

MSU Weed Science Research Program

Movement of Engenia with different nozzles - DEMO

Trial ID: SOY19-14
Conducted: B-10

Study Dir.: Sprague and Powell
Investigator: Christy Sprague

Date Planted: Jun/03/2014 **Row Spacing:** 30 IN
Variety: AG 2433 **No. of Reps:** 1
Population: 152,000 seeds/A **% OM:** 4.0
Soil Type: Loam **pH:** 6.9
Plot Size: 10 X 200 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, spring soil finish
Fertilizer: None

Crop Code Common Name
1. GLXMA SOYBEAN

Application Description

A
Application Timing: POST
Date Treated: Jul/16/2014
Time Treated: 11:20 AM
% Cloud Cover: 85
Air Temp., Unit: 63 F
% Relative Humidity: 65
Wind Speed/Unit/Dir: 5 mph w
Soil Temp., Unit: 60 F
Soil/Leaf Surface M: 4 5
Soil Moist (1=w 5=d): 4

Crop Stage at Each Application

A
Crop Name: GLXMA
Height (In.): 17"
Stage (L): V5

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	Backpack	-	See Trts	11004	41"	20"	100"	10	Water	30

Comments: Four spray booms with differnt nozzles were sprayed at the same time 24" above the soybean canopy for 10 sec. Movement of the herbicides by assessing soybean injury every 10 feet from the point of spraying.

MSU Weed Science Research Program

Movement of Engenia with different nozzles - DEMO

Trial ID: SOY19-14
 Conducted: B-10

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

GLXMA injury 0' percent Jul/31/2014 15 DA-A	GLXMA injury 10' percent Jul/31/2014 15 DA-A	GLXMA injury 20' percent Jul/31/2014 15 DA-A	GLXMA injury 30' percent Jul/31/2014 15 DA-A
---	--	--	--

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	XR 11004 - 24" ht					A	POST 99		95	60	30
1	Engenia	5	SL	12.8	fl oz/a	A	POST				
1	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST				
1	Preference		L	0.25	% v/v	A	POST				
2	TDXL-D 11004 - 24" ht					A	POST 99		75	30	20
2	Engenia	5	SL	12.8	fl oz/a	A	POST				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST				
2	Preference		L	0.25	% v/v	A	POST				
3	TTI 11004 - 24" ht					A	POST 99		65	25	15
3	Engenia	5	SL	12.8	fl oz/a	A	POST				
3	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST				
3	Preference		L	0.25	% v/v	A	POST				
4	ULD 120-04 - 24" ht					A	POST 99		40	25	10
4	Engenia	5	SL	12.8	fl oz/a	A	POST				
4	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST				
4	Preference		L	0.25	% v/v	A	POST				

LSD (P=.05)

CV	:	:	:	:
----	---	---	---	---

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

MSU Weed Science Research Program

Movement of Engenia with different nozzles - DEMO

Trial ID: SOY19-14
 Conducted: B-10

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

GLXMA injury 40' percent Jul/31/2014 15 DA-A	GLXMA injury 50' percent Jul/31/2014 15 DA-A	GLXMA injury 60' percent Jul/31/2014 15 DA-A	GLXMA injury 70' percent Jul/31/2014 15 DA-A
--	--	--	--

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	XR 11004 - 24" ht					A	POST	30		25	30	20
1	Engenia	5	SL	12.8	fl oz/a	A	POST					
1	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST					
1	Preference		L	0.25	% v/v	A	POST					
2	TDXL-D 11004 - 24" ht					A	POST	15		7	5	3
2	Engenia	5	SL	12.8	fl oz/a	A	POST					
2	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST					
2	Preference		L	0.25	% v/v	A	POST					
3	TTI 11004 - 24" ht					A	POST	10		3	0	0
3	Engenia	5	SL	12.8	fl oz/a	A	POST					
3	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST					
3	Preference		L	0.25	% v/v	A	POST					
4	ULD 120-04 - 24" ht					A	POST	3		0	0	0
4	Engenia	5	SL	12.8	fl oz/a	A	POST					
4	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST					
4	Preference		L	0.25	% v/v	A	POST					

LSD (P=.05)

CV

: : : :

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

MSU Weed Science Research Program

Movement of Engenia with different nozzles - DEMO

Trial ID: SOY19-14
 Conducted: B-10

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

GLXMA	GLXMA	GLXMA
injury 80'	injury 90'	injury 100'
percent	percent	percent
Jul/31/2014	Jul/31/2014	Jul/31/2014
15 DA-A	15 DA-A	15 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code			
1	XR 11004 - 24" ht					A	POST 20		5	5
1	Engenia	5	SL	12.8	fl oz/a	A	POST			
1	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST			
1	Preference		L	0.25	% v/v	A	POST			
2	TDXL-D 11004 - 24" ht					A	POST 0		0	0
2	Engenia	5	SL	12.8	fl oz/a	A	POST			
2	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST			
2	Preference		L	0.25	% v/v	A	POST			
3	TTI 11004 - 24" ht					A	POST 0		0	0
3	Engenia	5	SL	12.8	fl oz/a	A	POST			
3	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST			
3	Preference		L	0.25	% v/v	A	POST			
4	ULD 120-04 - 24" ht					A	POST 0		0	0
4	Engenia	5	SL	12.8	fl oz/a	A	POST			
4	Roundup PowerMax	4.5	SL	28	fl oz/a	A	POST			
4	Preference		L	0.25	% v/v	A	POST			

LSD (P=.05)

CV	:	:	:
----	---	---	---

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