

MSU Weed Science Research Program

Classic-Lorsban Interactions in STS and non-STS Soybeans

Trial ID: SOY10-06
 Conducted: T-12 west

Study Dir.: Sprague, Powell, DiFonzo
 Investigator: Christy Sprague

Date Planted: 5/9/2006
Variety: DSR3003, DSR301
Population: 155,000 seed/acre
Soil Type: Loam
Plot Size: 10 X 35 FT
Row Spacing: 30 IN
No. of Reps: 4
% OM: 3.8
pH: 6.5
Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall moldboard plow
 Soil finish 5/8/06, 5/9/06

Fertilizer: None at planting

Crop	Code	Common Name
1.	GLXMA	SOYBEAN

Application Description

	A	B	C	D	E
Application Timing:	PRE	-14 Day	-7 Day	POST	+7 Day
Date Treated:	5/9/2006	6/8/2006	6/15/2006	6/24/2006	6/30/2006
Time Treated:	8:30 pm	4:30 pm	8:00 am	4:00 pm	8:30 am
% Cloud Cover:	90	15	0	0	10
Air Temp., Unit:	65 F	83 F	64 F	83 F	67 F
% Relative Humidity:	59	28	57	26	53
Wind Speed/Unit/Dir:	6 mph SE	4 mph NW	4 mph E	1 mph SW	1 mph SE
Soil Temp., Unit:	64 F	74 F	65 F	82 F	53 F
Soil/Leaf Surface M:	5 -	5 5	5 5	5 5	5 5
Soil Moist (1=w 5=d):	4	5	5	4	5

	F
Application Timing:	+14 Day
Date Treated:	7/7/2006
Time Treated:	8:45 am
% Cloud Cover:	0
Air Temp., Unit:	69 F
% Relative Humidity:	59
Wind Speed/Unit/Dir:	4 mph W
Soil Temp., Unit:	69 F
Soil/Leaf Surface M:	5 4
Soil Moist (1=w 5=d):	5

Crop Stage at Each Application

	A	B	C	D	E
Crop Name:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Height (In.):	-	3-6"	5"-7"	12"	15"
Stage (L):	-	2 tri	v2-v3	v4	v6-R1

	F
Crop Name:	GLXMA
Height (In.):	17"
Stage (L):	v8-R1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	CUB	3.8	AirMix	11003	20"	20"	100"	19	water	27
B	backpack	3.5	flat fan	8003	22"	20"	100"	20	water	25
C	backpack	3.5	flat fan	8003	22"	20"	100"	20	water	25
D	Cub	3.8	AirMix	11003	22"	20"	120"	19	water	27
E	backpack	3.5	flat fan	8003	26"	20"	100"	20	WATER	25
F	backpack	3.5	flat fan	8003	30"	20"	100"	20	WATER	25

Comments: Roundup Ready/STS- Dairyland DSR3003
 Non Roundup Ready/STS- Dairyland DSR301

All Treatments were maintained Weed-Free throughout the growing season.

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6/2/06- Roundup WeatherMax (22oz/acre) + Ammonium Sulfate (17lb/100gal) was applied to all treatments.

6/26/06- Mirage Plus (32oz/acre) + Ammonium sulfate (17lb/100 gal) was applied to all treatments.

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Weed Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code							injury	injury	injury	injury	injury	moisture	yield
Rating Data Type							percent	percent	percent	percent	percent	percent	bu/acre
Rating Unit							6/21/2006	6/30/2006	7/7/2006	7/14/2006	7/20/2006	10/30/2006	10/30/2006
Rating Date							52 DA-A	59 DA-A	66 DA-A	72 DA-A	174 DA-A	174 DA-A	at 13% M
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
1	STS Soybean						0	0	0	0	0	13.9	62.9
1	Canopy	75	3	oz/a	PRE	A							
2	non-STS Soybean						34	11	14	11	9	14.7	52.6
2	Canopy	75	3	oz/a	PRE	A							
3	STS Soybean						0	0	0	0	0	14.3	62.4
3	Lorsban	4	1	qt/a	-14d POS	B							
4	non-STS Soybean						0	0	0	1	0	14.8	55.6
4	Lorsban	4	1	qt/a	-14d POS	B							
5	STS Soybean						0	0	0	0	0	14.2	60.7
5	Canopy	75	3	oz/a	PRE	A							
5	Lorsban	4	1	qt/a	-14d POS	B							
6	non-STS Soybean						20	6	10	11	6	14.7	52.8
6	Canopy	75	3	oz/a	PRE	A							
6	Lorsban	4	1	qt/a	-14d POS	B							
7	STS Soybean							0	0	0	0	14.3	60.4
7	Lorsban (-14 day)	4	1	qt/a	-14d POS	B							
7	Synchrony XP (0.375 oz)												
7	Classic	25	0.324	oz/a	POST	D							
7	Harmony GT (50%)	50	0.052	oz/a	POST	D							
7	Crop Oil Concentrate		1	% v/v	POST	D							
8	non-STS Soybean							26	20	19	11	14.8	50.9
8	Lorsban (-14 day)	4	1	qt/a	-14d POS	B							
8	Synchrony XP (0.375 oz)												
8	Classic	25	0.324	oz/a	POST	D							
8	Harmony GT (50%)	50	0.052	oz/a	POST	D							
8	Crop Oil Concentrate		1	% v/v	POST	D							
9	STS Soybean							0	3	0	0	14.4	64.6
9	Lorsban (-7 day)	4	1	qt/a	-7d POS	C							
9	Synchrony XP (0.375 oz)												
9	Classic	25	0.324	oz/a	POST	D							
9	Harmony GT (50%)	50	0.052	oz/a	POST	D							
9	Crop Oil Concentrate		1	% v/v	POST	D							
10	non-STS Soybean							31	29	19	7	15.8	50.6
10	Lorsban (-7 day)	4	1	qt/a	-7d POS	C							
10	Synchrony XP (0.375 oz)												
10	Classic	25	0.324	oz/a	POST	D							
10	Harmony GT (50%)	50	0.052	oz/a	POST	D							
10	Crop Oil Concentrate		1	% v/v	POST	D							
11	STS Soybean							0	0	0	0	14.3	62.8
11	Lorsban	4	1	qt/a	POST	D							
12	non-STS Soybean							1	0	1	0	14.9	53.7
12	Lorsban	4	1	qt/a	POST	D							
13	STS Soybean							0	0	0	0	14.3	66.2
13	Synchrony XP (0.375 oz)												
13	Classic	25	0.324	oz/a	POST	D							
13	Harmony GT (50%)	50	0.052	oz/a	POST	D							
13	Crop Oil Concentrate		1	% v/v	POST	D							

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Rating Data Type							percent	percent	percent	percent	percent	percent	bu/acre
Rating Unit							6/21/2006	6/30/2006	7/7/2006	7/14/2006	7/20/2006	10/30/2006	10/30/2006
Rating Date							52 DA-A	59 DA-A	66 DA-A	72 DA-A	174 DA-A	10/30/2006	at 13% M
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
14	non-STS Soybean						31	26	20	11	15.3	51.5	
14	Synchony XP (0.375 oz)												
14	Classic	25	0.324	oz/a	POST	D							
14	Harmony GT (50%)	50	0.052	oz/a	POST	D							
14	Crop Oil Concentrate		1	% v/v	POST	D							
15	STS Soybean						16	3	0	0	14.7	64.1	
15	Lorsban	4	1	qt/a	POST	D							
15	Synchony XP (0.375 oz)												
15	Classic	25	0.324	oz/a	POST	D							
15	Harmony GT (50%)	50	0.052	oz/a	POST	D							
15	Crop Oil Concentrate		1	% v/v	POST	D							
16	non-STS Soybean						64	71	63	40	16.1	41.1	
16	Lorsban	4	1	qt/a	POST	D							
16	Synchony XP (0.375 oz)												
16	Classic	25	0.324	oz/a	POST	D							
16	Harmony GT (50%)	50	0.052	oz/a	POST	D							
16	Crop Oil Concentrate		1	% v/v	POST	D							
17	STS Soybean						1	0	0	0	14.1	60.3	
17	Synchony XP (0.75 oz)												
17	Classic	25	0.64	oz/a	POST	D							
17	Harmony GT (50%)	50	0.1	oz/a	POST	D							
17	Crop Oil Concentrate		1	% v/v	POST	D							
18	non-STS Soybean						44	43	29	16	15.1	47.0	
18	Synchony XP (0.75 oz)												
18	Classic	25	0.64	oz/a	POST	D							
18	Harmony GT (50%)	50	0.1	oz/a	POST	D							
18	Crop Oil Concentrate		1	% v/v	POST	D							
19	STS Soybean						18	4	1	0	13.9	62.5	
19	Lorsban	4	1	qt/a	POST	D							
19	Synchony XP (0.75 oz)												
19	Classic	25	0.64	oz/a	POST	D							
19	Harmony GT (50%)	50	0.1	oz/a	POST	D							
19	Crop Oil Concentrate		1	% v/v	POST	D							
20	non-STS Soybean						56	83	78	65	17.5	32.0	
20	Lorsban	4	1	qt/a	POST	D							
20	Synchony XP (0.75 oz)												
20	Classic	25	0.64	oz/a	POST	D							
20	Harmony GT (50%)	50	0.1	oz/a	POST	D							
20	Crop Oil Concentrate		1	% v/v	POST	D							
21	STS Soybean						1	6	0	0	14.3	61.0	
21	Lorsban (+7 day)	4	1	qt/a	+7d POS	E							
21	Synchony XP (0.375 oz)												
21	Classic	25	0.324	oz/a	POST	D							
21	Harmony GT (50%)	50	0.052	oz/a	POST	D							
21	Crop Oil Concentrate		1	% v/v	POST	D							
22	non-STS Soybean						29	30	12	5	15.2	51.7	
22	Lorsban (+7 day)	4	1	qt/a	+7d POS	E							
22	Synchony XP (0.375 oz)												
22	Classic	25	0.324	oz/a	POST	D							
22	Harmony GT (50%)	50	0.052	oz/a	POST	D							
22	Crop Oil Concentrate		1	% v/v	POST	D							

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Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
												injury	injury	injury	injury	injury	moisture	yield
												percent	percent	percent	percent	percent	percent	bu/acre
												6/21/2006	6/30/2006	7/7/2006	7/14/2006	7/20/2006	10/30/2006	10/30/2006
												52 DA-A	59 DA-A	66 DA-A	72 DA-A	174 DA-A	at 13% M	
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code												
23	STS Soybean							0	0	0	0	14.1	58.8					
23	Lorsban (+14 day)	4	1	qt/a	+14d	POS	F											
23	Synchony XP (0.375 oz)																	
23	Classic	25	0.324	oz/a	POST	D												
23	Harmony GT (50%)	50	0.052	oz/a	POST	D												
23	Crop Oil Concentrate		1	% v/v	POST	D												
24	non-STS Soybean							33	25	19	3	14.5	52.1					
24	Lorsban (+14 day)	4	1	qt/a	+14d	POS	F											
24	Synchony XP (0.375 oz)																	
24	Classic	25	0.324	oz/a	POST	D												
24	Harmony GT (50%)	50	0.052	oz/a	POST	D												
24	Crop Oil Concentrate		1	% v/v	POST	D												
25	STS Soybean							0	0	0	0	14.2	63.6					
25	Untreated																	
26	non-STS Soybean							0	0	1	0	14.7	53.6					
26	Untreated																	
LSD (P=.05)								3.5	12.2	5.9	4.0	4.0	0.98	5.39				
Standard Deviation								2.3	8.6	4.1	2.8	2.8	0.69	3.81				
CV								26.15	60.87	29.51	25.75	42.36	4.7	6.8				