

MSU Weed Science Research Program

CONTROL OF EMERGED ROUNDUP READY CORN WITH SELECT, 2006

Trial ID: C1906
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Date Planted: 4/18/2006 **Row Spacing:** 30 IN
Variety: DKC42-95 **No. of Reps:** 4
Population: 30,000 S/A **% OM:** 2.4
Soil Type: loam **pH:** 7.0
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Soil Finish x2
Fertilizer: 200 lbs/A 19-19-19 in row at planting

Crop Code Common Name
 1. ZEAMX CORN, FIELD

Application Description

	A	B	C
Application Timing:	PRE*	V1-V2	V4-V5
Date Treated:	4/18/2006	5/8/2006	5/29/2006
Time Treated:	3:15 pm	10:30 am	5:30 pm
% Cloud Cover:	0	0	30
Air Temp., Unit:	71 F	69 F	89 F
% Relative Humidity:	34	28	40
Wind Speed/Unit/Dir:	5 mph E	3 mph S	3 mph SW
Soil Temp., Unit:	55 F	56 F	41 F
Soil/Leaf Surface M:	5 5	5 5	5 5
Soil Moist (1=w 5=d):	3.5-4	4	5

Crop Stage at Each Application

	A	B	C
Crop Name:	ZEAMX	ZEAMX	ZEAMX
Height (In.):		2-3(3)	5-9(7)
Stage (L):		2-3(3)	5-8(7)

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
A	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	cub	3.5	FF	8003	18"	20"	120"	20	H2O	30
B	cub	3.5	FF	8003	21"	20"	100"	20	H2O	30
C	cub	3.5	FF	8003	25"	20"	100"	20	H2O	30

Comments: *Entire study recieved Harness Xtra 5.6 at 2 qt/a preemergence

ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
ZEAMX						
LR dead	LR injur	LR healt	LR dead	RR dead	RR injur	RR
healt						
count*	count*	count*	count*	count*	count*	
count*						

LR dead= Left Row count of number of plants dead
 LR injur= Left Row count of number of injured plants
 LR healt= Left Row count of number of healthy plants

Same format follows for RR which represents Right Row of plot.

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Crop Code				control		LR dead		LR injur		LR healt		LR dead		RR dead	
Rating Data Type				percent		count*		count*		count*		count*		count*	
Rating Unit				5/17/2006		5/17/2006		5/17/2006		5/17/2006		5/17/2006		5/17/2006	
Rating Date				7 DAT		7 DAT		7 DAT		7 DAT		7 DAT		7 DAT	
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	1	2	3	4	5	6	7		
1	Harness Xtra 5.6 ENTIRE	5.6	L	2	qt/a	PRE	0	0	0	59	0	0	1		
1	Select Max	0.97	EC	0	lb ai/a	V1-2									
1	Herbimax		L	1	qt/a	V1-2									
2	Select Max	0.97	EC	0.015	lb ai/a	V1-2	30	0	57	1	0	0	57		
2	Herbimax		L	1	qt/a	V1-2									
3	Select Max	0.97	EC	0.03	lb ai/a	V1-2	38	0	57	0	0	0	52		
3	Herbimax		L	1	qt/a	V1-2									
4	Select Max	0.97	EC	0.06	lb ai/a	V1-2	36	0	56	0	0	0	57		
4	Herbimax		L	1	qt/a	V1-2									
5	Select Max	0.97	EC	0	lb ai/a	V4-5	1	0	1	60	0	0	0		
5	Herbimax		L	1	qt/a	V4-5									
6	Select Max	0.97	EC	0.015	lb ai/a	V4-5	83	0	57	0	0	0	56		
6	Herbimax		L	1	qt/a	V4-5									
7	Select Max	0.97	EC	0.03	lb ai/a	V4-5	84	0	56	0	0	0	57		
7	Herbimax		L	1	qt/a	V4-5									
8	Select Max	0.97	EC	0.06	lb ai/a	V4-5	90	0	56	0	0	0	55		
8	Herbimax		L	1	qt/a	V4-5									
LSD (P=.05)							4.4	0.3	3.2	2.6	0.3	0.3	4.9		
Standard Deviation							3.0	0.2	2.2	1.8	0.2	0.2	3.4		
CV							6.58	565.69	5.08	11.9	565.69	565.69	8.04		

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Weed Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
Crop Code				RR healt	control	LR dead	LR injur	LR healt	RR dead	RR injur				
Rating Data Type				count*	percent	count*	count*	count*	count*	count*				
Rating Unit														
Rating Date				5/17/2006	5/22/2006	5/22/2006	5/22/2006	5/22/2006	5/22/2006	5/22/2006	5/22/2006			
Trt-Eval Interval				7 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	8	9	10	11	12	13	14		
1	Harness Xtra 5.6 ENTIRE	5.6	L	2	qt/a	PRE	60	0	0	0	59	0	0	
1	Select Max	0.97	EC	0	lb ai/a	V1-2								
1	Herbimax		L	1	qt/a	V1-2								
2	Select Max	0.97	EC	0.015	lb ai/a	V1-2	1	86	5	53	0	3	54	
2	Herbimax		L	1	qt/a	V1-2								
3	Select Max	0.97	EC	0.03	lb ai/a	V1-2	0	89	13	44	0	11	41	
3	Herbimax		L	1	qt/a	V1-2								
4	Select Max	0.97	EC	0.06	lb ai/a	V1-2	0	90	22	30	0	20	33	
4	Herbimax		L	1	qt/a	V1-2								
5	Select Max	0.97	EC	0	lb ai/a	V4-5	60	0	0	0	60	0	0	
5	Herbimax		L	1	qt/a	V4-5								
6	Select Max	0.97	EC	0.015	lb ai/a	V4-5	0	91	5	53	0	12	46	
6	Herbimax		L	1	qt/a	V4-5								
7	Select Max	0.97	EC	0.03	lb ai/a	V4-5	0	93	8	48	0	17	36	
7	Herbimax		L	1	qt/a	V4-5								
8	Select Max	0.97	EC	0.06	lb ai/a	V4-5	0	95	24	32	0	41	16	
8	Herbimax		L	1	qt/a	V4-5								
LSD (P=.05)								5.6	2.9	4.9	6.2	2.5	10.0	12.5
Standard Deviation								3.8	1.9	3.4	4.2	1.7	6.8	8.5
CV								25.34	2.85	35.08	13.07	11.6	52.17	30.07

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Crop Code				RR healt		control		LR dead		LR injur		LR healt		RR dead	
Rating Data Type				count*		percent		count*		count*		count*		count*	
Rating Unit															
Rating Date				5/22/2006		5/31/2006		5/31/2006		5/31/2006		5/31/2006		5/31/2006	
Trt-Eval Interval				14 DAT		21 DAT		21 DAT		21 DAT		21 DAT		21 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	15	16	17	18	19	20	21			
1	Harness Xtra 5.6 ENTIRE	5.6	L	2	qt/a PRE	60	0	0	0	59	0	0			
1	Select Max	0.97	EC	0	lb ai/a V1-2										
1	Herbimax		L	1	qt/a V1-2										
2	Select Max	0.97	EC	0.015	lb ai/a V1-2	0	91	45	10	3	49	7			
2	Herbimax		L	1	qt/a V1-2										
3	Select Max	0.97	EC	0.03	lb ai/a V1-2	0	97	56	0	1	52	1			
3	Herbimax		L	1	qt/a V1-2										
4	Select Max	0.97	EC	0.06	lb ai/a V1-2	0	98	55	0	2	56	0			
4	Herbimax		L	1	qt/a V1-2										
5	Select Max	0.97	EC	0	lb ai/a V4-5	60	0	0	0	60	0	0			
5	Herbimax		L	1	qt/a V4-5										
6	Select Max	0.97	EC	0.015	lb ai/a V4-5	0	91	33	26	0	43	14			
6	Herbimax		L	1	qt/a V4-5										
7	Select Max	0.97	EC	0.03	lb ai/a V4-5	0	96	41	15	0	49	8			
7	Herbimax		L	1	qt/a V4-5										
8	Select Max	0.97	EC	0.06	lb ai/a V4-5	0	97	51	5	0	52	4			
8	Herbimax		L	1	qt/a V4-5										
LSD (P=.05)						3.1	2.2	4.7	5.6	3.4	5.2	3.8			
Standard Deviation						2.1	1.5	3.2	3.8	2.3	3.5	2.6			
CV						14.08	2.14	9.11	55.49	14.66	9.47	63.11			

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Weed Code ZEAMX
 Crop Code RR healt
 Rating Data Type count*
 Rating Unit
 Rating Date 5/31/2006
 Trt-Eval Interval 21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Grow 22
1	Harness Xtra 5.6 ENTIRE	5.6	L	2	qt/a	PRE	60
1	Select Max	0.97	EC	0	lb ai/a	V1-2	
1	Herbimax		L	1	qt/a	V1-2	
2	Select Max	0.97	EC	0.015	lb ai/a	V1-2	3
2	Herbimax		L	1	qt/a	V1-2	
3	Select Max	0.97	EC	0.03	lb ai/a	V1-2	2
3	Herbimax		L	1	qt/a	V1-2	
4	Select Max	0.97	EC	0.06	lb ai/a	V1-2	1
4	Herbimax		L	1	qt/a	V1-2	
5	Select Max	0.97	EC	0	lb ai/a	V4-5	60
5	Herbimax		L	1	qt/a	V4-5	
6	Select Max	0.97	EC	0.015	lb ai/a	V4-5	0
6	Herbimax		L	1	qt/a	V4-5	
7	Select Max	0.97	EC	0.03	lb ai/a	V4-5	0
7	Herbimax		L	1	qt/a	V4-5	
8	Select Max	0.97	EC	0.06	lb ai/a	V4-5	0
8	Herbimax		L	1	qt/a	V4-5	

LSD (P=.05) 3.3
 Standard Deviation 2.3
 CV 14.63