

2008 Nebraska Demo's

Trial ID: 16 08 BAY NE DemosEAST 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: 12-04-08 Harvest Equipment: SPC-40
Harvested Width, Unit: 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 (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
Pest 4 Type: W Code: AMARE Amaranthus retroflexus L.
Common Name: Pigweed, redroot

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. Row 1: 1, 05-18-08, glyphosate, 5.5, lbai/ga, SL, 32, oz/A, n

Soil Description

% Sand: 40 % OM: 2.1 Texture: LOAM
% Silt: 44 pH: 3.8
% Clay: 16 CEC: 13.7 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:	rr su	rr	rr
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	BBCH
Stage Majority, Percent:		V2 90	V5 80
Stage Minimum, Percent:			V4 5
Stage Maximum, Percent:		V3 10	V6 15
Height, Unit:		4 in	10 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	7 in
Height Minimum, Maximum:		1 2	6 8
Density, Unit:		5 m2	10 m2
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		1.5 in	7 in
Height Minimum, Maximum:		1 2	6 8
Density, Unit:		2 m2	5 m2
Pest 3 Code, Disc., Scale:	AMATU W	AMATU W	AMATU W
Height, Unit:		1 in	7 in
Height Minimum, Maximum:		1 1	6 8
Density, Unit:		2 m2	1 m2
Pest 4 Code, Disc., Scale:	AMARE W	AMARE W	AMARE W
Height, Unit:		1 in	7 in
Height Minimum, Maximum:		1 1	6 8
Density, Unit:		2 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

Northeast Research & Extension Center

2008 Nebraska Demo's  
 Trial ID: 16 08 BAY NE DemosEAST      Protocol ID: 08 BAY NE Demos  
 Location: Concord, NE                      Study Director: Stevan Knezevic  
    Investigator: Stevan Knezevic

Description	Corn, field	Corn, field	Corn	Corn	Green foxtail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf				
Rating Date	12-04-08	12-04-08	07-03-08	08-06-08	07-03-08	07-18-08	07-18-08	08-05-08	07-03-08	07-18-08	07-18-08				
Rating Data Type	Yield	Moisture	Injury	Injury	Control	Control	Density	Control	Control	Control	Density				
Rating Unit	bu/A15.5	Percent	Percent	Percent	Percent	Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH				
Days After First/Last Applic.	183 157	183 157	29 3	63 37	29 3	44 18	44 18	62 36	29 3	44 18	44 18				
Plant-Eval Interval	183 DP-1	183 DP-1	29 DP-1	63 DP-1	29 DP-1	44 DP-1	44 DP-1	62 DP-1	29 DP-1	44 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		180.3 a	14.3 a	0.0 a	0.0 a	90.0	99.0	5.0	99.0	99.0	99.0	1.0
2	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	PRE PRE		195.5 a	13.5 bc	0.0 a	0.0 a	99.0	99.0	5.0	99.0	99.0	99.0	1.0
3	Balance Flexx atrazine	8 oz/a 0.5 lb a/a	PRE PRE		193.6 a	14.0 ab	0.0 a	0.0 a	99.0	99.0	15.0	99.0	99.0	99.0	1.0
4	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	2" spike 2" spike		181.4 a	13.7 bc	0.0 a	0.0 a	50.0	30.0	20.0	80.0	99.0	99.0	1.0
5	Corvus atrazine	3.3 oz/a 0.5 lb a/a	PRE PRE		193.6 a	13.8 bc	0.0 a	0.0 a	99.0	95.0	15.0	87.0	99.0	99.0	1.0
6	Corvus atrazine	3.3 oz/a 0.5 lb a/a	2" spike 2" spike		194.9 a	13.5 c	0.0 a	0.0 a	75.0	50.0	20.0	70.0	99.0	99.0	2.0
7	Capreno atrazine COC Ammonium Sulfate	3 oz/a 0.5 lb a/a 1 qt/a 1.5 lb/a	POST POST POST		174.4 a	13.5 c	0.0 a	0.0 a	.	80.0	15.0	90.0	.	99.0	2.0
LSD (P=.05)		15.65	0.49	0.00	0.00	.	.	.	.	.	.	.	.	.	.
Standard Deviation		8.80	0.28	0.00	0.00	.	.	.	.	.	.	.	.	.	.
CV		4.69	2.0	0.0	0.0	.	.	.	.	.	.	.	.	.	.
Grand Mean		187.66	13.75	0.0	0.0	85.33	78.86	13.57	89.14	99.0	99.0	1.29			
Replicate F		5.867	0.606	0.000	0.000										
Replicate Prob(F)		0.0167	0.5614	1.0000	1.0000										
Treatment F		2.928	3.839	0.000	0.000										
Treatment Prob(F)		0.0535	0.0227	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.

Northeast Research & Extension Center

Description	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Redroot pigweed	Redroot pigweed	Redroot pigweed	Redroot pigweed			
Rating Date	08-05-08	07-03-08	07-18-08	07-18-08	08-05-08	07-03-08	07-18-08	07-18-08	08-05-08			
Rating Data Type	Control	Control	Control	Density	Control	Control	Control	Density	Control			
Rating Unit	Percent	Percent	Percent	m2 RunCH	Percent	Percent	Percent	Percent	Percent			
Days After First/Last Applic.	62 36	29 3	44 18	44 18	62 36	29 3	44 18	44 18	62 36			
Plant-Eval Interval	62 DP-1	29 DP-1	44 DP-1	44 DP-1	62 DP-1	29 DP-1	44 DP-1	44 DP-1	62 DP-1			
Trt No.	Treatment Name	Rate	Growth Stage									
1	Balance Pro atrazine	2 oz/a 0.5 lb a/a	PRE PRE	99.0	99.0	99.0	5.0	99.0	99.0	95.0	5.0	99.0
2	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	PRE PRE	99.0	99.0	90.0	5.0	97.0	99.0	99.0	5.0	99.0
3	Balance Flexx atrazine	8 oz/a 0.5 lb a/a	PRE PRE	99.0	99.0	99.0	5.0	99.0	99.0	99.0	10.0	99.0
4	Balance Flexx atrazine	4 oz/a 0.5 lb a/a	2" spike 2" spike	99.0	99.0	99.0	5.0	99.0	99.0	99.0	10.0	99.0
5	Corvus atrazine	3.3 oz/a 0.5 lb a/a	PRE PRE	99.0	99.0	90.0	5.0	96.0	99.0	90.0	5.0	99.0
6	Corvus atrazine	3.3 oz/a 0.5 lb a/a	2" spike 2" spike	99.0	99.0	99.0	5.0	99.0	99.0	95.0	5.0	99.0
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	99.0	.	99.0	5.0	99.0	.	99.0	10.0	99.0
LSD (P=.05)				.	.	.	.	.	.	.	.	.
Standard Deviation				.	.	.	.	.	.	.	.	.
CV				.	.	.	.	.	.	.	.	.
Grand Mean				99.0	99.0	96.43	5.0	98.29	99.0	96.57	7.14	99.0
Replicate F												
Replicate Prob(F)												
Treatment F												
Treatment Prob(F)												

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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