

2008 Laudis, Capreno Corn Efficacy Key weeds and timings

Trial ID: 07 08 BAY DLW Sandbur Protocol ID: 08 BAY DLW Sandbur
Location: Concord, 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
Variety: Dekalb DKC 61-73 RR2 YGCB
BBCH Scale: BCOR Planting Date: 06-17-08
Planting Method: seeded Rate, Unit: 30000 s/a
Depth, Unit: 1.75 in
Row Spacing, Unit: 30 in

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis (L.) P.Beauv.
Common Name: Foxtail, green
Pest 2 Type: W Code: CCHIN Cenchrus incertis M.A.Curtis
Common Name: Sandbur, field
Pest 3 Type: W Code: AMATU Amaranthus tuberculatos (Moq.) J
Common Name: Waterhemp, tall

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

Table with 4 columns: Previous Crops, Previous Pesticides, Year. Row 1: Soybean, glyphosate, 2007

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

Table with 2 columns: Application Description, Value. Rows include Application Date (07-10-08), Time of Day (5:00 pm), Application Method (spray), Application Timing (POST), Application Placement (foliar), Applied By (js), Air Temperature (90 F), % Relative Humidity (48), Wind Velocity (4 mph), Wind Direction (sw), Dew Presence (n), Soil Temperature (80 F), Soil Moisture (good), % Cloud Cover (5)

Crop Stage At Each Application

	A	
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V4	50
Stage Maximum, Percent:	V5	50
Height, Unit:	6	in
Height Minimum, Maximum:	5	8

Pest Stage At Each Application

	A	
Pest 1 Code, Disc., Scale:	SETVI	W
Height, Unit:	4	in
Density, Unit:	50	m2
Pest 2 Code, Disc., Scale:	CCHIN	W
Height, Unit:	4	in
Density, Unit:	1	m2
Pest 3 Code, Disc., Scale:	AMATU	W
Height, Unit:	2.5	in
Height Minimum, Maximum:	2	3
Density, Unit:	20	m2

Application Equipment

	A	
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

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Description	Corn, field	Corn, field	Corn, field	Green foxtail	Green foxtail	Green foxtail	Sandbur	Sandbur	Sandbur	Waterhemp	Waterhemp	Waterhemp				
Rating Date	07-18-08	07-25-08	08-25-08	07-18-08	07-25-08	08-25-08	07-18-08	07-25-08	08-25-08	07-18-08	07-25-08	08-25-08				
Rating Data Type	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control	Control	Control	Control				
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent				
Days After First/Last Applic.	8 8	15 15	46 46	8 8	15 15	46 46	8 8	15 15	46 46	8 8	15 15	46 46				
Trt-Eval Interval	8 DA-A	15 DA-A	46 DA-A	8 DA-A	15 DA-A	46 DA-A	8 DA-A	15 DA-A	46 DA-A	8 DA-A	15 DA-A	46 DA-A				
Plant-Eval Interval	31 DP-1	38 DP-1	69 DP-1	31 DP-1	38 DP-1	69 DP-1	31 DP-1	38 DP-1	69 DP-1	31 DP-1	38 DP-1	69 DP-1				
Trt No.	Treatment Name	Rate	Unit	Growth Stage												
1	Laudis atrazine COC 28% UAN	3 oz/a 1 pt/a 1 % v/v 1.5 qt/a	oz/a pt/a % v/v qt/a	EPOST EPOST EPOST EPOST	0.0 a	0.0 a	0.0 a	88.3 ab	94.0 ab	89.0 a	93.3 a	96.0 a	96.0 a	99.0 a	99.0 a	99.0 a
2	Laudis atrazine MSO 28% UAN	3 oz/a 1 pt/a 1 % v/v 1.5 qt/a	oz/a pt/a % v/v qt/a	EPOST EPOST EPOST EPOST	0.0 a	0.0 a	0.0 a	93.3 a	95.7 a	94.3 a	98.7 a	97.7 a	96.3 a	99.0 a	99.0 a	99.0 a
3	Laudis MSO 28% UAN	3 oz/a 1 % v/v 1.5 qt/a	oz/a % v/v qt/a	EPOST EPOST EPOST	0.0 a	0.0 a	0.0 a	53.3 d	56.7 c	51.7 b	56.7 b	56.7 b	53.3 b	96.0 a	99.0 a	99.0 a
4	Capreno atrazine COC 28% UAN	3 oz/a 1 pt/a 1 % v/v 1.5 qt/a	oz/a pt/a % v/v qt/a	EPOST EPOST EPOST EPOST	0.0 a	0.0 a	0.0 a	83.3 bc	93.7 ab	91.0 a	93.3 a	96.3 a	93.0 a	99.0 a	99.0 a	99.0 a
5	Capreno atrazine MSO 28% UAN	3 oz/a 1 pt/a 1 % v/v 1.5 qt/a	oz/a pt/a % v/v qt/a	EPOST EPOST EPOST EPOST	0.0 a	0.0 a	0.0 a	80.0 c	90.0 ab	81.7 a	90.0 a	94.0 a	86.7 a	99.0 a	99.0 a	99.0 a
6	Capreno MSO 28% UAN	3 oz/a 1 % v/v 1.5 qt/a	oz/a % v/v qt/a	EPOST EPOST EPOST	0.0 a	0.0 a	0.0 a	53.3 d	83.3 b	85.0 a	63.3 b	90.0 a	90.0 a	91.0 a	99.0 a	99.0 a
LSD (P=.05)	0.00	0.00	0.00	8.08	11.71	16.70	20.45	9.76	14.48	10.24	0.00	0.00				
Standard Deviation	0.00	0.00	0.00	4.44	6.44	9.18	11.24	5.36	7.96	5.63	0.00	0.00				
CV	0.0	0.0	0.0	5.9	7.53	11.18	13.62	6.06	9.26	5.79	0.0	0.0				
Grand Mean	0.0	0.0	0.0	75.28	85.56	82.11	82.56	88.44	85.89	97.17	99.0	99.0				
Replicate F	0.000	0.000	0.000	3.451	1.063	4.186	0.409	0.564	3.323	1.909	0.000	0.000				
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0725	0.3815	0.0478	0.6748	0.5859	0.0783	0.1986	1.0000	1.0000				
Treatment F	0.000	0.000	0.000	47.056	15.900	8.626	7.534	26.029	12.690	1.000	0.000	0.000				
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0002	0.0021	0.0036	0.0001	0.0005	0.4651	1.0000	1.0000				

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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