

Northeast Research & Extension Center

2009 Capreno, Laudis Corn Programs / Efficacy / University
 Title No. 2: 2009 Lexar Lumax Programs
 Trial ID: 09 CRLL-6 Capreno Lumax Protocol ID: 09 CRLL-6 Capreno Lumax
 Location: Concord, NE Study Director:
 Project ID: HP09NARDLL Investigator: Stevan Knezevic
 Sponsor Contact:

General Trial Information

Investigator: Stevan Knezevic

Trial Status: F one-year/final

Trial Location

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

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: Pioneer 35F40 Description: RLL
 BBCH Scale: BCOR Planting Date: 05-18-09
 Planting Method: SEEDED seeded Rate, Unit: 24503 s/a
 Depth, Unit: 2 in
 Row Spacing, Unit: 30 in
 Harvest Date: 11-12-09 Harvest Equipment: Almaco SP40
 Harvested Width, Unit: 5 ft Harvested Length, Unit: 28 ft
 % Standard Moisture: 15.5 Moisture Meter: almaco
 Weighing Equipment: almaco

Pest Description

Pest 1 Type: W Code: SETVI *Setaria viridis*
 Common Name: Green foxtail
 Pest 2 Type: W Code: ABUTH *Abutilon theophrasti*
 Common Name: Velvetleaf
 Pest 3 Type: W Code: AMATU *Amaranthus tuberculatus*
 Common Name: Tall waterhemp

Site and Design

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

Trial Initiation Comments:

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

	Previous Crops	Previous Pesticides	Year
1.	soybean	glyphosate	2008

Field Prep./Maintenance:

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

Soil Description

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

Analyzed By:

Midwest Labs

Application Description

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	A	B	C
Application Date:	05-19-09	06-05-09	06-17-09
Time of Day:	7 am	9:00 am	3:45 pm
Application Method:	spray	spray	spray
Application Timing:	PRE	EPOST	MPOST
Application Placement:	surface	foliar	foliar
Applied By:	js	js	rr
Air Temperature, Unit:	70 F	75 F	89 F
% Relative Humidity:	74	35	60
Wind Velocity, Unit:	2 mph	1 mph	4 mph
Wind Direction:	N	var	S
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	63 F	70 F	70 F
Soil Moisture:	adequate	dry	wet
% Cloud Cover:	15	30	50
Next Rain Occurred On:			06-17-09

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		DESC	DESC
Stage Majority, Percent:		V3 80	V5 80
Stage Minimum, Percent:		V2 20	V4 20
Height, Unit:		4 in	8 in

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETVI W	SETVI W	SETVI W
Height, Unit:		1.5 in	3.5 in
Height Minimum, Maximum:		1 2	3 4
Density, Unit:		20 m2	20 m2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		1.5 in	5 in
Height Minimum, Maximum:		1 2	4 6
Density, Unit:		10 m2	10 m2
Pest 3 Code, Type, Scale:	AMATU W	AMATU W	AMATU W
Height, Unit:		1.5 in	3.5 in
Height Minimum, Maximum:		1 2	3 4
Density, Unit:		5 m2	5 m2

Application Equipment

	A	B	C
Appl. Equipment:	backpack	backpack	BACKPACK
Operating Pressure, Unit:	20 psi	20 psi	40 PSI
Nozzle Type:	Turbo Tee	Turbo Tee	TURBO TEE
Nozzle Size:	11003	11003	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

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 Location: Concord, NE Study Director:
 Project ID: HP09NARDLL Investigator: Stevan Knezevic
 Sponsor Contact:

Description	Corn, field 11-12-09		Corn, field 11-12-09		Corn, field 06-03-09		Corn, field 06-17-09		Corn, field 06-25-09		Corn, field 07-02-09		Green foxtail 06-03-09
Rating Date	Yield@15.5%		Moisture		Injury		Injury		Injury		Injury		Control
Rating Type	by/A		%		%		%		%		%		Percent
Rating Unit	177 148		177 148		15 15		29 12		37 8		44 15		15 15
Days After First/Last Applic.	177 148		177 148		15 15		29 12		37 8		44 15		15 15
Trt-Eval Interval	177 148		177 148		15 15		29 12		37 8		44 15		15 15
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7	
1	Nontreated Check					110.350 e	18.150 a	0.0 a	0.0 b	0.0 c	0.0 d	0.0 c	
2	Corvus atrazine	3 oz/a	PRE	A		185.613 abc	16.560 c	0.0 a	0.0 b	12.7 a	3.3 ab	71.7 a	
	Capreno atrazine	3 oz/a	MPOST	C									
	COC	1 pt/a	MPOST	C									
	AMS	8.5 lb/100 gal	MPOST	C									
3	Corvus atrazine	3 oz/a	PRE	A		179.030 abc	17.073 bc	0.0 a	0.0 b	13.3 a	3.7 a	61.7 a	
	Capreno atrazine	3 oz/a	MPOST	C									
	MSO	1 pt/a	MPOST	C									
	AMS	8.5 lb/100 gal	MPOST	C									
4	Capreno Roundup PowerMAX	2 oz/a	MPOST	C		189.977 ab	16.723 bc			5.0 b	1.7 bcd		
	AMS	22 oz/a	MPOST	C									
	AMS	8.5 lb/100 gal	MPOST	C									
5	Capreno Roundup PowerMAX	3 oz/a	MPOST	C		192.393 ab	17.017 bc			14.3 a	2.3 abc		
	Superb HC	11 oz/a	MPOST	C									
	AMS	0.75 pt/a	MPOST	C									
	AMS	8.5 lb/100 gal	MPOST	C									
6	Capreno Ignite 280	2 oz/a	MPOST	C		194.957 a	17.273 b			5.3 b	0.7 cd		
	AMS	22 oz/a	MPOST	C									
	AMS	8.5 lb/100 gal	MPOST	C									
7	Laudis atrazine	2.607 oz/a	EPOST	B		189.667 ab	16.917 bc		0.0 b	0.0 c	0.0 d		
	MSO	1 pt/a	EPOST	B									
	AMS	1 % v/v	EPOST	B									
	AMS	8.5 lb/100 gal	EPOST	B									
8	Lexar	3 qt/a	PRE	A		169.973 cd	16.870 bc	0.0 a	0.0 b	0.0 c	0.0 d	81.7 a	
9	Lumax atrazine	2.5 qt/a	PRE	A		174.493 bc	16.977 bc	0.0 a	0.0 b	0.0 c	0.0 d	84.3 a	
10	Bicep II Magnum	2.1 qt/a	PRE	A		182.283 abc	16.843 bc	0.0 a	0.0 b	0.0 c	0.0 d	77.0 a	
	Callisto atrazine	3 oz/a	MPOST	C									
	COC	1 pt/a	MPOST	C									
	AMS	1 % v/v	MPOST	C									
	AMS	8.5 lb/100 gal	MPOST	C									
11	Halex GT	3.6 qt/a	EPOST	B		184.033 abc	17.250 b		0.7 a	0.0 c	0.0 d		
	NIS	0.25 % v/v	EPOST	B									
	AMS	8.5 lb/100 gal	EPOST	B									
12	Balance Flexx	5 oz/a	PRE	A		153.413 d	16.810 bc	0.0 a	0.0 b	0.0 c	0.0 d	36.7 b	
LSD (P=.05)						19.5533	0.5764	0.00	0.33	4.06	1.82	23.67	
Standard Deviation						11.5467	0.3404	0.00	0.19	2.40	1.07	13.30	
CV						6.58	2.0	0.0	259.81	56.82	110.25	22.55	
Grand Mean						175.52	17.04	0.0	0.07	4.22	0.97	59.0	
Bartlett's X2						13.475	21.331	0.0	0.0	8.202	1.71	1.623	
P(Bartlett's X2)						0.263	0.03*	.	.	0.084	0.789	0.899	
Replicate F						0.254	0.016	0.000	1.000	1.047	0.895	3.503	
Replicate Prob(F)						0.7781	0.9841	1.0000	0.3897	0.3677	0.4232	0.0634	
Treatment F						12.420	4.244	0.000	4.000	18.159	5.193	15.898	
Treatment Prob(F)						0.0001	0.0019	1.0000	0.0088	0.0001	0.0005	0.0001	

Description					Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	
Rating Date					06-17-09	06-25-09	06-25-09	07-02-09	08-12-09	06-03-09	06-17-09	
Rating Type					Control	Control	Density	Control	Control	Control	Control	
Rating Unit					Percent	Percent	m ² RunCH	Percent	Percent	Percent	Percent	
Days After First/Last Applic.					29 12	37 8	37 8	44 15	85 56	15 15	29 12	
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	8	9	10	11	12	13	14
1	Nontreated Check					0.0 c	0.0 d	0.0 d	0.0 d	0.0 c	0.0 b	0.0 e
2	Corvus atrazine	3 oz/a	qt/a	PRE	A	73.3 b	97.3 a	15.0 cd	97.3 a	94.7 a	82.0 a	80.3 bc
	Capreno atrazine	3 oz/a	pt/a	MPOST	C							
	COC	1 % v/v		MPOST	C							
	AMS	8.5 lb/100 gal		MPOST	C							
3	Corvus atrazine	3 oz/a	qt/a	PRE	A	75.0 b	97.7 a	16.7 bcd	96.7 a	95.3 a	78.3 a	84.7 abc
	Capreno atrazine	3 oz/a	pt/a	MPOST	C							
	MSO	1 % v/v		MPOST	C							
	AMS	8.5 lb/100 gal		MPOST	C							
4	Capreno Roundup PowerMAX	2 oz/a	oz/a	MPOST	C		99.0 a	12.7 cd	99.0 a	96.3 a		
	AMS	8.5 lb/100 gal		MPOST	C							
5	Capreno Roundup PowerMAX	3 oz/a	oz/a	MPOST	C		99.0 a	23.3 abc	99.0 a	98.0 a		
	Superb HC	11 oz/a	pt/a	MPOST	C							
	AMS	0.75 lb/100 gal		MPOST	C							
6	Capreno Ignite 280	2 oz/a	oz/a	MPOST	C		99.0 a	20.0 abc	99.0 a	98.3 a		
	AMS	22 oz/a	lb/100 gal	MPOST	C							
7	Laudis atrazine	2.607 oz/a	pt/a	EPOST	B	100.0 a	98.0 a	20.0 abc	94.3 a	85.0 a		100.0 a
	MSO	1 % v/v		EPOST	B							
	AMS	8.5 lb/100 gal		EPOST	B							
8	Lexar	3 qt/a	pt/a	PRE	A	96.3 a	79.0 b	23.3 abc	68.0 b	60.0 b	90.0 a	95.0 abc
9	Lumax atrazine	2.5 qt/a	pt/a	PRE	A	94.3 a	72.3 b	28.3 abc	61.7 bc	63.3 b	96.0 a	95.7 ab
10	Bicep II Magnum	2.1 qt/a	oz/a	PRE	A	93.0 a	96.0 a	33.3 ab	92.3 a	86.7 a	26.7 b	45.0 d
	Callisto atrazine	3 oz/a	pt/a	MPOST	C							
	COC	1 % v/v		MPOST	C							
	AMS	8.5 lb/100 gal		MPOST	C							
11	Halex GT	3.6 qt/a	qt/a	EPOST	B	100.0 a	99.0 a	33.3 ab	99.0 a	97.7 a		100.0 a
	NIS	0.25 % v/v		EPOST	B							
	AMS	8.5 lb/100 gal		EPOST	B							
12	Balance Flexx	5 oz/a	oz/a	PRE	A	63.3 b	45.0 c	35.0 a	41.7 c	61.7 b	80.0 a	78.3 c
LSD (P=.05)					17.54	14.98	17.95	20.28	17.47	30.26	17.13	
Standard Deviation					10.13	8.84	10.60	11.98	10.31	17.01	9.90	
CV					13.11	10.82	48.72	15.16	13.21	26.28	13.12	
Grand Mean					77.26	81.78	21.75	79.0	78.08	64.71	75.44	
Bartlett's X2					13.512	33.517	9.88	27.086	33.396	10.608	11.549	
P(Bartlett's X2)					0.019*	0.001*	0.451	0.001*	0.001*	0.06	0.042*	
Replicate F					0.374	0.224	8.870	0.865	0.476	0.107	1.693	
Replicate Prob(F)					0.6939	0.8011	0.0015	0.4349	0.6278	0.8992	0.2154	
Treatment F					29.676	35.853	2.733	20.376	23.405	13.779	33.437	
Treatment Prob(F)					0.0001	0.0001	0.0215	0.0001	0.0001	0.0001	0.0001	

Description						Waterhemp	Waterhemp
Rating Date						07-02-09	08-12-09
Rating Type						Control	Control
Rating Unit						Percent	Percent
Days After First/Last Applic.						44 15	85 56
Trt-Eval Interval							
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	23	24
1	Nontreated Check					0.0 d	0.0 d
2	Corvus	3 oz/a		PRE	A	99.0 a	99.0 a
	atrazine	1 qt/a		PRE	A		
	Capreno	3 oz/a		MPOST	C		
	atrazine	1 pt/a		MPOST	C		
	COC	1 % v/v		MPOST	C		
	AMS	8.5 lb/100 gal		MPOST	C		
3	Corvus	3 oz/a		PRE	A	99.0 a	99.0 a
	atrazine	1 qt/a		PRE	A		
	Capreno	3 oz/a		MPOST	C		
	atrazine	1 pt/a		MPOST	C		
	MSO	1 % v/v		MPOST	C		
	AMS	8.5 lb/100 gal		MPOST	C		
4	Capreno	2 oz/a		MPOST	C	99.0 a	98.3 a
	Roundup PowerMAX	22 oz/a		MPOST	C		
	AMS	8.5 lb/100 gal		MPOST	C		
5	Capreno	3 oz/a		MPOST	C	99.0 a	97.7 a
	Roundup PowerMAX	11 oz/a		MPOST	C		
	Superb HC	0.75 pt/a		MPOST	C		
	AMS	8.5 lb/100 gal		MPOST	C		
6	Capreno	2 oz/a		MPOST	C	99.0 a	97.7 a
	Ignite 280	22 oz/a		MPOST	C		
	AMS	8.5 lb/100 gal		MPOST	C		
7	Laudis	2.607 oz/a		EPOST	B	98.0 a	94.7 ab
	atrazine	1 pt/a		EPOST	B		
	MSO	1 % v/v		EPOST	B		
	AMS	8.5 lb/100 gal		EPOST	B		
8	Lexar	3 qt/a		PRE	A	95.0 ab	88.3 b
9	Lumax	2.5 qt/a		PRE	A	87.0 b	86.7 b
	atrazine	1 pt/a		PRE	A		
10	Bicep II Magnum	2.1 qt/a		PRE	A	99.0 a	99.0 a
	Callisto	3 oz/a		MPOST	C		
	atrazine	1 pt/a		MPOST	C		
	COC	1 % v/v		MPOST	C		
	AMS	8.5 lb/100 gal		MPOST	C		
11	Halex GT	3.6 qt/a		EPOST	B	99.0 a	99.0 a
	NIS	0.25 % v/v		EPOST	B		
	AMS	8.5 lb/100 gal		EPOST	B		
12	Balance Flexx	5 oz/a		PRE	A	48.3 c	66.7 c
LSD (P=.05)						8.53	8.88
Standard Deviation						5.04	5.24
CV						5.92	6.13
Grand Mean						85.11	85.5
Bartlett's X2						8.094	16.439
P(Bartlett's X2)						0.044*	0.012*
Replicate F						0.333	2.915
Replicate Prob(F)						0.7203	0.0754
Treatment F						109.875	88.815
Treatment Prob(F)						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.

Rating Unit

% = percent

Percent = percent

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 Location: Concord, NE Study Director:
 Project ID: HP09NARDLL Investigator: Stevan Knezevic
 Sponsor Contact:

Description						Corn, field	Corn, field	Corn, field	Corn, field	Corn, field	Corn, field	Green foxtail	
Rating Date						11-12-09	11-12-09	06-03-09	06-17-09	06-25-09	07-02-09	06-03-09	
Rating Type						Yield@15.5%	Moisture	Injury	Injury	Injury	Injury	Control	
Rating Unit						by/A	%	%	%	%	%	Percent	
Days After First/Last Applic.						177 148	177 148	15 15	29 12	37 8	44 15	15 15	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6	7
1	Nontreated Check					101	122.890	17.450		0.0	0.0	0.0	0.0
						211	97.520	19.040	0.0	0.0	0.0	0.0	0.0
						309	110.640	17.960	0.0	0.0	0.0	0.0	0.0
						Mean =	110.350	18.150	0.0	0.0	0.0	0.0	0.0
2	Corvus	3 oz/a		PRE	A	102	195.200	16.540	0.0	0.0	10.0	3.0	75.0
	atrazine	1 qt/a		PRE	A	204	194.290	16.670		0.0	10.0	2.0	50.0
	Capreno	3 oz/a		MPOST	C	302	167.350	16.470	0.0	0.0	18.0	5.0	90.0
	atrazine	1 pt/a		MPOST	C								
	COC	1 % v/v		MPOST	C								
	AMS	8.5 lb/100 gal		MPOST	C								
						Mean =	185.613	16.560	0.0	0.0	12.7	3.3	71.7
3	Corvus	3 oz/a		PRE	A	103	187.490	16.820		0.0	15.0	5.0	50.0
	atrazine	1 qt/a		PRE	A	209	181.210	17.040	0.0	0.0	15.0	3.0	60.0
	Capreno	3 oz/a		MPOST	C	305	168.390	17.360	0.0	0.0	10.0	3.0	75.0
	atrazine	1 pt/a		MPOST	C								
	MSO	1 % v/v		MPOST	C								
	AMS	8.5 lb/100 gal		MPOST	C								
						Mean =	179.030	17.073	0.0	0.0	13.3	3.7	61.7
4	Capreno	2 oz/a		MPOST	C	104	201.200	16.870			3.0	0.0	
	Roundup PowerMAX	22 oz/a		MPOST	C	203	191.240	16.640			6.0	3.0	
	AMS	8.5 lb/100 gal		MPOST	C	301	177.490	16.660			6.0	2.0	
						Mean =	189.977	16.723	.	.	5.0	1.7	.
5	Capreno	3 oz/a		MPOST	C	105	186.390	16.970			8.0	0.0	
	Roundup PowerMAX	11 oz/a		MPOST	C	206	194.050	17.010			20.0	5.0	
	Superb HC	0.75 pt/a		MPOST	C	307	196.740	17.070			15.0	2.0	
	AMS	8.5 lb/100 gal		MPOST	C								
						Mean =	192.393	17.017	.	.	14.3	2.3	.
6	Capreno	2 oz/a		MPOST	C	106	189.640	17.480			5.0	0.0	
	Ignite 280	22 oz/a		MPOST	C	208	199.370	17.290			6.0	2.0	
	AMS	8.5 lb/100 gal		MPOST	C	304	195.860	17.050			5.0	0.0	
						Mean =	194.957	17.273	.	.	5.3	0.7	.
7	Laudis	2.607 oz/a		EPOST	B	107	185.750	17.060		0.0	0.0	0.0	
	atrazine	1 pt/a		EPOST	B	205	187.070	17.030		0.0	0.0	0.0	
	MSO	1 % v/v		EPOST	B	312	196.180	16.660		0.0	0.0	0.0	
	AMS	8.5 lb/100 gal		EPOST	B								
						Mean =	189.667	16.917	.	0.0	0.0	0.0	.
8	Lexar	3 qt/a		PRE	A	108	169.000	17.090	0.0	0.0	0.0	0.0	70.0
						202	180.760	16.340	0.0	0.0	0.0	0.0	95.0
						310	160.160	17.180	0.0	0.0	0.0	0.0	80.0
						Mean =	169.973	16.870	0.0	0.0	0.0	0.0	81.7

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Description						Corn, field	Corn, field	Corn, field	Corn, field	Corn, field	Corn, field	Green foxtail		
Rating Date						11-12-09	11-12-09	06-03-09	06-17-09	06-25-09	07-02-09	06-03-09		
Rating Type						Yield@15.5%	Moisture	Injury	Injury	Injury	Injury	Control		
Rating Unit						by/A	%	%	%	%	%	Percent		
Days After First/Last Applic.						177 148	177 148	15 15	29 12	37 8	44 15	15 15		
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6	7	
9	Lumax atrazine	2.5	qt/a	PRE	A	109	164.480	17.250	0.0	0.0	0.0	0.0	75.0	
		1	pt/a	PRE	A	212	157.390	16.570	0.0	0.0	0.0	0.0	80.0	
						303	201.610	17.110	0.0	0.0	0.0	0.0	98.0	
		Mean =						174.493	16.977	0.0	0.0	0.0	0.0	84.3
10	Bicep II Magnum Callisto atrazine COC AMS	2.1	qt/a	PRE	A	110	191.880	16.790	0.0	0.0	0.0	0.0	50.0	
		3	oz/a	MPOST	C	207	178.600	16.810	0.0	0.0	0.0	0.0	96.0	
		1	pt/a	MPOST	C	311	176.370	16.930	0.0	0.0	0.0	0.0	85.0	
		1	% v/v	MPOST	C									
		8.5	lb/100 gal	MPOST	C									
Mean =						182.283	16.843	0.0	0.0	0.0	0.0	77.0		
11	Halex GT NIS AMS	3.6	qt/a	EPOST	B	111	186.370	17.290		1.0	0.0	0.0		
		0.25	% v/v	EPOST	B	210	183.960	17.080		1.0	0.0	0.0		
		8.5	lb/100 gal	EPOST	B	306	181.770	17.380		0.0	0.0	0.0		
		Mean =						184.033	17.250	.	0.7	0.0	0.0	.
12	Balance Flexx	5	oz/a	PRE	A	112	148.490	16.700	0.0	0.0	0.0	0.0	20.0	
						201	154.280	17.060	0.0	0.0	0.0	0.0	50.0	
						308	157.470	16.670	0.0	0.0	0.0	0.0	40.0	
		Mean =						153.413	16.810	0.0	0.0	0.0	0.0	36.7

Description						Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	
Rating Date						06-17-09	06-25-09	06-25-09	07-02-09	08-12-09	06-03-09	06-17-09	
Rating Type						Control	Control	Density	Control	Control	Control	Control	
Rating Unit						Percent	Percent	m2 RunCH	Percent	Percent	Percent	Percent	
Days After First/Last Applic.						29 12	37 8	37 8	44 15	85 56	15 15	29 12	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	8	9	10	11	12	13	14
1	Nontreated Check					101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						211	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						309	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	Corvus	3 oz/a		PRE	A	102	90.0	98.0	25.0	98.0	98.0	60.0	60.0
	atrazine	1 qt/a		PRE	A	204	60.0	96.0	10.0	96.0	89.0	90.0	96.0
	Capreno	3 oz/a		MPOST	C	302	70.0	98.0	10.0	98.0	97.0	96.0	85.0
	atrazine	1 pt/a		MPOST	C								
	COC	1 % v/v		MPOST	C								
	AMS	8.5 lb/100 gal		MPOST	C								
						Mean =	73.3	97.3	15.0	97.3	94.7	82.0	80.3
3	Corvus	3 oz/a		PRE	A	103	70.0	97.0	20.0	95.0	95.0	85.0	70.0
	atrazine	1 qt/a		PRE	A	209	75.0	98.0	25.0	96.0	92.0	60.0	94.0
	Capreno	3 oz/a		MPOST	C	305	80.0	98.0	5.0	99.0	99.0	90.0	90.0
	atrazine	1 pt/a		MPOST	C								
	MSO	1 % v/v		MPOST	C								
	AMS	8.5 lb/100 gal		MPOST	C								
						Mean =	75.0	97.7	16.7	96.7	95.3	78.3	84.7
4	Capreno	2 oz/a		MPOST	C	104		99.0	15.0	99.0	97.0		
	Roundup PowerMAX	22 oz/a		MPOST	C	203		99.0	13.0	99.0	95.0		
	AMS	8.5 lb/100 gal		MPOST	C	301		99.0	10.0	99.0	97.0		
						Mean =	.	99.0	12.7	99.0	96.3	.	.
5	Capreno	3 oz/a		MPOST	C	105		99.0	30.0	99.0	97.0		
	Roundup PowerMAX	11 oz/a		MPOST	C	206		99.0	30.0	99.0	98.0		
	Superb HC	0.75 pt/a		MPOST	C	307		99.0	10.0	99.0	99.0		
	AMS	8.5 lb/100 gal		MPOST	C								
						Mean =	.	99.0	23.3	99.0	98.0	.	.
6	Capreno	2 oz/a		MPOST	C	106		99.0	30.0	99.0	99.0		
	Ignite 280	22 oz/a		MPOST	C	208		99.0	25.0	99.0	97.0		
	AMS	8.5 lb/100 gal		MPOST	C	304		99.0	5.0	99.0	99.0		
						Mean =	.	99.0	20.0	99.0	98.3	.	.
7	Laudis	2.607 oz/a		EPOST	B	107	100.0	99.0	30.0	95.0	85.0		100.0
	atrazine	1 pt/a		EPOST	B	205	100.0	98.0	15.0	95.0	90.0		100.0
	MSO	1 % v/v		EPOST	B	312	100.0	97.0	15.0	93.0	80.0		100.0
	AMS	8.5 lb/100 gal		EPOST	B								
						Mean =	100.0	98.0	20.0	94.3	85.0	.	100.0
8	Lexar	3 qt/a		PRE	A	108	95.0	80.0	30.0	64.0	60.0	85.0	92.0
						202	98.0	97.0	15.0	90.0	80.0	95.0	98.0
						310	96.0	60.0	25.0	50.0	40.0	90.0	95.0
						Mean =	96.3	79.0	23.3	68.0	60.0	90.0	95.0

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Description						Green foxtail	Green foxtail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf		
Rating Date						06-17-09	06-25-09	06-25-09	07-02-09	08-12-09	06-03-09	06-17-09		
Rating Type						Control	Control	Density	Control	Control	Control	Control		
Rating Unit						Percent	Percent	m ² RunCH	Percent	Percent	Percent	Percent		
Days After First/Last Applic.						29 12	37 8	37 8	44 15	85 56	15 15	29 12		
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	8	9	10	11	12	13	14	
9	Lumax atrazine	2.5	qt/a	PRE	A	109	90.0	60.0	50.0	40.0	50.0	95.0	95.0	
		1	pt/a	PRE	A	212	95.0	60.0	30.0	50.0	50.0	95.0	95.0	
						303	98.0	97.0	5.0	95.0	90.0	98.0	97.0	
		Mean =						94.3	72.3	28.3	61.7	63.3	96.0	95.7
10	Bicep II Magnum Callisto atrazine COC AMS	2.1	qt/a	PRE	A	110	85.0	97.0	40.0	90.0	85.0	50.0	35.0	
		3	oz/a	MPOST	C	207	98.0	96.0	20.0	97.0	95.0	10.0	40.0	
		1	pt/a	MPOST	C	311	96.0	95.0	40.0	90.0	80.0	20.0	60.0	
		1	% v/v	MPOST	C									
		8.5	lb/100 gal	MPOST	C									
Mean =						93.0	96.0	33.3	92.3	86.7	26.7	45.0		
11	Halex GT NIS AMS	3.6	qt/a	EPOST	B	111	100.0	99.0	50.0	99.0	95.0		100.0	
		0.25	% v/v	EPOST	B	210	100.0	99.0	40.0	99.0	99.0		100.0	
		8.5	lb/100 gal	EPOST	B	306	100.0	99.0	10.0	99.0	99.0		100.0	
		Mean =						100.0	99.0	33.3	99.0	97.7	.	100.0
12	Balance Flexx	5	oz/a	PRE	A	112	50.0	40.0	60.0	30.0	50.0	95.0	85.0	
						201	90.0	55.0	15.0	65.0	75.0	95.0	90.0	
						308	50.0	40.0	30.0	30.0	60.0	50.0	60.0	
		Mean =						63.3	45.0	35.0	41.7	61.7	80.0	78.3

Description						Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp		
Rating Date						06-25-09	06-25-09	07-02-09	08-12-09	06-03-09	06-17-09	06-25-09	06-25-09		
Rating Type						Control	Density	Control	Control	Control	Control	Control	Density		
Rating Unit						Percent	m2 RunCH	Percent	Percent	Percent	Percent	Percent	m2 RunCH		
Days After First/Last Applic.						37 8	37 8	44 15	85 56	15 15	29 12	37 8	37 8		
Trt-Eval Interval															
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	15	16	17	18	19	20	21	22	
1	Nontreated Check					101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
						211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
						309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
						Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	Corvus atrazine	3 oz/a	PRE	A	AMS	102	99.0	1.0	99.0	99.0	100.0	93.0	99.0	15.0	
						204	99.0	3.0	99.0	99.0	90.0	98.0	99.0	30.0	
						302	99.0	3.0	99.0	99.0	96.0	95.0	99.0	15.0	
						Mean =	99.0	2.3	99.0	99.0	95.3	95.3	99.0	20.0	
3	Corvus atrazine	3 oz/a	PRE	A	AMS	103	99.0	3.0	99.0	99.0	98.0	95.0	99.0	5.0	
						209	99.0	10.0	99.0	98.0	70.0	95.0	99.0	5.0	
						305	99.0	3.0	99.0	95.0	95.0	95.0	99.0	15.0	
						Mean =	99.0	5.3	99.0	97.3	87.7	95.0	99.0	8.3	
4	Capreno Roundup PowerMAX	2 oz/a	MPOST	C	AMS	104	99.0	5.0	99.0	99.0			99.0	10.0	
						203	99.0	3.0	99.0	99.0			99.0	45.0	
						301	99.0	5.0	99.0	99.0			99.0	20.0	
						Mean =	99.0	4.3	99.0	99.0	.	.	99.0	25.0	
5	Capreno Roundup PowerMAX	3 oz/a	MPOST	C	AMS	105	99.0	2.0	99.0	99.0			99.0	10.0	
						206	99.0	5.0	98.0	95.0			99.0	10.0	
						307	99.0	8.0	99.0	99.0			99.0	20.0	
						Mean =	99.0	5.0	98.7	97.7	.	.	99.0	13.3	
6	Capreno Ignite 280	2 oz/a	MPOST	C	AMS	106	99.0	5.0	99.0	99.0			99.0	15.0	
						208	99.0	10.0	98.0	99.0			99.0	10.0	
						304	99.0	5.0	99.0	99.0			99.0	20.0	
Mean =	99.0	6.7	98.7	99.0	.	.	99.0	15.0							
7	Laudis atrazine	2.607 oz/a	EPOST	B	AMS	107	99.0	15.0	99.0	99.0		100.0	99.0	20.0	
						205	99.0	10.0	95.0	90.0		100.0	99.0	25.0	
						312	99.0	3.0	99.0	99.0		100.0	99.0	20.0	
						Mean =	99.0	9.3	97.7	96.0	.	100.0	99.0	21.7	
8	Lexar	3 qt/a	PRE	A		108	95.0	15.0	95.0	99.0	100.0	97.0	95.0	20.0	
						202	97.0	2.0	95.0	99.0	100.0	98.0	98.0	40.0	
						310	95.0	10.0	85.0	99.0	95.0	98.0	97.0	20.0	
						Mean =	95.7	9.0	91.7	99.0	98.3	97.7	96.7	26.7	

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Description						Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp		
Rating Date						06-25-09	06-25-09	07-02-09	08-12-09	06-03-09	06-17-09	06-25-09	06-25-09		
Rating Type						Control	Density	Control	Control	Control	Control	Control	Density		
Rating Unit						Percent	m2 RunCH	Percent	Percent	Percent	Percent	Percent	m2 RunCH		
Days After First/Last Applic.						37	8	37	8	44	15	85	56		
Trt-Eval Interval						15	16	17	18	19	20	21	22		
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	15	16	17	18	19	20	21	22	
9	Lumax atrazine	2.5	qt/a	PRE	A	109	95.0	15.0	90.0	99.0	100.0	98.0	90.0	15.0	
		1	pt/a	PRE	A	212	95.0	6.0	85.0	95.0	98.0	98.0	95.0	20.0	
						303	95.0	3.0	90.0	95.0	100.0	100.0	98.0	30.0	
		Mean =						95.0	8.0	88.3	96.3	99.3	98.7	94.3	21.7
10	Bicep II Magnum Callisto atrazine COC AMS	2.1	qt/a	PRE	A	110	99.0	2.0	99.0	99.0	100.0	90.0	99.0	6.0	
		3	oz/a	MPOST	C	207	99.0	10.0	99.0	99.0	50.0	90.0	99.0	5.0	
		1	pt/a	MPOST	C	311	98.0	10.0	99.0	99.0	60.0	90.0	99.0	20.0	
		1	% v/v	MPOST	C										
		8.5	lb/100 gal	MPOST	C										
Mean =						98.7	7.3	99.0	99.0	70.0	90.0	99.0	10.3		
11	Halex GT NIS AMS	3.6	qt/a	EPOST	B	111	99.0	3.0	99.0	99.0		100.0	99.0	15.0	
		0.25	% v/v	EPOST	B	210	99.0	10.0	99.0	99.0		100.0	99.0	20.0	
		8.5	lb/100 gal	EPOST	B	306	99.0	8.0	99.0	99.0		100.0	99.0	20.0	
Mean =						99.0	7.0	99.0	99.0	.	100.0	99.0	18.3		
12	Balance Flexx	5	oz/a	PRE	A	112	50.0	2.0	50.0	99.0	100.0	90.0	70.0	20.0	
						201	50.0	2.0	60.0	99.0	90.0	92.0	80.0	50.0	
						308	40.0	10.0	30.0	95.0	85.0	60.0	50.0	25.0	
		Mean =						46.7	4.7	46.7	97.7	91.7	80.7	66.7	31.7

Description						Waterhemp	Waterhemp	
Rating Date						07-02-09	08-12-09	
Rating Type						Control	Control	
Rating Unit						Percent	Percent	
Days After First/Last Applic.						44 15	85 56	
Trt-Eval Interval								
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	23	24
1	Nontreated Check					101	0.0	0.0
						211	0.0	0.0
						309	0.0	0.0
						Mean =	0.0	0.0
2	Corvus	3 oz/a		PRE	A	102	99.0	99.0
	atrazine	1 qt/a		PRE	A	204	99.0	99.0
	Capreno	3 oz/a		MPOST	C	302	99.0	99.0
	atrazine	1 pt/a		MPOST	C			
	COC	1 % v/v		MPOST	C			
	AMS	8.5 lb/100 gal		MPOST	C			
						Mean =	99.0	99.0
3	Corvus	3 oz/a		PRE	A	103	99.0	99.0
	atrazine	1 qt/a		PRE	A	209	99.0	99.0
	Capreno	3 oz/a		MPOST	C	305	99.0	99.0
	atrazine	1 pt/a		MPOST	C			
	MSO	1 % v/v		MPOST	C			
	AMS	8.5 lb/100 gal		MPOST	C			
						Mean =	99.0	99.0
4	Capreno	2 oz/a		MPOST	C	104	99.0	99.0
	Roundup PowerMAX	22 oz/a		MPOST	C	203	99.0	99.0
	AMS	8.5 lb/100 gal		MPOST	C	301	99.0	97.0
						Mean =	99.0	98.3
5	Capreno	3 oz/a		MPOST	C	105	99.0	99.0
	Roundup PowerMAX	11 oz/a		MPOST	C	206	99.0	95.0
	Superb HC	0.75 pt/a		MPOST	C	307	99.0	99.0
	AMS	8.5 lb/100 gal		MPOST	C			
						Mean =	99.0	97.7
6	Capreno	2 oz/a		MPOST	C	106	99.0	99.0
	Ignite 280	22 oz/a		MPOST	C	208	99.0	95.0
	AMS	8.5 lb/100 gal		MPOST	C	304	99.0	99.0
						Mean =	99.0	97.7
7	Laudis	2.607 oz/a		EPOST	B	107	99.0	99.0
	atrazine	1 pt/a		EPOST	B	205	96.0	90.0
	MSO	1 % v/v		EPOST	B	312	99.0	95.0
	AMS	8.5 lb/100 gal		EPOST	B			
						Mean =	98.0	94.7
8	Lexar	3 qt/a		PRE	A	108	95.0	90.0
						202	98.0	90.0
						310	92.0	85.0
						Mean =	95.0	88.3

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Description						Waterhemp	Waterhemp	
Rating Date						07-02-09	08-12-09	
Rating Type						Control	Control	
Rating Unit						Percent	Percent	
Days After First/Last Applic.						44 15	85 56	
Trt-Eval Interval								
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	23	24
9	Lumax atrazine	2.5	qt/a	PRE	A	109	85.0	95.0
		1	pt/a	PRE	A	212	80.0	70.0
						303	96.0	95.0
		Mean =						87.0
10	Bicep II Magnum Callisto atrazine COC AMS	2.1	qt/a	PRE	A	110	99.0	99.0
		3	oz/a	MPOST	C	207	99.0	99.0
		1	pt/a	MPOST	C	311	99.0	99.0
		1	% v/v	MPOST	C			
		8.5	lb/100 gal	MPOST	C			
Mean =						99.0	99.0	
11	Halex GT NIS AMS	3.6	qt/a	EPOST	B	111	99.0	99.0
		0.25	% v/v	EPOST	B	210	99.0	99.0
		8.5	lb/100 gal	EPOST	B	306	99.0	99.0
Mean =						99.0	99.0	
12	Balance Flexx	5	oz/a	PRE	A	112	40.0	80.0
						201	65.0	60.0
						308	40.0	60.0
		Mean =						48.3

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2009 Capreno, Laudis Corn Programs / Efficacy / University

Title No. 2: 2009 Lexar Lumax Programs

Trial ID: 09 CRLL-6 Capreno Lumax Protocol ID: 09 CRLL-6 Capreno Lumax

Location: Concord, NE Study Director:

Project ID: HP09NARDLL Investigator: Stevan Knezevic

Sponsor Contact:

Rating Unit

% = percent

Percent = percent