

Flexstar plus Select Adjuvant Study.

Project Code: 03-19B Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 9-3-03

Objective:

Evaluate various adjuvants for Flexstar plus Select tankmixtures.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. XANST	cocklebur, common	Xanthium strumarium L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
 Planting Method: Seeded Planting Date: 6-19-03
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2002

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name: Ebbert % OM: 1.4 pH: 5.7 CEC: 14
 Texture: Silt loam Fert. Level: P1: 54 LB/A, K: 280 LB/A

APPLICATION DESCRIPTION

A

Application Date: 7-8-03
 Time of Day: 19:30
 Application Method: Spray
 Application Timing: 4-8"W
 Applic. Placement: BROFOL
 Air Temp., Unit: 93 F
 % Relative Humidity: 48
 Wind Velocity, Unit: 0 MPH
 Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA V2
 Height, Unit: 6 IN

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code: SETFA
 Stage(leaves): 3-6
 Height(inches): 4-8
 Density: High

Weed 2 Code: XANST
 Stage(leaves): 5-11
 Height(inches): 4-8
 Density: Low

Weed 3 Code: AMBEL
 Stage(leaves): 4-10
 Height(inches): 4-8
 Density: Low

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 sprayer
Operating Pressure:	40 PSI
Nozzle Type:	Flat fan
Nozzle Size:	8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	20 GPA

NOTES:

Not harvested.

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Weed Code						SETFA	SETFA	XANST	XANST	AMBEL	AMBEL
Crop Code	GLXMA	GLXMA									
Rating Data Type	Injury	Injury	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	7-22-03	8-5-03	7-22-03	8-5-03	7-22-03	8-5-03	7-22-03	8-5-03	7-22-03	8-5-03	8-5-03
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	NONTREATED									0	0	0	0	0	0	0
2	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	70	70	50	40	37
2	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
3	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	87	83	82	82	88
3	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
3	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	4-8"W	A							
4	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	82	85	67	70	77
4	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4-8"W	A							
5	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	83	85	62	67	77
5	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
5	HI-PER-OIL	100	LIQ	0.5	% V/V	0.5	% V/V	4-8"W	A							
6	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	82	83	78	78	83
6	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
6	AG 01017	100	LIQ	0.5	% V/V	0.5	% V/V	4-8"W	A							
7	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	88	96	57	57	65
7	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
7	AG 01023	100	LIQ	0.5	% V/V	0.5	% V/V	4-8"W	A							
8	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	78	82	78	78	85
8	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
8	RIVET	100	LIQ	0.5	% V/V	0.5	% V/V	4-8"W	A							
9	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	75	85	65	62	67
9	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
9	AG 01034	100	LIQ	0.25	% V/V	0.25	% V/V	4-8"W	A							
10	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	82	72	78	73	83
10	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
10	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	% V/V	4-8"W	A							
11	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	80	67	93	96	87
11	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
11	NEWTONE	100	LIQ	1.0	% V/V	1	% V/V	4-8"W	A							
12	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	85	72	77	85	96
12	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A							
12	AG 03002	100	LIQ	1.0	% V/V	1	% V/V	4-8"W	A							

Weed Code	SETFA SETFA XANST XANST AMBEL AMBEL							
Crop Code	GLXMA	GLXMA	SETFA		XANST		ABEL	
Rating Data Type	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	7-22-03	8-5-03	7-22-03	8-5-03	7-22-03	8-5-03	7-22-03	8-5-03
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
13	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	92	87	90	88	92	88
13	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
13	AG 03002	100	LIQ	2.0	% V/V	2	% V/V	4-8"W	A								
14	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	89	93	72	78	93	95
14	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
14	AG 02025	100	LIQ	1.5	% V/V	1.5	% V/V	4-8"W	A								
15	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	77	78	45	40	67	63
15	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
15	PREFERENCE	100	LIQ	0.25	% V/V	0.25	% V/V	4-8"W	A								
16	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	73	63	58	63	62	57
16	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
16	ACTIVATE PLUS	100	LIQ	0.25	% V/V	0.25	% V/V	4-8"W	A								
17	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	73	78	42	57	73	68
17	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
17	AG 01010	100	LIQ	0.25	% V/V	0.25	% V/V	4-8"W	A								
18	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	77	82	60	62	68	63
18	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
18	AG 02018	100	LIQ	0.25	% V/V	0.25	% V/V	4-8"W	A								
19	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	78	80	60	57	65	57
19	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
19	AG 02019	100	LIQ	0.25	% V/V	0.25	% V/V	4-8"W	A								
20	FLEXSTAR	1.88	EC	0.147	LB A/A	10	FL OZ/A	4-8"W	A	0	0	70	67	50	53	60	53
20	SELECT	2	EC	0.0625	LB A/A	4	FL OZ/A	4-8"W	A								
20	SILKIN	100	LIQ	0.125	% V/V	0.125	% V/V	4-8"W	A								
LSD (P=.05)										0.0	0.0	13.6	19.2	19.3	21.7	17.3	21.7
Replicate F										0.000	0.000	1.418	2.175	1.024	2.613	1.583	1.059
Replicate Prob(F)										1.0000	1.0000	0.2546	0.1276	0.3687	0.0865	0.2185	0.3569
Treatment F										0.000	0.000	15.934	8.662	9.368	7.893	13.194	7.783
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: Agriliance.
2. Ratings: CI and WC 14 and 28 DAT.
3. DA-A = days after 4-8"W application.