

2008 Nebraska Demo's

Trial ID: 17 08 BAY NE DemosWEST Protocol ID: 08 BAY NE Demos
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 35F40 Description: HX1 LL RR2
BBCH Scale: BCOR Planting Date: 06-04-08
Planting Method: seeded Rate, Unit: 24503 s/a
Depth, Unit: 1.75 in
Row Spacing, Unit: 30 in
Soil Moisture: ABOVE NORMAL
Harvest Date: 11-26-08 Harvest Equipment: Almaco 40
Harvested Width, Unit: 5 ft Harvested Length, Unit: 27 ft
% Standard Moisture: 15.5

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis (L.) P.Beauv.
Common Name: Foxtail, green
Pest 2 Type: W Code: ABUTH Abutilon theophrasti Medik.
Common Name: Velvetleaf
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

Maintenance

Table with 10 columns: No., Date, Maintenance Treatment Name, Form Conc, Form Unit, Form Type, Rate, Rate Unit, Tank Mix. Rows 1-2: glyphosate applications

Soil Description

Description Name: 08CRNHRBW
% Sand: 12 % OM: 3.4 Texture: SILT LOAM
% Silt: 62 pH: 6.7 Soil Name: Baltic
% Clay: 26 CEC: 20.4 Fert. Level: EXCELLENT
Analyzed By:
Midwest Labs

Application Description

	A	B	C
Application Date:	06-04-08	06-18-08	06-30-08
Time of Day:	5:00 pm	11:00 am	2:00 pm
Application Method:	spray	spray	spray
Application Timing:	PRE	EPOST	POST
Application Placement:	surface	foliar	foliar
Applied By:		js	js
Air Temperature, Unit:	75 F	81 F	86 F
% Relative Humidity:	70	40	36
Wind Velocity, Unit:	1 mph	2 mph	4 mph
Wind Direction:	var	S	S
Dew Presence (Y/N):	n	n	n
Soil Temperature, Unit:	68 F	72 F	82 F
Soil Moisture:	EXCESSIVE	ADEQUATE	ADEQUATE
% Cloud Cover:	100	50	10
Next Rain Occurred On:	06-05-08		

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	
Stage Majority, Percent:		V2 90	
Stage Maximum, Percent:		V3 10	
Height, Unit:		6 in	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., 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	
Pest 2 Code, Disc., 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	5 m2
Pest 3 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W
Height, Unit:		1 in	5 in
Height Minimum, Maximum:			4 6
Density, Unit:		1 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 Liters	1.8 Liters	1.8 Liters
Propellant:	co2	co2	co2

Northeast Research & Extension Center

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 Trial ID: 17 08 BAY NE DemosWEST Protocol ID: 08 BAY NE Demos
 Location: Concord, NE Study Director: Stevan Knezevic
 Investigator: Stevan Knezevic

Description	Corn, field	Corn, field	Corn, field	Corn, field	Green Foxtail	Green Foxtail	Green Foxtail	Green Foxtail	Velvetleaf	Velvetleaf				
Rating Date	11-26-08	11-26-08	06-30-08	07-18-08	06-30-08	07-18-08	07-18-08	08-06-08	06-30-08	07-18-08				
Rating Data Type	Yield	Moisture	Injury	Injury	Control	Control	Density	Control	Control	Control				
Rating Unit	Bu/A15.5	%	Percent	Percent	Percent	Percent	m2 RunCH	Percent	Percent	Percent				
Days After First/Last Applic.	175 149	175 149	26 0	44 18	26 0	44 18	44 18	63 37	26 0	44 18				
Plant-Eval Interval	175 DP-1	175 DP-1	26 DP-1	44 DP-1	26 DP-1	44 DP-1	44 DP-1	63 DP-1	26 DP-1	44 DP-1				
Trt No.	Treatment Name	Rate	Growth Unit	Stage										
1	Balance Pro atrazine	2 oz/a 0.5 lb a/a	PRE	PRE	195.8 a	15.0 a	0.0 a	0.0 a	90.0	65.0 ab	90.0 a	73.3 b	99.0	85.0 bc
2	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	PRE	PRE	188.4 a	14.8 a	0.0 a	0.0 a	80.0	73.3 ab	90.0 a	71.7 b	99.0	91.7 ab
3	Balance Flexx atrazine	8 oz/a 0.5 lb a/a	PRE	PRE	201.9 a	14.3 b	0.0 a	0.0 a	85.0	75.0 a	93.3 a	86.7 a	99.0	98.7 a
4	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	2" spike	2" spike	196.7 a	14.2 b	0.0 a	0.0 a	35.0	58.3 ab	90.0 a	33.3 d	99.0	97.7 a
5	Corvus atrazine	3.3 oz/a 0.5 lb a/a	PRE	PRE	201.3 a	14.3 b	0.0 a	0.0 a	80.0	48.3 bc	90.0 a	50.0 c	99.0	71.7 d
6	Corvus atrazine	3.3 oz/a 0.5 lb a/a	2" spike	2" spike	189.6 a	14.0 b	0.0 a	0.0 a	65.0	23.3 c	73.3 a	28.3 d	99.0	80.0 c
7	Capreno atrazine COC Ammonium Sulfate	3 oz/a 0.5 lb a/a 1 qt/a 1.5 lb/a	POST POST POST	POST	186.3 a	13.6 c	0.0 a	0.0 a	.	23.3 c	90.0 a	25.0 d	.	95.0 a
LSD (P=.05)		11.26	0.34	0.00	0.00	.	26.06	60.48	9.24	.	7.99			
Standard Deviation		6.33	0.19	0.00	0.00	.	14.65	33.99	5.19	.	4.49			
CV		3.26	1.35	0.0	0.0	.	27.96	38.59	9.87	.	5.08			
Grand Mean		194.28	14.31	0.0	0.0	72.5	52.38	88.1	52.62	99.0	88.52			
Replicate F		0.009	1.177	0.000	0.000		1.537	0.548	2.956		3.774			
Replicate Prob(F)		0.9911	0.3415	1.0000	1.0000		0.2544	0.5919	0.0904		0.0535			
Treatment F		2.942	18.229	0.000	0.000		6.642	0.114	68.235		15.045			
Treatment Prob(F)		0.0528	0.0001	1.0000	1.0000		0.0028	0.9928	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	Velvetleaf 07-18-08	Velvetleaf 08-06-08	Waterhemp 06-30-08	Waterhemp 07-18-08	Waterhemp 07-18-08	Waterhemp 08-06-08			
Rating Date	Density	Control	Control	Control	Density	Control			
Rating Data Type	m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent			
Rating Unit	44 18	63 37	26 0	44 18	44 18	63 37			
Days After First/Last Applic.	44 DP-1	63 DP-1	26 DP-1	44 DP-1	44 DP-1	63 DP-1			
Plant-Eval Interval									
Trt No.	Treatment Name	Rate	Growth Stage						
1	Balance Pro atrazine	2 oz/a 0.5 lb a/a	PRE PRE	11.7 a	81.7 b	90.0	84.3 bc	14.0 a	80.0 b
2	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	PRE PRE	17.7 a	83.3 b	99.0	93.3 ab	11.0 a	91.7 a
3	Balance Flexx atrazine	8 oz/a 0.5 lb a/a	PRE PRE	13.3 a	94.7 a	99.0	98.7 a	9.0 a	94.7 a
4	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	2" spike 2" spike	24.0 a	90.0 a	99.0	97.7 a	8.7 a	93.3 a
5	Corvus atrazine	3.3 oz/a 0.5 lb a/a	PRE PRE	21.7 a	73.3 c	99.0	78.3 c	13.0 a	91.7 a
6	Corvus atrazine	3.3 oz/a 0.5 lb a/a	2" spike 2" spike	30.0 a	81.7 b	99.0	91.7 ab	7.3 a	92.3 a
7	Capreno atrazine COC Ammonium Sulfate	3 oz/a 0.5 lb a/a 1 qt/a 1.5 lb/a	POST POST POST POST	14.0 a	93.3 a	.	95.0 a	5.7 a	93.3 a
LSD (P=.05)				17.52	5.80	.	10.16	11.93	5.83
Standard Deviation				9.85	3.26	.	5.71	6.70	3.28
CV				52.1	3.82	.	6.26	68.34	3.6
Grand Mean				18.9	85.43	97.5	91.29	9.81	91.0
Replicate F				0.620	4.523		0.188	0.319	1.916
Replicate Prob(F)				0.5541	0.0344		0.8309	0.7329	0.1897
Treatment F				1.369	16.336		5.046	0.605	6.891
Treatment Prob(F)				0.3021	0.0001		0.0084	0.7219	0.0024

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Additional Treatment Information	
<u>Treatment Name</u>	Ammonium Sulfate =
<u>Rate Unit</u>	
	OZ/A = Ounces Product per Acre (Metric=ML-G/HA) O
	LB A/A = Pounds Active Ingredient per Acre (Metric=KG A/HA) A
	QT/A = Quarts Product per Acre (Metric=L/HA) Q
	LB/A = Pounds Product per Acre (Metric=KG/MU) AE