

MSU Weed Science Research Program

GLYPHOSATE-MICRONUTRIENT TANK-MIXES IN CORN (STUDY 2), 2006

Trial ID: C2306
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Date Planted: 4/25/2006 **Row Spacing:** 30 IN
Variety: DKC42-95 **No. of Reps:** 4
Population: 30,000 S/A **% OM:** 2.1
Soil Type: sandy clay loam **pH:** 6.0
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Spring Chisel, Spring Soil Finish x2
Fertilizer: 285 lbs/A 46-0-0 broadcast. 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*	POST	**
Date Treated:	4/25/2006	6/5/2006	
Time Treated:	4:10 pm	9:30 am	
% Cloud Cover:	65	25	
Air Temp., Unit:	52 F	75 F	
% Relative Humidity:	45	43	
Wind Speed/Unit/Dir:	6 mph	3 mph W	
Soil Temp., Unit:	55.6 F	62.6 F	
Soil/Leaf Surface M:	5 5	4 4	
Soil Moist (1=w 5=d):	3	5	

Crop Stage at Each Application

	A	B	C
Crop Name:	ZEAMX	ZEAMX	ZEAMX
Height (In.):		8-14 (12)	
Stage (L):		V4-5 (5) 8L	

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	25"	20"	100"	20	H2O	30
C										

Comments: * Entire study received Bicep Lite II Magnum at 1.5 qt/a preemergence on April 25, 2006.
 ** Entire study received Buccaneer plus N-Tank at 0.75 lb ae/a and 0.5% v/v on 6/12/2006, Post-directed.

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 HEIGHT HEIGHT HEIGHT LR HEIGHT RR HEIGHT yield
 -10, +10 -10, +10 AVERAGE AVERAGE -10, +10 bu/ac
 6/19/2006 7/3/2006 7/3/2006 7/3/2006 7/31/2006 10/10/2006
 14 DAT 28 DAT 28 DAT 28 DAT 56 DAT HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6
1	Bicep Lite II Magnum	6	L	1.5	qt/a	PRE	0	0	66	65	0	229
1	ENTIRE STUDY					PRE						
1	Buccaneer	3	L			POST						
1	Micro-Mix		DF			POST						
1	N-Tank		L			POST						
2	Buccaneer	3	L			POST	0	0	67	66	0	217
2	Micro-Mix		DF			POST						
2	N-Tank		L	1	% v/v	POST						
3	Buccaneer	3	L			POST	-1	-1	67	65	0	216
3	Micro-Mix		DF	1	lb/a	POST						
3	N-Tank		L			POST						
4	Buccaneer	3	L			POST	-1	-1	66	63	0	212
4	Micro-Mix		DF	1	lb/a	POST						
4	N-Tank		L	1	% v/v	POST						
5	Buccaneer	3	L			POST	0	0	66	66	0	221
5	Micro-Mix		DF	2	lb/a	POST						
5	N-Tank		L			POST						
6	Buccaneer	3	L			POST	0	0	66	65	-1	223
6	Micro-Mix		DF	2	lb/a	POST						
6	N-Tank		L	1	% v/v	POST						
7	Buccaneer	3	L	1.6	lb ae/a	POST	0	0	67	67	0	218
7	Micro-Mix		DF			POST						
7	N-Tank		L			POST						
8	Buccaneer	3	L	1.6	lb ae/a	POST	0	0	67	67	0	218
8	Micro-Mix		DF			POST						
8	N-Tank		L	1	% v/v	POST						
9	Buccaneer	3	L	1.6	lb ae/a	POST	0	0	68	66	0	217
9	Micro-Mix		DF	1	lb/a	POST						
9	N-Tank		L			POST						
10	Buccaneer	3	L	1.6	lb ae/a	POST	-1	0	66	65	0	221
10	Micro-Mix		DF	1	lb/a	POST						
10	N-Tank		L	1	% v/v	POST						
11	Buccaneer	3	L	1.6	lb ae/a	POST	0	0	66	67	0	219
11	Micro-Mix		DF	2	lb/a	POST						
11	N-Tank		L			POST						
12	Buccaneer	3	L	1.6	lb ae/a	POST	-1	0	68	66	0	216
12	Micro-Mix		DF	2	lb/a	POST						
12	N-Tank		L	1	% v/v	POST						
LSD (P=.05)							0.6	0.7	2.1	2.9	0.3	13.2
Standard Deviation							0.4	0.5	1.4	2.0	0.2	9.1
CV							0.0	0.0	2.16	3.05	0.0	4.16