

MSU Weed Science Research Program

Effectiveness of seed treatments on soybean

Trial ID: SOY10-10 Study Dir.: Sprague, Powell  
Conducted: T-12 West Investigator: Christy Sprague

Date Planted: 5/10/2010 Row Spacing: 30 IN  
Variety: Dyna-Grow 33x19 No. of Reps: 4  
Population: 155,000 seeds/acre % OM: 4.0  
Soil Type: Loam pH: 6.6  
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow and spring soil finish

Fertilizer: None

Crop	Code	Common Name
1.	GLXMA	SOYBEAN

Crop Stage at Each Application

A

Crop Name: GLXMA

Application Equipment

Appl

A

Comments: 5/10/10- Valor XLT (3 oz/acre) applied preemergence to all treatments.  
6/17/10- Roundup PowerMax + AMS (22 oz/acre + 17 lb/100gal) applied to all treatments.  
7/1/10- SelectMax + COC (9 fl oz/A + 1% v/v) applied to all treatments for annual grass control.

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Left	Right	Vigor	Left	Right	moisture
Rating Data Type	Stnd Cnt	Stnd Cnt	percent	Stnd Cnt	Stnd Cnt	percent
Rating Unit	5/26/2010	5/26/2010	6/10/2010	6/10/2010	6/10/2010	9/29/2010
Rating Date	30' row	30' row	0-10	30' row	30' row	
Trt-Eval Interval	0	0	0	0	0	0
# Subsamples, Dec.						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	GLXMA Left	GLXMA Right	GLXMA Vigor	GLXMA Left	GLXMA Right	GLXMA moisture
1	Untreated							177	172	0	236	224	13
2	Maxim	4	SC	0.08	fl oz/cwt	Seed TRT	A	198	193	0	256	246	13
2	Apron XL	3	SL	0.64	fl oz/cwt	Seed TRT	A						
2	Cruiser	5	FS	1.28	fl oz/cwt	Seed TRT	A						
3	Trilex	2	SC	0.32	fl oz/cwt	Seed TRT	A	178	186	0	258	231	13
3	Allegiance-FL	2.65	SC	0.75	fl oz/cwt	Seed TRT	A						
3	Yield Shield	100	SS	0.1	oz ai/cwt	Seed TRT	A						
3	Guacho	600	FS	1.6	fl oz/cwt	Seed TRT	A						
4	Rancona XXTRA	0.24	FS	3.5	fl oz/cwt	Seed TRT	A	174	186	0	236	242	13
4	V-10209	2.65	FS	0.55	fl oz/cwt	Seed TRT	A						
4	Nipsit Inside Insect	5	FS	1.28	fl oz/cwt	Seed TRT	A						
5	Rancona XXTRA	0.24	FS	3.5	fl oz/cwt	Seed TRT	A	178	176	0	244	231	13
5	V-10209	2.65	FS	0.55	fl oz/cwt	Seed TRT	A						
5	Nipsit Inside Insect	5	FS	1.28	fl oz/cwt	Seed TRT	A						
5	Belay	2.13	L	4	fl oz/a	Threshol	B						
LSD (P=.05)								15.2	17.6	0.0	19.9	23.7	0.4
Standard Deviation								9.9	11.4	0.0	12.9	15.4	0.2
CV								5.46	6.25	0.0	5.24	6.56	1.88

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

# Subsamples, Dec.

GLXMA  
yield  
bu/acre  
9/29/2010  
at 13% M  
1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	Untreated							60.8
2	Maxim	4	SC	0.08	fl oz/cwt	Seed TRT	A	59.4
2	Apron XL	3	SL	0.64	fl oz/cwt	Seed TRT	A	
2	Cruiser	5	FS	1.28	fl oz/cwt	Seed TRT	A	
3	Trilex	2	SC	0.32	fl oz/cwt	Seed TRT	A	58.0
3	Allegiance-FL	2.65	SC	0.75	fl oz/cwt	Seed TRT	A	
3	Yield Shield	100	SS	0.1	oz ai/cwt	Seed TRT	A	
3	Guacho	600	FS	1.6	fl oz/cwt	Seed TRT	A	
4	Rancona XXTRA	0.24	FS	3.5	fl oz/cwt	Seed TRT	A	58.0
4	V-10209	2.65	FS	0.55	fl oz/cwt	Seed TRT	A	
4	Nipsit Inside Insect	5	FS	1.28	fl oz/cwt	Seed TRT	A	
5	Rancona XXTRA	0.24	FS	3.5	fl oz/cwt	Seed TRT	A	57.7
5	V-10209	2.65	FS	0.55	fl oz/cwt	Seed TRT	A	
5	Nipsit Inside Insect	5	FS	1.28	fl oz/cwt	Seed TRT	A	
5	Belay	2.13	L	4	fl oz/a	Threshol	B	
LSD (P=.05)								8.14
Standard Deviation								5.28
CV								8.99

Means followed by same letter do not significantly differ (P=.05, LSD)

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