

## Glyphosate plus Crop Booster Tankmixes.

Project Code: 03-2A-ME70      Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country:            Belleville            IL 62221 USA  
 Trial Status: Final                    Updated:            9-2-03

**Objective:**

Determine if glyphosate efficacy is influenced by tankmixing with  
 Crop Booster for Beans (foliar fertilized).

Weed Code	Common Name	Scientific Name
1.	XANST cocklebur, common	Xanthium strumarium L.
2.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
3.	POLPY smartweed, Pennsylvania	Polygonum pennsylvanicum L.
4.	ECHCG barnyardgrass	Echinochloa crus-galli (L.) Beauv.

Crop 1:                    GLXMA soybean                    Variety:                    Asgrow 4403 RR  
 Planting Method: Seeded                    Planting Date: 6-20-03  
 Rate:                    75                    lb/A                    Depth:                    1.0                    IN  
 Row Spacing:                    30                    IN

Plot Width, Unit: 10                    FT                    Plot Length, Unit: 28                    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, K2O 150 LB/A

Soil Name: Weir                    % OM: 1.5                    pH: 6.4                    CEC: 10  
 Texture:                    Silt loam                    Fert. Level:                    P1: 81 LB/A, K: 274 LB/A

**APPLICATION DESCRIPTION**

A

Application Date:                    7-15-03  
 Time of Day:                    8:00  
 Application Method:                    Spray  
 Application Timing:                    6-8"W  
 Applic. Placement:                    BROFOL  
 Air Temp., Unit:                    76                    F  
 % Relative Humidity:                    92  
 Wind Velocity, Unit:                    2                    MPH  
 Dew Presence (Y/N):                    N  
 Soil Moisture:                    DRY  
 % Cloud Cover:                    100

**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:                    XANST  
 Stage(leaves):                    4-6  
 Height(inches):                    4-7  
 Density:                    Medium

Weed 2 Code:                    AMBEL  
 Stage(leaves):                    4-7  
 Height(inches):                    4-7  
 Density:                    Medium

Weed 3 Code:                    POLPY  
 Stage(leaves):                    10-20  
 Height(inches):                    6-12  
 Density:                    Low

Weed 4 Code: ECHCG  
Stage(leaves): 4-6  
Height(inches): 3-12  
Density: High

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: 15 GPA

NOTES:  
Not harvested.

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Weed Code								XANST	XANST	AMBEL	AMBEL	POLPY	POLPY	ECHCG	ECHCG
Crop Code								GLXMA	GLXMA						
Rating Data Type								Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date								7-29-03	8-12-03	7-29-03	8-12-03	7-29-03	8-12-03	7-29-03	8-12-03
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	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	NONTREATED									0	0	0	0	0	0	0			
2	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	92	91	80	89	33	20	30	33
3	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	57	50	33	57	20	23	0	0
3	CROP BOOSTER FOR BEANS	100	LIQ	1.0	QT/A	1	QT/A	6-8"	W A										
4	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	70	75	47	62	23	20	17	15
4	CROP BOOSTER FOR BEANS	100	LIQ	1.0	QT/A	1	QT/A	6-8"	W A										
4	ALLIANCE	100	LIQ	1.25	% V/V	1.25	% V/V	6-8"	W A										
5	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	70	88	50	67	20	30	17	23
5	CROP BOOSTER FOR BEANS	100	LIQ	1.0	QT/A	1	QT/A	6-8"	W A										
5	ALLIANCE	100	LIQ	2.5	% V/V	2.5	% V/V	6-8"	W A										
6	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	20	35	10	33	0	10	0	0
6	CROP BOOSTER FOR BEANS	100	LIQ	2.0	QT/A	2	QT/A	6-8"	W A										
7	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	27	63	20	45	10	23	3	0
7	CROP BOOSTER FOR BEANS	100	LIQ	2.0	QT/A	2	QT/A	6-8"	W A										
7	ALLIANCE	100	LIQ	1.25	% V/V	1.25	% V/V	6-8"	W A										
8	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	40	70	27	63	17	30	13	13
8	CROP BOOSTER FOR BEANS	100	LIQ	2.0	QT/A	2	QT/A	6-8"	W A										
8	ALLIANCE	100	LIQ	2.5	% V/V	2.5	% V/V	6-8"	W A										
9	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	43	72	23	48	13	27	10	7
9	CROP BOOSTER FOR BEANS	100	LIQ	1.0	QT/A	1	QT/A	6-8"	W A										
9	PLACEMENT PROPAK	100	LIQ	1.0	% V/V	1	% V/V	6-8"	W A										
10	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	50	70	33	67	27	27	17	15
10	CROP BOOSTER FOR BEANS	100	LIQ	1.0	QT/A	1	QT/A	6-8"	W A										
10	PLACEMENT PROPAK	100	LIQ	2.0	% V/V	2	% V/V	6-8"	W A										
11	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	99	99	77	76	47	30	57	68
11	ALLIANCE	100	LIQ	1.25	% V/V	1.25	% V/V	6-8"	W A										
12	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	99	99	78	86	53	47	70	75
12	ALLIANCE	100	LIQ	2.5	% V/V	2.5	% V/V	6-8"	W A										
13	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	99	99	72	80	50	50	60	57
13	PLACEMENT PROPAK	100	LIQ	1.0	% V/V	1	% V/V	6-8"	W A										
14	ROUNDUP W-MAX	4.5	SL	0.193	LB AE/A	5.5	FL OZ/A	6-8"	W A	0	0	99	99	83	85	57	45	80	72
14	PLACEMENT PROPAK	100	LIQ	2.0	% V/V	2	% V/V	6-8"	W A										

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Crop Code								GLXMA	GLXMA						
Rating Data Type								Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date								7-29-03	8-12-03	7-29-03	8-12-03	7-29-03	8-12-03	7-29-03	8-12-03
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 Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
	LSD (P=.05)									0.0	0.0	4.7	11.2	10.5	14.9	7.2	19.5	5.3	9.6
	Replicate F									0.000	0.000	1.000	1.132	0.967	1.558	1.560	0.215	4.294	0.942
	Replicate Prob(F)									1.0000	1.0000	0.3816	0.3398	0.3933	0.2296	0.2292	0.8079	0.0245	0.4029
	Treatment F									0.000	0.000	427.788	56.598	61.530	22.136	58.930	4.100	232.109	75.428
	Treatment Prob(F)									1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0011	0.0001	0.0001

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Trial Comments

1. Protocol: Agrilience.
2. Ratings: CI and WC 14 and 28 DAT.
3. DA-A = days after 6-8"W application.