/ha		POST	A					
	COC	1 % v/v			POST	A					
	AMS	17 lb/100 gal			POST	A					
3	Gramoxone Inteon	40 oz/a	700 g a/ha		POST	A	81.7 a	99.0 a	99.7 a	81.7 a	97.7 a
	Sencor	5.3 oz/a	278 g a/ha		POST	A					
	COC	1 % v/v			POST	A					
	AMS	17 lb/100 gal			POST	A					
4	Gramoxone Inteon	40 oz/a	700 g a/ha		POST	A	63.3 b	97.0 b	95.7 a	63.3 b	89.0 c
	COC	1 % v/v			POST	A					
	AMS	17 lb/100 gal			POST	A					
LSD (P=.05)							7.45	1.63	5.21	7.45	3.38
Standard Deviation							3.73	0.82	2.61	3.73	1.69
CV							7.1	1.11	3.55	7.1	2.42
Grand Mean							52.5	73.67	73.42	52.5	69.83
Bartlett's X2							0.824	1.923	9.933	0.824	2.6
P(Bartlett's X2)							0.662	0.166	0.007*	0.662	0.273
Replicate F							1.800	2.000	0.967	1.800	2.825
Replicate Prob(F)							0.2441	0.2160	0.4324	0.2441	0.1366
Treatment F							279.400	10857.001	1057.221	279.400	2285.864
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Description							Dekalb DKC61-73
Rating Date							06-18-09
Rating Type							Control
Rating Unit							Percent
Days After First/Last Applic.							19 19
Trt-Eval Interval							19 DA-A
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
							6
1	Nontreated Check						0.0 c
2	Gramoxone Inteon	40	oz/a	700	g a/ha	POST	A
	atrazine	16	oz/a	560	g a/ha	POST	A
	COC	1	% v/v			POST	A
	AMS	17	lb/100 gal			POST	A
3	Gramoxone Inteon	40	oz/a	700	g a/ha	POST	A
	Sencor	5.3	oz/a	278	g a/ha	POST	A
	COC	1	% v/v			POST	A
	AMS	17	lb/100 gal			POST	A
4	Gramoxone Inteon	40	oz/a	700	g a/ha	POST	A
	COC	1	% v/v			POST	A
	AMS	17	lb/100 gal			POST	A
LSD (P=.05)							2.58
Standard Deviation							1.29
CV							1.79
Grand Mean							72.25
Bartlett's X2							1.248
P(Bartlett's X2)							0.536
Replicate F							0.600
Replicate Prob(F)							0.5787
Treatment F							4183.650
Treatment Prob(F)							0.0001

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Rating Unit

Percent = percent

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 Location: Concord, NE Study Director:
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 Sponsor Contact:

Description								Pioneer 35F40	Pioneer 35F40	Pioneer 35F40	Dekalb DKC61-73	Dekalb DKC61-73	
Rating Date								06-01-09	06-08-09	06-18-09	06-01-09	06-08-09	
Rating Type								Control	Control	Control	Control	Control	
Rating Unit								Percent	Percent	Percent	Percent	Percent	
Days After First/Last Applic.								2 2	9 9	19 19	2 2	9 9	
Trt-Eval Interval								2 DA-A	9 DA-A	19 DA-A	2 DA-A	9 DA-A	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0
								202	0.0	0.0	0.0	0.0	0.0
								304	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	Gramoxone Inteon	40	oz/a	700	g a/ha	POST	A	102	60.0	99.0	98.0	60.0	94.0
	atrazine	16	oz/a	560	g a/ha	POST	A	201	65.0	98.0	98.0	65.0	92.0
	COC	1	% v/v			POST	A	303	70.0	99.0	99.0	70.0	92.0
	AMS	17	lb/100 gal			POST	A						
								Mean =	65.0	98.7	98.3	65.0	92.7
3	Gramoxone Inteon	40	oz/a	700	g a/ha	POST	A	103	80.0	99.0	100.0	80.0	98.0
	Sencor	5.3	oz/a	278	g a/ha	POST	A	204	85.0	99.0	100.0	85.0	96.0
	COC	1	% v/v			POST	A	302	80.0	99.0	99.0	80.0	99.0
	AMS	17	lb/100 gal			POST	A						
								Mean =	81.7	99.0	99.7	81.7	97.7
4	Gramoxone Inteon	40	oz/a	700	g a/ha	POST	A	104	60.0	98.0	97.0	60.0	92.0
	COC	1	% v/v			POST	A	203	70.0	95.0	90.0	70.0	85.0
	AMS	17	lb/100 gal			POST	A	301	60.0	98.0	100.0	60.0	90.0
								Mean =	63.3	97.0	95.7	63.3	89.0

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