

2008 metolachlor vs. acetochlor - corn efficacy

Trial ID: 08 MAN Parallel Medium	Protocol ID: 08 MAN Parallel
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: Dekalb DKC 54-20	Description: RR2 CB
BBCH Scale: BCOR	Planting Date: 06-02-08
Planting Method: seeded	Rate, Unit: 24503 s/a
Depth, Unit: 1.75 in	
Row Spacing, Unit: 30 in	

Pest Description

Pest 1 Type: W Code: CCHIN Cenchrus incertis M.A.Curtis
Common Name: Sandbur, field

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD
Plot Length, Unit: 30 FT	Tillage Type: MINIMUM-TILL
Replications: 4	Study Design: Randomized Complete Block

Field Prep./Maintenance:
Field Cultivated 6-1-08

Soil Description

% Sand: 16	% OM: 2.4	Texture: SILT LOAM
% Silt: 64	pH: 7.9	
% Clay: 20	CEC: 20.9	Fert. Level: POOR

Analyzed By:
Midwest Labs

	Date	Amount	Unit	Type
1.	06-02-08	0.05	IN	RAIN
2.	06-03-08	0.70	IN	RAIN
3.	06-05-08	0.40	IN	RAIN
4.	06-06-08	0.31	IN	RAIN
5.	06-08-08	0.86	IN	RAIN
6.	06-11-08	0.05	IN	RAIN
7.	06-12-08	0.10	IN	RAIN
8.	06-19-08	1.20	IN	SPRINKLER - CENTER PIVOT
9.	06-20-08	0.33	IN	RAIN
10.	06-27-08	1.70	IN	SPRINKLER - CENTER PIVOT
11.	06-28-08	0.09	IN	RAIN
12.	07-02-08	1.10	IN	SPRINKLER - CENTER PIVOT
13.	07-05-08	0.68	IN	RAIN
14.	07-07-08	1.22	IN	RAIN
15.	07-10-08	0.35	IN	RAIN
16.	07-12-08	0.30	IN	RAIN
17.	07-14-08	1.70	IN	SPRINKLER - CENTER PIVOT
18.	07-15-08	1.25	IN	SPRINKLER - CENTER PIVOT
19.	07-16-08	0.18	IN	RAIN
20.	07-18-08	1.36	IN	RAIN
21.	07-20-08	0.15	IN	RAIN
22.	07-21-08	0.65	IN	RAIN

Application Description

	A
Application Date:	06-02-08
Time of Day:	8:30 pm
Application Method:	spray
Application Timing:	PRE
Application Placement:	surface
Applied By:	js
Air Temperature, Unit:	70 F
% Relative Humidity:	80
Wind Velocity, Unit:	3 mph
Wind Direction:	ne
Dew Presence (Y/N):	n
Soil Temperature, Unit:	70 F
% Cloud Cover:	70

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	CCHIN W

Application Equipment

	A
Appl. Equipment:	backpack
Operating Pressure, Unit:	20 psi
Nozzle Type:	Turbo Tee
Nozzle Size:	11003
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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Description	Sandbur 06-18-08 Control Percent 16 16 16 DA-A 16 DP-1	Sandbur 07-01-08 Control Percent 29 29 29 DA-A 29 DP-1	Sandbur 07-14-08 Control Percent 42 42 42 DA-A 42 DP-1	Sandbur 07-14-08 Density m2 RunCH 42 42 42 DA-A 42 DP-1	Sandbur 08-06-08 Control Percent 65 65 65 DA-A 65 DP-1			
Trt Treatment								
No. Name								
Rate								
Other Rate								
Other Rate								
Growth Stage								
1 Parallel	0.9 pt/a	0.88 lb a/a	PRE	75.0 e	62.5 def	23.8 f	20.0 a	31.3 ef
2 Harness	1.0 pt/a	0.875 lb a/a	PRE	80.0 de	60.0 ef	31.7 ef	25.0 a	33.3 ef
3 Parallel	1.35 pt/a	1.32 lb a/a	PRE	80.0 de	50.0 f	25.0 f	23.8 a	22.5 f
4 Harness	1.5 pt/a	1.31 lb a/a	PRE	86.3 cd	75.0 bcd	47.5 cd	21.7 a	50.0 d
5 Parallel	1.8 pt/a	1.76 lb a/a	PRE	91.3 bc	70.0 cde	40.0 de	22.5 a	40.0 de
6 Harness	2.0 pt/a	1.75 lb a/a	PRE	94.5 ab	80.5 abc	68.8 b	16.7 a	73.8 bc
7 Parallel	2.25 pt/a	2.2 lb a/a	PRE	92.0 abc	77.5 bc	61.3 bc	20.0 a	67.5 c
8 Harness	2.5 pt/a	2.19 lb a/a	PRE	94.0 ab	81.3 abc	61.3 bc	17.8 a	71.3 bc
9 Parallel	2.7 pt/a	2.63 lb a/a	PRE	96.5 ab	86.3 ab	68.8 b	18.3 a	76.3 abc
10 Harness	3.0 pt/a	2.63 lb a/a	PRE	98.0 ab	87.5 ab	83.8 a	16.7 a	81.3 abc
11 Parallel	5.4 pt/a	5.26 lb a/a	PRE	99.0 a	93.8 a	88.8 a	17.5 a	82.5 ab
12 Harness	6.0 pt/a	5.25 lb a/a	PRE	99.0 a	95.0 a	90.0 a	18.3 a	88.8 a
LSD (P=.05)	7.09	14.58		14.97	8.90	14.17		
Standard Deviation	4.91	10.10		10.37	6.11	9.82		
CV	5.43	13.18		18.02	30.78	16.4		
Grand Mean	90.46	76.6		57.53	19.85	59.86		
Replicate F	6.903	1.511		1.194	3.217	0.591		
Replicate Prob(F)	0.0010	0.2303		0.3276	0.0399	0.6254		
Treatment F	11.255	7.528		21.228	0.847	22.131		
Treatment Prob(F)	0.0001	0.0001		0.0001	0.5984	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
Rate Unit
 PT/A = Pints Product per Acre (Metric=L/HA)P
Other Rate Unit
 LB A/A = Pounds Active Ingredient per Acre