

MSU Weed Science Research Program

TOLERANCE OF CORN TO HARNESS AND DEGREE, 2005

Trial ID: C1507
 Conducted: CAMPUS

Study Dir.:
 Investigator: James Kells

Date Planted: 5/4/07 **Row Spacing:** 30 IN
Variety: DKC 52-59 **No. of Reps:** 4
Population: 30,000 S/A **% OM:** 2.0
Soil Type: Sandy Loam **pH:** 7.3
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

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

Crop Code Common Name
 1. ZEAMX CORN, FIELD

Application Description

	A	B	C
Application Timing:	PRE	V6	V8
Date Treated:	5/4/07	6/8/07	6/15/07
Time Treated:	7:00PM	8:30AM	10:30AM
% Cloud Cover:	85	50	30
Air Temp., Unit:	70 F	78 F	84 F
% Relative Humidity:	35	63	35
Wind Speed/Unit/Dir:	7 mph E	5 mph S	2 mph SE
Soil Temp., Unit:	60 F	70 F	80 F
Soil/Leaf Surface M:	5 5	5 5	5 5
Soil Moist (1=w 5=d):	3	3	5

Crop Stage at Each Application

	A	B	C
Crop Name:	ZEAMX	ZEAMX	ZEAMX
Height (In.):		12-15(14)	21-27(24)
Stage (L):		V5-6(6)8L	V8 11L

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	18"	20"	100"	20	H2O	30
B	CUB	3.5	FF	8003	27"	20"	100"	20	H2O	30
C	CUB	3.5	FF	8003	39"	20"	100"	20	H2O	30

MSU Weed Science Research Program

TOLERANCE OF CORN TO HARNESS AND DEGREE, 2005

Trial ID: C1507
 Conducted: CAMPUS

Study Dir.:
 Investigator: James Kells

							ANGR	CHEAL	AMARE	AMBEL	ABUTH			ANGR	CHEAL
							control	control	control	control	control	ZEAMX	ZEAMX	control	control
							percent	percent	percent	percent	percent	injury	injury	percent	percent
							6/8/07	6/8/07	6/8/07	6/8/07	6/8/07	percent	percent	9/27/07	9/27/07
							AT MP	AT MP	AT MP	AT MP	AT MP	7 DAT	14DAT	HARVEST	HARVEST
Trt	Treatment	Form	Form	Rate	Grow	Stg	1	2	3	4	5	6	7	8	9
No.	Name	Conc	Type	Rate	Unit	Stg									
15	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	95	85	100	80	75	0	0	97	90
15	Degree	3.8	L	2.6	lb ai/a	V8									
15	Roundup OriginalMax	4.5	L	0.75	lb ae/a	V8									
15	Ammonium Sulfate	100	DF	2	% w/w	V8									
LSD (P=.05)							76.2	0.0	37.6	66.6	61.4	3.2	0.0	5.7	7.5
Standard Deviation							8.5	0.0	4.2	7.4	6.8	2.2	0.0	4.0	5.3
CV							8.74	0.0	4.26	9.63	8.5	121.73	0.0	4.28	6.03

MSU Weed Science Research Program

TOLERANCE OF CORN TO HARNESS AND DEGREE, 2005

Trial ID: C1507
Conducted: CAMPUSStudy Dir.:
Investigator: James Kells

							AMARE	AMBEL	ABUTH	Zeamx
							control	control	control	yield
							percent	percent	percent	bu/ac
							9/27/07	9/27/07	9/27/07	10/3/07
							HARVEST	HARVEST	HARVEST	HARVEST
Trt	Treatment	Form	Form	Rate	Rate	Grow	10	11	12	13
No.	Name	Conc	Type		Unit	Stg				
1	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	167
1	Roundup OriginalMax	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	100	100	100	165
2	Harness	7	L	1.3	lb ai/a	V6				
2	Roundup OriginalMax	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	163
3	Harness	7	L	2.6	lb ai/a	V6				
3	Roundup OriginalMax	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	100	100	100	154
4	Harness	7	L	1.3	lb ai/a	V8				
4	Roundup OriginalMax	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	100	100	100	166
5	Harness	7	L	2.6	lb ai/a	V8				
5	Roundup OriginalMax	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	98	90	95	168
6	Callisto	4	SC	0.094	lb ai/a	V6				
6	Roundup OriginalMax	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	156
7	Status	61.1	DF	0.095	lb ai/a	V6				
7	Roundup OriginalMax	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	99	96	100	177
8	Impact	2.8	SC	0.011	lb ai/a	V6				
8	Roundup OriginalMax	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	96	58	81	149
10	Lexar	3.7	L	2.8	lb ai/a	PRE	100	90	100	166
11	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	153
11	Roundup OriginalMax	4.5	L	0.75	lb ae/a	V8				
11	Ammonium Sulfate	100	DF	2	% w/w	V8				
12	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	160
12	Degree	3.8	L	1.3	lb ai/a	V6				
12	Roundup OriginalMax	4.5	L	0.75	lb ae/a	V6				
12	Ammonium Sulfate	100	DF	2	% w/w	V6				
13	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	160
13	Degree	3.8	L	2.6	lb ai/a	V6				
13	Roundup OriginalMax	4.5	L	0.75	lb ae/a	V6				
13	Ammonium Sulfate	100	DF	2	% w/w	V6				
14	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	98	100	167
14	Degree	3.8	L	1.3	lb ai/a	V8				
14	Roundup OriginalMax	4.5	L	0.75	lb ae/a	V8				
14	Ammonium Sulfate	100	DF	2	% w/w	V8				

MSU Weed Science Research Program

TOLERANCE OF CORN TO HARNESS AND DEGREE, 2005

Trial ID: C1507
 Conducted: CAMPUS

Study Dir.:
 Investigator: James Kells

Weed Code		AMARE	AMBEL	ABUTH	
Crop Code					Zeamx
Rating Data Type		control	control	control	yield
Rating Unit		percent	percent	percent	bu/ac
Rating Date		9/27/07	9/27/07	9/27/07	10/3/07
Trt-Eval Interval		HARVEST	HARVEST	HARVEST	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	10	11	12	13
15	Harness Xtra 5.6	5.6	L	2.1	lb ai/a	PRE	100	100	100	178
15	Degree	3.8	L	2.6	lb ai/a	V8				
15	Roundup OriginalMax	4.5	L	0.75	lb ae/a	V8				
15	Ammonium Sulfate	100	DF	2	% w/w	V8				

LSD (P=.05)	3.4	8.3	6.1	25.3
Standard Deviation	2.4	5.8	4.3	17.7
CV	2.37	6.1	4.32	10.85