

MSU Weed Science Research Program

Postemergence soybean tolerance with Vida

Trial ID: SOY11-11 Study Dir.: Sprague, Powell
Conducted: C-18E Crops Investigator: Christy Sprague

Date Planted: 5/11/2011 Row Spacing: 30 IN
Variety: Pioneer 92M61 No. of Reps: 4
Population: 155,000 % OM: 2.5
Soil Type: Silt Loam pH: 7.2
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fallow 2010- Installed tile drainage, spring soil finish.
Fertilizer: None at planting.

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-6 and crop 1 (GLXMA SOYBEAN).

Application Description

A
Application Timing: POST
Date Treated: 6/13/2011
Time Treated: 9:35 AM
% Cloud Cover: 0
Air Temp., Unit: 68 F
% Relative Humidity: 46
Wind Speed/Unit/Dir: 3 mph NW
Soil Temp., Unit: 61 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

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

Weed Stage at Each Application

A
Weed 1 Name: ANGR Height (In.): 4-6" Stage (L): 3-4
Weed 2 Name: CHEAL Height (In.): 1-2" Stage (L): 8-10
Weed 3 Name: AMAPO Height (In.): 2" Stage (L): 6
Weed 4 Name: AMBEL Height (In.): 1-3" Stage (L): 6-8
Weed 5 Name: ABUTH Height (In.): - Stage (L): -
Weed 6 Name: SINAR Height (In.): 4-9" Stage (L): flowering

Weed Density (plants/sq. ft.)

Table with 6 columns: Weed Name, Density. Lists weeds ANGR, CHEAL, AMAPO, AMBEL, ABUTH, SINAR and their densities.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI. Lists application parameters for application A.

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								GLXMA	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
								injury	injury	control	control	control	control
								percent	percent	percent	percent	percent	percent
								6/16/2011	6/20/2011	6/20/2011	6/20/2011	6/20/2011	6/20/2011
								3 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
								0	0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Unit	Stg	Code							
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST A	0	0	97	99	99	94	
1	AMS		WG	17	lb/100 gal	POST A							
2	Vida	0.2	L	0.5	fl oz/a	POST A	20	20	99	99	99	81	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST A							
2	AMS		WG	17	lb/100 gal	POST A							
3	Vida	0.2	L	0.75	fl oz/a	POST A	29	25	99	99	99	82	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST A							
3	AMS		WG	17	lb/100 gal	POST A							
4	Extreme	2.17	L	3	pt/a	POST A	14	15	99	99	99	97	
4	Activator 90		L	0.25	% v/v	POST A							
4	AMS		WG	17	lb/100 gal	POST A							
5	Untreated						0	0	0	0	0	0	
LSD (P=.05)								2.8	0.0	1.3	0.8	0.0	3.5
Standard Deviation								1.8	0.0	0.8	0.5	0.0	2.2
CV								14.42	0.0	1.02	0.62	0.0	3.12

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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								ABUTH	SINAR	GLXMA	ANGR	CHEAL	AMAPO
								control	control	injury	control	control	control
								percent	percent	percent	percent	percent	percent
								6/20/2011	6/20/2011	6/27/2011	6/27/2011	6/27/2011	6/27/2011
								7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	A	98	96	0	98	98	99
1	AMS		WG	17	lb/100 gal	POST	A						
2	Vida	0.2	L	0.5	fl oz/a	POST	A	98	97	14	99	98	99
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	A						
2	AMS		WG	17	lb/100 gal	POST	A						
3	Vida	0.2	L	0.75	fl oz/a	POST	A	97	98	18	99	99	99
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	A						
3	AMS		WG	17	lb/100 gal	POST	A						
4	Extreme	2.17	L	3	pt/a	POST	A	99	97	4	99	99	99
4	Activator 90		L	0.25	% v/v	POST	A						
4	AMS		WG	17	lb/100 gal	POST	A						
5	Untreated							0	0	0	0	0	0
LSD (P=.05)								2.0	2.4	2.6	0.6	1.0	0.0
Standard Deviation								1.3	1.5	1.7	0.3	0.6	0.0
CV								1.63	1.97	23.04	0.44	0.78	0.0

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								AMBEL	ABUTH	SINAR	GLXMA	ANGR	CHEAL
								control	control	control	injury	control	control
								percent	percent	percent	percent	percent	percent
								6/27/2011	6/27/2011	6/27/2011	7/11/2011	7/11/2011	7/11/2011
								14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A
								0	0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Unit	Stg	Code							
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST A	96	98	99	0	90	96	
1	AMS		WG	17	lb/100 gal	POST A							
2	Vida	0.2	L	0.5	fl oz/a	POST A	74	97	99	10	88	89	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST A							
2	AMS		WG	17	lb/100 gal	POST A							
3	Vida	0.2	L	0.75	fl oz/a	POST A	77	97	99	9	89	94	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST A							
3	AMS		WG	17	lb/100 gal	POST A							
4	Extreme	2.17	L	3	pt/a	POST A	97	98	99	5	98	99	
4	Activator 90		L	0.25	% v/v	POST A							
4	AMS		WG	17	lb/100 gal	POST A							
5	Untreated						0	0	0	0	0	0	
LSD (P=.05)								2.7	4.2	0.0	7.0	3.8	4.4
Standard Deviation								1.7	2.7	0.0	4.4	2.4	2.8
CV								2.43	3.41	0.0	92.97	3.28	3.72

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Weed Code								AMAPO	AMBEL	ABUTH	SINAR	GLXMA	GLXMA	
Crop Code								control	control	control	control	moisture	yield	
Rating Data Type								percent	percent	percent	percent	percent	bu/acre	
Rating Unit								7/11/2011	7/11/2011	7/11/2011	7/11/2011	11/1/2011	11/1/2011	
Rating Date								28 DA-A	28 DA-A	28 DA-A	28 DA-A	141 DA-A	at 13% M	
Trt-Eval Interval								0	0	0	0	1	1	
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	A	98	90	97	99	13.0	42.3	
1	AMS		WG	17	lb/100 gal	POST	A							
2	Vida	0.2	L	0.5	fl oz/a	POST	A	95	68	85	99	12.8	41.1	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	A							
2	AMS		WG	17	lb/100 gal	POST	A							
3	Vida	0.2	L	0.75	fl oz/a	POST	A	98	72	89	99	12.8	43.9	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	A							
3	AMS		WG	17	lb/100 gal	POST	A							
4	Extreme	2.17	L	3	pt/a	POST	A	99	98	99	99	12.9	41.8	
4	Activator 90		L	0.25	% v/v	POST	A							
4	AMS		WG	17	lb/100 gal	POST	A							
5	Untreated							0	0	0	0	12.5	4.7	
LSD (P=.05)								3.1	5.1	8.8	0.0	0.43	8.85	
Standard Deviation								2.0	3.2	5.6	0.0	0.27	5.62	
CV								2.53	4.96	7.52	0.0	2.13	16.15	

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