

MSU Weed Science Research Program

Evaluation of Micro-nutrients and N-Tank with Glyphosate

Trial ID: SOY02-06
Conducted: T-10

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: 5/8/2006	Row Spacing: 30 IN
Variety: Pioneer 91M91	No. of Reps: 4
Population: 152,000 seeds/acre	% OM: 2.4
Soil Type: Sandy Loam	pH: 7.8
Plot Size: 10 X 35 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow
Soil finish X 2 5/8/06

Fertilizer: None at planting

Crop	Code	Common Name
1.	GLXMA	SOYBEAN

Application Description

A

Application Timing:	POST
Date Treated:	6/14/2006
Time Treated:	10:30 am
% Cloud Cover:	0
Air Temp., Unit:	73 F
% Relative Humidity:	32
Wind Speed/Unit/Dir:	2 mph E
Soil Temp., Unit:	69 F
Soil/Leaf Surface M:	5 5
Soil Moist (1=w 5=d):	5

Crop Stage at Each Application

A

Crop Name:	GLXMA
Height (In.):	4-5"
Stage (L):	V2

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	CUB	3.8	AirMix	11003	22"	20"	120"	19	water	27

Comments: 5/8/06- Dual Magnum (1.33 pt.) + Lorox (1.5 lb) applied preemergence.

Study was maintained weed free throughout the growing season with cultivation and hand-weeding.

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Weed Code									
Crop Code									
Rating Data Type		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Unit		VIGOR	height	VIGOR	VIGOR	moisture	yield		
Rating Date		+/- 10	CM	+/- 10	+/- 10	percent	bu/acre		
Trt-Eval Interval		6/27/2006	7/11/2006	7/11/2006	8/9/2006	9/26/2006	9/26/2006		
		13 DA-A	27 DA-A	27 DA-A	56 DA-A	104 DA-A	at 13% M		

Trt No.	Treatment Name	Form Conc	Rate	Grow Stg	Appl Code	GLXMA VIGOR	GLXMA height	GLXMA VIGOR	GLXMA VIGOR	GLXMA moisture	GLXMA yield
1	Untreated					0	57	0.0	0.0	14.8	64.7
2	MicroMix	1	lb/a	POST	A	0	56	-0.3	0.0	14.3	65.1
3	MicroMix	2	lb/a	POST	A	0	53	0.0	0.0	14.6	63.5
4	N Tank	1	% v/v	POST	A	0	55	-0.3	0.0	14.4	66.5
5	N Tank	1	% v/v	POST	A	0	56	0.3	0.0	14.3	66.4
5	MicroMix	1	lb/a	POST	A						
6	N Tank	1	% v/v	POST	A	0	55	-0.3	0.0	14.5	64.8
6	MicroMix	2	lb/a	POST	A						
7	Buccaneer 3	2	qt/a	POST	A	0	54	-0.3	0.0	14.4	63.2
8	Buccaneer 3	2	qt/a	POST	A	0	56	0.0	0.0	14.5	63.0
8	MicroMix	1	lb/a	POST	A						
9	Buccaneer 3	2	qt/a	POST	A	0	55	0.3	0.0	14.4	68.6
9	MicroMix	2	lb/a	POST	A						
10	Buccaneer 3	2	qt/a	POST	A	0	57	0.0	0.0	14.4	66.8
10	N Tank	1	% v/v	POST	A						
11	Buccaneer 3	2	qt/a	POST	A	0	55	-0.3	0.3	14.4	66.4
11	N Tank	1	% v/v	POST	A						
11	MicroMix	1	lb/a	POST	A						
12	Buccaneer 3	2	qt/a	POST	A	0	55	0.0	0.0	14.3	66.1
12	N Tank	1	% v/v	POST	A						
12	MicroMix	2	lb/a	POST	A						

LSD (P=.05)	0.0	4.8	0.74	0.21	0.40	7.46
Standard Deviation	0.0	3.3	0.51	0.14	0.28	5.17
CV	0.0	5.98	0.0	692.82	1.93	7.9