

MSU Weed Science Research Program

TOLERANCE OF CORN TO HARNESS AND DEGREE, 2008

Trial ID: C1608
 Conducted: CAMPUS

Study Dir.:
 Investigator: Wesley Everman

Date Planted: 4/30/08 **Row Spacing:** 30 IN
Variety: DKC 46-60 **No. of Reps:** 4
Population: 30,000 S/A **% OM:** 2.7
Soil Type: Clay Loam **pH:** 6.4
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Field Cultivation X2
Fertilizer: 300lbs/A 46-0-0 Broadcast. 125lbs/A 19-19-19 in Row at Planting.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	Annual Grass	
2.	CHEAL	Common lambsquarters	Chenopodium album L.
3.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
4.	AMBEL	RAGWEEED, COMMON	AMBROSIA ELATIOR L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

	A	B	C
Application Timing:	PRE	V6	V8
Date Treated:	4/30/08	6/11/08	6/19/08
Time Treated:	4:00 PM	3:22 pm	11:05 pm
% Cloud Cover:	10	65	100
Air Temp., Unit:	56 F	93 F	70 F
% Relative Humidity:	30	43	60
Wind Speed/Unit/Dir:	5 mph SW	3 mph w	6 mph w
Soil Temp., Unit:	60 F	81 F	60 F
Soil/Leaf Surface M:	0 0	5	4
Soil Moist (1=w 5=d):	4	3	

Crop Stage at Each Application

	A	B	C
Crop Name:	ZEAMX	ZEAMX	ZEAMX
Height (In.):		10-12(11)	19-23(21)
Stage (L):		3-8(7)V6	9-11(11)V8

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height (In.):		.5-5(4)	
Stage (L):		2-4(3)	
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height (In.):			3-4(4)
Stage (L):			2-8(8)
Weed 3 Name:	AMARE	AMARE	AMARE
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height (In.):		.5-3(2)	2-5(3)
Stage (L):		2-6(4)	2-8(4)
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height (In.):		.5-3(2)	3-5(5)
Stage (L):		2-3(3)	

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	CUB	3.5	FF	8003	18"	20"	100"	20	H20	30
B	CUB	3.5	FF	8003	27"	20"	100"	20	H20	30
C	CUB	3.5	FF	8003	34"	20"	100"	20	H20	30

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Weed Code							anгр	cheal	amare	ambel	abuth		
Crop Code												ZEAMX	ZEAMX
Rating Data Type							control	control	control	control	control	injury	yield
Rating Unit							percent	percent	percent	percent	percent	percent	bu/ac
Rating Date							6/19/08	6/19/08	6/19/08	6/19/08	6/19/08		10/19/08
Trt-Eval Interval							AT V8	AT V8	AT V8	AT V8	AT V8	10 DAT	HARVEST
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	8	9	10	11	12	13	14
1	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	99	100	100	99	100	0	170
1	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V6							
1	Ammonium Sulfate	100	DF	2	% w/w	V6							
2	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	95	100	100	90	90	0	138
2	Harness	7	L	1.3	lb ai/a	V6							
2	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V6							
2	Ammonium Sulfate	100	DF	2	% w/w	V6							
3	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	100	100	0	136
3	Harness	7	L	2.6	lb ai/a	V6							
3	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V6							
3	Ammonium Sulfate	100	DF	2	% w/w	V6							
4	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	87	100	100	69	63	0	155
4	Harness	7	L	1.3	lb ai/a	V8							
4	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V8							
4	Ammonium Sulfate	100	DF	2	% w/w	V8							
5	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	93	100	100	75	68	0	167
5	Harness	7	L	2.6	lb ai/a	V8							
5	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V8							
5	Ammonium Sulfate	100	DF	2	% w/w	V8							
6	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	100	100	0	151
6	Callisto	4	SC	0.094	lb ai/a	V6							
6	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V6							
6	Ammonium Sulfate	100	DF	2	% w/w	V6							
7	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	100	100	0	154
7	Status	61.1	DF	0.095	lb ai/a	V6							
7	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V6							
7	Ammonium Sulfate	100	DF	2	% w/w	V6							
8	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	99	100	0	139
8	Impact	2.8	SC	0.011	lb ai/a	V6							
8	Roundup PowerMAX	4.5	L	0.75	lb ae/a	V6							
8	Ammonium Sulfate	100	DF	2	% w/w	V6							
9	Harness Xtra 5.6	5.6	L	2.8	lb ai/a	PRE	92	100	100	73	64	0	141
10	Lexar	3.7	L	2.8	lb ai/a	PRE	87	100	100	82	90	0	146
LSD (P=.05)							7.5	0.0	0.0	11.9	12.9	0.0	28.0
Standard Deviation							5.2	0.0	0.0	8.2	8.9	0.0	19.1
CV							5.42	0.0	0.0	9.22	10.18	0.0	12.79