

2008 Corn Herbicide Programs Cadet and Resource treatments

Trial ID: 08 Corn Herb Cadet VL Protocol ID: 08 Corn Herb Cadet VL
 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 HX1 RR2 LL
 BBCH Scale: BCOR Planting Date: 06-07-08
 Planting Method: seeded Rate, Unit: 24503 s/a
 Depth, Unit: 2 in
 Row Spacing, Unit: 30 in

Pest Description

Pest 1 Type: W Code: ABUTH Abutilon theophrasti Medik.
 Common Name: Velvetleaf
 Pest 2 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

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	05-18-08	glyphosate	5.5	lbai/ga	SL	32	oz/A	n

Soil Description

% Sand: 18 % OM: 3.4 Texture: SILT LOAM
 % Silt: 62 pH: 6.6
 % Clay: 20 CEC: 17.8 Fert. Level: EXCELLENT
 Analyzed By:
 Midwest Labs

Application Description

	A
Application Date:	06-27-08
Time of Day:	12:00 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	85 F
% Relative Humidity:	47
Wind Velocity, Unit:	8 mph
Wind Direction:	NW
Dew Presence (Y/N):	n
Soil Temperature, Unit:	74 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	90

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	V4 90
Stage Maximum, Percent:	V5 10
Height, Unit:	8 in

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ABUTH W
Height, Unit:	12 in
Height Minimum, Maximum:	8 16
Density, Unit:	5 m2
Pest 2 Code, Disc., Scale:	AMATU W
Height, Unit:	12 in
Height Minimum, Maximum:	8 16
Density, Unit:	5 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	Corn	Corn	Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp
Rating Date			06-30-08	07-03-08	07-11-08	06-30-08	07-03-08	07-11-08	06-30-08	07-03-08	07-11-08
Rating Data Type			Necrosis	Necrosis	Necrosis	Control	Control	Control	Control	Control	Control
Rating Unit			Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.			3 3	6 6	14 14	3 3	6 6	14 14	3 3	6 6	14 14
Trt-Eval Interval			3 DA-A	6 DA-A	14 DA-A	3 DA-A	6 DA-A	14 DA-A	3 DA-A	6 DA-A	14 DA-A
Plant-Eval Interval			23 DP-1	26 DP-1	34 DP-1	23 DP-1	26 DP-1	34 DP-1	23 DP-1	26 DP-1	34 DP-1
Trt No.	Treatment Name	Rate									
		Unit									
		Growth Stage									
1	Cadet	0.2 oz/a	9.0 cd	4.0 f	0.0 e	76.7 bc	95.0 a	99.0 a	50.0 e	56.7 c	25.0 d
	COC	1 % v/v									
	Ammonium Sulfate	17 lb/100 gal									
2	Cadet	0.4 oz/a	15.0 bc	4.7 f	1.7 cde	95.0 a	98.7 a	99.0 a	75.0 bcd	73.3 bc	56.7 c
	COC	1 % v/v									
	Ammonium Sulfate	17 lb/100 gal									
3	Cadet	0.6 oz/a	22.7 b	12.7 cd	3.3 bc	96.7 a	99.0 a	99.0 a	85.0 abc	89.7 ab	87.3 ab
	COC	1 % v/v									
	Ammonium Sulfate	17 lb/100 gal									
4	Cadet	0.8 oz/a	25.0 b	19.3 bc	5.0 b	95.3 a	99.0 a	99.0 a	90.0 ab	91.7 ab	95.7 a
	COC	1 % v/v									
	Ammonium Sulfate	17 lb/100 gal									
5	Cadet	0.2 oz/a	1.3 d	0.7 f	0.0 e	71.7 c	97.3 a	99.0 a	63.3 de	85.0 ab	78.3 ab
	Credit Extra	24 oz/a									
	Ammonium Sulfate	17 lb/100 gal									
6	Cadet	0.4 oz/a	3.7 cd	2.7 f	0.3 de	92.7 a	97.7 a	99.0 a	70.0 cd	88.3 ab	88.3 ab
	Credit Extra	24 oz/a									
	Ammonium Sulfate	17 lb/100 gal									
7	Cadet	0.6 oz/a	9.3 cd	6.3 def	2.0 cde	96.3 a	99.0 a	99.0 a	87.7 ab	91.7 ab	90.7 ab
	Credit Extra	24 oz/a									
	Ammonium Sulfate	17 lb/100 gal									
8	Cadet	0.8 oz/a	10.0 cd	5.0 ef	2.7 bcd	96.0 a	98.7 a	99.0 a	85.0 abc	90.0 ab	89.0 ab
	Credit Extra	24 oz/a									
	Ammonium Sulfate	17 lb/100 gal									
9	Resource	4 oz/a	43.3 a	26.7 a	9.3 a	95.3 a	97.0 a	99.0 a	92.3 a	95.0 a	89.0 ab
	COC	1 % v/v									
	Ammonium Sulfate	17 lb/100 gal									
10	Resource	3 oz/a	23.3 b	11.7 de	5.0 b	86.7 ab	96.3 a	99.0 a	66.7 de	93.3 a	84.0 ab
	Credit Extra	24 oz/a									
	Ammonium Sulfate	17 lb/100 gal									
11	Credit Extra	24 oz/a	0.0 d	0.0 f	0.0 e	21.7 d	58.3 b	81.3 b	21.7 f	61.0 c	75.0 b
	Ammonium Sulfate	17 lb/100 gal									
12	Aim	0.5 oz/a	40.0 a	20.0 ab	8.3 a	97.0 a	99.0 a	99.0 a	86.7 abc	92.3 a	89.0 ab
	COC	1 % v/v									
	Ammonium Sulfate	17 lb/100 gal									
LSD (P=.05)			12.40	6.82	2.44	12.66	4.80	9.91	16.94	18.83	17.81
Standard Deviation			7.32	4.03	1.44	7.46	2.83	5.84	10.00	11.12	10.52
CV			43.37	42.53	45.87	8.76	2.99	5.99	13.74	13.24	13.31
Grand Mean			16.89	9.47	3.14	85.08	94.58	97.53	72.78	84.0	79.0
Replicate F			1.973	0.869	2.988	2.163	1.637	0.955	5.505	1.072	0.037
Replicate Prob(F)			0.1629	0.4331	0.0711	0.1399	0.2184	0.4011	0.0115	0.3594	0.9638
Treatment F			11.420	13.697	14.922	25.327	49.535	2.290	12.713	4.131	10.666
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0494	0.0001	0.0023	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.

Additional Treatment Information

Treatment Name

Ammonium Sulfate = |

Rate Unit

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O

% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z

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