

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH PREEMERGENCE HERBICIDES, 2009

Trial ID: C1309
Conducted: CAMPUS

Study Dir.: Andy Chomas
Investigator: Wesley Everman

Date Planted: 5/7/09 **Row Spacing:** 30 IN
Variety: DELAKB 46-60 **No. of Reps:** 4
Population: 31,000 S/A **% OM:** 2.9
Soil Type: Loam **pH:** 6.4
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

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

Crop Code Common Name
1. ZEAMX CORN, FIELD

Application Description

A

Application Timing: PRE
Date Treated: 5/8/09
Time Treated: 10:00 AM
% Cloud Cover: 60
Air Temp., Unit: 71 F
% Relative Humidity: 70
Wind Speed/Unit/Dir: 2 mph W
Soil Temp., Unit: 49 F
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	
A	CUB	3.5	FF	8003	19"	20"	100"	20	H2O	30	

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Weed Code																
Crop Code																
Rating Data Type																
Rating Unit																
Rating Date																
Trt-Eval Interval																
ARM Action Codes																

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	9
1	SureStart	4.18	SE	1.74	pt/a	PRE	3	98	100	100	100	95	0	85	99
2	SureStart	4.18	SE	2	pt/a	PRE	0	98	100	100	100	94	0	88	99
3	SureStart	4.18	SE	2	pt/a	PRE	2	98	100	100	100	98	0	88	100
3	Atrazine	4	L	2	pt/a	PRE									
4	SureStart	4.18	SE	2.5	pt/a	PRE	2	98	100	100	100	97	0	90	100
5	SureStart	4.18	SE	2.98	pt/a	PRE	4	99	100	100	100	96	0	94	100
6	Harness	7	L	1.2	pt/a	PRE	0	99	100	100	100	91	0	91	77
7	Harness Xtra 5.6	5.6	L	2.6	pt/a	PRE	1	99	100	100	100	95	0	92	93
8	Bicep II Magnum	5.5	L	2.1	pt/a	PRE	0	74	78	91	100	88	0	56	33
9	Guardsman Max	5	L	1.9	pt/a	PRE	0	98	100	100	100	90	0	87	99
10	Lumax	3.94	SE	2.5	pt/a	PRE	0	96	100	100	100	100	0	85	100
11	Lexar	3.7	L	3	pt/a	PRE	0	94	100	100	100	100	0	82	100
12	Lumax	3.94	SE	4	pt/a	PRE	2	93	100	100	100	100	0	87	100
13	Lexar	3.7	L	4.5	pt/a	PRE	2	99	100	100	100	100	0	95	100
14	Corvus	2.6	SC	3	fl oz/a	PRE	1	95	100	100	100	98	0	85	100
15	Non-Treated						0	0	0	0	0	0	0	0	0
LSD (P=.05)							2.1	4.4	4.4	1.6	0.0	4.0	0.0	6.4	6.5
Standard Deviation							1.5	3.1	3.1	1.1	0.0	2.8	0.0	4.5	4.6
CV							147.62	3.43	3.37	1.21	0.0	3.13	0.0	5.58	5.27

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Weed Code	AMARE	AMBEL	ABUTH
Crop Code			
Rating Data Type	control	control	control
Rating Unit	percent	percent	percent
Rating Date	6/16/09	6/16/09	6/16/09
Trt-Eval Interval	29 DAV1	29 DAV1	29 DAV1
ARM Action Codes			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	10	11	12
1	SureStart	4.18	SE	1.74	pt/a	PRE	99	100	88
2	SureStart	4.18	SE	2	pt/a	PRE	100	100	93
3	SureStart	4.18	SE	2	pt/a	PRE	100	100	96
3	Atrazine	4	L	2	pt/a	PRE			
4	SureStart	4.18	SE	2.5	pt/a	PRE	100	100	96
5	SureStart	4.18	SE	2.98	pt/a	PRE	100	100	99
6	Harness	7	L	1.2	pt/a	PRE	100	100	65
7	Harness Xtra 5.6	5.6	L	2.6	pt/a	PRE	100	100	73
8	Bicep II Magnum	5.5	L	2.1	pt/a	PRE	30	7	20
9	Guardsman Max	5	L	1.9	pt/a	PRE	100	100	61
10	Lumax	3.94	SE	2.5	pt/a	PRE	100	100	100
11	Lexar	3.7	L	3	pt/a	PRE	100	100	100
12	Lumax	3.94	SE	4	pt/a	PRE	100	100	100
13	Lexar	3.7	L	4.5	pt/a	PRE	100	100	100
14	Corvus	2.6	SC	3	fl oz/a	PRE	100	100	100
15	Non-Treated						0	0	0

LSD (P=.05)	9.6	3.5	9.6
Standard Deviation	6.7	2.5	6.7
CV	7.55	2.83	8.49