

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH KIH-485, 2006

Trial ID: C1106  
Conducted: CAMPUS

Study Dir.:  
Investigator: Christy Sprague

<b>Date Planted:</b> 5/5/2006	<b>Row Spacing:</b> 30 IN
<b>Variety:</b> NK33Z7	<b>No. of Reps:</b> 3
<b>Population:</b> 29,000 S/A	<b>% OM:</b> 3.0
<b>Soil Type:</b> silty clay loam	<b>pH:</b> 6.0
<b>Plot Size:</b> 10 X 35 FT	<b>Design:</b> RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall Chisel, Spring Soil Finish x2  
**Fertilizer:** 285 lbs/A 46-0-0 broadcast. 125 lbs/A 19-19-19 in row at planting.

<b>Crop</b>	<b>Code</b>	<b>Common Name</b>
1.	ZEAMX	CORN, FIELD

**Application Description**

**A**

**Application Timing:** PRE  
**Date Treated:** 5/5/2006  
**Time Treated:** 1:00 pm  
**% Cloud Cover:** 75  
**Air Temp., Unit:** 64 F  
**% Relative Humidity:** 47  
**Wind Speed/Unit/Dir:** 8 mph  
**Soil Temp., Unit:** 57.2 F  
**Soil/Leaf Surface M:** 3 3  
**Soil Moist (1=w 5=d):** 3

**Crop Stage at Each Application**

**A**

**Crop Name:** ZEAMX

**Application Equipment**

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
<b>A</b>	cub	3.5	FF	8003	18"	20"	100"	20	H2O	30

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Weed Code								ANGR	CHEAL	AMARE	AMBEL	ABUTH		ANGR	
Crop Code								ZEAMX	ZEAMX				ZEAMX		
Rating Data Type								injury	injury	control	control	control	control	control	
Rating Unit								percent	percent	percent	percent	percent	percent	percent	
Rating Date								5/19/2006	6/1/2006	6/1/2006	6/1/2006	6/1/2006	6/1/2006	6/15/2006	
Trt-Eval Interval								14 DAT	27 DAT	27 DAT	27 DAT	27 DAT	27 DAT	41 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	1	2	3	4	5	6	7	8	9
1	Untreated						0	0	0	0	0	0	0	0	0
2	KIH-485	85	WG	1.79	oz ai/a	PRE	0	0	97	64	100	63	64	0	99
3	KIH-485	85	WG	2.37	oz ai/a	PRE	0	0	98	78	100	67	80	0	100
4	KIH-485	85	WG	2.98	oz ai/a	PRE	0	0	97	86	100	72	80	0	99
5	KIH-485	85	WG	4.7	oz ai/a	PRE	0	0	99	93	100	80	84	0	100
6	Dual II Magnum	7.64	L	1.33	pt/a	PRE	0	0	99	43	97	43	58	0	100
7	Harness	7	L	1.8	pt/a	PRE	0	0	99	77	100	67	69	0	100
8	Harness	7	L	2.28	pt/a	PRE	0	0	98	79	100	70	73	0	100
LSD (P=.05)							0.0	0.0	1.7	16.7	3.6	5.3	9.1	0.0	1.2
Standard Deviation							0.0	0.0	1.0	9.6	2.0	3.0	5.2	0.0	0.7
CV							0.0	0.0	1.15	14.71	2.34	5.21	8.19	0.0	0.77

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Weed Code	CHEAL	AMARE	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	6/15/2006	6/15/2006	6/15/2006	6/15/2006
Trt-Eval Interval	41 DAT	41 DAT	41 DAT	41 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	CHEAL	AMARE	AMBEL	ABUTH
1	Untreated						0	0	0	0
2	KIH-485	85	WG	1.79	oz ai/a	PRE	58	100	58	68
3	KIH-485	85	WG	2.37	oz ai/a	PRE	73	100	68	78
4	KIH-485	85	WG	2.98	oz ai/a	PRE	83	99	72	75
5	KIH-485	85	WG	4.7	oz ai/a	PRE	91	100	80	88
6	Dual II Magnum	7.64	L	1.33	pt/a	PRE	27	95	13	43
7	Harness	7	L	1.8	pt/a	PRE	58	100	63	67
8	Harness	7	L	2.28	pt/a	PRE	53	100	63	70

LSD (P=.05)	24.6	5.3	7.2	8.2
Standard Deviation	14.1	3.0	4.1	4.7
CV	25.42	3.49	7.89	7.67