2007 Roundup Ready Corn Program with Status, Callisto, SureStart and BAS 756

Trial ID: 07CRRLL-1 Protocol ID: 07CRRLL-1
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 35A34 RRLL
BBCH Scale: BCOR **Planting Date:** 05-21-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Harvest Date: 10-30-07 **Harvest Equipment:** Gleaner K
Harvested Width, Unit: 7.5 ft **Harvested Length, Unit:** 27 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:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

	Previous Crops	Previous Pesticides	Year
1.	Soybean	glyphosate	2006

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-11-07	Roundup OriginalMAX	5.5	lbai/ga	sl	32	oz/A

Soil Description

% Sand: 14 **% OM:** 3.2 **Texture:** SILTY CLAY LOAM
% Silt: 56 **pH:** 6.3 **Soil Name:** Kennebec Maskell
% Clay: 30 **CEC:** 16.2 **Fert. Level:** EXCELLENT

Application Description

	A	B	C	D
Application Date:	05-23-07	06-15-07	06-23-07	07-02-07
Time of Day:	4:30 pm	12:30 pm	12:30 pm	4:00 pm
Application Method:	spray	spray	spray	spray
Application Timing:	PRE	EPOST	MPOST	LPOST
Application Placement:	surface	foliar	foliar	foliar
Air Temperature, Unit:	73 f	85 f	75 f	92 f
% Relative Humidity:	42	53	72	48
Wind Velocity, Unit:	3 mph	3 mph	3 mph	3 mph
Wind Direction:	nw	s	se	s
Dew Presence (Y/N):	n	n	n	n
Soil Temperature, Unit:	70 f	72 f	72 f	80 f
Soil Moisture:	wet	adequate	wet	dry
% Cloud Cover:	75	75	30	75

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH	BBCH
Stage Majority, Percent:		V4	V6	V9
Height, Unit:		6 in	10 in	20 in

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W	SETVI W
Height, Unit:		4 in	7 in	9 in
Height Minimum, Maximum:		2 6	4 10	6 12
Density, Unit:		2 m2	2 m2	2 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W	AMATU W
Height, Unit:		6 in	12 in	18 in
Height Minimum, Maximum:		2 10	4 18	
Density, Unit:		5 m2	5 m2	
Pest 3 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		3 in	6 in	10 in
Height Minimum, Maximum:		2 4	3 8	
Density, Unit:		1 m2	1 m2	

Application Equipment

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

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

Northeast Research & Extension Center

2007 Roundup Ready Corn Program with Status, Callisto, SureStart and BAS 756

Trial ID: 07CRRLL-1 Protocol ID: 07CRRLL-1
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Corn, field 10-30-07 Yield@15.5% bu/A	Corn, field 10-30-07 Moisture %	Corn, field 06-23-07 Stunting %	Corn, field 07-02-07 Stunting %	Corn, field 07-25-07 Lodge %	Green foxtail 06-23-07 Control Percent
	Days After First/Last Applic.						160 120	160 120	31 0	40 0	63 23	31 0
	Trt-Eval Interval						160 DA-A	160 DA-A				
	Plant-Eval Interval						162 DP-1	162 DP-1	33 DP-1	42 DP-1	65 DP-1	33 DP-1
1	Nontreated Check						73.5 a	14.9 a	0.0 a	0.0 a	0.7 a	0.0 c
2	SureStart	1.75	pt/a			PRE	114.0 a	14.9 a	0.0 a	0.0 a	0.3 a	91.7 b
	Durango	24	oz/a			LPOST						
	Ammonium Sulfate	2.5	lb/a	12.5	lb/100 gal	LPOST						
3	SureStart	1.75	pt/a			EPOST	110.6 a	15.1 a	3.3 a	0.0 a	0.7 a	99.0 a
	Durango	24	oz/a			EPOST						
	Ammonium Sulfate	2.5	lb/a	12.5	lb/100 gal	EPOST						
4	Roundup WeatherMAX	22	oz/a			MPOST	116.3 a	14.9 a		0.0 a	7.7 a	
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
5	Roundup WeatherMAX	22	oz/a			LPOST	102.1 a	15.0 a		0.0 a	1.7 a	
	Ammonium Sulfate	8.5	lb/100 gal			LPOST						
6	Roundup WeatherMAX	22	oz/a			MPOST	116.6 a	15.3 a		0.0 a	2.0 a	
	Status	2.5	oz/a			MPOST						
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
7	Roundup WeatherMAX	22	oz/a			MPOST	107.3 a	15.0 a		0.0 a	3.3 a	
	Callisto	1.5	oz/a			MPOST						
	Atrazine	1	pt/a	0.5	lb a/a	MPOST						
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
8	BAS 756	2.5	pt/a			MPOST	107.3 a	14.8 a		0.0 a	5.0 a	
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
9	BAS 756	2.5	pt/a			MPOST	105.9 a	14.7 a		0.0 a	6.7 a	
	NIS	0.125	% v/v	1	pt/100 gal	MPOST						
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
LSD (P=.05)							25.67	0.54	3.78	0.00	5.23	3.78
Standard Deviation							14.83	0.31	1.67	0.00	3.02	1.67
CV							14.0	2.1	150.0	0.0	97.1	2.62
Grand Mean							105.96	14.95	1.11	0.0	3.11	63.56
Replicate F							0.485	0.747	1.000	0.000	0.146	1.000
Replicate Prob(F)							0.6244	0.4894	0.4444	1.0000	0.8652	0.4444
Treatment F							2.347	0.899	4.000	0.000	2.466	3286.360
Treatment Prob(F)							0.0697	0.5398	0.1111	1.0000	0.0592	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.

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Description							Green foxtail	Green foxtail	Green foxtail	Waterhemp	Waterhemp	Waterhemp
Rating Date							07-02-07	07-25-07	07-25-07	06-23-07	07-02-07	07-25-07
Rating Data Type							Control	Control	Density	Control	Control	Control
Rating Unit							Percent	Percent	m2 RunCH	Percent	Percent	Percent
Days After First/Last Applic.							40 0	63 23	63 23	31 0	40 0	63 23
Trt-Eval Interval												
Plant-Eval Interval							42 DP-1	65 DP-1	65 DP-1	33 DP-1	42 DP-1	65 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage						
1	Nontreated Check						0.0 c	0.0 b	3.7 a	0.0 b	0.0 c	0.0 b
2	SureStart	1.75	pt/a			PRE	86.7 b	99.0 a	2.0 a	96.0 a	92.7 ab	99.0 a
	Durango	24	oz/a			LPOST						
	Ammonium Sulfate	2.5	lb/a	12.5	lb/100 gal	LPOST						
3	SureStart	1.75	pt/a			EPOST	99.0 a	99.0 a	5.0 a	99.0 a	99.0 a	99.0 a
	Durango	24	oz/a			EPOST						
	Ammonium Sulfate	2.5	lb/a	12.5	lb/100 gal	EPOST						
4	Roundup WeatherMAX	22	oz/a			MPOST	99.0 a	99.0 a	2.5 a		96.0 ab	99.0 a
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
5	Roundup WeatherMAX	22	oz/a			LPOST	0.0 c	99.0 a	6.7 a		0.0 c	99.0 a
	Ammonium Sulfate	8.5	lb/100 gal			LPOST						
6	Roundup WeatherMAX	22	oz/a			MPOST	99.0 a	99.0 a	3.0 a		99.0 a	99.0 a
	Status	2.5	oz/a			MPOST						
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
7	Roundup WeatherMAX	22	oz/a			MPOST	99.0 a	99.0 a	4.3 a		97.7 a	99.0 a
	Callisto	1.5	oz/a			MPOST						
	Atrazine	1	pt/a	0.5	lb a/a	MPOST						
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
8	BAS 756	2.5	pt/a			MPOST	99.0 a	99.0 a	5.7 a		97.7 a	99.0 a
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
9	BAS 756	2.5	pt/a			MPOST	99.0 a	99.0 a	5.0 a		88.3 b	99.0 a
	NIS	0.125	% v/v	1	pt/100 gal	MPOST						
	Ammonium Sulfate	8.5	lb/100 gal			MPOST						
LSD (P=.05)							3.33	0.00	4.50	6.80	8.67	0.00
Standard Deviation							1.92	0.00	2.55	3.00	5.01	0.00
CV							2.54	0.0	60.64	4.62	6.72	0.0
Grand Mean							75.63	88.0	4.2	65.0	74.48	88.0
Replicate F							1.000	0.000	2.669	1.000	0.631	0.000
Replicate Prob(F)							0.3897	1.0000	0.1069	0.4444	0.5448	1.0000
Treatment F							1502.403	0.000	1.096	1057.000	214.813	0.000
Treatment Prob(F)							0.0001	1.0000	0.4239	0.0001	0.0001	1.0000

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Northeast Research & Extension Center

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Waterhemp 07-25-07 Density m2 RunCH 63 23 65 DP-1	Velvetleaf 06-23-07 Control Percent 31 0 33 DP-1	Velvetleaf 07-02-07 Control Percent 40 0 42 DP-1	Velvetleaf 07-25-07 Control Percent 63 23 65 DP-1	Velvetleaf 07-25-07 Density m2 RunCH 63 23 65 DP-1
1	Nontreated Check						4.3 a	0.0 b	0.0 d	0.0 b	1.0 a
2	SureStart	1.75	pt/a			PRE	3.0 a	93.0 a	93.0 b	99.0 a	1.0 a
	Durango	24	oz/a			LPOST					
	Ammonium Sulfate	2.5	lb/a	12.5	lb/100 gal	LPOST					
3	SureStart	1.75	pt/a			EPOST	8.3 a	99.0 a	99.0 a	99.0 a	1.0 a
	Durango	24	oz/a			EPOST					
	Ammonium Sulfate	2.5	lb/a	12.5	lb/100 gal	EPOST					
4	Roundup WeatherMAX	22	oz/a			MPOST	2.5 a		98.7 a	99.0 a	1.0 a
	Ammonium Sulfate	8.5	lb/100 gal			MPOST					
5	Roundup WeatherMAX	22	oz/a			LPOST	5.0 a		0.0 d	99.0 a	1.0 a
	Ammonium Sulfate	8.5	lb/100 gal			LPOST					
6	Roundup WeatherMAX	22	oz/a			MPOST	5.0 a		99.0 a	99.0 a	1.0 a
	Status	2.5	oz/a			MPOST					
	Ammonium Sulfate	8.5	lb/100 gal			MPOST					
7	Roundup WeatherMAX	22	oz/a			MPOST	5.3 a		99.0 a	99.0 a	1.0 a
	Callisto	1.5	oz/a			MPOST					
	Atrazine	1	pt/a	0.5	lb a/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal			MPOST					
8	BAS 756	2.5	pt/a			MPOST	4.0 a		96.0 ab	99.0 a	1.0 a
	Ammonium Sulfate	8.5	lb/100 gal			MPOST					
9	BAS 756	2.5	pt/a			MPOST	3.5 a		86.7 c	99.0 a	1.0 a
	NIS	0.125	% v/v	1	pt/100 gal	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal			MPOST					
LSD (P=.05)							4.43	6.80	5.65	0.00	0.00
Standard Deviation							2.51	3.00	3.27	0.00	0.00
CV							55.11	4.69	4.38	0.0	0.0
Grand Mean							4.56	64.0	74.59	88.0	1.0
Replicate F							3.733	1.000	0.222	0.000	0.000
Replicate Prob(F)							0.0524	0.4444	0.8031	1.0000	1.0000
Treatment F							1.391	1027.000	507.797	0.000	0.000
Treatment Prob(F)							0.2864	0.0001	0.0001	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)
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Additional Treatment Information
Treatment Name
Ammonium Sulfate = |
Rate Unit
PT/A = Pints Product per Acre (Metric=L/HA)|P
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
LB/A = Pounds Dry Product per Acre (Metric=KG/10A)|AH
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
Other Rate Unit
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix
LB A/A = Pounds Active Ingredient per Acre
PT/100 GAL = Pints Product per 100 Gallons Mix

2007 Balance / Liberty / Option / Radius / Corn / Performance Weed Control

Trial ID: 07CRRLL-2 Protocol ID: 07
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 35A34 RRLL
BBCH Scale: BCOR **Planting Date:** 05-21-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Harvest Date: 10-30-07 **Harvest Equipment:** Gleaner K
Harvested Width, Unit: 7.5 ft **Harvested Length, Unit:** 27 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:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-11-07	Roundup OriginalMAX	5.5	lbai/ga	sl	32	oz/A

Soil Description

% Sand: 14 **% OM:** 3.2 **Texture:** SILTY CLAY LOAM
% Silt: 56 **pH:** 6.3 **Soil Name:** Kennebec Maskell
% Clay: 30 **CEC:** 16.2 **Fert. Level:** EXCELLENT

Application Description

	A	B
Application Date:	05-23-07	06-23-07
Time of Day:	4:30 pm	12:30 pm
Application Method:	spray	spray
Application Timing:	PRE	MPOST
Application Placement:	surface	foliar
Air Temperature, Unit:	73 f	75 f
% Relative Humidity:	42	72
Wind Velocity, Unit:	3 mph	3 mph
Wind Direction:	nw	se
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	70 f	70 f
Soil Moisture:	wet	wet
% Cloud Cover:	75	30

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		v6
Height, Unit:		10 in

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W
Height, Unit:		6 in
Height Minimum, Maximum:		4 10
Density, Unit:		1 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W
Height, Unit:		12 in
Height Minimum, Maximum:		4 18
Density, Unit:		5 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

2007 Balance / Liberty / Option / Radius / Corn / Performance Weed Control

Trial ID: 07CRRLL-2 Protocol ID: 07
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Corn, field 10-30-07 Yield@15.5% bu/A	Corn, field 10-30-07 Moisture %	Corn, field 06-23-07 Stunting %	Corn, field 07-02-07 Stunting %	Corn, field 07-25-07 Stunting %	Green foxtail 06-23-07 Control Percent	Green foxtail 07-02-07 Control Percent	Green foxtail 07-25-07 Control Percent
	Days After First/Last Applic.				160 129	160 129	31 0	40 9	63 32	31 0	40 9	63 32
	Trt-Eval Interval											
	Plant-Eval Interval				162 DP-1	162 DP-1	33 DP-1	42 DP-1	65 DP-1	33 DP-1	42 DP-1	65 DP-1
1	Nontreated Check				28.9 b	12.9 b	0.0 a	0.0 a	0.0 a	0.0 d	0.0 c	0.0 c
2	Radius	23	oz/a	PRE	127.7 a	15.4 a	3.3 a	3.3 a	0.0 a	99.0 a	99.0 a	98.7 a
3	Radius	23	oz/a	PRE	120.1 a	15.5 a	1.7 a	0.0 a	0.0 a	99.0 a	99.0 a	98.7 a
	Atrazine	2	pt/a	PRE								
4	Balance Pro	2.5	oz/a	PRE	115.1 a	15.1 a	0.0 a	0.0 a	0.0 a	97.7 ab	93.3 b	94.0 b
	atrazine	1	qt/a	PRE								
5	Balance Pro	1.5	oz/a	PRE	119.0 a	15.2 a	0.0 a	0.0 a	0.0 a	80.0 c	99.0 a	99.0 a
	Liberty	32	pt/a	MPOST								
	atrazine	1	pt/a	MPOST								
	Ammonium Sulfate	8.5	lb/100 gal	MPOST								
6	Balance Pro	1.5	oz/a	PRE	116.2 a	15.0 a	0.0 a	0.0 a	0.0 a	86.7 c	91.7 b	96.0 ab
	Option	1.5	oz/a	MPOST								
	MSO	1.5	pt/a	MPOST								
	28% Nitrogen	1.5	qt/a	MPOST								
7	Balance Pro	2.25	oz/a	PRE	117.9 a	15.3 a	0.0 a	0.0 a	0.0 a	89.7 abc	94.7 b	96.0 ab
	Laudis	3	oz/a	MPOST								
	MSO	1.5	pt/a	MPOST								
	28% Nitrogen	1.5	qt/a	MPOST								
8	Balance Pro	1.5	oz/a	PRE	127.4 a	15.2 a	1.7 a	0.0 a	0.0 a	88.3 bc	99.0 a	99.0 a
	Atrazine	1	pt/a	PRE								
	Roundup Original MAX	22	oz/a	MPOST								
	Ammonium Sulfate	8.5	lb/100 gal	MPOST								
LSD (P=.05)					13.11	0.90	4.33	3.58	0.00	9.83	3.89	3.57
Standard Deviation					7.49	0.51	2.47	2.04	0.00	5.61	2.22	2.04
CV					6.87	3.44	296.41	489.9	0.0	7.01	2.63	2.4
Grand Mean					109.03	14.96	0.83	0.42	0.0	80.04	84.46	85.17
Replicate F					6.114	1.222	1.195	1.000	0.000	2.115	0.516	3.495
Replicate Prob(F)					0.0123	0.3241	0.3317	0.3927	1.0000	0.1576	0.6076	0.0587
Treatment F					57.333	7.941	0.780	1.000	0.000	103.887	715.123	856.309
Treatment Prob(F)					0.0001	0.0006	0.6142	0.4706	1.0000	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.

Northeast Research & Extension Center

Description				Green foxtail	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date				07-25-07	06-23-07	07-02-07	07-25-07	07-25-07
Rating Data Type				Density	Control	Control	Control	Density
Rating Unit				m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.				63 32	31 0	40 9	63 32	63 32
Trt-Eval Interval								
Plant-Eval Interval				65 DP-1	33 DP-1	42 DP-1	65 DP-1	65 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage				
1	Nontreated Check				6.7 a	0.0 b	0.0 b	0.0 b	25.0 a
2	Radius	23	oz/a	PRE	6.7 a	99.0 a	99.0 a	99.0 a	20.0 ab
3	Radius	23	oz/a	PRE	11.7 a	99.0 a	99.0 a	99.0 a	13.3 bc
	Atrazine	2	pt/a	PRE					
4	Balance Pro	2.5	oz/a	PRE	10.0 a	97.7 a	97.7 a	99.0 a	18.3 abc
	atrazine	1	qt/a	PRE					
5	Balance Pro	1.5	oz/a	PRE	6.7 a	93.0 a	99.0 a	99.0 a	20.0 ab
	Liberty	32	pt/a	MPOST					
	atrazine	1	pt/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal	MPOST					
6	Balance Pro	1.5	oz/a	PRE	8.3 a	92.7 a	89.3 a	94.3 a	10.0 c
	Option	1.5	oz/a	MPOST					
	MSO	1.5	pt/a	MPOST					
	28% Nitrogen	1.5	qt/a	MPOST					
7	Balance Pro	2.25	oz/a	PRE	11.7 a	96.0 a	98.7 a	99.0 a	11.7 bc
	Laudis	3	oz/a	MPOST					
	MSO	1.5	pt/a	MPOST					
	28% Nitrogen	1.5	qt/a	MPOST					
8	Balance Pro	1.5	oz/a	PRE	7.3 a	99.0 a	99.0 a	99.0 a	13.3 bc
	Atrazine	1	pt/a	PRE					
	Roundup Original MAX	22	oz/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal	MPOST					
LSD (P=.05)					8.33	8.04	10.30	5.01	9.16
Standard Deviation					4.76	4.59	5.88	2.86	5.23
CV					55.16	5.43	6.9	3.32	31.79
Grand Mean					8.63	84.54	85.21	86.04	16.46
Replicate F					3.882	1.527	1.274	1.000	4.261
Replicate Prob(F)					0.0456	0.2513	0.3102	0.3927	0.0359
Treatment F					0.637	167.096	103.836	444.985	2.908
Treatment Prob(F)					0.7189	0.0001	0.0001	0.0001	0.0423

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.

Additional Treatment Information
Treatment Name
Ammonium Sulfate = |
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
PT/A = Pints Product per Acre (Metric=L/HA)|P
QT/A = Quarts Product per Acre (Metric=L/HA)|Q
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]

2007 Laudis / Liberty / Corn / Performance Weed Control

Trial ID: 07CRRLL-3 Protocol ID: 07
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 35A34 RRLL
BBCH Scale: BCOR **Planting Date:** 05-21-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Harvest Date: 10-30-07 **Harvest Equipment:** Gleaner K
Harvested Width, Unit: 7.5 ft **Harvested Length, Unit:** 27 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:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-11-07	Roundup OriginalMAX	5.5	lbai/ga	sl	32	oz/A

Soil Description

% Sand: 14 **% OM:** 3.2 **Texture:** SILTY CLAY LOAM
% Silt: 56 **pH:** 6.3 **Soil Name:** Kennebec Maskell
% Clay: 30 **CEC:** 16.2 **Fert. Level:** EXCELLENT

Application Description

	A	B	C
Application Date:	05-23-07	06-15-07	06-23-07
Time of Day:	4:30 pm	12:30 pm	12:30 pm
Application Method:	spray	spray	spray
Application Timing:	PRE	EPOST	MPOST
Application Placement:	surface	foliar	foliar
Air Temperature, Unit:	73 f	85 f	75 f
% Relative Humidity:	42	53	72
Wind Velocity, Unit:	3 mph	3 mph	3 mph
Wind Direction:	nw	s	se
Dew Presence (Y/N):	n	n	n
Soil Temperature, Unit:	70 f	72 f	70 f
Soil Moisture:	wet	adequate	wet
% Cloud Cover:	75	75	30

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		v4	v6
Height, Unit:		6 in	10 in

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W
Height, Unit:		3 in	6 in
Height Minimum, Maximum:		2 6	4 10
Density, Unit:		1 m2	1 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W
Height, Unit:		6 in	12 in
Height Minimum, Maximum:		2 10	4 18
Density, Unit:		5 m2	5 m2

Application Equipment

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

Northeast Research & Extension Center

2007 Laudis / Liberty / Corn / Performance Weed Control

Trial ID: 07CRRLL-3 Protocol ID: 07
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Corn, field 10-30-07 Yield@15.5% bu/A	Corn, field 10-30-07 Moisture %	Corn, field 06-23-07 Stunting %	Corn, field 07-02-07 Stunting %	Corn, field 07-25-07 Lodge %	Green foxtail 06-23-07 Control Percent	Green foxtail 07-02-07 Control Percent	Green foxtail 07-25-07 Control Percent
	Days After First/Last Applic.				160 129	160 129	31 0	40 9	63 32	31 0	40 0	63 23
	Trt-Eval Interval											
	Plant-Eval Interval				162 DP-1	162 DP-1	33 DP-1	42 DP-1	65 DP-1	33 DP-1	42 DP-1	65 DP-1
1	Nontreated Check				67.8 c	14.7 c	0.0 a	0.0 a	0.3 a	0.0 d	0.0 d	0.0 e
2	Balance Pro	1.5	oz/a	PRE	134.7 a	15.5 a	0.0 a	0.0 a	0.0 a	85.0 b	88.3 b	81.7 b
	Laudis	3	oz/a	MPOST								
	Atrazine	1	qt/a	MPOST								
	COC	1	% v/v	MPOST								
	28% Nitrogen	1.5	qt/a	MPOST								
3	Balance Pro	1.5	oz/a	PRE	127.1 ab	15.3 ab	0.0 a	0.0 a	0.0 a	92.5 ab	97.7 a	98.3 a
	Atrazine	1	qt/a	PRE								
	Laudis	3	oz/a	MPOST								
	MSO	1	% v/v	MPOST								
	28% Nitrogen	1.5	qt/a	MPOST								
4	Laudis	2	oz/a	MPOST	120.3 ab	15.3 ab	0.0 a	0.0 a	4.0 a	99.0 a	98.7 a	97.3 a
	Liberty	32	oz/a	MPOST								
	Ammonium Sulfate	8.5	lb/100 gal	MPOST								
5	Liberty	32	oz/a	MPOST	111.5 b	15.4 ab		0.0 a	0.7 a		99.0 a	98.7 a
	Atrazine	1	qt/a	MPOST								
	Ammonium Sulfate	8.5	lb/100 gal	MPOST								
6	Laudis	3	oz/a	MPOST	122.3 ab	15.4 ab		0.0 a	3.7 a		99.0 a	99.0 a
	Roundup Original MAX	22	oz/a	MPOST								
	Ammonium Sulfate	8.5	lb/100 gal	MPOST								
7	Roundup Original MAX	22	oz/a	MPOST	124.0 ab	15.3 b		0.0 a	1.0 a		99.0 a	98.7 a
	Atrazine	1	qt/a	MPOST								
	Ammonium Sulfate	8.5	lb/100 gal	MPOST								
8	Laudis	3	oz/a	EPOST	130.1 a	15.4 ab	0.0 a	0.0 a	0.3 a	53.3 c	85.0 b	71.7 c
	Accent	0.33	oz/a	EPOST								
	MSO	1	% v/v	EPOST								
	28% Nitrogen	1.5	qt/a	EPOST								
9	Laudis	3	oz/a	EPOST	121.5 ab	15.3 ab	0.0 a	0.0 a	0.0 a	53.3 c	63.3 c	53.3 d
	MSO	1	% v/v	EPOST								
	28% Nitrogen	1.5	qt/a	EPOST								
LSD (P=.05)					17.69	0.22	0.00	0.00	4.53	11.27	5.14	8.41
Standard Deviation					10.22	0.12	0.00	0.00	2.62	5.64	2.97	4.86
CV					8.68	0.82	0.0	0.0	235.74	8.83	3.66	6.26
Grand Mean					117.69	15.3	0.0	0.0	1.11	63.86	81.11	77.63
Replicate F					1.941	1.854	0.000	0.000	1.231	0.076	0.202	0.735
Replicate Prob(F)					0.1759	0.1887	1.0000	1.0000	0.3183	0.9274	0.8195	0.4948
Treatment F					11.277	10.796	0.000	0.000	1.093	128.218	361.616	140.142
Treatment Prob(F)					0.0001	0.0001	1.0000	1.0000	0.4161	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.

Northeast Research & Extension Center

Description				Green foxtail	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date				07-25-07	06-23-07	07-02-07	07-25-07	07-25-07
Rating Data Type				Density	Control	Control	Control	Density
Rating Unit				m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.				63 23	31 0	40 0	63 23	63 32
Trt-Eval Interval								
Plant-Eval Interval				65 DP-1	33 DP-1	42 DP-1	65 DP-1	65 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage				
1	Nontreated Check				5.0 bc	0.0 c	0.0 d	0.0 d	16.7 a
2	Balance Pro	1.5	oz/a	PRE	15.0 a	97.7 a	99.0 a	99.0 a	15.0 a
	Laudis	3	oz/a	MPOST					
	Atrazine	1	qt/a	MPOST					
	COC	1	% v/v	MPOST					
	28% Nitrogen	1.5	qt/a	MPOST					
3	Balance Pro	1.5	oz/a	PRE	10.0 ab	99.0 a	99.0 a	99.0 a	25.0 a
	Atrazine	1	qt/a	PRE					
	Laudis	3	oz/a	MPOST					
	MSO	1	% v/v	MPOST					
	28% Nitrogen	1.5	qt/a	MPOST					
4	Laudis	2	oz/a	MPOST	5.0 bc	99.0 a	95.0 bc	91.7 c	21.7 a
	Liberty	32	oz/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal	MPOST					
5	Liberty	32	oz/a	MPOST	5.0 bc		93.3 c	96.0 ab	36.7 a
	Atrazine	1	qt/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal	MPOST					
6	Laudis	3	oz/a	MPOST	3.7 c		98.7 a	99.0 a	18.3 a
	Roundup Original MAX	22	oz/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal	MPOST					
7	Roundup Original MAX	22	oz/a	MPOST	6.7 bc		97.3 ab	98.3 ab	11.7 a
	Atrazine	1	qt/a	MPOST					
	Ammonium Sulfate	8.5	lb/100 gal	MPOST					
8	Laudis	3	oz/a	EPOST	6.7 bc	60.0 b	98.7 a	99.0 a	25.0 a
	Accent	0.33	oz/a	EPOST					
	MSO	1	% v/v	EPOST					
	28% Nitrogen	1.5	qt/a	EPOST					
9	Laudis	3	oz/a	EPOST	5.0 bc	56.7 b	99.0 a	94.7 bc	13.3 a
	MSO	1	% v/v	EPOST					
	28% Nitrogen	1.5	qt/a	EPOST					
LSD (P=.05)					5.91	11.98	3.37	4.07	17.03
Standard Deviation					3.40	5.99	1.95	2.35	9.79
CV					49.31	8.72	2.25	2.73	48.05
Grand Mean					6.89	68.72	86.67	86.3	20.37
Replicate F					2.725	0.860	0.264	2.294	0.068
Replicate Prob(F)					0.0979	0.4695	0.7715	0.1330	0.9349
Treatment F					3.257	127.185	838.989	570.965	1.887
Treatment Prob(F)					0.0233	0.0001	0.0001	0.0001	0.1376

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.

Additional Treatment Information
Treatment Name
Ammonium Sulfate = |
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
QT/A = Quarts Product per Acre (Metric=L/HA)|Q
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]

2007 Conventional Corn herbicide Programs

Trial ID: 07CRRLL-4 Protocol ID: 07
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 35A34 RRLL
BBCH Scale: BCOR **Planting Date:** 05-21-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Harvest Date: 10-30-07 **Harvest Equipment:** Gleaner K
Harvested Width, Unit: 7.5 ft **Harvested Length, Unit:** 27 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:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

	Previous Crops	Previous Pesticides	Year
1.	Soybean	glyphosate	2006

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-11-07	Roundup OriginalMAX	5.5	lbai/ga	sl	32	oz/A

Soil Description

% Sand: 14 **% OM:** 3.2 **Texture:** SILTY CLAY LOAM
% Silt: 56 **pH:** 6.3 **Soil Name:** Kennebec Maskell
% Clay: 30 **CEC:** 16.2 **Fert. Level:** EXCELLENT

Application Description

	A	B
Application Date:	05-23-07	06-15-07
Time of Day:	4:30 pm	12:30 pm
Application Method:	spray	spray
Application Timing:	PRE	EPOST
Application Placement:	surface	foliar
Air Temperature, Unit:	73 f	85 f
% Relative Humidity:	42	53
Wind Velocity, Unit:	3 mph	3 mph
Wind Direction:	nw	s
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	70 f	72 f
Soil Moisture:	wet	adequate
% Cloud Cover:	75	75

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		v4
Height, Unit:		6 in

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W
Height, Unit:		3 in
Height Minimum, Maximum:		2 6
Density, Unit:		1 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W
Height, Unit:		6 in
Height Minimum, Maximum:		2 10
Density, Unit:		5 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

Date **By** **Notes**

There was no crop injury in this trial. Slight lodging occured. Reported percent plants root lodged at least 30%.

Northeast Research & Extension Center

2007 Conventional Corn herbicide Programs

Trial ID: 07CRRLL-4 Protocol ID: 07
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Corn, field 10-30-07 Yield@15.5% bu/A 160 137 162 DP-1	Corn, field 10-30-07 Moisture % 160 137 162 DP-1	Corn, field 07-25-07 Lodge percent 63 40 65 DP-1	Green foxtail 06-23-07 Control percent 31 8 33 DP-1	Green foxtail 07-02-07 Control percent 40 17 42 DP-1	Green foxtail 07-25-07 Control percent 63 40 65 DP-1	Green foxtail 07-25-07 Density m2 RunCH 63 40 65 DP-1
1	Nontreated Check						63.6 c	15.0 a	0.0 a	0.0 b	0.0 b	0.0 b	8.3 a
2	Lexar	3	qt/a			PRE	123.4 b	15.5 a	0.0 a	93.3 a	91.7 a	91.7 a	6.7 a
3	Lumax	2.5	qt/a			PRE	126.8 ab	15.5 a	0.0 a	97.7 a	96.3 a	95.0 a	6.7 a
	Atrazine	1	pt/a	0.5	lb a/a	PRE							
4	Bicep II Magnum	2.1	qt/a			PRE	136.4 a	15.6 a	0.7 a	96.3 a	94.7 a	93.0 a	5.0 a
	Callisto	3	oz/a			EPOST							
	Atrazine	1	pt/a	0.5	lb a/a	EPOST							
	COC	1	% v/v			EPOST							
5	Lexar	2	qt/a			PRE	133.7 ab	15.6 a	1.0 a	96.0 a	91.3 a	92.7 a	8.3 a
	Lexar	1	qt/a			EPOST							
6	Degree Xtra	3	qt/a			PRE	135.9 ab	15.5 a	0.3 a	96.3 a	88.3 a	96.3 a	6.7 a
	Hornet	3.2	oz/a			PRE							
7	Bicep II Magnum	2.1	qt/a			PRE	132.2 ab	15.4 a	1.0 a	93.0 a	91.3 a	93.0 a	8.3 a
	Spirit	1	oz/a			EPOST							
	Atrazine	1	pt/a	0.5	lb a/a	EPOST							
	COC	1	% v/v			EPOST							
	Ammonium Sulfate	2	lb/a	10	lb/100 gal	EPOST							
LSD (P=.05)							12.90	0.41	1.75	6.11	9.21	9.50	6.14
Standard Deviation							7.25	0.23	0.98	3.44	5.17	5.34	3.45
CV							5.96	1.5	229.6	4.2	6.54	6.66	48.3
Grand Mean							121.72	15.43	0.43	81.81	79.1	80.24	7.14
Replicate F							0.765	1.442	1.918	0.633	1.207	0.482	0.300
Replicate Prob(F)							0.4869	0.2746	0.1893	0.5478	0.3328	0.6289	0.7462
Treatment F							38.725	2.316	0.656	331.323	137.028	131.850	0.400
Treatment Prob(F)							0.0001	0.1017	0.6862	0.0001	0.0001	0.0001	0.8652

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.

Northeast Research & Extension Center

Description						Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date						06-23-07	07-02-07	07-25-07	07-25-07
Rating Data Type						Control	Control	Control	Density
Rating Unit						percent	percent	percent	m2 RunCH
Days After First/Last Applic.						31 8	40 17	63 40	63 40
Trt-Eval Interval									
Plant-Eval Interval						33 DP-1	42 DP-1	65 DP-1	65 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
1	Nontreated Check						0.0 b	0.0 b	0.0 b	21.7 ab
2	Lexar	3	qt/a			PRE	99.0 a	99.0 a	99.0 a	25.0 a
3	Lumax	2.5	qt/a			PRE	99.0 a	99.0 a	99.0 a	16.7 bc
	Atrazine	1	pt/a	0.5	lb a/a	PRE				
4	Bicep II Magnum	2.1	qt/a			PRE	99.0 a	99.0 a	99.0 a	26.7 a
	Callisto	3	oz/a			EPOST				
	Atrazine	1	pt/a	0.5	lb a/a	EPOST				
	COC	1	% v/v			EPOST				
5	Lexar	2	qt/a			PRE	99.0 a	99.0 a	99.0 a	13.3 c
	Lexar	1	qt/a			EPOST				
6	Degree Xtra	3	qt/a			PRE	99.0 a	99.0 a	99.0 a	21.7 ab
	Hornet	3.2	oz/a			PRE				
7	Bicep II Magnum	2.1	qt/a			PRE	99.0 a	99.0 a	99.0 a	21.7 ab
	Spirit	1	oz/a			EPOST				
	Atrazine	1	pt/a	0.5	lb a/a	EPOST				
	COC	1	% v/v			EPOST				
	Ammonium Sulfate	2	lb/a	10	lb/100 gal	EPOST				
LSD (P=.05)							0.00	0.00	0.00	7.09
Standard Deviation							0.00	0.00	0.00	3.98
CV							0.0	0.0	0.0	19.02
Grand Mean							84.86	84.86	84.86	20.95
Replicate F							0.000	0.000	0.000	0.300
Replicate Prob(F)							1.0000	1.0000	1.0000	0.7462
Treatment F							0.000	0.000	0.000	4.000
Treatment Prob(F)							1.0000	1.0000	1.0000	0.0197

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.

Additional Treatment Information
Treatment Name
Ammonium Sulfate = |
Rate Unit
QT/A = Quarts Product per Acre (Metric=L/HA)|Q
PT/A = Pints Product per Acre (Metric=L/HA)|P
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
LB/A = Pounds Dry Product per Acre (Metric=KG/10A)|AH
Other Rate Unit
LB A/A = Pounds Active Ingredient per Acre
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix

2007 Program approaches with new isoxadifen product blends with Steadfast, Stout, Resolve and Rim/dicamba blends.
Trial ID: 07 CRR-5 Protocol ID:
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb DK 60-19 RR
BBCH Scale: BCOR **Planting Date:** 05-19-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Harvest Date: 10-31-07 **Harvest Equipment:** Gleaner K
Harvested Width, Unit: 7.5 ft **Harvested Length, Unit:** 27 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:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-11-07	Roundup OriginalMAX	5.5	lbai/ga	SL	32	oz/A

Soil Description

% Sand: 12 **% OM:** 3.6 **Texture:** SILTY CLAY LOAM
% Silt: 58 **pH:** 7 **Soil Name:** COLO
% Clay: 30 **CEC:** 22.7 **Fert. Level:** FAIR

Application Description

	A	B
Application Date:	05-23-07	06-10-07
Time of Day:	5:45 pm	2 pm
Application Method:	spray	spray
Application Timing:	PRE	POST
Application Placement:	surface	foliar
Air Temperature, Unit:	73 f	94 f
% Relative Humidity:	50	34
Wind Velocity, Unit:	2.5 mph	8 mph
Wind Direction:	w	sw
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	68 f	
Soil Moisture:	wet	adequate
% Cloud Cover:	95	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		v2-v3
Stage Minimum, Percent:		v2 50
Stage Maximum, Percent:		v3 50
Height, Unit:		4 in
Height Minimum, Maximum:		3 5

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W
Stage Majority, Percent:		4L 40
Stage Minimum, Percent:		2L 30
Stage Maximum, Percent:		8L 30
Height, Unit:		3 in
Height Minimum, Maximum:		1 5
Density, Unit:		20 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W
Stage Majority, Percent:		4tl
Height, Unit:		2 in
Height Minimum, Maximum:		1 3
Density, Unit:		1 m2
Pest 3 Code, Disc., Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		2tl
Height, Unit:		2 in
Height Minimum, Maximum:		1 3
Density, Unit:		1 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 L	1.8 L
Propellant:	co2	co2

Date **By** **Deviations**
06-10-07 js Treatments 9 and 14 were changed from Liberty to Roundup
Reasons: Irrigation specialist requested extra fertilizer that shorted the corn herb area. To ensure even fertilizer the trial was changed to a different field without the RRLL stack.

Northeast Research & Extension Center

2007 Program approaches with new isoxadifen product blends with Steadfast, Stout, Resolve and Rim/dicamba blends.
Trial ID: 07 CRR-5 Protocol ID:
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Corn 10-31-07 Yield@15.5% bu/A 161 143 165 DP-1	Corn 10-31-07 Moisture % 161 143 165 DP-1	Corn 06-10-07 Injury Percent 18 0 22 DP-1	Corn 06-24-07 Injury Percent 32 14 36 DP-1	Corn 07-08-07 Injury Percent 46 28 50 DP-1	Green Foxtail 06-10-07 Control Percent 18 0 22 DP-1	Green Foxtail 07-08-07 Control Percent 46 28 50 DP-1
1	DPX-E9636	0.25	oz a/a	1	oz/a	POST	160.2 a	13.5 a	0.0 a	0.0 a	0.0 a	0.0 d	86.3 a
	Accent	0.375	oz a/a	0.5	oz/a	POST							
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST							
	Impact	0.175	oz a/a	0.5	oz/a	POST							
	Atrazine	8	oz a/a	8.9	oz/a	POST							
	MSO	1	% v/v	25.6	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
2	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	163.0 a	13.4 a	0.0 a	0.0 a	0.0 a	60.0 bc	95.0 a
	DPX-E9636	0.25	oz a/a	1	oz/a	POST							
	Accent	0.375	oz a/a	0.5	oz/a	POST							
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST							
	Impact	0.175	oz a/a	0.5	oz/a	POST							
	Atrazine	8	oz a/a	8.9	oz/a	POST							
	MSO	1	% v/v	25.6	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
3	Accent	0.5	oz a/a	0.67	oz/a	POST	160.2 a	13.4 a	0.0 a	0.0 a	0.0 a	0.0 d	91.7 a
	Harmony GT	0.06	oz a/a	0.12	oz/a	POST							
	Isoxadifen-ethyl	0.1	oz a/a	0.2	oz/a	POST							
	Impact	0.175	oz a/a	0.5	oz/a	POST							
	Atrazine	8	oz a/a	8.9	oz/a	POST							
	MSO	1	% v/v	25.6	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
4	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	164.6 a	13.5 a	0.0 a	0.0 a	0.0 a	60.0 bc	86.7 a
	Accent	0.5	oz a/a	0.67	oz/a	POST							
	Harmony GT	0.06	oz a/a	0.12	oz/a	POST							
	Isoxadifen-ethyl	0.1	oz a/a	0.2	oz/a	POST							
	Impact	0.175	oz a/a	0.5	oz/a	POST							
	Atrazine	8	oz a/a	8.9	oz/a	POST							
	MSO	1	% v/v	25.6	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
5	DPX-E9636	0.19	oz a/a	0.76	oz/a	POST	169.2 a	13.6 a	0.0 a	0.0 a	0.0 a	0.0 d	96.0 a
	Harmony GT	0.041	oz a/a	0.082	oz/a	POST							
	Isoxadifen-ethyl	0.095	oz a/a	0.19	oz/a	POST							
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	NIS	0.25	% v/v	6.4	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
6	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	157.4 a	13.5 a	0.0 a	0.0 a	0.0 a	50.0 bc	97.7 a
	DPX-E9636	0.19	oz a/a	0.76	oz/a	POST							
	Harmony GT	0.041	oz a/a	0.082	oz/a	POST							
	Isoxadifen-ethyl	0.095	oz a/a	0.19	oz/a	POST							
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	NIS	0.25	% v/v	6.4	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
7	DPX-E9636	0.229	oz a/a	0.92	oz/a	POST	167.9 a	13.4 a	0.0 a	0.0 a	0.0 a	0.0 d	91.7 a
	Harmony GT	0.05	oz a/a	0.1	oz/a	POST							
	Isoxadifen-ethyl	0.115	oz a/a	0.23	oz/a	POST							
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	NIS	0.25	% v/v	6.4	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							

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Description							Corn	Corn	Corn	Corn	Corn	Green Foxtail	Green Foxtail
Rating Date							10-31-07	10-31-07	06-10-07	06-24-07	07-08-07	06-10-07	07-08-07
Rating Data Type							Yield@15.5%	Moisture	Injury	Injury	Injury	Control	Control
Rating Unit							bu/A	%	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.							161 143	161 143	18 0	32 14	46 28	18 0	46 28
Trt-Eval Interval													
Plant-Eval Interval							165 DP-1	165 DP-1	22 DP-1	36 DP-1	50 DP-1	22 DP-1	50 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage							
8	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	172.7 a	13.6 a	0.0 a	0.0 a	0.0 a	40.0 c	96.3 a
	DPX-E9636	0.229	oz a/a	0.92	oz/a	POST							
	Harmony GT	0.05	oz a/a	0.1	oz/a	POST							
	Isoxadifen-ethyl	0.115	oz a/a	0.23	oz/a	POST							
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	NIS	0.25	% v/v	6.4	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
9	DPX-E9636	0.19	oz a/a	0.76	oz/a	POST	168.3 a	13.6 a	0.0 a	0.0 a	0.0 a	0.0 d	94.7 a
	Harmony GT	0.041	oz a/a	0.082	oz/a	POST							
	Isoxadifen-ethyl	0.095	oz a/a	0.19	oz/a	POST							
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	Atrazine	12	oz a/a	13.3	oz/a	POST							
	NIS	0.25	% v/v	6.4	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
10	DPX-E9636	0.25	oz a/a	1	oz/a	POST	152.9 a	13.6 a	0.0 a	0.0 a	0.0 a	0.0 d	45.0 b
	dicamba	1.93	oz a/a	2.76	oz/a	POST							
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST							
	Impact	0.175	oz a/a	0.5	oz/a	POST							
	Atrazine	8	oz a/a	8.9	oz/a	POST							
	MSO	1	% v/v	25.6	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
11	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	165.6 a	13.5 a	0.0 a	0.0 a	0.0 a	53.3 bc	55.0 b
	DPX-E9636	0.25	oz a/a	1	oz/a	POST							
	dicamba	1.93	oz a/a	2.76	oz/a	POST							
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST							
	Impact	0.175	oz a/a	0.5	oz/a	POST							
	Atrazine	8	oz a/a	8.9	oz/a	POST							
	MSO	1	% v/v	25.6	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
12	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST	163.4 a	13.5 a	0.0 a	0.0 a	0.0 a	0.0 d	93.0 a
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
13	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	162.7 a	13.6 a	0.0 a	0.0 a	0.0 a	63.3 b	97.7 a
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
	DPX-E9636	0.25	oz a/a	1	oz/a	POST							
14	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST	165.0 a	13.5 a	0.0 a	0.0 a	0.0 a	0.0 d	94.7 a
	Atrazine	12	oz a/a	13.3	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
15	DPX-E9636	0.25	oz a/a	1	oz/a	PRE	170.2 a	13.8 a	0.0 a	0.0 a	0.0 a	88.3 a	93.0 a
	Atrazine	8	oz a/a	8.9	oz/a	PRE							
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST							
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST							
16	Nontreated Check						117.3 b	13.4 a	0.0 a	0.0 a	0.0 a	0.0 d	0.0 c
LSD (P=.05)							23.58	0.33	0.00	0.00	0.00	21.04	16.02
Standard Deviation							14.14	0.20	0.00	0.00	0.00	12.62	9.61
CV							8.77	1.45	0.0	0.0	0.0	48.66	11.7
Grand Mean							161.28	13.53	0.0	0.0	0.0	25.94	82.15
Replicate F							0.862	1.236	0.000	0.000	0.000	1.795	1.597
Replicate Prob(F)							0.4325	0.3049	1.0000	1.0000	1.0000	0.1835	0.2192
Treatment F							2.439	0.604	0.000	0.000	0.000	19.080	23.111
Treatment Prob(F)							0.0184	0.8482	1.0000	1.0000	1.0000	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.

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Description							Waterhemp	Waterhemp	Velvetleaf	Velvetleaf
Rating Date							06-10-07	07-08-07	06-10-07	07-08-07
Rating Data Type							Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent
Days After First/Last Applic.							18 0	46 28	18 0	46 28
Trt-Eval Interval										
Plant-Eval Interval							22 DP-1	50 DP-1	22 DP-1	50 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
1	DPX-E9636	0.25	oz a/a	1	oz/a	POST	0.0 c	92.0 ab	0.0 a	99.0 a
	Accent	0.375	oz a/a	0.5	oz/a	POST				
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST				
	Impact	0.175	oz a/a	0.5	oz/a	POST				
	Atrazine	8	oz a/a	8.9	oz/a	POST				
	MSO	1	% v/v	25.6	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
2	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	86.7 a	99.0 a	0.0 a	99.0 a
	DPX-E9636	0.25	oz a/a	1	oz/a	POST				
	Accent	0.375	oz a/a	0.5	oz/a	POST				
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST				
	Impact	0.175	oz a/a	0.5	oz/a	POST				
	Atrazine	8	oz a/a	8.9	oz/a	POST				
	MSO	1	% v/v	25.6	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
3	Accent	0.5	oz a/a	0.67	oz/a	POST	0.0 c	92.5 ab	0.0 a	88.0 abc
	Harmony GT	0.06	oz a/a	0.12	oz/a	POST				
	Isoxadifen-ethyl	0.1	oz a/a	0.2	oz/a	POST				
	Impact	0.175	oz a/a	0.5	oz/a	POST				
	Atrazine	8	oz a/a	8.9	oz/a	POST				
	MSO	1	% v/v	25.6	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
4	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	90.0 a	92.5 ab	0.0 a	80.0 bc
	Accent	0.5	oz a/a	0.67	oz/a	POST				
	Harmony GT	0.06	oz a/a	0.12	oz/a	POST				
	Isoxadifen-ethyl	0.1	oz a/a	0.2	oz/a	POST				
	Impact	0.175	oz a/a	0.5	oz/a	POST				
	Atrazine	8	oz a/a	8.9	oz/a	POST				
	MSO	1	% v/v	25.6	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
5	DPX-E9636	0.19	oz a/a	0.76	oz/a	POST	0.0 c	96.0 ab	0.0 a	99.0 a
	Harmony GT	0.041	oz a/a	0.082	oz/a	POST				
	Isoxadifen-ethyl	0.095	oz a/a	0.19	oz/a	POST				
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	NIS	0.25	% v/v	6.4	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
6	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	83.3 ab	96.0 ab	0.0 a	99.0 a
	DPX-E9636	0.19	oz a/a	0.76	oz/a	POST				
	Harmony GT	0.041	oz a/a	0.082	oz/a	POST				
	Isoxadifen-ethyl	0.095	oz a/a	0.19	oz/a	POST				
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	NIS	0.25	% v/v	6.4	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
7	DPX-E9636	0.229	oz a/a	0.92	oz/a	POST	0.0 c	94.5 ab	0.0 a	96.0 ab
	Harmony GT	0.05	oz a/a	0.1	oz/a	POST				
	Isoxadifen-ethyl	0.115	oz a/a	0.23	oz/a	POST				
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	NIS	0.25	% v/v	6.4	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
8	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	85.0 a	65.7 b	0.0 a	74.5 c
	DPX-E9636	0.229	oz a/a	0.92	oz/a	POST				
	Harmony GT	0.05	oz a/a	0.1	oz/a	POST				
	Isoxadifen-ethyl	0.115	oz a/a	0.23	oz/a	POST				
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	NIS	0.25	% v/v	6.4	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				

Northeast Research & Extension Center

Description							Waterhemp	Waterhemp	Velvetleaf	Velvetleaf
Rating Date							06-10-07	07-08-07	06-10-07	07-08-07
Rating Data Type							Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent
Days After First/Last Applic.							18 0	46 28	18 0	46 28
Trt-Eval Interval										
Plant-Eval Interval							22 DP-1	50 DP-1	22 DP-1	50 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
9	DPX-E9636	0.19	oz a/a	0.76	oz/a	POST	0.0 c	94.5 ab	0.0 a	94.5 ab
	Harmony GT	0.041	oz a/a	0.082	oz/a	POST				
	Isoxadifen-ethyl	0.095	oz a/a	0.19	oz/a	POST				
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	Atrazine	12	oz a/a	13.3	oz/a	POST				
	NIS	0.25	% v/v	6.4	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
10	DPX-E9636	0.25	oz a/a	1	oz/a	POST	0.0 c	90.0 ab	0.0 a	94.5 ab
	dicamba	1.93	oz a/a	2.76	oz/a	POST				
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST				
	Impact	0.175	oz a/a	0.5	oz/a	POST				
	Atrazine	8	oz a/a	8.9	oz/a	POST				
	MSO	1	% v/v	25.6	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
11	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	80.0 ab	94.7 ab	0.0 a	92.0 ab
	DPX-E9636	0.25	oz a/a	1	oz/a	POST				
	dicamba	1.93	oz a/a	2.76	oz/a	POST				
	Isoxadifen-ethyl	0.125	oz a/a	0.25	oz/a	POST				
	Impact	0.175	oz a/a	0.5	oz/a	POST				
	Atrazine	8	oz a/a	8.9	oz/a	POST				
	MSO	1	% v/v	25.6	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
12	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST	0.0 c	92.5 ab	0.0 a	97.0 a
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
13	Dual II Magnum	15.28	oz/a	15.3	oz/a	PRE	70.0 b	99.0 a	0.0 a	97.0 a
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
	DPX-E9636	0.25	oz a/a	1	oz/a	POST				
14	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST	0.0 c	99.0 a	0.0 a	99.0 a
	Atrazine	12	oz a/a	13.3	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
15	DPX-E9636	0.25	oz a/a	1	oz/a	PRE	70.0 b	99.0 a		
	Atrazine	8	oz a/a	8.9	oz/a	PRE				
	Roundup Original MAX	15.13	oz a/a	22	oz/a	POST				
	Ammonium Sulfate	32	oz a/a	32	oz/a	POST				
16	Nontreated Check						0.0 c	0.0 c	0.0 a	0.0 d
LSD (P=.05)							14.51	32.32	0.00	16.69
Standard Deviation							8.42	18.84	0.00	9.53
CV							23.84	21.58	0.0	10.92
Grand Mean							35.31	87.3	0.0	87.23
Replicate F							1.256	0.629	0.000	2.600
Replicate Prob(F)							0.3098	0.5444	1.0000	0.1096
Treatment F							73.430	5.104	0.000	21.033
Treatment Prob(F)							0.0001	0.0007	1.0000	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.

Additional Treatment Information
Treatment Name
Ammonium Sulfate = |
Rate Unit
OZ A/A = Ounces Active Ingredient per Acre (Metric=G A/HA)|B
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
Other Rate Unit
OZ/A = Ounces Product per Acre

2007 Weed Control and Corn Yield with Halex GT (A15189)

Trial ID: 07CRR-6 Protocol ID:
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb DK 60-19 RR
BBCH Scale: BCOR **Planting Date:** 05-19-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Harvest Date: 10-31-07 **Harvest Equipment:** Gleaner K
Harvested Width, Unit: 7.5 ft **Harvested Length, Unit:** 27 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:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

	Previous Crops	Previous Pesticides	Year
1.	Soybean	glyphosate	2006

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-11-07	Roundup OriginalMAX	5.5	lbai/ga	SL	32	oz/A

Soil Description

Description Name: 06 SB Herb
% Sand: 12 **% OM:** 3.6 **Texture:** SILTY CLAY LOAM
% Silt: 58 **pH:** 7 **Soil Name:** colo
% Clay: 30 **CEC:** 22.7 **Fert. Level:** FAIR

Application Description

	A	B	C	D
Application Date:	05-23-07	06-10-07	06-10-07	07-02-07
Time of Day:	5:45 pm	3 pm	2 pm	3:45 pm
Application Method:	spray	spray	spray	spray
Application Timing:	PRE	EPOST	POST	V8
Application Placement:	surface	foliar	foliar	foliar
Air Temperature, Unit:	73 f	94 f	94 f	92 f
% Relative Humidity:	50	34	34	48
Wind Velocity, Unit:	2.5 mph	8 mph	8 mph	3 mph
Wind Direction:	w	sw	sw	s
Dew Presence (Y/N):	n	n	n	n
Soil Temperature, Unit:	68 f			80 f
Soil Moisture:	wet	adequate	adequate	dry
% Cloud Cover:	95	10	10	75

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH	BBCH
Stage Majority, Percent:		V2-V3	V2-V3	V9
Stage Minimum, Percent:		V2 50	V2 50	
Stage Maximum, Percent:		V3 50	V3 50	
Height, Unit:		4 IN	4 IN	20 IN
Height Minimum, Maximum:		3 5	3 5	15 30

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W	SETVI W
Stage Majority, Percent:		3 in 40	3 in 40	
Stage Minimum, Percent:		1 in 30	1 in 30	
Stage Maximum, Percent:		5 in 30	5 in 30	
Height, Unit:		3 in	3 in	6 in
Height Minimum, Maximum:		1 5	1 5	4 10
Density, Unit:		20 m2	20 m2	20 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W	AMATU W
Height, Unit:		3 in	3 in	8 in
Height Minimum, Maximum:		2 4	2 4	4 12
Density, Unit:		1 m2	1 m2	1 m2

Application Equipment

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

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

2007 Weed Control and Corn Yield with Halex GT (A15189)

Trial ID: 07CRR-6 Protocol ID:
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Corn, field 10-31-07 Yield@15.5% bu/A	Corn, field 10-31-07 Moisture %	Green foxtail 06-10-07 Control percent	Green foxtail 07-02-07 Control percent	Green foxtail 07-08-07 Control percent	Green foxtail 08-28-07 Control percent	Green foxtail 08-28-07 Density m2 RunCH
	Description										
	Rating Date				10-31-07	10-31-07	06-10-07	07-02-07	07-08-07	08-28-07	08-28-07
	Rating Data Type				Yield@15.5%	Moisture	Control	Control	Control	Control	Density
	Rating Unit				bu/A	%	percent	percent	percent	percent	m2 RunCH
	Days After First/Last Applic.				161 121	161 121	18 0	40 0	46 6	97 57	97 57
	Trt-Eval Interval										
	Plant-Eval Interval				165 DP-1	165 DP-1	22 DP-1	44 DP-1	50 DP-1	101 DP-1	101 DP-1
1	Nontreated Check				144.1 e	13.4 c	0.0 c	0.0 e	0.0 d	0.0 d	21.7 a
2	Halex GT	4	pt/a	EPOST	167.2 abc	13.4 bc	0.0 c	98.7 a	98.3 a	94.3 ab	6.7 bc
	NIS	0.25	% v/v	EPOST							
	Ammonium Sulfate	8.5	lb/100 gal	EPOST							
3	Halex GT	4	pt/a	EPOST	171.6 a	13.6 a	0.0 c	96.0 ab	97.7 ab	96.7 ab	4.7 c
	atrazine	1	pt/a	EPOST							
	NIS	0.25	% v/v	EPOST							
	Ammonium Sulfate	8.5	lb/100 gal	EPOST							
4	Lumax	2	qt/a	PRE	163.2 a-d	13.4 c	88.3 a	83.3 bcd	95.7 ab	99.0 a	9.0 bc
	Touchdown Total	24	oz/a	V8 4"reg							
	Ammonium Sulfate	8.5	lb/100 gal	V8 4"reg							
5	Harness Xtra	1.5	qt/a	PRE	164.8 a-d	13.3 cd	91.7 a	78.3 cd	93.3 b	99.0 a	8.3 bc
	Roundup Original Max	22	oz/a	V8 4"reg							
	Ammonium Sulfate	8.5	lb/100 gal	V8 4"reg							
6	Roundup Original Max	22	oz/a	POST	160.0 bcd	13.2 d	0.0 c	96.0 ab	96.3 ab	94.0 b	5.0 c
	Ammonium Sulfate	8.5	lb/100 gal	POST							
7	Roundup Original Max	22	oz/a	POST	155.9 d	13.3 cd	0.0 c	93.0 ab	97.7 ab	99.0 a	10.0 bc
	Ammonium Sulfate	8.5	lb/100 gal	POST							
	Roundup Original Max	22	oz/a	V8 4"reg							
	Ammonium Sulfate	8.5	lb/100 gal	V8 4"reg							
8	Lumax	1.5	qt/a	PRE	157.0 cd	13.4 bc	83.3 ab	70.0 d	80.0 c	81.7 c	23.3 a
	Lumax	1	qt/a	EPOST							
9	Bicep II Magnum	1.3	qt/a	PRE	168.4 ab	13.4 bc	86.7 ab	99.0 a	99.0 a	97.7 ab	8.3 bc
	Halex GT	4	pt/a	EPOST							
	NIS	0.25	% v/v	EPOST							
10	Steadfast	1.5	oz/a	EPOST	155.4 d	13.4 c		89.7 abc	94.7 ab	93.0 b	15.0 ab
	Callisto	2	oz/a	EPOST							
	COC	1	% v/v	EPOST							
	Ammonium Sulfate	8.5	lb/100 gal	EPOST							
11	Bicep II Magnum	1.3	qt/a	PRE	168.9 ab	13.5 ab	78.3 b	99.0 a	99.0 a	96.3 ab	6.7 bc
	Callisto	3	oz/a	EPOST							
	Touchdown Total	24	oz/a	EPOST							
	Ammonium Sulfate	8.5	lb/100 gal	EPOST							
12	Bicep II Magnum	1.3	qt/a	PRE	161.9 a-d	13.5 abc	78.3 b	97.7 a	99.0 a	97.0 ab	5.0 c
	Laudis	3	oz/a	EPOST							
	Touchdown Total	24	oz/a	EPOST							
	Ammonium Sulfate	8.5	lb/100 gal	EPOST							
	LSD (P=.05)				11.23	0.15	8.46	13.35	4.44	4.87	8.86
	Standard Deviation				6.63	0.09	4.97	7.88	2.62	2.88	5.23
	CV				4.1	0.67	10.79	9.45	2.99	3.29	50.74
	Grand Mean				161.54	13.39	46.06	83.39	87.56	87.31	10.31
	Replicate F				1.476	4.667	0.123	0.164	2.719	1.414	0.495
	Replicate Prob(F)				0.2502	0.0204	0.8852	0.8497	0.0881	0.2644	0.6164
	Treatment F				4.004	3.454	238.037	37.455	343.609	282.331	4.438
	Treatment Prob(F)				0.0027	0.0064	0.0001	0.0001	0.0001	0.0001	0.0014

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.

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Description					Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date					06-10-07	07-02-07	07-08-07	08-28-07	08-28-07
Rating Data Type					Control	Control	Control	Control	Density
Rating Unit					percent	percent	percent	percent	m2 RunCH
Days After First/Last Applic.					18 0	40 0	46 6	97 57	97 57
Trt-Eval Interval									
Plant-Eval Interval					22 DP-1	44 DP-1	50 DP-1	101 DP-1	101 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage					
1	Nontreated Check				0.0 b	0.0 b	0.0 c	0.0 c	1.3 a
2	Halex GT	4	pt/a	EPOST	0.0 b	99.0 a	99.0 a	99.0 a	1.0 a
	NIS	0.25	% v/v	EPOST					
	Ammonium Sulfate	8.5	lb/100 gal	EPOST					
3	Halex GT	4	pt/a	EPOST	0.0 b	99.0 a	99.0 a	99.0 a	1.0 a
	atrazine	1	pt/a	EPOST					
	NIS	0.25	% v/v	EPOST					
	Ammonium Sulfate	8.5	lb/100 gal	EPOST					
4	Lumax	2	qt/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	1.0 a
	Touchdown Total	24	oz/a	V8 4"reg					
	Ammonium Sulfate	8.5	lb/100 gal	V8 4"reg					
5	Harness Xtra	1.5	qt/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	2.7 a
	Roundup Original Max	22	oz/a	V8 4"reg					
	Ammonium Sulfate	8.5	lb/100 gal	V8 4"reg					
6	Roundup Original Max	22	oz/a	POST	0.0 b	99.0 a	99.0 a	97.7 a	1.0 a
	Ammonium Sulfate	8.5	lb/100 gal	POST					
7	Roundup Original Max	22	oz/a	POST	0.0 b	99.0 a	99.0 a	99.0 a	1.3 a
	Ammonium Sulfate	8.5	lb/100 gal	POST					
	Roundup Original Max	22	oz/a	V8 4"reg					
	Ammonium Sulfate	8.5	lb/100 gal	V8 4"reg					
8	Lumax	1.5	qt/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	1.3 a
	Lumax	1	qt/a	EPOST					
9	Bicep II Magnum	1.3	qt/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	1.0 a
	Halex GT	4	pt/a	EPOST					
	NIS	0.25	% v/v	EPOST					
10	Steadfast	1.5	oz/a	EPOST		99.0 a	94.5 b	94.5 b	1.0 a
	Callisto	2	oz/a	EPOST					
	COC	1	% v/v	EPOST					
	Ammonium Sulfate	8.5	lb/100 gal	EPOST					
11	Bicep II Magnum	1.3	qt/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	1.3 a
	Callisto	3	oz/a	EPOST					
	Touchdown Total	24	oz/a	EPOST					
	Ammonium Sulfate	8.5	lb/100 gal	EPOST					
12	Bicep II Magnum	1.3	qt/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	1.3 a
	Laudis	3	oz/a	EPOST					
	Touchdown Total	24	oz/a	EPOST					
	Ammonium Sulfate	8.5	lb/100 gal	EPOST					
LSD (P=.05)					0.00	0.00	2.26	2.62	1.19
Standard Deviation					0.00	0.00	1.33	1.54	0.71
CV					0.0	0.0	1.47	1.71	55.2
Grand Mean					54.0	90.75	90.38	90.26	1.28
Replicate F					0.000	0.000	0.955	0.266	1.061
Replicate Prob(F)					1.0000	1.0000	0.4011	0.7690	0.3632
Treatment F					0.000	0.000	1377.409	1022.266	1.320
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	0.2780

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.

Additional Treatment Information
Treatment Name
Ammonium Sulfate = |
Rate Unit
PT/A = Pints Product per Acre (Metric=L/HA)|P
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]
QT/A = Quarts Product per Acre (Metric=L/HA)|Q
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O

2007 Laudis / Corn / Efficacy Key Weed / Timing / UNL Sandbur

Trial ID: 07CRR-7 Protocol ID:
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: Brunswick
State/Prov.: NE
Postal Code: 68720
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
BBCH Scale: BCOR **Planting Date:** 05-02-07
Planting Method: seeded **Rate, Unit:** 28000 s/a
Depth, Unit: 2 in

Pest Description

Pest 1 Type: W **Code:** CCHSP Cenchrus longispinus
Common Name: Field sandbur

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-12-07	Roundup Weather MAX	5.5	lba/gal	SL	32	oz/A

Soil Description

Description Name: 2005 0-6" sample
% Sand: 88 **% OM:** 1.2 **Texture:** LOAMY SAND
% Silt: 4 **pH:** 5.9
% Clay: 8 **CEC:** 5.2 **Fert. Level:** GOOD

Application Description

	A	B	C
Application Date:	05-04-07	06-01-07	06-08-07
Time of Day:	5pm	11:30 am	4:30 pm
Application Method:	spray	spray	spray
Application Timing:	PRE	EPOST	MPOST
Application Placement:	surface	foliar	foliar
Air Temperature, Unit:	74 f	62 f	73 f
% Relative Humidity:	80	67	27
Wind Velocity, Unit:	8 mph	5 mph	5 mph
Wind Direction:	w	sw	w
Dew Presence (Y/N):	n	y	n
Soil Temperature, Unit:	60 f	57 f	70 f
Soil Moisture:	adequate	wet	adequate
% Cloud Cover:	80	100	75

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		v4-v5	v5-v6
Height, Unit:		6 in	8 in

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	CCHSP W	CCHSP W	CCHSP W
Stage Majority, Percent:		2-4LF	4-6LF
Height, Unit:		2 in	3 in
Height Minimum, Maximum:		1 3	2 4
Density, Unit:		20 m2	20 m2

Application Equipment

	A	B	C
Appl. Equipment:	backpack	BACKPACK	BACKPACK
Operating Pressure, Unit:	18 psi	40 PSI	40 PSI
Nozzle Type:	Turbo Tee	TURBO TEE	TURBO TEE
Nozzle Size:	11003	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	12 IN	12 IN	12 IN
Ground Speed, Unit:	2.7 MPH	2.7 MPH	2.7 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	co2	co2	co2

Northeast Research & Extension Center

2007 Laudis / Corn / Efficacy Key Weed / Timing / UNL Sandbur

Trial ID: 07CRR-7 Protocol ID:
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Corn, field 05-24-07	Corn, field 06-05-07	Corn, field 06-14-07	Corn, field 06-22-07	Corn, field 07-18-07	Sandbur 06-05-07	Sandbur 06-14-07	Sandbur 06-22-07	Sandbur 07-18-07
	Description				Corn, field	Corn, field	Corn, field	Corn, field	Corn, field	Sandbur	Sandbur	Sandbur	Sandbur
	Rating Date				05-24-07	06-05-07	06-14-07	06-22-07	07-18-07	06-05-07	06-14-07	06-22-07	07-18-07
	Rating Data Type				Injury	Injury	Injury	Injury	Injury	Control	Control	Control	Control
	Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	Days After First/Last Applic.				20 20	32 4	41 6	49 14	75 40	32 4	41 6	49 14	75 40
	Trt-Eval Interval												
	Plant-Eval Interval				22 DP-1	34 DP-1	43 DP-1	51 DP-1	77 DP-1	34 DP-1	43 DP-1	51 DP-1	77 DP-1
1	Nontreated Check				0.0 b	0.0 b	5.0 c	0.0 a	0.0 a	0.0 b	0.0 f	0.0 e	0.0 f
2	Laudis	3	oz/a	EPOST	0.0 b	0.0 b	5.0 c	0.0 a	0.0 a	66.7 a	97.7 ab	99.0 a	81.7 bc
	Atrazine	1	pt/a	EPOST									
	COC	1	% v/v	EPOST									
	28% Nitrogen	1.5	qt/a	EPOST									
3	Laudis	3	oz/a	EPOST	0.0 b	0.0 b	5.0 c	0.0 a	0.0 a	73.3 a	99.0 a	99.0 a	88.3 ab
	Atrazine	1	pt/a	EPOST									
	MSO	1	% v/v	EPOST									
	28% Nitrogen	1.5	qt/a	EPOST									
4	Laudis	3	oz/a	EPOST	0.0 b	0.0 b	5.0 c	0.0 a	0.0 a	56.7 a	93.0 abc	94.3 ab	90.0 a
	MSO	1	% v/v	EPOST									
	28% Nitrogen	1.5	qt/a	EPOST									
5	Laudis	3	oz/a	EPOST	0.0 b	0.0 b	15.0 ab	0.0 a	0.0 a	73.3 a	94.3 abc	99.0 a	88.3 ab
	Accent	0.5	oz/a	EPOST									
	MSO	1	% v/v	EPOST									
	28% Nitrogen	1.5	qt/a	EPOST									
6	Laudis	3	oz/a	MPOST	0.0 b	0.0 b	5.0 c	0.0 a	0.0 a		68.3 d	94.3 ab	80.0 c
	Atrazine	1	pt/a	MPOST									
	COC	1	% v/v	MPOST									
	28% Nitrogen	1.5	qt/a	MPOST									
7	Laudis	3	oz/a	MPOST	0.0 b		5.0 c	0.0 a	0.0 a		50.0 e	96.0 a	68.3 e
	Atrazine	1	pt/a	MPOST									
	MSO	1	% v/v	MPOST									
	28% Nitrogen	1.5	qt/a	MPOST									
8	Laudis	3	oz/a	MPOST	0.0 b		5.0 c	0.0 a	0.0 a		46.7 e	66.7 d	70.0 de
	MSO	1	% v/v	MPOST									
	28% Nitrogen	1.5	qt/a	MPOST									
9	Laudis	3	oz/a	MPOST	0.0 b	0.0 b	8.3 bc	0.0 a	0.0 a		40.0 e	76.7 cd	76.7 cd
	Accent	0.5	oz/a	MPOST									
	MSO	1	% v/v	MPOST									
	28% Nitrogen	1.5	qt/a	MPOST									
10	Radius	4.5	oz/a	PRE	0.0 b	1.7 b	5.0 c	0.0 a	0.0 a	71.7 a	78.3 cd	94.7 ab	83.3 abc
	Laudis	3	oz/a	MPOST									
	Atrazine	1	pt/a	MPOST									
	MSO	1.5	pt/a	MPOST									
	28% Nitrogen	1.5	qt/a	MPOST									
11	Balance Pro	1	oz/a	PRE	7.3 a	26.7 a	23.3 a	6.7 a	0.0 a	65.0 a	81.7 bcd	83.0 bc	65.0 e
	atrazine	1	pt/a	PRE									
	Laudis	3	oz/a	MPOST									
	MSO	1.5	pt/a	MPOST									
	28% Nitrogen	1.5	qt/a	MPOST									
	LSD (P=.05)				1.29	11.04	9.78	5.93	0.00	23.15	16.17	11.94	8.07
	Standard Deviation				0.76	6.14	5.74	3.48	0.00	13.01	9.50	7.01	4.74
	CV				113.82	195.06	72.86	574.46	0.0	22.39	13.95	8.54	6.58
	Grand Mean				0.67	3.15	7.88	0.61	0.0	58.1	68.09	82.06	71.97
	Replicate F				1.000	0.908	1.126	1.000	0.000	1.041	0.602	3.468	0.034
	Replicate Prob(F)				0.3855	0.4314	0.3439	0.3855	1.0000	0.3829	0.5574	0.0509	0.9668
	Treatment F				25.474	6.212	3.241	1.000	0.000	12.251	32.073	52.005	85.831
	Treatment Prob(F)				0.0001	0.0035	0.0121	0.4755	1.0000	0.0002	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.

2007 Laudis / Corn / Efficacy Key Weed / Timing / UNL Sandbur

Trial ID: 07CRR-7 Protocol ID:
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Additional Treatment Information
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
PT/A = Pints Product per Acre (Metric=L/HA)|P
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
QT/A = Quarts Product per Acre (Metric=L/HA)|Q

2007 Preemergence mixtures of rimsulfuron, isoxaflutole, and atrazine for broad-spectrum weed control in conventional corn.
Trial ID: 07CRR-8 Protocol ID:
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
BBCH Scale: BCOR **Planting Date:** 05-02-07
Planting Method: seeded **Rate, Unit:** 28000 s/a
Depth, Unit: 2 in

Pest Description

Pest 1 Type: W **Code:** CCHSP Cenchrus longispinus
Common Name: Field sandbur

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Soil Description

Description Name: 2005 0-6" sample
% Sand: 88 **% OM:** 1.2 **Texture:** LOAMY SAND
% Silt: 4 **pH:** 5.9
% Clay: 8 **CEC:** 5.2 **Fert. Level:** GOOD

Application Description

	A
Application Date:	05-04-07
Time of Day:	5pm
Application Method:	spray
Application Timing:	PRE
Application Placement:	surface
Air Temperature, Unit:	74 f
% Relative Humidity:	80
Wind Velocity, Unit:	8 mph
Wind Direction:	w
Dew Presence (Y/N):	n
Soil Temperature, Unit:	60 f
Soil Moisture:	adequate
% Cloud Cover:	80

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	CCHSP W

Application Equipment

	A
Appl. Equipment:	backpack
Operating Pressure, Unit:	18 psi
Nozzle Type:	Turbo Tee
Nozzle Size:	11003
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Mix Size, Unit:	1.8 L
Propellant:	co2

2007 Preemergence mixtures of rimsulfuron, isoxaflutole, and atrazine for broad-spectrum weed control in conventional corn.
Trial ID: 07CRR-8 Protocol ID:
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Description					Crop Injury	Crop Injury	Crop Injury	Crop Injury	Sandbur	Sandbur	Sandbur
Rating Date					05-24-07	06-05-07	06-22-07	06-30-07	06-05-07	06-22-07	06-30-07
Rating Data Type					Injury	Injury	Injury	Injury	Control	Control	Control
Rating Unit					Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.					20 20	32 32	49 49	57 57	32 32	49 49	57 57
Trt-Eval Interval					20 DA-A	32 DA-A	49 DA-A	57 DA-A	32 DA-A	49 DA-A	57 DA-A
Plant-Eval Interval					22 DP-1	34 DP-1	51 DP-1	59 DP-1	34 DP-1	51 DP-1	59 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage							
1	Atrazine	16	oz a/a	PRE	0.0 g	0.0 j	0.0 f	0.0 c	36.7 g	0.0 e	26.7 g
2	DPX-E9636	1	oz/a	PRE	0.0 g	0.0 j	0.0 f	0.0 c	60.0 ef	63.3 a-d	53.3 b-f
3	DPX-E9636	1.5	oz/a	PRE	0.0 g	0.0 j	0.0 f	3.3 bc	73.3 b-e	70.0 a-d	68.3 abc
4	Balance Pro	0.75	oz/a	PRE	0.0 g	1.7 ij	0.0 f	0.0 c	68.3 c-f	58.3 bcd	46.7 def
5	Balance Pro	1	oz/a	PRE	0.0 g	3.3 ij	1.7 ef	0.0 c	73.3 b-e	56.7 bcd	46.7 def
6	Balance Pro	1.25	oz/a	PRE	25.0 cde	46.7 a	18.3 ab	2.5 c	85.0 ab	56.7 bcd	50.0 c-f
7	Balance Pro	1.5	oz/a	PRE	23.3 cde	21.7 c-g	10.0 b-f	3.3 bc	85.0 ab	61.7 bcd	46.7 def
8	DPX-E9636	1	oz/a	PRE	1.7 g	5.0 hij	0.0 f	2.5 c	78.3 abc	71.7 a-d	60.0 a-e
	Balance Pro	0.75	oz/a	PRE							
9	DPX-E9636	1	oz/a	PRE	16.7 ef	16.7 e-i	11.7 b-e	0.0 c	80.0 abc	60.0 bcd	56.7 a-f
	Balance Pro	1	oz/a	PRE							
10	DPX-E9636	1	oz/a	PRE	25.0 cde	36.7 abc	18.3 ab	0.0 c	83.3 abc	66.7 a-d	63.3 a-d
	Balance Pro	1.25	oz/a	PRE							
11	DPX-E9636	1	oz/a	PRE	33.3 abc	25.0 b-f	13.3 bcd	1.7 c	81.7 abc	81.7 ab	73.3 a
	Balance Pro	1.5	oz/a	PRE							
12	DPX-E9636	1	oz/a	PRE	1.7 g	3.3 ij	0.0 f	0.0 c	75.0 b-e	76.7 a-d	66.7 abc
	Balance Pro	0.75	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
13	DPX-E9636	1	oz/a	PRE	8.3 fg	6.7 g-j	0.0 f	0.0 c	73.3 b-e	63.3 a-d	56.7 a-f
	Balance Pro	1	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
14	DPX-E9636	1	oz/a	PRE	25.0 cde	30.0 b-e	3.3 def	0.0 c	80.0 abc	66.7 a-d	66.7 abc
	Balance Pro	1.25	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
15	DPX-E9636	1	oz/a	PRE	30.0 bcd	28.3 b-e	13.3 bcd	0.0 c	83.3 abc	78.3 abc	71.7 ab
	Balance Pro	1.5	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
16	DPX-E9636	1.5	oz/a	PRE	1.7 g	3.3 ij	6.7 c-f	0.0 c	83.3 abc	90.0 a	65.0 a-d
	Balance Pro	0.75	oz/a	PRE							
17	DPX-E9636	1.5	oz/a	PRE	8.3 fg	11.7 f-j	13.3 bcd	0.0 c	78.3 abc	76.7 a-d	66.7 abc
	Balance Pro	1	oz/a	PRE							
18	DPX-E9636	1.5	oz/a	PRE	23.3 cde	26.7 b-f	16.7 abc	0.0 c	83.3 abc	73.3 a-d	65.0 a-d
	Balance Pro	1.25	oz/a	PRE							
19	DPX-E9636	1.5	oz/a	PRE	38.3 ab	33.3 a-d	20.0 ab	10.0 ab	91.7 a	83.3 ab	75.0 a
	Balance Pro	1.5	oz/a	PRE							
20	DPX-E9636	1.5	oz/a	PRE	1.7 g	3.3 ij	0.0 f	0.0 c	85.0 ab	80.0 ab	61.7 a-e
	Balance Pro	0.75	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
21	DPX-E9636	1.5	oz/a	PRE	18.3 def	20.0 d-h	13.3 bcd	1.7 c	80.0 abc	70.0 a-d	75.0 a
	Balance Pro	1	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
22	DPX-E9636	1.5	oz/a	PRE	31.7 bc	25.0 b-f	13.3 bcd	5.0 bc	83.3 abc	73.3 a-d	66.7 abc
	Balance Pro	1.25	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
23	DPX-E9636	1.5	oz/a	PRE	45.0 a	40.0 ab	25.0 a	5.0 bc	91.7 a	76.7 a-d	68.3 abc
	Balance Pro	1.5	oz/a	PRE							
	Atrazine	16	oz a/a	PRE							
24	Balance Pro	1.5	oz/a	PRE	30.0 bcd	38.3 ab	16.7 abc	15.0 a	85.0 ab	56.7 bcd	50.0 c-f
	Atrazine	16	oz a/a	PRE							
25	Keystone	1.3	qt/a	PRE	0.0 g	0.0 j	3.3 def	0.0 c	56.7 f	51.7 cd	43.3 efg
26	Keystone	2.6	qt/a	PRE	0.0 g	0.0 j	3.3 def	0.0 c	61.7 def	50.0 d	40.0 fg

Northeast Research & Extension Center

Description				Crop Injury	Crop Injury	Crop Injury	Crop Injury	Sandbur	Sandbur	Sandbur
Rating Date				05-24-07	06-05-07	06-22-07	06-30-07	06-05-07	06-22-07	06-30-07
Rating Data Type				Injury	Injury	Injury	Injury	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				20 20	32 32	49 49	57 57	32 32	49 49	57 57
Trt-Eval Interval				20 DA-A	32 DA-A	49 DA-A	57 DA-A	32 DA-A	49 DA-A	57 DA-A
Plant-Eval Interval				22 DP-1	34 DP-1	51 DP-1	59 DP-1	34 DP-1	51 DP-1	59 DP-1
Trt No.	Treatment Name	Rate	Rate Unit / Growth Stage							
27	Lumax	1.5	qt/a PRE	0.0 g	0.0 j	0.0 f	0.0 c	71.7 b-f	73.3 a-d	56.7 a-f
28	Lumax	3	qt/a PRE	0.0 g	0.0 j	0.0 f	0.0 c	78.3 abc	73.3 a-d	61.7 a-e
29	Nontreated Check			0.0 g	0.0 j	0.0 f	0.0 c	0.0 h	0.0 e	0.0 h
30	DPX-E9636	1.5	oz/a PRE	0.0 g	0.0 j	0.0 f	0.0 c	76.7 a-d	76.7 a-d	63.3 a-d
	Atrazine	16	oz a/a PRE							
LSD (P=.05)				12.53	16.56	11.15	6.73	16.42	27.38	19.49
Standard Deviation				7.67	10.14	6.83	4.08	10.05	16.77	11.93
CV				59.27	71.29	92.42	244.64	13.57	25.98	20.92
Grand Mean				12.94	14.22	7.39	1.67	74.11	64.56	57.06
Replicate F				1.718	3.829	6.386	0.802	1.091	0.280	0.318
Replicate Prob(F)				0.1885	0.0274	0.0031	0.4555	0.3427	0.7571	0.7289
Treatment F				10.736	6.740	4.039	2.066	9.550	4.306	5.156
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0168	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.

Additional Treatment Information
Rate Unit
OZ A/A = Ounces Active Ingredient per Acre (Metric=G A/HA)|B
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
QT/A = Quarts Product per Acre (Metric=L/HA)|Q

2007 KIH-485 Protocol (Low organic sandy soils) with post sequential

Trial ID: 07CRR-9 Protocol ID: 07 KIH Brunswick POST
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: Brunswick
State/Prov.: NE
Postal Code: 68720
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
BBCH Scale: BCOR **Planting Date:** 05-02-07
Planting Method: seeded **Rate, Unit:** 28000 s/a
Depth, Unit: 2 in

Pest Description

Pest 1 Type: W **Code:** CCHSS Cenchrus sp.
Common Name: Field sandbur

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

	Previous Crops	Previous Pesticides	Year
1.	soybean	glyphosate	2006

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	05-12-07	Roundup Weather MAX	5.5	lba/gal	SL	32	oz/A

Soil Description

Description Name: 2005 0-6" sample
% Sand: 88 **% OM:** 1.2 **Texture:** LOAMY SAND
% Silt: 4 **pH:** 5.9
% Clay: 8 **CEC:** 5.2 **Fert. Level:** GOOD

Application Description

	A	B
Application Date:	05-04-07	06-08-07
Time of Day:	4pm	1 pm
Application Method:	spray	spray
Application Timing:	PRE	POST
Application Placement:	surface	foliar
Air Temperature, Unit:	74 f	82 f
% Relative Humidity:	80	50
Wind Velocity, Unit:	8 mph	3 mph
Wind Direction:	w	e
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	60 f	72 f
Soil Moisture:	adequate	adequate
% Cloud Cover:	80	40

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V6
Height, Unit:		15 in

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	CCHSS W	CCHSS W
Height, Unit:		5 in
Height Minimum, Maximum:		3 6
Density, Unit:		30 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

Northeast Research & Extension Center

2007 KIH-485 Protocol (Low organic sandy soils) with post sequential

Trial ID: 07CRR-9 Protocol ID: 07 KIH Brunswick POST
Location: Brunswick, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Corn, field 10-04-07 %Yield Red % 153 155 DP-1	Corn, field 10-04-07 Yield@15.5 bu/A 153 155 DP-1	Corn, field 10-04-07 Moisture % 153 155 DP-1	Corn, field 05-24-07 Stunting percent 20 22 DP-1	Corn, field 05-31-07 Stunting percent 27 29 DP-1	Corn, field 06-05-07 Stunting percent 32 34 DP-1	Corn, field 06-22-07 Stunting percent 49 51 DP-1
1	Nontreated Check						20.0 b-e	180.7 b-e	14.9 a	0.0 b	0.0 f	0.0 c	0.0 e
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	20.2 b-e	180.3 b-e	14.7 a	0.0 b	0.0 f	0.0 c	0.0 e
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	20.4 b-e	179.8 b-e	15.7 a	0.0 b	0.0 f	0.0 c	0.0 e
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	36.3 ab	144.0 ef	14.8 a	0.0 b	1.7 ef	0.0 c	0.0 e
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	35.2 ab	146.5 ef	15.1 a	0.0 b	5.0 ef	0.0 c	3.3 de
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	32.9 abc	151.7 def	14.5 a	0.0 b	8.3 de	3.3 c	6.7 de
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	39.6 a	136.5 f	14.5 a	0.0 b	13.3 d	3.3 c	10.0 d
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	28.4 abc	161.7 def	14.8 a	0.0 b	25.0 c	16.7 b	20.0 c
9	KIH-485	6.3	oz/a	375	g a/ha	PRE	31.1 abc	155.7 def	15.1 a	5.7 a	40.0 b	30.0 a	40.0 b
10	KIH-485	8.4	oz/a	500	g a/ha	PRE	39.7 a	136.4 f	14.9 a	6.7 a	50.0 a	35.0 a	53.3 a
11	KIH-485	0.42	oz/a	25	g a/ha	PRE	7.7 def	208.7 abc	14.8 a				
	Roundup Original MAX	22	oz/a			POST							
12	KIH-485	1.4	oz/a	83	g a/ha	PRE	2.7 ef	219.9 ab	16.0 a				
	Roundup Original MAX	22	oz/a			POST							
13	KIH-485	1.76	oz/a	105	g a/ha	PRE	15.8 c-f	190.3 a-d	16.2 a				
	Roundup Original MAX	22	oz/a			POST							
14	KIH-485	2.52	oz/a	150	g a/ha	PRE	26.4 abc	166.4 def	14.9 a				
	Roundup Original MAX	22	oz/a			POST							
15	KIH-485	3.02	oz/a	180	g a/ha	PRE	17.0 c-f	187.6 a-d	14.8 a				
	Roundup Original MAX	22	oz/a			POST							
16	KIH-485	3.5	oz/a	209	g a/ha	PRE	25.1 a-d	169.4 c-f	14.9 a				
	Roundup Original MAX	22	oz/a			POST							
17	KIH-485	4.2	oz/a	250	g a/ha	PRE	25.7 abc	167.9 def	14.8 a				
	Roundup Original MAX	22	oz/a			POST							
18	KIH-485	6.3	oz/a	375	g a/ha	PRE	22.7 a-d	174.8 c-f	15.5 a				
	Roundup Original MAX	22	oz/a			POST							
19	KIH-485	8.4	oz/a	500	g a/ha	PRE	25.7 abc	168.0 def	14.8 a				
	Roundup Original MAX	22	oz/a			POST							
20	Roundup Original MAX	22	oz/a			POST	-0.1 f	226.2 a	14.9 a				
LSD (P=.05)							17.95	40.57	1.31	1.72	6.87	5.25	8.42
Standard Deviation							10.88	24.58	0.79	1.00	4.00	3.06	4.91
CV							46.06	14.24	5.28	81.23	27.92	34.62	36.8
Grand Mean							23.62	172.62	15.03	1.23	14.33	8.83	13.33
Replicate F							2.910	2.911	0.215	0.631	3.486	4.366	3.462
Replicate Prob(F)							0.0667	0.0666	0.8074	0.5434	0.0525	0.0284	0.0535
Treatment F							3.181	3.181	0.999	20.373	61.295	58.624	44.615
Treatment Prob(F)							0.0012	0.0012	0.4834	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.

Northeast Research & Extension Center

Description						Corn, field	Corn, field	Sandbur	Sandbur	Sandbur	Sandbur
Rating Date						07-18-07	09-14-07	06-05-07	06-22-07	07-18-07	09-14-07
Rating Data Type						Stunting	Stunting	Control	Control	Control	Control
Rating Unit						percent	percent	percent	percent	percent	percent
Days After First/Last Applic.						75 40	133 98	32 32	49 14	75 40	133 98
Trt-Eval Interval											
Plant-Eval Interval						77 DP-1	135 DP-1	34 DP-1	51 DP-1	77 DP-1	135 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage						
1	Nontreated Check						0.0 e	0.0 c	0.0 f	0.0 e	0.0 j	0.0 j
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	0.0 e	0.0 c	30.0 e	10.0 e	20.0 i	30.0 i
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	0.0 e	0.0 c	50.0 d	46.7 d	26.7 hi	40.0 h
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	1.7 e	0.0 c	50.0 d	40.0 d	30.0 h	53.3 g
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	6.7 d	0.0 c	66.7 c	50.0 d	46.7 g	63.3 ef
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	10.0 d	10.0 bc	70.0 c	66.7 c	61.7 f	63.3 ef
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	25.0 c	23.3 ab	81.7 b	80.0 b	66.7 ef	66.7 de
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	26.7 c	23.3 ab	90.0 ab	90.0 ab	78.3 cd	70.0 de
9	KIH-485	6.3	oz/a	375	g a/ha	PRE	50.0 b	23.3 ab	94.3 a	89.7 ab	86.7 bc	80.0 bc
10	KIH-485	8.4	oz/a	500	g a/ha	PRE	60.0 a	36.7 a	99.7 a	98.0 a	98.0 a	93.3 a
11	KIH-485	0.42	oz/a	25	g a/ha	PRE				99.0 a	60.0 f	40.0 h
	Roundup Original MAX	22	oz/a			POST						
12	KIH-485	1.4	oz/a	83	g a/ha	PRE				99.0 a	66.7 ef	43.3 h
	Roundup Original MAX	22	oz/a			POST						
13	KIH-485	1.76	oz/a	105	g a/ha	PRE				99.0 a	66.7 ef	56.7 fg
	Roundup Original MAX	22	oz/a			POST						
14	KIH-485	2.52	oz/a	150	g a/ha	PRE				99.0 a	73.3 de	63.3 ef
	Roundup Original MAX	22	oz/a			POST						
15	KIH-485	3.02	oz/a	180	g a/ha	PRE				99.0 a	80.0 cd	66.7 de
	Roundup Original MAX	22	oz/a			POST						
16	KIH-485	3.5	oz/a	209	g a/ha	PRE				99.0 a	86.7 bc	73.3 cd
	Roundup Original MAX	22	oz/a			POST						
17	KIH-485	4.2	oz/a	250	g a/ha	PRE				99.0 a	93.3 ab	73.3 cd
	Roundup Original MAX	22	oz/a			POST						
18	KIH-485	6.3	oz/a	375	g a/ha	PRE				99.0 a	98.3 a	86.7 ab
	Roundup Original MAX	22	oz/a			POST						
19	KIH-485	8.4	oz/a	500	g a/ha	PRE				99.0 a	100.0 a	93.3 a
	Roundup Original MAX	22	oz/a			POST						
20	Roundup Original MAX	22	oz/a			POST				99.0 a		0.0 j
LSD (P=.05)							4.34	13.65	10.59	10.17	9.37	9.98
Standard Deviation							2.53	7.96	6.18	6.16	5.68	6.05
CV							14.04	68.21	9.77	7.9	8.7	10.46
Grand Mean							18.0	11.67	63.23	78.05	65.25	57.83
Replicate F							2.739	5.737	1.052	2.426	0.825	1.036
Replicate Prob(F)							0.0915	0.0118	0.3696	0.1020	0.4464	0.3647
Treatment F							226.609	9.035	77.461	79.547	77.340	56.300
Treatment Prob(F)							0.0001	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.

Additional Treatment Information
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
Other Rate Unit
G A/HA = Grams Active Ingredient per Hectare

2007 KIH-485 Protocol (Low organic sandy soils)

Trial ID: 07CRR-10 Protocol ID: 07 KIH Corn Low OM
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb DK60-19 RR
BBCH Scale: BCOR **Planting Date:** 05-19-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Seed Bed: COARSE/TRASHY
Soil Moisture: SLIGHTLY DRY **Emergence Date:** 05-21-07

Pest Description

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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	05-11-07	Roundup Original MAX	5.5	lbai/ga	SL	32	oz/A	n

Soil Description

% Sand: 64 **% OM:** 1.6 **Texture:** Sandy Loam
% Silt: 20 **pH:** 6.3
% Clay: 16 **CEC:** 10.1

Application Description

	A	B
Application Date:	05-21-07	06-23-07
Time of Day:	7 am	3:00 pm
Application Method:	spray	spray
Application Timing:	PRE	POST
Application Placement:	surface	foliar
Air Temperature, Unit:	65 f	80 f
% Relative Humidity:	80	50
Wind Velocity, Unit:	8 mph	3 mph
Wind Direction:	s	se
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	60 f	74 f
Soil Moisture:	adequate	adequate
% Cloud Cover:	90	30
Next Rain Occurred On:	05-23-07	

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V6
Height, Unit:		15 in

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W
Height, Unit:		12 in
Height Minimum, Maximum:		6 15
Density, Unit:		20 m2

Application Equipment

	A	B
Appl. Equipment:	backpack	BACKPACK
Operating Pressure, Unit:	18 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

2007 KIH-485 Protocol (Low organic sandy soils)

Trial ID: 07CRR-10 Protocol ID: 07 KIH Corn Low OM
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Corn, field 10-29-07 Yield@15.5% bu/A	Corn, field 10-29-07 Moisture %	Corn, field 06-21-07 Stunting percent	Corn, field 07-08-07 Stunting percent	Green foxtail 06-21-07 Control percent	Green foxtail 07-08-07 Control percent
	Days After First/Last Applic.						161 128	161 128	31 31	48 15	31 31	48 15
	Trt-Eval Interval											
	Plant-Eval Interval						163 DP-1	163 DP-1	33 DP-1	50 DP-1	33 DP-1	50 DP-1
1	Nontreated Check						46.8 e	14.2 c	0.0 b	0.0 d	0.0 h	0.0 i
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	129.4 d	15.8 ab	0.0 b	0.0 d	28.3 g	23.3 h
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	179.3 bc	16.5 a	0.0 b	0.0 d	63.3 de	60.0 f
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	181.7 abc	16.4 a	0.0 b	0.0 d	79.7 a-d	66.7 ef
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	188.6 abc	16.5 a	0.0 b	0.0 d	80.0 a-d	68.3 ef
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	194.6 ab	16.4 a	0.0 b	0.0 d	80.0 a-d	73.3 de
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	195.2 ab	16.5 a	0.0 b	0.0 d	92.7 a	83.3 bcd
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	185.5 abc	16.5 a	0.0 b	3.3 cd	86.3 ab	76.7 cde
9	KIH-485	6.3	oz/a	375	g a/ha	PRE	192.3 abc	16.2 a	3.3 ab	3.3 cd	99.0 a	88.0 abc
10	KIH-485	8.4	oz/a	500	g a/ha	PRE	187.2 abc	16.3 a	6.7 a	8.3 bc	97.7 a	90.0 ab
11	KIH-485	0.42	oz/a	25	g a/ha	PRE	203.5 a	16.5 a	0.0 b	0.0 d	35.0 fg	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
12	KIH-485	1.4	oz/a	83	g a/ha	PRE	199.7 ab	16.4 a	0.0 b	0.0 d	60.0 e	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
13	KIH-485	1.76	oz/a	105	g a/ha	PRE	192.6 abc	16.2 a	0.0 b	0.0 d	66.7 cde	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
14	KIH-485	2.52	oz/a	150	g a/ha	PRE	196.8 ab	15.8 ab	0.0 b	0.0 d	83.0 abc	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
15	KIH-485	3.02	oz/a	180	g a/ha	PRE	183.7 abc	16.0 ab	0.0 b	0.0 d	91.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
16	KIH-485	3.5	oz/a	209	g a/ha	PRE	202.9 a	16.0 ab	0.0 b	0.0 d	91.3 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
17	KIH-485	4.2	oz/a	250	g a/ha	PRE	187.1 abc	16.3 a	0.0 b	0.0 d	88.3 ab	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
18	KIH-485	6.3	oz/a	375	g a/ha	PRE	184.9 abc	16.2 a	0.0 b	10.0 b	95.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
19	KIH-485	8.4	oz/a	500	g a/ha	PRE	178.9 bc	15.9 ab	3.3 ab	18.3 a	95.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
20	Dual II Magnum	1.3	pt/a	1400	g a/ha	PRE	170.2 c	15.9 ab	0.0 b	0.0 d	53.3 ef	46.7 g
21	Dual II Magnum	1.3	pt/a	1400	g a/ha	PRE	201.2 ab	16.0 ab	0.0 b	0.0 d	70.0 b-e	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
22	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	141.5 d	15.1 bc	0.0 b	0.0 d	0.0 h	99.0 a
	Ammonium Sulfate	17	lb/100 gal			POST						
LSD (P=.05)							23.32	0.99	3.49	6.23	19.53	11.80
Standard Deviation							14.13	0.60	2.12	3.77	11.83	7.15
CV							7.92	3.74	348.98	191.53	16.93	8.91
Grand Mean							178.34	16.07	0.61	1.97	69.89	80.24
Replicate F							1.846	9.994	1.355	2.422	0.016	2.564
Replicate Prob(F)							0.1718	0.0003	0.2690	0.1010	0.9841	0.0890
Treatment F							17.896	2.444	1.871	4.441	18.995	43.670
Treatment Prob(F)							0.0001	0.0068	0.0417	0.0001	0.0001	0.0001

Northeast Research & Extension Center

Description	Corn, field	Corn, field	Corn, field	Corn, field	Green foxtail	Green foxtail
Rating Date	10-29-07	10-29-07	06-21-07	07-08-07	06-21-07	07-08-07
Rating Data Type	Yield@15.5%	Moisture	Stunting	Stunting	Control	Control
Rating Unit	bu/A	%	percent	percent	percent	percent
Days After First/Last Applic.	161 128	161 128	31 31	48 15	31 31	48 15
Trt-Eval Interval						
Plant-Eval Interval	163 DP-1	163 DP-1	33 DP-1	50 DP-1	33 DP-1	50 DP-1

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.

Northeast Research & Extension Center

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Green foxtail 07-18-07 Control percent 58 25 60 DP-1	Green foxtail 07-18-07 Density m2 RunCH 58 25 60 DP-1	Green foxtail 09-13-07 Control percent 115 82 117 DP-1
1	Nontreated Check						0.0 h	23.3 a	0.0 h
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	16.7 gh	23.3 a	13.3 gh
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	43.3 ef	21.7 a	35.0 f
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	70.0 cd	8.0 a	71.7 cde
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	60.0 de	23.3 a	56.7 e
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	76.7 cd	21.7 a	63.3 de
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	81.7 bc	23.3 a	83.3 a-d
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	71.7 cd	14.0 a	63.3 de
9	KIH-485	6.3	oz/a	375	g a/ha	PRE	96.7 ab	15.0 a	91.7 abc
10	KIH-485	8.4	oz/a	500	g a/ha	PRE	95.0 ab	20.0 a	86.7 abc
11	KIH-485	0.42	oz/a	25	g a/ha	PRE	98.3 ab	15.0 a	97.7 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
12	KIH-485	1.4	oz/a	83	g a/ha	PRE	95.0 ab	18.3 a	94.7 ab
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
13	KIH-485	1.76	oz/a	105	g a/ha	PRE	96.7 ab	13.7 a	97.7 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
14	KIH-485	2.52	oz/a	150	g a/ha	PRE	95.0 ab	6.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
15	KIH-485	3.02	oz/a	180	g a/ha	PRE	96.7 ab	16.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
16	KIH-485	3.5	oz/a	209	g a/ha	PRE	96.7 ab	7.3 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
17	KIH-485	4.2	oz/a	250	g a/ha	PRE	96.7 ab	20.0 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
18	KIH-485	6.3	oz/a	375	g a/ha	PRE	100.0 a	14.0 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
19	KIH-485	8.4	oz/a	500	g a/ha	PRE	99.7 a	18.3 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
20	Dual II Magnum	1.3	pt/a	1400	g a/ha	PRE	26.7 fg	23.3 a	25.0 fg
21	Dual II Magnum	1.3	pt/a	1400	g a/ha	PRE	95.0 ab	10.3 a	96.3 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST			
	Ammonium Sulfate	17	lb/100 gal			POST			
22	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	95.0 ab	16.7 a	75.0 b-e
	Ammonium Sulfate	17	lb/100 gal			POST			
LSD (P=.05)							16.87	12.28	21.31
Standard Deviation							10.23	7.44	12.91
CV							13.21	43.78	17.27
Grand Mean							77.41	17.0	74.79
Replicate F							2.194	1.287	0.302
Replicate Prob(F)							0.1241	0.2869	0.7409
Treatment F							25.510	1.621	17.091
Treatment Prob(F)							0.0001	0.0916	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.

Additional Treatment Information
Treatment Name

Additional Treatment Information
Ammonium Sulfate = |
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]
PT/A = Pints Product per Acre (Metric=L/HA)|P
Other Rate Unit
G A/HA = Grams Active Ingredient per Hectare

2007 KIH-485 Protocol (Higher organic soils)

Trial ID: 07CRR-11 Protocol ID: 07 KIH Corn Higher OM
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory **Country:** USA
Organization: University of Nebraska **Phone No:** 402-584-2261
Address 1: 57905 866 RD **Fax No:** 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb DK60-19 RR
BBCH Scale: BCOR **Planting Date:** 05-19-07
Planting Method: seeded **Rate, Unit:** 24503 s/a
Depth, Unit: 2 in
Row Spacing, Unit: 30 in
Seed Bed: FINE/TRASHY
Soil Moisture: NORMAL **Emergence Date:** 05-28-07

Pest Description

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

Pest 2 Type: W **Code:** AMATU Amaranthus tuberculatus
Common Name: Tall waterhemp

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:
Trial was field cultivated before planting.
Note larger weeds in trial that were missed by field cultivator.

Field Prep./Maintenance:
Field cultivated twice.
Approx. 30 dayw before planting and on May 17, 2007

Soil Description

% Sand: 16 **% OM:** 3.1 **Texture:** SILTY CLAY LOAM
% Silt: 54 **pH:** 7.5 **Soil Name:** Kennebec
% Clay: 30 **CEC:** 18.1

Application Description

	A	B
Application Date:	05-21-07	06-23-07
Time of Day:	9:30 am	3:30 pm
Application Method:	spray	spray
Application Timing:	PRE	POST
Application Placement:	surface	foliar
Air Temperature, Unit:	70 f	80 f
% Relative Humidity:	70	50
Wind Velocity, Unit:	10 mph	3 mph
Wind Direction:	s	se
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	61 f	74 f
Soil Moisture:	adequate	adequate
% Cloud Cover:	90	30
Next Rain Occurred On:	05-23-07	

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V6
Height, Unit:		15 in

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W
Height, Unit:		9 in
Height Minimum, Maximum:		6 12
Density, Unit:		5 m2
Pest 2 Code, Disc., Scale:	AMATU W	AMATU W
Height, Unit:		9 in
Height Minimum, Maximum:		2 18
Density, Unit:		20 m2

Application Equipment

	A	B
Appl. Equipment:	backpack	BACKPACK
Operating Pressure, Unit:	18 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

2007 KIH-485 Protocol (Higher organic soils)

Trial ID: 07CRR-11 Protocol ID: 07 KIH Corn Higher OM
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Corn, field 10-30-07 Yield@15.5% bu/A	Corn, field 10-30-07 Moisture %	Corn, field 07-08-07 Stunting percent	Green foxtail 06-21-07 Control percent	Green foxtail 07-08-07 Control percent	Green foxtail 07-18-07 Control percent
Rating Date							10-30-07	10-30-07	07-08-07	06-21-07	07-08-07	07-18-07
Rating Data Type							Yield@15.5%	Moisture	Stunting	Control	Control	Control
Rating Unit							bu/A	%	percent	percent	percent	percent
Days After First/Last Applic.							162 129	162 129	48 15	31 31	48 15	58 25
Trt-Eval Interval												
Plant-Eval Interval							164 DP-1	164 DP-1	50 DP-1	33 DP-1	50 DP-1	60 DP-1
1	Nontreated Check						131.3 e	15.0 a	0.0 c	0.0 g	0.0 f	0.0 g
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	186.5 d	15.6 a	0.0 c	33.3 f	8.3 f	16.7 f
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	201.2 a-d	15.3 a	0.0 c	80.0 de	53.3 e	23.3 f
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	201.4 a-d	15.5 a	0.0 c	83.0 cde	61.7 e	53.3 e
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	202.6 a-d	15.4 a	0.0 c	86.3 bcd	76.7 d	66.7 d
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	205.2 a-d	15.5 a	0.0 c	99.0 a	86.7 c	68.3 d
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	202.4 a-d	15.3 a	0.0 c	96.0 ab	88.3 bc	81.7 c
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	211.8 abc	15.7 a	0.0 c	99.0 a	96.3 ab	86.7 bc
9	KIH-485	8.4	oz/a	500	g a/ha	PRE	192.6 cd	15.0 a	3.3 b	99.0 a	97.7 ab	93.3 ab
10	KIH-485	11.8	oz/a	700	g a/ha	PRE	209.2 abc	15.7 a	6.7 a	99.0 a	99.0 a	96.3 ab
11	KIH-485	0.42	oz/a	25	g a/ha	PRE	207.4 a-d	15.4 a	0.0 c	41.7 f	99.0 a	96.7 ab
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
12	KIH-485	1.4	oz/a	83	g a/ha	PRE	219.2 a	14.9 a	0.0 c	73.3 e	99.0 a	93.3 ab
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
13	KIH-485	1.76	oz/a	105	g a/ha	PRE	203.0 a-d	15.3 a	0.0 c	83.3 cde	99.0 a	96.7 ab
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
14	KIH-485	2.52	oz/a	150	g a/ha	PRE	215.3 ab	15.3 a	0.0 c	85.0 cd	99.0 a	98.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
15	KIH-485	3.02	oz/a	180	g a/ha	PRE	213.7 ab	15.3 a	0.0 c	99.0 a	99.0 a	99.7 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
16	KIH-485	3.5	oz/a	209	g a/ha	PRE	211.0 abc	15.4 a	0.0 c	99.0 a	99.0 a	98.3 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
17	KIH-485	4.2	oz/a	250	g a/ha	PRE	213.7 ab	15.6 a	0.0 c	99.0 a	99.0 a	100.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
18	KIH-485	8.4	oz/a	500	g a/ha	PRE	213.8 ab	15.2 a	0.0 c	99.0 a	99.0 a	100.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
19	KIH-485	11.8	oz/a	700	g a/ha	PRE	211.8 abc	15.5 a	0.0 c	99.0 a	99.0 a	98.3 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
20	Dual II Magnum	2	pt/a	2140	g a/ha	PRE	197.8 bcd	15.7 a	0.0 c	96.0 ab	88.3 bc	66.7 d
21	Dual II Magnum	2	pt/a	2140	g a/ha	PRE	214.8 ab	15.4 a	0.0 c	93.0 abc	99.0 a	100.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
22	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	202.5 a-d	15.6 a	0.0 c	0.0 g	99.0 a	93.3 ab
	Ammonium Sulfate	17	lb/100 gal			POST						
LSD (P=.05)							20.84	0.65	2.84	10.33	9.44	11.02
Standard Deviation							12.63	0.39	1.72	6.26	5.72	6.68
CV							6.22	2.57	378.38	7.91	6.82	8.51
Grand Mean							203.1	15.39	0.45	79.18	83.88	78.52
Replicate F							0.658	2.688	1.537	3.902	0.185	0.017
Replicate Prob(F)							0.5231	0.0797	0.2270	0.0279	0.8318	0.9835
Treatment F							6.037	0.990	2.463	74.642	75.694	60.077
Treatment Prob(F)							0.0001	0.4941	0.0064	0.0001	0.0001	0.0001

Northeast Research & Extension Center

Description	Corn, field	Corn, field	Corn, field	Green foxtail	Green foxtail	Green foxtail
Rating Date	10-30-07	10-30-07	07-08-07	06-21-07	07-08-07	07-18-07
Rating Data Type	Yield@15.5%	Moisture	Stunting	Control	Control	Control
Rating Unit	bu/A	%	percent	percent	percent	percent
Days After First/Last Applic.	162 129	162 129	48 15	31 31	48 15	58 25
Trt-Eval Interval						
Plant-Eval Interval	164 DP-1	164 DP-1	50 DP-1	33 DP-1	50 DP-1	60 DP-1

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.

Northeast Research & Extension Center

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Green foxtail	Green foxtail	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Description							Green foxtail	Green foxtail	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date							09-13-07	07-23-07	06-21-07	07-08-07	07-18-07	09-13-07
Rating Data Type							Control	Density	Control	Control	Control	Control
Rating Unit							percent	m2 RunCH	percent	percent	percent	percent
Days After First/Last Applic.							115 82	63 30	31 31	48 15	58 25	115 82
Trt-Eval Interval												
Plant-Eval Interval							117 DP-1	65 DP-1	33 DP-1	50 DP-1	60 DP-1	117 DP-1
1	Nontreated Check						0.0 d	8.3 a	0.0 g	0.0 e	0.0 g	0.0 e
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	11.7 d	5.0 a	33.3 f	0.0 e	16.7 f	3.3 e
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	60.0 c	5.0 a	81.7 cd	56.7 d	23.3 f	60.0 d
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	66.7 c	7.5 a	86.3 bc	81.7 c	63.3 e	78.3 c
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	70.0 c	6.7 a	93.0 abc	86.7 bc	76.7 cde	81.7 bc
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	86.7 b	7.5 a	99.0 a	85.0 bc	75.0 cde	83.3 bc
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	83.3 b	10.0 a	99.0 a	94.7 ab	81.7 bcd	90.0 abc
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	88.3 ab	5.0 a	99.0 a	97.7 a	86.7 abc	88.3 abc
9	KIH-485	8.4	oz/a	500	g a/ha	PRE	91.7 ab	4.3 a	99.0 a	99.0 a	96.3 a	93.0 ab
10	KIH-485	11.8	oz/a	700	g a/ha	PRE	93.0 ab	7.5 a	99.0 a	99.0 a	99.3 a	96.0 a
11	KIH-485	0.42	oz/a	25	g a/ha	PRE	99.0 a	7.5 a	63.3 e	99.0 a	96.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
12	KIH-485	1.4	oz/a	83	g a/ha	PRE	99.0 a	3.7 a	71.7 de	99.0 a	93.3 ab	97.7 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
13	KIH-485	1.76	oz/a	105	g a/ha	PRE	99.0 a	4.3 a	88.3 abc	99.0 a	96.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
14	KIH-485	2.52	oz/a	150	g a/ha	PRE	99.0 a	6.7 a	99.0 a	99.0 a	98.0 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
15	KIH-485	3.02	oz/a	180	g a/ha	PRE	99.0 a	5.0 a	99.0 a	99.0 a	99.7 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
16	KIH-485	3.5	oz/a	209	g a/ha	PRE	99.0 a	10.0 a	99.0 a	99.0 a	98.3 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
17	KIH-485	4.2	oz/a	250	g a/ha	PRE	99.0 a	5.0 a	99.0 a	99.0 a	100.0 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
18	KIH-485	8.4	oz/a	500	g a/ha	PRE	99.0 a	5.3 a	99.0 a	99.0 a	100.0 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
19	KIH-485	11.8	oz/a	700	g a/ha	PRE	99.0 a	3.7 a	99.0 a	99.0 a	98.3 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
20	Dual II Magnum	2	pt/a	2140	g a/ha	PRE	83.3 b	5.3 a	96.0 ab	90.0 abc	70.0 de	86.7 abc
21	Dual II Magnum	2	pt/a	2140	g a/ha	PRE	99.0 a	3.0 a	96.0 ab	99.0 a	100.0 a	99.0 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST						
	Ammonium Sulfate	17	lb/100 gal			POST						
22	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	99.0 a	5.0 a	0.0 g	99.0 a	93.3 ab	99.0 a
	Ammonium Sulfate	17	lb/100 gal			POST						
LSD (P=.05)							12.06	4.93	11.36	10.54	13.87	12.57
Standard Deviation							7.31	2.99	6.89	6.39	8.41	7.62
CV							8.82	50.09	8.42	7.48	10.49	9.07
Grand Mean							82.89	5.97	81.76	85.42	80.15	84.02
Replicate F							1.183	4.367	1.518	1.680	0.053	1.560
Replicate Prob(F)							0.3165	0.0200	0.2308	0.1987	0.9485	0.2220
Treatment F							42.709	1.272	60.306	63.316	36.821	41.601
Treatment Prob(F)							0.0001	0.2562	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.

Northeast Research & Extension Center

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
	Description						Waterhemp
	Rating Date						07-23-07
	Rating Data Type						Density
	Rating Unit						m2 RunCH
	Days After First/Last Applic.						63 30
	Trt-Eval Interval						
	Plant-Eval Interval						65 DP-1
1	Nontreated Check						16.7 ab
2	KIH-485	0.42	oz/a	25	g a/ha	PRE	23.3 a
3	KIH-485	1.4	oz/a	83	g a/ha	PRE	16.7 ab
4	KIH-485	1.76	oz/a	105	g a/ha	PRE	22.5 a
5	KIH-485	2.52	oz/a	150	g a/ha	PRE	15.0 abc
6	KIH-485	3.02	oz/a	180	g a/ha	PRE	12.5 bc
7	KIH-485	3.5	oz/a	209	g a/ha	PRE	10.0 bc
8	KIH-485	4.2	oz/a	250	g a/ha	PRE	16.7 ab
9	KIH-485	8.4	oz/a	500	g a/ha	PRE	7.7 c
10	KIH-485	11.8	oz/a	700	g a/ha	PRE	10.0 bc
11	KIH-485	0.42	oz/a	25	g a/ha	PRE	10.0 bc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
12	KIH-485	1.4	oz/a	83	g a/ha	PRE	23.3 a
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
13	KIH-485	1.76	oz/a	105	g a/ha	PRE	15.0 abc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
14	KIH-485	2.52	oz/a	150	g a/ha	PRE	11.7 bc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
15	KIH-485	3.02	oz/a	180	g a/ha	PRE	18.3 ab
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
16	KIH-485	3.5	oz/a	209	g a/ha	PRE	11.7 bc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
17	KIH-485	4.2	oz/a	250	g a/ha	PRE	15.0 abc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
18	KIH-485	8.4	oz/a	500	g a/ha	PRE	11.7 bc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
19	KIH-485	11.8	oz/a	700	g a/ha	PRE	10.0 bc
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
20	Dual II Magnum	2	pt/a	2140	g a/ha	PRE	13.3 bc
21	Dual II Magnum	2	pt/a	2140	g a/ha	PRE	16.7 ab
	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	
	Ammonium Sulfate	17	lb/100 gal			POST	
22	Roundup Original MAX	22	oz/a	1060	g a/ha	POST	17.5 ab
	Ammonium Sulfate	17	lb/100 gal			POST	
	LSD (P=.05)						8.51
	Standard Deviation						5.15
	CV						34.88
	Grand Mean						14.78
	Replicate F						1.824
	Replicate Prob(F)						0.1760
	Treatment F						2.251
	Treatment Prob(F)						0.0157

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

Additional Treatment Information
Ammonium Sulfate = |
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]
PT/A = Pints Product per Acre (Metric=L/HA)|P
Other Rate Unit
G A/HA = Grams Active Ingredient per Hectare