

Adjuvant Evaluation for Select plus Glyphosate Combinations.

Project Code: 05-5D-M130 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 11-14-05

Objective:

Evaluate various adjuvants with Select tank-mixed with glyphosate for control of volunteer glyphosate-resistant corn in soybean.

Weed Code Common Name Scientific Name
 1. ZEAMX corn, volunteer Zea mays L.

Crop 1: GLXMA soybean **Variety:** Asgrow 4403 RR
Planting Method: Seeded **Planting Date:** 5-17-05
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, 2004

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

Soil Name: Weir **% OM:** 1.5 **pH:** 6.6 **CEC:** 7
Texture: Silt loam **Fert. Level:** P1: 81 LB/A, K: 313 LB/A

APPLICATION DESCRIPTION

Application Date: 07-01-05
Time of Day: 11:00
Application Method: Spray
Application Timing: 18"CN
Applic. Placement: BROFOL
Air Temp., Unit: 80 F
% Relative Humidity: 52
Wind Velocity, Unit: 1-3 MPH
Soil Moisture: ABONOR

CROP STAGE AT EACH APPLICATION

Crop 1 Code, Stage: GLXMA V5
Height, Unit: 6-8 IN

WEED STAGE AT EACH APPLICATION

Weed 1 Code: ZEAMX
Stage(leaves): V6
Height(inches): 18-20

APPLICATION EQUIPMENT

Appl. Equipment: CO2 sprayer
Operating Pressure: 40 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 110015
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 10 GPA

NOTES:

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Weed Code	GLXMA	GLXMA	ZEAMX	ZEAMX
Crop Code	Injury	Injury	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent
Rating Unit	07-15-05	07-29-05	07-15-05	07-29-05
Rating Date	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	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	10	15
1	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
2	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	18	12
2	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
2	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	18"CN	A				
3	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	30	25
3	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
3	ALLIANCE	100	LIQ	1.25	% v/v	1.25	% v/v	18"CN	A				
4	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	47	35
4	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
4	DESTINY MSO	100	LIQ	1.0	% v/v	1	% v/v	18"CN	A				
4	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	18"CN	A				
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	32	30
5	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
5	PREFERENCE	100	LIQ	0.25	% v/v	0.25	% v/v	18"CN	A				
5	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	18"CN	A				
6	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	47	35
6	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
6	SUPERB HC	100	LIQ	0.5	% v/v	0.5	% v/v	18"CN	A				
6	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	18"CN	A				
7	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	47	35
7	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
7	SUPERB HC	100	LIQ	0.5	% v/v	0.5	% v/v	18"CN	A				
7	ALLIANCE	100	LIQ	1.25	% v/v	1.25	% v/v	18"CN	A				
8	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	45	35
8	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
8	CLASS ACT NG	100	LIQ	1.25	% v/v	1.25	% v/v	18"CN	A				
8	INTERLOCK	100	LIQ	2.0	fl oz/a	2	fl oz/a	18"CN	A				
9	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	40	28
9	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
9	CLASS ACT NG	100	LIQ	2.5	% v/v	2.5	% v/v	18"CN	A				
9	INTERLOCK	100	LIQ	4.0	fl oz/a	4	fl oz/a	18"CN	A				
10	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	38	37
10	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
10	AG 05006	100	LIQ	0.5	% v/v	0.5	% v/v	18"CN	A				
10	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	18"CN	A				
11	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	37	30
11	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
11	AG 05006	100	LIQ	0.5	% v/v	0.5	% v/v	18"CN	A				
11	ALLIANCE	100	LIQ	1.25	% v/v	1.25	% v/v	18"CN	A				
12	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	18"CN	A	0	0	45	33
12	SELECT	2	EC	0.0312	lb ai/a	2	fl oz/a	18"CN	A				
12	AG 05008	100	LIQ	1.5	% v/v	1.5	% v/v	18"CN	A				
13	NONTREATED									0	0	0	0
LSD (P=.05)										0.0	0.0	7.8	11.1
Replicate F										0.000	0.000	2.539	4.927
Replicate Prob(F)										1.0000	1.0000	0.0999	0.0161
Treatment F										0.000	0.000	32.776	8.779
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001

Trial Comments

1. Protocol: Agrilience.
2. Ratings: CI/WC 14 and 28 DAT.
3. Plant volunteer RR corn prior to planting soybean.
4. DA-A = Days after 18"CN application.