

Northeast Research & Extension Center

2008 Samson Corn Herbicide (nicosulfuron 4%SC)

Trial ID: 26 08 NICO 15USNE0801P Protocol ID: 08 NICO 15USNE0801PWR
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

Maintenance

Table with 9 columns: No., Date, Maintenance Treatment Name, Form Conc, Form Unit, Form Type, Rate, Rate Unit, Tank Mix. Contains 2 rows of maintenance data.

Soil Description

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

Application Description

	A
Application Date:	06-30-08
Time of Day:	2:00 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	86 F
% Relative Humidity:	36
Wind Velocity, Unit:	4 mph
Wind Direction:	S
Dew Presence (Y/N):	n
Soil Temperature, Unit:	82 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	V5 80
Stage Minimum, Percent:	V4 5
Stage Maximum, Percent:	V6 15
Height, Unit:	10 in

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	SETVI W
Height, Unit:	3.5 in
Height Minimum, Maximum:	3 4
Density, Unit:	5 m2
Pest 2 Code, Disc., Scale:	ABUTH W
Height, Unit:	5 in
Height Minimum, Maximum:	4 6
Density, Unit:	5 m2
Pest 3 Code, Disc., Scale:	AMATU W
Height, Unit:	5 in
Height Minimum, Maximum:	4 6

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

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 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	Velvetleaf	Velvetleaf	Velvetleaf				
Rating Date	11-26-08	11-26-08	07-08-08	08-04-08	07-08-08	08-04-08	08-04-08	07-08-08	08-04-08	08-04-08				
Rating Data Type	Yield	Moisture	Injury	Injury	Control	Control	Density	Control	Control	Density				
Rating Unit	Bu/A15.5	%	Percent	Percent	Percent	Percent	m2 RunCH	Percent	Percent	m2 RunCH				
Days After First/Last Applic.	149 149	149 149	8 8	35 35	8 8	35 35	35 35	8 8	35 35	35 35				
Trt-Eval Interval	149 DA-A	149 DA-A	8 DA-A	35 DA-A	8 DA-A	35 DA-A	35 DA-A	8 DA-A	35 DA-A	35 DA-A				
Plant-Eval Interval	175 DP-1	175 DP-1	34 DP-1	61 DP-1	34 DP-1	61 DP-1	61 DP-1	34 DP-1	61 DP-1	61 DP-1				
Trt No.	Treatment Name	Rate	Unit	Growth Stage										
1	Nontreated				117.4 b	16.9 a	0.0 a	0.0 a	0.0 c	0.0 d	5.0 a	0.0 d	0.0 c	3.3 a
2	Samson	12 oz/a	V5 corn		183.3 a	15.4 b	0.0 a	0.0 a	50.0 ab	95.3 a	4.0 a	53.3 c	98.3 a	3.0 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn											
	Impact	0.75 oz/a	V5 corn											
3	Samson	12 oz/a	V5 corn		179.4 a	15.9 b	0.0 a	0.0 a	60.0 ab	86.7 b	5.0 a	66.7 b	96.3 a	2.0 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn											
	Callisto	3 oz/a	V5 corn											
4	Samson	12 oz/a	V5 corn		175.3 a	16.0 b	0.0 a	0.0 a	63.3 a	76.7 c	5.0 a	78.3 a	99.0 a	1.7 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn											
	Clarity	16 oz/a	V5 corn											
5	Samson	12 oz/a	V5 corn		168.1 a	15.9 b	0.0 a	0.0 a	46.7 b	94.7 a	4.0 a	56.7 bc	73.3 b	3.0 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn											
	AAtrex	15 oz/a	V5 corn											
LSD (P=.05)					26.21	0.81	0.00	0.00	13.53	5.40	2.19	10.02	3.09	2.77
Standard Deviation					13.92	0.43	0.00	0.00	7.19	2.87	1.16	5.32	1.64	1.47
CV					8.45	2.7	0.0	0.0	16.34	4.06	25.26	10.44	2.24	56.61
Grand Mean					164.69	16.02	0.0	0.0	44.0	70.67	4.6	51.0	73.4	2.6
Replicate F					2.851	5.237	0.000	0.000	1.161	6.142	0.444	0.706	1.556	0.000
Replicate Prob(F)					0.1162	0.0352	1.0000	1.0000	0.3608	0.0242	0.6561	0.5220	0.2687	1.0000
Treatment F					11.325	4.312	0.000	0.000	37.871	590.588	0.667	96.118	1997.371	0.723
Treatment Prob(F)					0.0022	0.0376	1.0000	1.0000	0.0001	0.0001	0.6328	0.0001	0.0001	0.6001

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			
Rating Date	07-08-08	08-04-08	08-04-08			
Rating Data Type	Control	Control	Density			
Rating Unit	Percent	Percent	m2 RunCH			
Days After First/Last Applic.	8 8	35 35	35 35			
Trt-Eval Interval	8 DA-A	35 DA-A	35 DA-A			
Plant-Eval Interval	34 DP-1	61 DP-1	61 DP-1			
Trt No.	Treatment Name	Rate Unit	Growth Stage			
1	Nontreated			0.0 c	0.0 c	5.0 a
2	Samson	12 oz/a	V5 corn	53.3 b	98.3 a	3.3 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn			
	Impact	0.75 oz/a	V5 corn			
3	Samson	12 oz/a	V5 corn	63.3 b	96.3 a	5.0 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn			
	Callisto	3 oz/a	V5 corn			
4	Samson	12 oz/a	V5 corn	80.0 a	99.0 a	4.3 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn			
	Clarity	16 oz/a	V5 corn			
5	Samson	12 oz/a	V5 corn	53.3 b	70.0 b	5.0 a
	Ammonium Sulfate	8.5 lb/100 gal	V5 corn			
	AAtrex	15 oz/a	V5 corn			
LSD (P=.05)				11.91	4.29	1.79
Standard Deviation				6.32	2.28	0.95
CV				12.65	3.14	20.93
Grand Mean				50.0	72.73	4.53
Replicate F				1.625	2.090	0.074
Replicate Prob(F)				0.2557	0.1861	0.9292
Treatment F				67.500	1038.442	1.778
Treatment Prob(F)				0.0001	0.0001	0.2264

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

LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]