

MSU Weed Science Research Program

WEED CONTROL IN NO-TILL CORN WITH KIH-485, 2008

Trial ID: C1708
Conducted: CAMPUS, C27

Study Dir.:
Investigator: Wesley Everman

Date Planted: 5/15/08 Row Spacing: 30 IN
Variety: DK 46-60 No. of Reps: 4
Population: 32,000 S/A % OM: 2.3
Soil Type: SANDY LOAM pH: 7.4
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: NO-TILL
Fertilizer: 250 LBS 19-19-19 IN ROW AT PLANTING, 500 LBS 21-0-0 BROADCAST.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	ANNUAL GRASS	
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
4.	AMBEL	RAGWEEED, COMMON	AMBROSIA ELATIOR L.
5.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

A
Application Timing: EPP
Date Treated: 4/15/08
Time Treated: 11:00 AM
% Cloud Cover: 10
Air Temp., Unit: 47 F
% Relative Humidity: 50
Wind Speed/Unit/Dir: 7 mph NW
Soil Temp., Unit: 50 F
Soil/Leaf Surface M: 3 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

A
Crop Name: ZEAMX

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Weed 2 Name: CHEAL
Weed 3 Name: AMARE
Weed 4 Name: AMBEL
Weed 5 Name: TAROF
Height (In.): 1-5
Stage (L): 2-5

Weed Density (plants/sq. ft.)

1
Date: 4/15/08
Weed Name: TAROF
Density: 1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	CUB	3.5	FF	8003	20"	20"	100"	20	H20	30

Comments: ENTIRE STUDY RECIEVED BUCTRIL AT 1 PT/AC ON JUNE 13, 2008

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Weed Code							anгр	cheal	ambel	tarof	
Crop Code											ZEAMX
Rating Data Type							control	control	control	control	injury
Rating Unit							percent	percent	percent	percent	percent
Rating Date							5/16/08	5/16/08	5/16/08	5/16/08	6/13/08
Trt-Eval Interval							AT PLANT	AT PLANT	AT PLANT	AT PLANT	30 DAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5
1	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP	35	0	0	95	0
1	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
2	KIH-485	85	WG	1.78	oz ai/a	EPP	70	40	55	96	0
2	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
2	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
3	KIH-485	85	WG	2.37	oz ai/a	EPP	76	78	80	100	0
3	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
3	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
4	KIH-485	85	WG	2.98	oz ai/a	EPP	75	74	80	100	0
4	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
4	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
5	KIH-485	85	WG	4.74	oz ai/a	EPP	81	83	79	100	0
5	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
5	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
6	Dual II Magnum	7.64	L	1.33	pt/a	EPP	81	49	46	100	0
6	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
6	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
7	Harness	7	L	2.28	pt/a	EPP	73	77	76	98	0
7	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
7	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
8	Non-Treated						0	0	0	0	0
LSD (P=.05)							23.1	19.0	15.5	7.3	0.0
Standard Deviation							15.7	12.9	10.5	5.0	0.0
CV							25.63	25.81	20.24	5.76	0.0

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Weed Code		anгр	cheal	ambel	abuth	anгр
Crop Code						
Rating Data Type		control	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent
Rating Date		6/13/08	6/13/08	6/13/08	6/13/08	6/27/08
Trt-Eval Interval		30 DAP	30 DAP	30 DAP	30 DAP	45 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	6	7	8	9	10
1	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP	0	0	0	0	8
1	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
2	KIH-485	85	WG	1.78	oz ai/a	EPP	73	55	84	90	51
2	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
2	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
3	KIH-485	85	WG	2.37	oz ai/a	EPP	89	76	91	100	84
3	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
3	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
4	KIH-485	85	WG	2.98	oz ai/a	EPP	85	64	82	97	72
4	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
4	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
5	KIH-485	85	WG	4.74	oz ai/a	EPP	90	76	88	91	85
5	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
5	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
6	Dual II Magnum	7.64	L	1.33	pt/a	EPP	68	46	72	81	40
6	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
6	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
7	Harness	7	L	2.28	pt/a	EPP	60	64	83	95	15
7	Roundup WeatherMax	4.5	L	22.3	fl oz/a	EPP					
7	Ammonium Sulfate	100	DF	17	lb/100 gal	EPP					
8	Non-Treated						0	0	20	0	0
LSD (P=.05)							7.4	9.8	22.4	14.3	14.2
Standard Deviation							5.0	6.7	15.3	9.7	9.7
CV							8.66	14.05	23.5	14.01	21.8