

Ohio State University Horticulture and Crop Science

FALL APPLIED KIH-485 IN NO-TILL CORN

Trial ID: 07FALLKIH
Location: WESTERN BRANCH F-9

Study Dir.: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Affiliation: OSU
Investigator: Dr. Mark M. Loux
Affiliation: OSU

TRIAL LOCATION

State/Prov.: Ohio **Trial Status:** Complete
Country: Clark **Initiation Date:** Nov/01/2006
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

CROP AND WEED DESCRIPTION

Weed Code
1. .

Crop 1: ZEAMX CORN, FIELD **Variety:** SEED CONTULTANTS SC1116
Planting Date: May/01/2007 **Planting Method:** JOHN DEERE 7200
Rate: 32097 SEED/A **Depth:** 1.5 IN
Row Spacing: 30 IN **Seed Bed:** NO-TILL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Tillage Type: NO-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: APPLIED 2-4D AT 1 PINT PER ACRE ON 5-22-2007

SOIL DESCRIPTION

% OM: 1.2	Texture: SILT LOAM
pH: 5.8	Soil Name: CROSBY
CEC: 10.8	

Overall Moisture Conditions: POOR

APPLICATION DESCRIPTION

A

Application Date: Nov/09/2006
Time of Day: 11:00 A.M.
Application Method: SPRAY
Application Timing: FALL
Applic. Placement: BROADCAST
Air Temp., Unit: 63 F
% Relative Humidity: 70
Wind Velocity, Unit: 9 S
Soil Temp., Unit: 48 F
Soil Moisture: MOIST/WET
% Cloud Cover: 5

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX .
Stage Scale: .

WEED STAGE AT EACH APPLICATION

A

Stage Scale: .
Density, Unit: .

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APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK
Operating Pressure: 50
Nozzle Type: DG
Nozzle Size: 11002
Nozzle Spacing, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 20 GPA
Propellant: CO2

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Weed Code	SETFA	AMBTR	AMBEL	CHEAL	SETFA	AMBTR
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/01/2007	May/01/2007	May/01/2007	May/01/2007	May/17/2007	May/17/2007
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	AT PLANT	15 DAPL	15 DAPL

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code	1	2	3	4	5	6
1	UTC						0.0 b	0.0 a	0.0 a	0.0 a	0.0 b	0.0 a
2	KIH-485	0.186	lb ai/a	3.5	oz/a	A	10.0 ab	0.0 a	21.2 a	20.0 a	6.7 ab	0.0 a
3	KIH-485	0.223	lb ai/a	4.2	oz/a	A	16.7 ab	0.0 a	26.2 a	30.0 a	13.3 ab	0.0 a
4	KIH-485	0.372	lb ai/a	7	oz/a	A	36.7 a	0.0 a	31.3 a	30.0 a	33.3 a	0.0 a
5	DUAL II MAGNUM	1.6	lb ai/a	1.68	pt/a	A	10.0 ab	0.0 a	20.0 a	26.7 a	6.7 ab	0.0 a
6	DEGREE	1.76	lb ai/a	3.7	pt/a	A	30.0 ab	0.0 a	22.1 a	30.0 a	23.3 ab	0.0 a
LSD (P=.05)							21.44	0.00	35.36	26.91	20.65	0.00
Standard Deviation							11.79	0.00	17.70	14.79	11.35	0.00
CV							68.43	0.0	87.85	64.95	81.74	0.0
Bartlett's X2							2.203	0.0	2.073	3.806	1.459	0.0
P(Bartlett's X2)							0.531	.	0.557	0.149	0.834	.
Replicate F							0.520	0.000	0.476	0.635	0.172	0.000
Replicate Prob(F)							0.6098	1.0000	0.6426	0.5503	0.8441	1.0000
Treatment F							4.072	0.000	1.096	1.914	3.560	0.000
Treatment Prob(F)							0.0281	1.0000	0.4488	0.1789	0.0415	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code	AMBEL	CHEAL	SETFA
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	May/17/2007	May/17/2007	May/30/2007
Trt-Eval Interval	15 DAPL	15 DAPL	30 DAPL

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Appl Code	7	8	9
1	UTC						0.0 a	0.0 a	0.0 a
2	KIH-485	0.186	lb ai/a	3.5	oz/a	A	11.0 a	20.0 a	0.0 a
3	KIH-485	0.223	lb ai/a	4.2	oz/a	A	26.1 a	30.0 a	0.0 a
4	KIH-485	0.372	lb ai/a	7	oz/a	A	31.1 a	30.0 a	0.0 a
5	DUAL II MAGNUM	1.6	lb ai/a	1.68	pt/a	A	16.7 a	23.3 a	0.0 a
6	DEGREE	1.76	lb ai/a	3.7	pt/a	A	16.5 a	30.0 a	0.0 a
LSD (P=.05)							34.15	31.27	0.00
Standard Deviation							17.09	17.19	0.00
CV							101.17	77.36	0.0
Bartlett's X2							1.359	5.913	0.0
P(Bartlett's X2)							0.715	0.206	.
Replicate F							0.782	1.880	0.000
Replicate Prob(F)							0.4990	0.2028	1.0000
Treatment F							1.244	1.383	0.000
Treatment Prob(F)							0.3933	0.3090	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.