

## Select Tankmixtures with Harmony GT, Cobra, and V-10086.

01-21S-MME30

**OBJECTIVE:** Evaluate Select combinations with Harmony GT, Cobra, and V-10086 for crop response and weed control.

**SUMMARY:** No corn injury was observed in this study. Giant foxtail control 14 and 28 days after treatment (DAT) was greatest when EX 105 plus AMS was added to Steadfast plus Distinct. Common cocklebur control 14 DAT from Steadfast plus Distinct was similar with all adjuvants except AR 581-1P at 9.5 lb/100 gal, which provided less control than other treatments. However, by 28 DAT, all treatments controlled at least 93% of common cocklebur. Waterhemp control was greatest at both evaluation timings with the combination of PL335 at 20 lb/100 gal plus Steadfast plus Distinct. Overall weed control was highest with the addition of EX 105 plus AMS to Steadfast plus Distinct.

### HERBICIDES

COBRA 2 EC  
FLEXSTAR 1.88 EC  
HARMONY GT 75 WG  
SELECT 2 EC  
V-10086 2 EC

### WEEDS

foxtail, giant

### CROP

soybean

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Select Tankmixtures with Harmony GT, Cobra, and V-10086.

Project Code: 01-21S-MME30 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA  
 Trial Status: Final Initiation Date: 4-25-01

**Objective:**

Evaluate Select combinations with Harmony GT, Cobra, and V-10086 for crop response and weed control.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.

Crop 1:	GLXMA soybean	Variety:	B-T 398CR
Planting Method:	Seeded	Planting Date:	5-14-01
Rate:	75 lb/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	ZEAMX, 2000				
Field Prep./Maintenance:	N 0 LB/A, P205 0 LB/A, K20 150 LB/A				

Soil Name:	Ebbert	% OM:	1.4	pH:	5.7	CEC:	14
Texture:	Silt loam	Fert. Level:	P1: 97 LB/A, K: 291 LB/A				

**APPLICATION DESCRIPTION**

APPLICATION DESCRIPTION		A
Application Date:	6-19-01	
Time of Day:	14:00	
Application Method:	Spray	
Application Timing:	4-6"GR	
Applic. Placement:	BROFOL	
Air Temp., Unit:	91 F	
% Relative Humidity:	46	
Wind Velocity, Unit:	7-10 MPH	
Soil Moisture:	BELNOR	
% Cloud Cover:	60	

**CROP STAGE AT EACH APPLICATION**

CROP STAGE AT EACH APPLICATION		A
Crop 1 Code, Stage:	GLXMA V2	
Height, Unit:	3-4 IN	

**WEED STAGE AT EACH APPLICATION**

WEED STAGE AT EACH APPLICATION		A
Weed 1 Code:	SETFA	
Stage(leaves):	4-6	
Height(inches):	4-6	
Density:	High	

**APPLICATION EQUIPMENT**

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	GLXMA	GLXMA	GLXMA	GLXMA	SETFA	SETFA
Crop Code	Injury	Injury	Injury	Injury	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-22-01	6-26-01	7-3-01	7-17-01	7-3-01	7-17-01
Rating Date	3 DA-A	7 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
Trt-Eval Interval						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									0	0	0	0	0	0
2	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	0	0	0	0	97	94
2	PRIME OIL COC	100	LIQ	1.0	PT/A	1	PT/A	4-6"	GR A						
2	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
3	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	0	5	0	0	93	88
3	HARMONY GT	75	WG	0.00375	LB A/A	0.08	OZ/A	4-6"	GR A						
3	PRIME OIL COC	100	LIQ	1.0	PT/A	1	PT/A	4-6"	GR A						
3	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
4	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	12	27	5	0	91	80
4	HARMONY GT	75	WG	0.00375	LB A/A	0.08	OZ/A	4-6"	GR A						
4	COBRA	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A						
4	PRIME OIL COC	100	LIQ	1.0	PT/A	1	PT/A	4-6"	GR A						
4	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
5	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	2	16	5	0	85	75
5	HARMONY GT	75	WG	0.00375	LB A/A	0.08	OZ/A	4-6"	GR A						
5	V-10086	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A						
5	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
6	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	12	32	9	2	91	84
6	COBRA	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A						
6	PRIME OIL COC	100	LIQ	1.0	PT/A	1	PT/A	4-6"	GR A						
6	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
7	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	5	19	7	0	86	75
7	V-10086	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A						
7	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
8	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	18	30	8	0	89	86
8	V-10086	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A						
8	PRIME OIL COC	100	LIQ	1.0	PT/A	1	PT/A	4-6"	GR A						
8	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
9	SELECT	2	EC	0.125	LB A/A	8	OZ/A	4-6"	GR A	5	7	0	0	97	86
9	FLEXSTAR	1.88	EC	0.294	LB A/A	20	OZ/A	4-6"	GR A						
9	PRIME OIL COC	100	LIQ	1.0	PT/A	1	PT/A	4-6"	GR A						
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-6"	GR A						
LSD (P=.05)										3.2	4.2	2.6	1.7	2.4	5.5
Replicate F										1.931	1.042	0.017	1.000	2.010	0.367
Replicate Prob(F)										0.1773	0.3756	0.9834	0.3897	0.1665	0.6982
Treatment F										38.552	79.758	20.538	1.000	1484.463	242.101
Treatment Prob(F)										0.0001	0.0001	0.0001	0.4726	0.0001	0.0001

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Trial Comments

- 1. Protocol: Valent.
- 2. DA-A = days after 4-6"GR application.