Classic-Lorsban Interactions in STS and non-STS Soybeans

Trial ID: SOY06-07 Study Dir.: Sprague, Powell, DiFonzo
Conducted: C-14E Investigator: Christy Sprague

Date Planted: 5/8/07 **Row Spacing:** 30 IN
Variety: See Comments **No. of Reps:** 4
Population: 155,000 seeds/acre **% OM:** 2.8
Soil Type: Sandy Clay Loam **pH:** 6.2
Plot Size: 10 **X** 30 **FT** **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel Plowed, Spring Soil Finish X2 5/8/07
Fertilizer: None at Planting

Crop	Code	Common Name
1.	GLMXA	Soybean

Application Description

	A	B	C	D	E
Application Timing:	-14 day	-7 day	POST	+7 day	+14 day
Date Treated:	6/8/07	6/14/07	6/22/07	6/29/07	7/6/07
Time Treated:	9:00 am	4:20 pm	10:00 am	1:15 pm	8:30 am
% Cloud Cover:	70	40	0	0	0
Air Temp., Unit:	77 F	95 F	67 F	74 F	69 F
% Relative Humidity:	66	33	20	38	62
Wind Speed/Unit/Dir:	3 mph S	2 mph N	3 mph S	4 mph NE	2 mph N
Soil Temp., Unit:	71 F	93 F	68 F	74 F	68 F
Soil/Leaf Surface M:	5 4	5 5	5 5	3 5	4 4
Soil Moist (1=w 5=d):	4	5	5	3	4

Crop Stage at Each Application

	A	B	C	D	E
Crop Name:	GLMXA	GLMXA	GLMXA	GLMXA	GLMXA
Height (In.):	5-7"	7-9"	10-12"	16"	18"
Stage (L):	V2	V3	V4-V5	R1	R2

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Backpack	2.6	FF	8003	20"	20"	120"	19	Water	30
B	Backpack	2.6	FF	8003	20"	20"	120"	19	Water	30
C	Cub	3.8	AirMix	11003	24"	20"	100"	19	Water	27
D	Backpack	2.6	FF	8003	27"	20"	120"	19	Water	30
E	Backpack	2.6	FF	8003	27"	20"	120"	19	Water	30

Comments: Dairyland DSR-3003 RR/STS and Dairyland DSR-301 RR seed
All treatments maintained weed-free throughout the growing season.
6/1/07- Applied Roundup Weathermax (22 oz)+ AMS (17lb/100) to entire study with Willmar self-propelled sprayer at 18 GPA, 40 PSI.
6/21/07- Applied Roundup Original Max (22oz) + AMS (17lb/100 gal) to entire study w/ Willmar sprayer at 20 GPA, 40 PSI.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent 6/29/07 7 DA-C	GLXMA injury percent 7/6/07 14 DA-C	GLXMA injury percent 7/20/07 28 DA-C	GLXMA injury percent 8/13/07 52 DA-C	GLXMA moisture percent 11/1/07 146 DA-A	GLXMA yield bu/acre 11/1/07 at 13% M
1	STS Soybean							0	0	0	0	13.6	42.2
1	Lorsban (-14 day)	4	EC	1	qt/a	-14d POS	A						
1	Synchony XP (0.375 oz)												
1	Classic	25	WG	0.324	oz/a	POST	C						
1	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
1	Crop Oil Concentrate		L	1	% v/v	POST	C						
2	non-STS Soybean							30	23	16	0	13.0	47.5
2	Lorsban (-14 day)	4	EC	1	qt/a	-14d POS	A						
2	Synchony XP (0.375 oz)												
2	Classic	25	WG	0.324	oz/a	POST	C						
2	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
2	Crop Oil Concentrate		L	1	% v/v	POST	C						
3	STS Soybean							0	0	0	0	13.4	38.7
3	Lorsban (-7 day)	4	EC	1	qt/a	-7d POS	B						
3	Synchony XP (0.375 oz)												
3	Classic	25	WG	0.324	oz/a	POST	C						
3	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
3	Crop Oil Concentrate		L	1	% v/v	POST	C						
4	non-STS Soybean							41	34	25	0	12.7	49.7
4	Lorsban (-7 day)	4	EC	1	qt/a	-7d POS	B						
4	Synchony XP (0.375 oz)												
4	Classic	25	WG	0.324	oz/a	POST	C						
4	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
4	Crop Oil Concentrate		L	1	% v/v	POST	C						
5	STS Soybean							0	0	0	0	13.6	41.0
5	Lorsban	4	EC	1	qt/a	POST	C						
6	non-STS Soybean							5	1	0	0	13.2	46.6
6	Lorsban	4	EC	1	qt/a	POST	C						
7	STS Soybean							0	0	0	0	13.3	47.4
7	Synchony XP (0.375 oz)												
7	Classic	25	WG	0.324	oz/a	POST	C						
7	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
7	Crop Oil Concentrate		L	1	% v/v	POST	C						
8	non-STS Soybean							30	29	20	0	12.8	51.8
8	Synchony XP (0.375 oz)												
8	Classic	25	WG	0.324	oz/a	POST	C						
8	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
8	Crop Oil Concentrate		L	1	% v/v	POST	C						
9	STS Soybean							4	0	0	0	13.6	37.5
9	Lorsban	4	EC	1	qt/a	POST	C						
9	Synchony XP (0.375 oz)												
9	Classic	25	WG	0.324	oz/a	POST	C						
9	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
9	Crop Oil Concentrate		L	1	% v/v	POST	C						
10	non-STS Soybean							49	66	53	16	12.6	45.1
10	Lorsban	4	EC	1	qt/a	POST	C						
10	Synchony XP (0.375 oz)												
10	Classic	25	WG	0.324	oz/a	POST	C						
10	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
10	Crop Oil Concentrate		L	1	% v/v	POST	C						

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent 6/29/07 7 DA-C	GLXMA injury percent 7/6/07 14 DA-C	GLXMA injury percent 7/20/07 28 DA-C	GLXMA injury percent 8/13/07 52 DA-C	GLXMA moisture percent 11/1/07 146 DA-A	GLXMA yield bu/acre 11/1/07 at 13% M
11	STS Soybean							0	0	0	0	13.8	46.8
11	Synchony XP (0.75 oz)												
11	Classic	25	WG	0.64	oz/a	POST	C						
11	Harmony GT (50%)	50	WG	0.1	oz/a	POST	C						
11	Crop Oil Concentrate		L	1	% v/v	POST	C						
12	non-STS Soybean							45	33	28	0	12.9	47.7
12	Synchony XP (0.75 oz)												
12	Classic	25	WG	0.64	oz/a	POST	C						
12	Harmony GT (50%)	50	WG	0.1	oz/a	POST	C						
12	Crop Oil Concentrate		L	1	% v/v	POST	C						
13	STS Soybean							26	0	0	0	13.4	45.1
13	Lorsban	4	EC	1	qt/a	POST	C						
13	Synchony XP (0.75 oz)												
13	Classic	25	WG	0.64	oz/a	POST	C						
13	Harmony GT (50%)	50	WG	0.1	oz/a	POST	C						
13	Crop Oil Concentrate		L	1	% v/v	POST	C						
14	non-STS Soybean							53	68	63	18	12.8	47.7
14	Lorsban	4	EC	1	qt/a	POST	C						
14	Synchony XP (0.75 oz)												
14	Classic	25	WG	0.64	oz/a	POST	C						
14	Harmony GT (50%)	50	WG	0.1	oz/a	POST	C						
14	Crop Oil Concentrate		L	1	% v/v	POST	C						
15	STS Soybean							0	0	0	0	13.7	41.5
15	Lorsban (+7 day)	4	EC	1	qt/a	+7d POS	D						
15	Synchony XP (0.375 oz)												
15	Classic	25	WG	0.324	oz/a	POST	C						
15	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
15	Crop Oil Concentrate		L	1	% v/v	POST	C						
16	non-STS Soybean							30	26	18	0	12.8	54.5
16	Lorsban (+7 day)	4	EC	1	qt/a	+7d POS	D						
16	Synchony XP (0.375 oz)												
16	Classic	25	WG	0.324	oz/a	POST	C						
16	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
16	Crop Oil Concentrate		L	1	% v/v	POST	C						
17	STS Soybean							0	0	0	0	13.7	45.7
17	Lorsban (+14 day)	4	EC	1	qt/a	+14d POS	E						
17	Synchony XP (0.375 oz)												
17	Classic	25	WG	0.324	oz/a	POST	C						
17	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
17	Crop Oil Concentrate		L	1	% v/v	POST	C						
18	non-STS Soybean							29	19	18	0	12.9	55.6
18	Lorsban (+14 day)	4	EC	1	qt/a	+14d POS	E						
18	Synchony XP (0.375 oz)												
18	Classic	25	WG	0.324	oz/a	POST	C						
18	Harmony GT (50%)	50	WG	0.052	oz/a	POST	C						
18	Crop Oil Concentrate		L	1	% v/v	POST	C						
19	STS Soybean							0	0	0	0	13.7	42.8
19	Untreated												
20	non-STS Soybean							1	0	0	0	12.7	53.6
20	Untreated												

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
Weed Code													
Crop Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type								injury	injury	injury	injury	moisture	yield
Rating Unit								percent	percent	percent	percent	percent	bu/acre
Rating Date								6/29/07	7/6/07	7/20/07	8/13/07	11/1/07	11/1/07
Trt-Eval Interval								7 DA-C	14 DA-C	28 DA-C	52 DA-C	146 DA-A	at 13% M
LSD (P=.05)								8.0	4.2	4.7	1.8	0.65	10.15
Standard Deviation								5.7	2.9	3.3	1.2	0.46	7.18
CV								33.14	19.85	27.75	73.55	3.5	15.46