

Northeast Research & Extension Center

2009 Kixor / Corn (North) / Weed Control Programs / Medium Soil

Trial ID: 09 CRRL-4 Kixor Demo	Protocol ID: 09 CRRL-4 Kixor Demo
Location: Concord, NE	Study Director:
Project ID: DEM-H-2009-US-C9F-B-2.0	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: RRL
	BBCH Scale: BCOR	Planting Date: 05-18-09
	Planting Method: SEEDED seeded	Rate, Unit: 24503 s/a
	Depth, Unit: 2 in	
	Row Spacing, Unit: 30 in	
	Harvest Date: 11-12-09	Harvest Equipment: Almaco SP40
Harvested Width, Unit: 5 ft		Harvested Length, Unit: 28 ft
% Standard Moisture: 15.5		Moisture Meter: almaco
Weighing Equipment: almaco		

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis
Common Name: Green foxtail

Pest 2 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest 3 Type: W Code: AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field
 Plot Length, Unit: 30 FT
 Plot Area, Unit: 300 FT² Tillage Type: MINTIL minimum-till
 Replications: 3 Study Design: RAOBL Randomized Complete Block (RCB)

Trial Initiation Comments:

Trial was field cultivated 5-17-09 one time with rolling basket

	Previous Crops	Previous Pesticides	Year
1.	soybean	glyphosate	2008

Field Prep./Maintenance:

Field cultivated at angle 5-17-09. Note some weed escapes from tillage operation. These will not be included in any ratings.

Soil Description

% Sand: 10 % OM: 4.6 Texture: SICL silty clay loam
 % Silt: 56 pH: 6.2
 % Clay: 34 CEC: 25.3 Fert. Level: F fair

Analyzed By:
Midwest Labs

Application Description

	A	B
Application Date:	05-19-09	06-17-09
Time of Day:	7 am	2:15 pm
Application Method:	spray	spray
Application Timing:	PRE	POST
Application Placement:	surface	foliar
Applied By:	js	rr
Air Temperature, Unit:	70 F	89 F
% Relative Humidity:	74	60
Wind Velocity, Unit:	2 mph	4 mph
Wind Direction:	N	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	63 F	70 F
Soil Moisture:	adequate	wet
% Cloud Cover:	15	50
Next Rain Occurred On:		06-17-09

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		DESC
Stage Majority, Percent:		V5 80
Stage Minimum, Percent:		V4 20
Height, Unit:		8 in

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETVI W	SETVI W
Height, Unit:		4 in
Height Minimum, Maximum:		3 5
Density, Unit:		25 m2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W
Height, Unit:		5 in
Height Minimum, Maximum:		4 6
Density, Unit:		3 m2
Pest 3 Code, Type, Scale:	AMATU W	AMATU W
Height, Unit:		3.5 in
Height Minimum, Maximum:		3 5
Density, Unit:		10 m2

Application Equipment

	A	B
Appl. Equipment:	backpack	BACKPACK
Operating Pressure, Unit:	20 psi	40 PSI
Nozzle Type:	Turbo Tee	TURBO TEE
Nozzle Size:	11003	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	12 IN	12 IN
Ground Speed, Unit:	2.7 MPH	2.7 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Mix Size, Unit:	1.8 Liters	1.8 Liters
Propellant:	co2	co2

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 Project ID: DEM-H-2009-US-C9F-B-2.0 Investigator: Stevan Knezevic
 Sponsor Contact:

Description							Corn, field	Corn, field	Crop Injury	Crop Injury	Crop Injury	Crop Injury	
Rating Date							11-12-09	11-12-09	06-02-09	06-17-09	06-25-09	07-02-09	
Rating Type							Yield@15.5%	Moisture	Injury	Injury	Injury	Injury	
Rating Unit							bu/A	%	Percent	Percent	Percent	Percent	
Days After First/Last Applic.							177	148	14	29	37	44	
Trt-Eval Interval									14	29	8	15	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
1	Nontreated Check							106.770 e	17.793 a	0.0 a	0.0 a	0.0 a	0.0 a
2	Lexar	80	oz/a	2750	g a/ha	PRE	A	163.373 d	17.153 a	0.0 a	0.0 a	0.0 a	0.0 a
3	Harness Extra 5.6L (80 oz)							181.110 abc	17.373 a	0.0 a	0.0 a	0.0 a	0.0 a
	Harness	2.17	pt/a	2130	g a/ha	PRE	A						
	atrazine	3.13	pt/a	1750	g a/ha	PRE	A						
4	Integrity	20	oz/a	975	g a/ha	PRE	A	177.990 abc	17.073 a	0.0 a	0.0 a	0.0 a	0.0 a
5	Corvus	5.6	oz/a	127	g a/ha	PRE	A	171.513 bcd	17.263 a	0.0 a	0.0 a	0.0 a	0.0 a
	atrazine	32	oz/a	1120	g a/ha	PRE	A						
6	Sharpen	3	oz/a	75	g a/ha	PRE	A	166.707 cd	17.303 a	0.0 a	0.0 a	0.0 a	0.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A						
7	Integrity	13	oz/a	634	g a/ha	PRE	A	181.367 ab	17.023 a	0.0 a	0.0 a	0.0 a	0.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
8	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	181.873 ab	17.303 a	0.0 a	0.0 a	0.0 a	0.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
9	Harness Extra 5.6L (48 oz)							187.223 a	17.380 a	0.0 a	0.0 a	0.0 a	0.0 a
	Harness	1.3	pt/a	1270	g a/ha	PRE	A						
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	188.653 a	17.643 a	0.0 a	0.0 a	0.0 a	0.0 a
	Harness Extra 5.6L (48 oz)												
	Harness	1.3	pt/a	1270	g a/ha	PRE	A						
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
11	SureStart	28	oz/a			PRE	A	179.293 abc	17.427 a	0.0 a	0.0 a	0.0 a	0.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						

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Description							Corn, field	Corn, field	Crop Injury	Crop Injury	Crop Injury	Crop Injury	
Rating Date							11-12-09	11-12-09	06-02-09	06-17-09	06-25-09	07-02-09	
Rating Type							Yield@15.5%	Moisture	Injury	Injury	Injury	Injury	
Rating Unit							bu/A	%	Percent	Percent	Percent	Percent	
Days After First/Last Applic.							177 148	177 148	14 14	29 29	37 8	44 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
12	Integrity	13	oz/a	634	g a/ha	PRE	A	184.860 ab	17.693 a	0.0 a	0.0 a	0.0 a	0.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	Status	2.5	oz/a	98	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
LSD (P=.05)							14.5594	0.7880	0.00	0.00	0.00	0.00	
Standard Deviation							8.5977	0.4653	0.00	0.00	0.00	0.00	
CV							4.98	2.68	0.0	0.0	0.0	0.0	
Grand Mean							172.56	17.37	0.0	0.0	0.0	0.0	
Bartlett's X2							11.704	6.068	0.0	0.0	0.0	0.0	
P(Bartlett's X2)							0.386	0.869	
Replicate F							0.472	1.299	0.000	0.000	0.000	0.000	
Replicate Prob(F)							0.6300	0.2930	1.0000	1.0000	1.0000	1.0000	
Treatment F							19.870	0.801	0.000	0.000	0.000	0.000	
Treatment Prob(F)							0.0001	0.6385	1.0000	1.0000	1.0000	1.0000	

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							Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	
Rating Date							06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type							Control	Control	Control	DENSITY	Control	
Rating Unit							Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11
1	Nontreated Check							0.0 b	0.0 d	0.0 d	0.0 d	0.0 c
2	Lexar	80	oz/a	2750	g a/ha	PRE	A	84.3 a	87.3 bc	81.7 c	36.7 a	78.3 b
3	Harness Extra 5.6L (80 oz)							91.3 a	94.7 abc	91.0 abc	30.0 ab	91.0 ab
	Harness	2.17	pt/a	2130	g a/ha	PRE	A					
	atrazine	3.13	pt/a	1750	g a/ha	PRE	A					
4	Integrity	20	oz/a	975	g a/ha	PRE	A	91.3 a	92.7 abc	93.0 ab	23.3 abc	86.3 ab
5	Corvus	5.6	oz/a	127	g a/ha	PRE	A	90.0 a	85.0 c	84.3 bc	35.0 a	83.3 b
	atrazine	32	oz/a	1120	g a/ha	PRE	A					
6	Sharpen	3	oz/a	75	g a/ha	PRE	A	97.7 a	95.0 abc	89.0 bc	26.7 abc	83.3 b
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A					
7	Integrity	13	oz/a	634	g a/ha	PRE	A	94.3 a	87.3 bc	99.0 a	16.0 bcd	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B					
	NIS	0.25	% v/v			POST	B					
	AMS	17	lb/100 gal			POST	B					
8	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	97.7 a	94.0 abc	99.0 a	16.7 bcd	99.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A					
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B					
	NIS	0.25	% v/v			POST	B					
	AMS	17	lb/100 gal			POST	B					
9	Harness Extra 5.6L (48 oz)							95.0 a	97.7 ab	99.0 a	11.7 cd	99.0 a
	Harness	1.3	pt/a	1270	g a/ha	PRE	A					
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A					
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B					
	NIS	0.25	% v/v			POST	B					
	AMS	17	lb/100 gal			POST	B					
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	96.7 a	98.0 a	99.0 a	23.3 abc	99.0 a
	Harness Extra 5.6L (48 oz)											
	Harness	1.3	pt/a	1270	g a/ha	PRE	A					
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A					
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B					
	NIS	0.25	% v/v			POST	B					
	AMS	17	lb/100 gal			POST	B					
11	SureStart	28	oz/a			PRE	A	95.3 a	93.3 abc	99.0 a	20.0 abc	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B					
	NIS	0.25	% v/v			POST	B					
	AMS	17	lb/100 gal			POST	B					

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Description							Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	
Rating Date							06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type							Control	Control	Control	DENSITY	Control	
Rating Unit							Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11
12	Integrity	13	oz/a	634	g a/ha	PRE	A	95.0 a	95.0 abc	99.0 a	17.7 bc	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B					
	Status	2.5	oz/a	98	g a/ha	POST	B					
	NIS	0.25	% v/v			POST	B					
	AMS	17	lb/100 gal			POST	B					
LSD (P=.05)							14.34	10.54	9.57	16.67	12.69	
Standard Deviation							8.47	6.23	5.65	9.81	7.50	
CV							9.88	7.32	6.57	45.82	8.85	
Grand Mean							85.72	85.0	86.08	21.42	84.69	
Bartlett's X2							15.804	16.042	0.763	5.973	2.363	
P(Bartlett's X2)							0.105	0.098	0.943	0.818	0.669	
Replicate F							3.175	5.045	1.755	0.655	2.783	
Replicate Prob(F)							0.0615	0.0157	0.1963	0.5297	0.0836	
Treatment F							31.086	56.761	72.653	3.249	41.204	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0098	0.0001	

Description								Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf
Rating Date								08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09
Rating Type								Control	Control	Control	Control	DENSITY	Control
Rating Unit								Percent	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.								84 55	14 14	29 29	37 8	37 8	44 15
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	12	13	14	15	16	17
1	Nontreated Check							0.0 c	0.0 c	0.0 d	0.0 d	0.0 a	0.0 c
2	Lexar	80	oz/a	2750	g a/ha	PRE	A	73.3 b	100.0 a	100.0 a	99.0 a	3.0 a	99.0 a
3	Harness Extra 5.6L (80 oz)							81.7 b	65.0 b	57.5 c	20.0 c	2.5 a	15.0 b
	Harness	2.17	pt/a	2130	g a/ha	PRE	A						
	atrazine	3.13	pt/a	1750	g a/ha	PRE	A						
4	Integrity	20	oz/a	975	g a/ha	PRE	A	81.7 b	100.0 a	100.0 a	99.0 a	1.0 a	99.0 a
5	Corvus	5.6	oz/a	127	g a/ha	PRE	A	80.0 b	100.0 a	100.0 a	99.7 a	1.3 a	99.0 a
	atrazine	32	oz/a	1120	g a/ha	PRE	A						
6	Sharpen	3	oz/a	75	g a/ha	PRE	A	75.0 b	90.0 ab	95.0 ab	91.5 b	2.5 a	99.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A						
7	Integrity	13	oz/a	634	g a/ha	PRE	A	99.0 a	100.0 a	100.0 a	99.0 a	1.5 a	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
8	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	99.0 a	77.0 ab	89.3 ab	99.0 a	5.3 a	99.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
9	Harness Extra 5.6L (48 oz)							99.0 a	73.3 ab	80.0 b	99.0 a	2.7 a	99.0 a
	Harness	1.3	pt/a	1270	g a/ha	PRE	A						
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	99.0 a	100.0 a	90.0 ab	99.0 a	1.3 a	99.0 a
	Harness Extra 5.6L (48 oz)												
	Harness	1.3	pt/a	1270	g a/ha	PRE	A						
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
11	SureStart	28	oz/a			PRE	A	99.0 a	80.0 ab	45.0 c	98.7 a	5.5 a	98.5 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						

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Description							Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	
Rating Date							08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type							Control	Control	Control	Control	DENSITY	Control	
Rating Unit							Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	12	13	14	15	16	17
12	Integrity	13	oz/a	634	g a/ha	PRE	A	99.0 a	100.0 a	100.0 a	99.0 a	2.0 a	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	Status	2.5	oz/a	98	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
LSD (P=.05)							9.19	26.70	19.26	3.73	4.19	2.92	
Standard Deviation							5.43	15.72	11.34	2.17	2.39	1.69	
CV							6.61	19.15	14.22	2.59	100.16	2.01	
Grand Mean							82.14	82.11	79.74	83.57	2.39	83.71	
Bartlett's X2							6.29	2.381	5.085	13.498	14.582	3.109	
P(Bartlett's X2)							0.178	0.666	0.406	0.001*	0.068	0.078	
Replicate F							0.024	0.568	1.071	0.640	1.792	0.887	
Replicate Prob(F)							0.9767	0.5750	0.3606	0.5393	0.2029	0.4311	
Treatment F							79.426	10.070	22.365	769.146	1.411	1348.806	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.2681	0.0001	

Description							Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp	
Rating Date							08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type							Control	Control	Control	Control	DENSITY	Control	
Rating Unit							Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	18	19	20	21	22	23
1	Nontreated Check							0.0 d	0.0 b	0.0 b	0.0 c	0.0 a	0.0 c
2	Lexar	80	oz/a	2750	g a/ha	PRE	A	85.0 bc	100.0 a	100.0 a	99.0 a	14.7 a	96.7 ab
3	Harness Extra 5.6L (80 oz)							85.0 bc	100.0 a	99.7 a	97.3 a	21.7 a	95.7 ab
	Harness	2.17	pt/a	2130	g a/ha	PRE	A						
	atrazine	3.13	pt/a	1750	g a/ha	PRE	A						
4	Integrity	20	oz/a	975	g a/ha	PRE	A	93.3 ab	100.0 a	100.0 a	98.7 a	21.7 a	93.0 b
5	Corvus	5.6	oz/a	127	g a/ha	PRE	A	90.0 ab	100.0 a	98.7 a	90.0 b	12.7 a	95.3 ab
	atrazine	32	oz/a	1120	g a/ha	PRE	A						
6	Sharpen	3	oz/a	75	g a/ha	PRE	A	79.0 c	100.0 a	96.7 a	96.3 a	16.3 a	92.0 b
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A						
7	Integrity	13	oz/a	634	g a/ha	PRE	A	99.0 a	100.0 a	100.0 a	99.0 a	11.7 a	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
8	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	99.0 a	100.0 a	98.7 a	99.0 a	26.7 a	99.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
9	Harness Extra 5.6L (48 oz)							99.0 a	100.0 a	100.0 a	99.0 a	19.3 a	99.0 a
	Harness	1.3	pt/a	1270	g a/ha	PRE	A						
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	99.0 a	100.0 a	100.0 a	99.0 a	15.0 a	99.0 a
	Harness Extra 5.6L (48 oz)												
	Harness	1.3	pt/a	1270	g a/ha	PRE	A						
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
11	SureStart	28	oz/a			PRE	A	97.7 a	100.0 a	99.3 a	99.0 a	20.0 a	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						

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Description							Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp	
Rating Date							08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type							Control	Control	Control	Control	DENSITY	Control	
Rating Unit							Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	18	19	20	21	22	23
12	Integrity	13	oz/a	634	g a/ha	PRE	A	99.0 a	100.0 a	98.7 a	99.0 a	18.3 a	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	Status	2.5	oz/a	98	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
LSD (P=.05)							10.30	0.00	3.55	5.43	16.26	4.89	
Standard Deviation							6.07	0.00	2.10	3.20	9.58	2.89	
CV							7.1	0.0	2.31	3.58	58.03	3.25	
Grand Mean							85.42	91.67	90.97	89.61	16.5	88.89	
Bartlett's X2							10.11	0.0	9.478	13.961	6.403	0.532	
P(Bartlett's X2)							0.039*	.	0.091	0.007*	0.699	0.97	
Replicate F							0.545	0.000	0.574	0.587	0.789	0.053	
Replicate Prob(F)							0.5876	1.0000	0.5717	0.5645	0.4673	0.9481	
Treatment F							62.918	0.000	559.433	234.594	1.476	284.718	
Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	0.2129	0.0001	

Description								Waterhemp
Rating Date								08-11-09
Rating Type								Control
Rating Unit								Percent
Days After First/Last Applic.								84 55
Trt-Eval Interval								
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
								24
1	Nontreated Check							0.0 c
2	Lexar	80	oz/a	2750	g a/ha	PRE	A	88.3 ab
3	Harness Extra 5.6L (80 oz)							90.0 ab
	Harness	2.17	pt/a	2130	g a/ha	PRE	A	
	atrazine	3.13	pt/a	1750	g a/ha	PRE	A	
4	Integrity	20	oz/a	975	g a/ha	PRE	A	90.0 ab
5	Corvus	5.6	oz/a	127	g a/ha	PRE	A	83.3 b
	atrazine	32	oz/a	1120	g a/ha	PRE	A	
6	Sharpen	3	oz/a	75	g a/ha	PRE	A	79.0 b
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A	
7	Integrity	13	oz/a	634	g a/ha	PRE	A	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	
	NIS	0.25	% v/v			POST	B	
	AMS	17	lb/100 gal			POST	B	
8	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	99.0 a
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A	
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	
	NIS	0.25	% v/v			POST	B	
	AMS	17	lb/100 gal			POST	B	
9	Harness Extra 5.6L (48 oz)							99.0 a
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	
	NIS	0.25	% v/v			POST	B	
	AMS	17	lb/100 gal			POST	B	
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	99.0 a
	Harness Extra 5.6L (48 oz)							
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	
	NIS	0.25	% v/v			POST	B	
	AMS	17	lb/100 gal			POST	B	
11	SureStart	28	oz/a			PRE	A	99.0 a
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	
	NIS	0.25	% v/v			POST	B	
	AMS	17	lb/100 gal			POST	B	

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Description							Waterhemp
Rating Date							08-11-09
Rating Type							Control
Rating Unit							Percent
Days After First/Last Applic.							84 55
Trt-Eval Interval							
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
							24
12	Integrity	13	oz/a	634	g a/ha	PRE	A
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B
	Status	2.5	oz/a	98	g a/ha	POST	B
	NIS	0.25	% v/v			POST	B
	AMS	17	lb/100 gal			POST	B
LSD (P=.05)							11.45
Standard Deviation							6.76
CV							7.92
Grand Mean							85.39
Bartlett's X2							6.312
P(Bartlett's X2)							0.097
Replicate F							0.157
Replicate Prob(F)							0.8552
Treatment F							50.744
Treatment Prob(F)							0.0001

Northeast Research & Extension Center

2009 Kixor / Corn (North) / Weed Control Programs / Medium Soil

Trial ID: 09 CRRL-4 Kixor Demo Protocol ID: 09 CRRL-4 Kixor Demo
Location: Concord, NE Study Director:
Project ID: DEM-H-2009-US-C9F-B-2.0 Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent

Northeast Research & Extension Center

2009 Kixor / Corn (North) / Weed Control Programs / Medium Soil

Trial ID: 09 CRLL-4 Kixor Demo Protocol ID: 09 CRLL-4 Kixor Demo
 Location: Concord, NE Study Director:
 Project ID: DEM-H-2009-US-C9F-B-2.0 Investigator: Stevan Knezevic
 Sponsor Contact:

Description								Corn, field	Corn, field	Crop Injury	Crop Injury	Crop Injury	Crop Injury
Rating Date								11-12-09	11-12-09	06-02-09	06-17-09	06-25-09	07-02-09
Rating Type								Yield@15.5%	Moisture	Injury	Injury	Injury	Injury
Rating Unit								bu/A	%	Percent	Percent	Percent	Percent
Days After First/Last Applic.								177 148	177 148	14 14	29 29	37 8	44 15
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
1	Nontreated Check						101	95.850	17.220	0.0	0.0	0.0	0.0
							210	110.110	18.310	0.0	0.0	0.0	0.0
							309	114.350	17.850	0.0	0.0	0.0	0.0
							Mean =	106.770	17.793	0.0	0.0	0.0	0.0
2	Lexar	80 oz/a	2750 g a/ha		PRE	A	102	154.290	16.790	0.0	0.0	0.0	0.0
							206	158.820	17.450	0.0	0.0	0.0	0.0
							310	177.010	17.220	0.0	0.0	0.0	0.0
							Mean =	163.373	17.153	0.0	0.0	0.0	0.0
3	Harness Extra 5.6L (80 oz)						103	190.160	16.990	0.0	0.0	0.0	0.0
	Harness	2.17 pt/a	2130 g a/ha		PRE	A	207	163.800	18.080	0.0	0.0	0.0	0.0
	atrazine	3.13 pt/a	1750 g a/ha		PRE	A	304	189.370	17.050	0.0	0.0	0.0	0.0
							Mean =	181.110	17.373	0.0	0.0	0.0	0.0
4	Integrity	20 oz/a	975 g a/ha		PRE	A	104	181.230	17.180	0.0	0.0	0.0	0.0
							205	176.640	17.240	0.0	0.0	0.0	0.0
							306	176.100	16.800	0.0	0.0	0.0	0.0
							Mean =	177.990	17.073	0.0	0.0	0.0	0.0
5	Corvus	5.6 oz/a	127 g a/ha		PRE	A	105	169.230	17.560	0.0	0.0	0.0	0.0
	atrazine	32 oz/a	1120 g a/ha		PRE	A	201	173.450	16.890	0.0	0.0	0.0	0.0
							311	171.860	17.340	0.0	0.0	0.0	0.0
							Mean =	171.513	17.263	0.0	0.0	0.0	0.0
6	Sharpen	3 oz/a	75 g a/ha		PRE	A	106	154.990	17.580	0.0	0.0	0.0	0.0
	Prowl H2O	48 oz/a	1600 g a/ha		PRE	A	208	175.480	17.450	0.0	0.0	0.0	0.0
							302	169.650	16.880	0.0	0.0	0.0	0.0
							Mean =	166.707	17.303	0.0	0.0	0.0	0.0
7	Integrity	13 oz/a	634 g a/ha		PRE	A	107	186.030	17.610	0.0	0.0	0.0	0.0
	Roundup PowerMAX	22 oz/a	870 g a/ha		POST	B	212	180.410	16.930	0.0	0.0	0.0	0.0
	NIS	0.25 % v/v			POST	B	301	177.660	16.530	0.0	0.0	0.0	0.0
	AMS	17 lb/100 gal			POST	B							
							Mean =	181.367	17.023	0.0	0.0	0.0	0.0
8	Sharpen	2.5 oz/a	62.4 g a/ha		PRE	A	108	176.810	17.260	0.0	0.0	0.0	0.0
	Prowl H2O	48 oz/a	1600 g a/ha		PRE	A	211	190.720	17.200	0.0	0.0	0.0	0.0
	Roundup PowerMAX	22 oz/a	870 g a/ha		POST	B	308	178.090	17.450	0.0	0.0	0.0	0.0
	NIS	0.25 % v/v			POST	B							
	AMS	17 lb/100 gal			POST	B							
							Mean =	181.873	17.303	0.0	0.0	0.0	0.0

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Description								Corn, field	Corn, field	Crop Injury	Crop Injury	Crop Injury	Crop Injury				
Rating Date								11-12-09	11-12-09	06-02-09	06-17-09	06-25-09	07-02-09				
Rating Type								Yield@15.5%	Moisture	Injury	Injury	Injury	Injury				
Rating Unit								bu/A	%	Percent	Percent	Percent	Percent				
Days After First/Last Applic.								177	148	14	14	29	29	37	8	44	15
Trt-Eval Interval																	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6			
9	Harness Extra 5.6L (48 oz)							109	192.590	17.540	0.0	0.0	0.0	0.0			
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	202	180.700	16.950	0.0	0.0	0.0	0.0			
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	307	188.380	17.650	0.0	0.0	0.0	0.0			
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B										
	NIS	0.25	% v/v			POST	B										
	AMS	17	lb/100 gal			POST	B										
								Mean =	187.223	17.380	0.0	0.0	0.0	0.0			
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	110	187.100	17.950	0.0	0.0	0.0	0.0			
	Harness Extra 5.6L (48 oz)							204	187.010	17.990	0.0	0.0	0.0	0.0			
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	312	191.850	16.990	0.0	0.0	0.0	0.0			
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A										
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B										
	NIS	0.25	% v/v			POST	B										
	AMS	17	lb/100 gal			POST	B										
								Mean =	188.653	17.643	0.0	0.0	0.0	0.0			
11	SureStart	28	oz/a			PRE	A	111	180.750	17.350	0.0	0.0	0.0	0.0			
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	209	171.380	18.090	0.0	0.0	0.0	0.0			
	NIS	0.25	% v/v			POST	B	303	185.750	16.840	0.0	0.0	0.0	0.0			
	AMS	17	lb/100 gal			POST	B										
								Mean =	179.293	17.427	0.0	0.0	0.0	0.0			
12	Integrity	13	oz/a	634	g a/ha	PRE	A	112	191.330	18.310	0.0	0.0	0.0	0.0			
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	203	189.020	17.060	0.0	0.0	0.0	0.0			
	Status	2.5	oz/a	98	g a/ha	POST	B	305	174.230	17.710	0.0	0.0	0.0	0.0			
	NIS	0.25	% v/v			POST	B										
	AMS	17	lb/100 gal			POST	B										
								Mean =	184.860	17.693	0.0	0.0	0.0	0.0			

Description								Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	
Rating Date								06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type								Control	Control	Control	DENSITY	Control	
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.								14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	Lexar	80 oz/a		2750 g a/ha		PRE	A	102	96.0	97.0	90.0	30.0	95.0
								206	60.0	80.0	75.0	40.0	60.0
								310	97.0	85.0	80.0	40.0	80.0
								Mean =	84.3	87.3	81.7	36.7	78.3
3	Harness Extra 5.6L (80 oz) Harness atrazine	2.17 pt/a		2130 g a/ha		PRE	A	103	99.0	97.0	96.0	25.0	98.0
								207	80.0	88.0	80.0	40.0	85.0
		3.13 pt/a		1750 g a/ha		PRE	A	304	95.0	99.0	97.0	25.0	90.0
								Mean =	91.3	94.7	91.0	30.0	91.0
4	Integrity	20 oz/a		975 g a/ha		PRE	A	104	99.0	98.0	96.0	30.0	97.0
								205	75.0	80.0	85.0	30.0	70.0
								306	100.0	100.0	98.0	10.0	92.0
								Mean =	91.3	92.7	93.0	23.3	86.3
5	Corvus atrazine	5.6 oz/a		127 g a/ha		PRE	A	105	95.0	95.0	98.0	25.0	95.0
								201	80.0	80.0	75.0	40.0	70.0
		32 oz/a		1120 g a/ha		PRE	A	311	95.0	80.0	80.0	40.0	85.0
								Mean =	90.0	85.0	84.3	35.0	83.3
6	Sharpen Prowl H2O	3 oz/a		75 g a/ha		PRE	A	106	93.0	88.0	80.0	30.0	75.0
								208	100.0	98.0	95.0	10.0	90.0
		48 oz/a		1600 g a/ha		PRE	A	302	100.0	99.0	92.0	40.0	85.0
								Mean =	97.7	95.0	89.0	26.7	83.3
7	Integrity Roundup PowerMAX NIS AMS	13 oz/a		634 g a/ha		PRE	A	107	99.0	97.0	99.0	20.0	99.0
								212	94.0	70.0	99.0	8.0	99.0
		0.25 % v/v				POST	B	301	90.0	95.0	99.0	20.0	99.0
								AMS	17 lb/100 gal			POST	B
Mean =	94.3	87.3	99.0	16.0	99.0								
8	Sharpen Prowl H2O Roundup PowerMAX NIS AMS	2.5 oz/a		62.4 g a/ha		PRE	A	108	99.0	96.0	99.0	10.0	99.0
								211	97.0	90.0	99.0	30.0	99.0
		48 oz/a		1600 g a/ha		PRE	A	308	97.0	96.0	99.0	10.0	99.0
								AMS	17 lb/100 gal			POST	B
Mean =	97.7	94.0	99.0	16.7	99.0								

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Description								Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	
Rating Date								06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type								Control	Control	Control	DENSITY	Control	
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.								14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11
9	Harness Extra 5.6L (48 oz)							109	95.0	99.0	99.0	10.0	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	202	90.0	96.0	99.0	15.0	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	307	100.0	98.0	99.0	10.0	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
								Mean =	95.0	97.7	99.0	11.7	99.0
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	110	100.0	99.0	99.0	10.0	99.0
	Harness Extra 5.6L (48 oz)							204	100.0	98.0	99.0	20.0	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	312	90.0	97.0	99.0	40.0	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A						
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
								Mean =	96.7	98.0	99.0	23.3	99.0
11	SureStart	28	oz/a			PRE	A	111	100.0	98.0	99.0		99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	209	96.0	90.0	99.0	15.0	99.0
	NIS	0.25	% v/v			POST	B	303	90.0	92.0	99.0	25.0	99.0
	AMS	17	lb/100 gal			POST	B						
								Mean =	95.3	93.3	99.0	20.0	99.0
12	Integrity	13	oz/a	634	g a/ha	PRE	A	112	100.0	98.0	99.0	20.0	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	203	100.0	97.0	99.0	8.0	99.0
	Status	2.5	oz/a	98	g a/ha	POST	B	305	85.0	90.0	99.0	25.0	99.0
	NIS	0.25	% v/v			POST	B						
	AMS	17	lb/100 gal			POST	B						
								Mean =	95.0	95.0	99.0	17.7	99.0

Description								Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	
Rating Date								08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type								Control	Control	Control	Control	DENSITY	Control	
Rating Unit								Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.								84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	12	13	14	15	16	17
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0	
								210	0.0	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	Lexar	80 oz/a		2750 g a/ha		PRE	A	102	80.0	100.0	100.0			
								206	70.0	100.0	100.0	99.0	5.0	99.0
								310	70.0	100.0	100.0	99.0	1.0	99.0
								Mean =	73.3	100.0	100.0	99.0	3.0	99.0
3	Harness Extra 5.6L (80 oz) Harness atrazine	2.17 pt/a		2130 g a/ha		PRE	A	103	80.0	70.0	60.0	20.0	1.0	20.0
								207	80.0	60.0	55.0	20.0	4.0	10.0
		3.13 pt/a		1750 g a/ha		PRE	A	304	85.0					
								Mean =	81.7	65.0	57.5	20.0	2.5	15.0
4	Integrity	20 oz/a		975 g a/ha		PRE	A	104	80.0	100.0	100.0			99.0
								205	80.0	100.0	100.0			
								306	85.0	100.0	100.0	99.0	1.0	99.0
								Mean =	81.7	100.0	100.0	99.0	1.0	99.0
5	Corvus atrazine	5.6 oz/a		127 g a/ha		PRE	A	105	90.0	100.0	100.0	100.0	2.0	99.0
								201	80.0	100.0	100.0	100.0	1.0	99.0
		32 oz/a		1120 g a/ha		PRE	A	311	70.0	100.0	100.0	99.0	1.0	99.0
								Mean =	80.0	100.0	100.0	99.7	1.3	99.0
6	Sharpen Prowl H2O	3 oz/a		75 g a/ha		PRE	A	106	60.0	70.0	85.0	85.0	2.0	99.0
								208	80.0	100.0	100.0	98.0	3.0	99.0
		48 oz/a		1600 g a/ha		PRE	A	302	85.0	100.0	100.0			
								Mean =	75.0	90.0	95.0	91.5	2.5	99.0
7	Integrity Roundup PowerMAX NIS AMS	13 oz/a		634 g a/ha		PRE	A	107	99.0	100.0	100.0	99.0	2.0	99.0
								212	99.0	100.0	100.0	99.0	1.0	99.0
		22 oz/a		870 g a/ha		POST	B	301	99.0	100.0	100.0	99.0		99.0
								AMS	17 lb/100 gal					
Mean =	99.0	100.0	100.0	99.0	1.5	99.0								
8	Sharpen Prowl H2O Roundup PowerMAX NIS AMS	2.5 oz/a		62.4 g a/ha		PRE	A	108	99.0	50.0	80.0	99.0	1.0	99.0
								211	99.0	96.0	98.0	99.0	10.0	99.0
		48 oz/a		1600 g a/ha		PRE	A	308	99.0	85.0	90.0	99.0	5.0	99.0
								AMS	17 lb/100 gal					
Mean =	99.0	77.0	89.3	99.0	5.3	99.0								

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Description								Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	
Rating Date								08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type								Control	Control	Control	Control	DENSITY	Control	
Rating Unit								Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.								84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	12	13	14	15	16	17
9	Harness Extra 5.6L (48 oz)							109	99.0	50.0	50.0	99.0	4.0	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	202	99.0	100.0	90.0	99.0	3.0	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	307	99.0	70.0	100.0	99.0	1.0	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B							
	NIS	0.25	% v/v			POST	B							
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	73.3	80.0	99.0	2.7	99.0
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	110	99.0	100.0	70.0	99.0	2.0	99.0
	Harness Extra 5.6L (48 oz)							204	99.0	100.0	100.0	99.0	1.0	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	312	99.0	100.0	100.0	99.0	1.0	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A							
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B							
	NIS	0.25	% v/v			POST	B							
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	100.0	90.0	99.0	1.3	99.0
11	SureStart	28	oz/a			PRE	A	111	99.0	100.0	65.0	99.0		99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	209	99.0	40.0	40.0	98.0	10.0	98.0
	NIS	0.25	% v/v			POST	B	303	99.0	100.0	30.0	99.0	1.0	
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	80.0	45.0	98.7	5.5	98.5
12	Integrity	13	oz/a	634	g a/ha	PRE	A	112	99.0	100.0	100.0	99.0	2.0	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	203	99.0	100.0	100.0	99.0		99.0
	Status	2.5	oz/a	98	g a/ha	POST	B	305	99.0	100.0	100.0	99.0	2.0	99.0
	NIS	0.25	% v/v			POST	B							
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	100.0	100.0	99.0	2.0	99.0

Description								Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp	
Rating Date								08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type								Control	Control	Control	Control	DENSITY	Control	
Rating Unit								Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.								84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	18	19	20	21	22	23
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0	0.0	
								309	0.0	0.0	0.0	0.0	0.0	
								Mean =	0.0	0.0	0.0	0.0	0.0	
2	Lexar	80 oz/a		2750 g a/ha		PRE	A	102	90.0	100.0	100.0	100.0	4.0	99.0
								206	85.0	100.0	100.0	98.0	25.0	99.0
								310	80.0	100.0	100.0	99.0	15.0	92.0
								Mean =	85.0	100.0	100.0	99.0	14.7	96.7
3	Harness Extra 5.6L (80 oz) Harness atrazine	2.17 pt/a		2130 g a/ha		PRE	A	103	90.0	100.0	100.0	96.0	5.0	99.0
								207	80.0	100.0	99.0	98.0	30.0	90.0
		3.13 pt/a		1750 g a/ha		PRE	A	304		100.0	100.0	98.0	30.0	98.0
								Mean =	85.0	100.0	99.7	97.3	21.7	95.7
4	Integrity	20 oz/a		975 g a/ha		PRE	A	104	90.0	100.0	100.0	100.0	10.0	90.0
								205	95.0	100.0	100.0	97.0	25.0	90.0
								306	95.0	100.0	100.0	99.0	30.0	99.0
								Mean =	93.3	100.0	100.0	98.7	21.7	93.0
5	Corvus atrazine	5.6 oz/a		127 g a/ha		PRE	A	105	90.0	100.0	100.0	90.0	15.0	92.0
								201	90.0	100.0	100.0	100.0	8.0	99.0
		32 oz/a		1120 g a/ha		PRE	A	311	90.0	100.0	96.0	80.0	15.0	95.0
								Mean =	90.0	100.0	98.7	90.0	12.7	95.3
6	Sharpen Prowl H2O	3 oz/a		75 g a/ha		PRE	A	106	60.0	100.0	90.0	92.0	15.0	90.0
								208	80.0	100.0	100.0	98.0	30.0	96.0
		48 oz/a		1600 g a/ha		PRE	A	302	97.0	100.0	100.0	99.0	4.0	90.0
								Mean =	79.0	100.0	96.7	96.3	16.3	92.0
7	Integrity Roundup PowerMAX NIS AMS	13 oz/a		634 g a/ha		PRE	A	107	99.0	100.0	100.0	99.0	10.0	99.0
								212	99.0	100.0	100.0	99.0	15.0	99.0
		0.25 % v/v		870 g a/ha		POST	B	301	99.0	100.0	100.0	99.0	10.0	99.0
								AMS	17 lb/100 gal			POST	B	
Mean =	99.0	100.0	100.0	99.0	11.7	99.0								
8	Sharpen Prowl H2O Roundup PowerMAX NIS AMS	2.5 oz/a		62.4 g a/ha		PRE	A	108	99.0	100.0	96.0	99.0	15.0	99.0
								211	99.0	100.0	100.0	99.0	25.0	99.0
		48 oz/a		1600 g a/ha		PRE	A	308	99.0	100.0	100.0	99.0	40.0	99.0
								Roundup PowerMAX	22 oz/a			POST	B	
0.25 % v/v		870 g a/ha		POST	B	AMS	17 lb/100 gal			POST	B			
						Mean =	99.0	100.0	98.7	99.0	26.7	99.0		

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Description								Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp	
Rating Date								08-11-09	06-02-09	06-17-09	06-25-09	06-25-09	07-02-09	
Rating Type								Control	Control	Control	Control	DENSITY	Control	
Rating Unit								Percent	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.								84 55	14 14	29 29	37 8	37 8	44 15	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	18	19	20	21	22	23
9	Harness Extra 5.6L (48 oz)							109	99.0	100.0	100.0	99.0	20.0	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	202	99.0	100.0	100.0	99.0	8.0	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	307	99.0	100.0	100.0	99.0	30.0	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B							
	NIS	0.25	% v/v			POST	B							
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	100.0	100.0	99.0	19.3	99.0
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	110	99.0	100.0	100.0	99.0	25.0	99.0
	Harness Extra 5.6L (48 oz)							204	99.0	100.0	100.0	99.0	15.0	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	312	99.0	100.0	100.0	99.0	5.0	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A							
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B							
	NIS	0.25	% v/v			POST	B							
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	100.0	100.0	99.0	15.0	99.0
11	SureStart	28	oz/a			PRE	A	111	95.0	100.0	100.0	99.0		99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	209	99.0	100.0	98.0	99.0	20.0	99.0
	NIS	0.25	% v/v			POST	B	303	99.0	100.0	100.0	99.0	20.0	99.0
	AMS	17	lb/100 gal			POST	B							
								Mean =	97.7	100.0	99.3	99.0	20.0	99.0
12	Integrity	13	oz/a	634	g a/ha	PRE	A	112	99.0	100.0	100.0	99.0	25.0	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	203	99.0	100.0	100.0	99.0	15.0	99.0
	Status	2.5	oz/a	98	g a/ha	POST	B	305	99.0	100.0	96.0	99.0	15.0	99.0
	NIS	0.25	% v/v			POST	B							
	AMS	17	lb/100 gal			POST	B							
								Mean =	99.0	100.0	98.7	99.0	18.3	99.0

Description								Waterhemp	
Rating Date								08-11-09	
Rating Type								Control	
Rating Unit								Percent	
Days After First/Last Applic.								84 55	
Trt-Eval Interval									
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	24
1	Nontreated Check							101 210 309	0.0 0.0 0.0
								Mean =	0.0
2	Lexar	80	oz/a	2750	g a/ha	PRE	A	102 206 310	90.0 90.0 85.0
								Mean =	88.3
3	Harness Extra 5.6L (80 oz)							103	90.0
	Harness	2.17	pt/a	2130	g a/ha	PRE	A	207	85.0
	atrazine	3.13	pt/a	1750	g a/ha	PRE	A	304	95.0
								Mean =	90.0
4	Integrity	20	oz/a	975	g a/ha	PRE	A	104 205 306	90.0 90.0 90.0
								Mean =	90.0
5	Corvus	5.6	oz/a	127	g a/ha	PRE	A	105	90.0
	atrazine	32	oz/a	1120	g a/ha	PRE	A	201 311	90.0 70.0
								Mean =	83.3
6	Sharpen	3	oz/a	75	g a/ha	PRE	A	106	60.0
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A	208 302	80.0 97.0
								Mean =	79.0
7	Integrity	13	oz/a	634	g a/ha	PRE	A	107	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	212	99.0
	NIS	0.25	% v/v			POST	B	301	99.0
	AMS	17	lb/100 gal			POST	B		
								Mean =	99.0
8	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	108	99.0
	Prowl H2O	48	oz/a	1600	g a/ha	PRE	A	211	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	308	99.0
	NIS	0.25	% v/v			POST	B		
	AMS	17	lb/100 gal			POST	B		
								Mean =	99.0

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Description								Waterhemp	
Rating Date								08-11-09	
Rating Type								Control	
Rating Unit								Percent	
Days After First/Last Applic.								84 55	
Trt-Eval Interval									
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	24
9	Harness Extra 5.6L (48 oz)							109	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	202	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A	307	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B		
	NIS	0.25	% v/v			POST	B		
	AMS	17	lb/100 gal			POST	B		
Mean =									99.0
10	Sharpen	2.5	oz/a	62.4	g a/ha	PRE	A	110	99.0
	Harness Extra 5.6L (48 oz)							204	99.0
	Harness	1.3	pt/a	1270	g a/ha	PRE	A	312	99.0
	atrazine	1.88	pt/a	1050	g a/ha	PRE	A		
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B		
	NIS	0.25	% v/v			POST	B		
	AMS	17	lb/100 gal			POST	B		
Mean =									99.0
11	SureStart	28	oz/a			PRE	A	111	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	209	99.0
	NIS	0.25	% v/v			POST	B	303	99.0
	AMS	17	lb/100 gal			POST	B		
Mean =									99.0
12	Integrity	13	oz/a	634	g a/ha	PRE	A	112	99.0
	Roundup PowerMAX	22	oz/a	870	g a/ha	POST	B	203	99.0
	Status	2.5	oz/a	98	g a/ha	POST	B	305	99.0
	NIS	0.25	% v/v			POST	B		
	AMS	17	lb/100 gal			POST	B		
Mean =									99.0

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2009 Kixor / Corn (North) / Weed Control Programs / Medium Soil

Trial ID: 09 CRRL-4 Kixor Demo Protocol ID: 09 CRRL-4 Kixor Demo
Location: Concord, NE Study Director:
Project ID: DEM-H-2009-US-C9F-B-2.0 Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent