

MSU Weed Science Research Program

Impact on Engenia tank-contamination on RR soybean yield

Trial ID: SOY13-15 Study Dir.: Sprague, Hill, Powell
 Conducted: Campus B-10 Quonset Investigator: Christy Sprague

Date Planted: May/28/2015 **Row Spacing:** 30 IN
Variety: Asgrow 2433RR **No. of Reps:** 4
Population: 140,000 seeds/A **% OM:** 2.9
Soil Type: Loam **pH:** 7.5
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel; spring soil finish
Crop Code Common Name
 1. GLXMA SOYBEAN

Application Description

	A	B	C
Application Timing:	V3/V4	V6/V8	R1
Date Treated:	Jun/22/2015	Jul/16/2015	Jul/23/2015
Time Treated:	9:45 AM	6:30 PM	10:30 AM
% Cloud Cover:	15	90	0
Air Temp., Unit:	76 F	73 F	71 F
% Relative Humidity:	66	62	59
Wind Speed/Unit/Dir:	3 mph S	3 mph E	1 mph S
Soil Temp., Unit:	75 F	70 F	69 F
Soil/Leaf Surface M:	4 5	5 5	5 5
Soil Moist (1=w 5=d):	3	4	4

Crop Stage at Each Application

	A	B	C
Crop Name:	GLXMA	GLXMA	GLXMA
Height (In.):	6"	14"	22"
Stage (L):	V1-V2	V8-V9	R1

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	TTI	11003	21"	20"	100"	19	Water	26
B	Cub	3.8	TTI	11003	29"	20"	100"	19	Water	26
C	Cub	3.8	TTI	11003	29"	20"	100"	19	Water	26

Comments: Soybeans were kept weed-free with applications of Roundup Powermax at 32 fl oz/A + AMS at 17 lb/100gal on June 22 & July 23.

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Weed Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code								injury	injury	injury	injury	injury
Rating Data Type								percent	percent	percent	percent	percent
Rating Unit								Jun/29/2015	Jul/06/2015	Jul/13/2015	Aug/06/2015	Aug/13/2015
Rating Date								7 DA-A	14 DA-A	21 DA-A	21 DA-B	21 DA-C
Trt-Eval Interval								0	0	0	0	0
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Untreated							0	0	0	0	0
2	Engenia Preference	5.5	SL	0.128	fl oz/a	V3/V4	A	13	26	49	16	11
2			L	0.25	% v/v	V3/V4	A					
3	Engenia Preference	5.5	SL	0.0128	fl oz/a	V3/V4	A	7	21	23	2	5
3			L	0.25	% v/v	V3/V4	A					
4	Engenia Preference	5.5	SL	0.128	fl oz/a	V6/V8	B				38	39
4			L	0.25	% v/v	V6/V8	B					
5	Engenia Preference	5.5	SL	0.0128	fl oz/a	V6/V8	B				29	30
5			L	0.25	% v/v	V6/V8	B					
6	Engenia Preference	5.5	SL	0.128	fl oz/a	R1	C				21	31
6			L	0.25	% v/v	R1	C					
7	Engenia Preference	5.5	SL	0.0128	fl oz/a	R1	C				20	25
7			L	0.25	% v/v	R1	C					
LSD (P=.05)								2.8	3.8	5.2	3.3	3.3
CV								25.58	13.93	12.65	12.53	10.95

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

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Weed Code
 Crop Code
 Rating Data Type GLXMA injury GLXMA moisture GLXMA yield
 Rating Unit percent percent bu/acre
 Rating Date Sep/10/2015 Oct/27/2015 Oct/27/2015
 Trt-Eval Interval 49 DA-C 96 DA-C at 13% M
 # Subsamples, Dec. 0 1 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Untreated							0	15.2	79.7
2	Engenia Preference	5.5	SL L	0.128 0.25	fl oz/a % v/v	V3/V4 V3/V4	A A	11	14.3	68.7
3	Engenia Preference	5.5	SL L	0.0128 0.25	fl oz/a % v/v	V3/V4 V3/V4	A A	5	14.8	78.8
4	Engenia Preference	5.5	SL L	0.128 0.25	fl oz/a % v/v	V6/V8 V6/V8	B B	39	15.1	48.6
5	Engenia Preference	5.5	SL L	0.0128 0.25	fl oz/a % v/v	V6/V8 V6/V8	B B	33	14.9	67.5
6	Engenia Preference	5.5	SL L	0.128 0.25	fl oz/a % v/v	R1 R1	C C	38	15.2	50.5
7	Engenia Preference	5.5	SL L	0.0128 0.25	fl oz/a % v/v	R1 R1	C C	28	15.0	65.6
LSD (P=.05)								4.3	0.77	8.62
CV								13.36	3.46	8.84

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