

Glyphosate plus Select Adjuvant Study.

Project Code: 03-24B-E30 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 adjuvant systems for glyphosate plus Select tankmixtures.

Weed Code Common Name Scientific Name

1. ZEAMX corn, volunteer Zea mays L.

Crop 1: ZEAMX corn, field Variety: DKC 60-17 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: 27 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: GLXMA, 2002

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

Soil Name: Rushville % OM: 1.1 pH: 6.3 CEC: 13
 Texture: Silt loam Fert. Level: P1: 69 LB/A, K: 298 LB/A

APPLICATION DESCRIPTION

A

Application Date: 7-16-03
 Time of Day: 8:00
 Application Method: Spray
 Application Timing: 20-24"VCN
 Applic. Placement: BROFOL
 Air Temp., Unit: 64 F
 % Relative Humidity: 98
 Wind Velocity, Unit: 0 MPH
 Soil Moisture: NORMAL
 % Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX 8-11
 Height, Unit: 20-24 IN

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code: ZEAMX
 Stage(leaves): 8-11
 Height(inches): 20-24
 Density: Medium

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	ZEAMX	ZEAMX
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	7-30-03	8-13-03
Trt-Eval Interval	14 DA-A	28 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
1	NONTREATED									0	0
2	CORNERSTONE	3	SL	0.188	LB AE/A	8	FL OZ/A	20-24"VCN	A	87	88
2	SELECT	2	EC	0.0312	LB A/A	2	FL OZ/A	20-24"VCN	A		
2	PREFERENCE	100	LIQ	0.25	% V/V	0.25	% V/V	20-24"VCN	A		
2	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	20-24"VCN	A		
3	CORNERSTONE	3	SL	0.188	LB AE/A	8	FL OZ/A	20-24"VCN	A	87	87
3	SELECT	2	EC	0.0312	LB A/A	2	FL OZ/A	20-24"VCN	A		
3	AG 01023	100	LIQ	0.5	% V/V	0.5	% V/V	20-24"VCN	A		
3	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	20-24"VCN	A		
4	CORNERSTONE	3	SL	0.188	LB AE/A	8	FL OZ/A	20-24"VCN	A	88	91
4	SELECT	2	EC	0.0312	LB A/A	2	FL OZ/A	20-24"VCN	A		
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	20-24"VCN	A		
4	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	20-24"VCN	A		
5	CORNERSTONE	3	SL	0.188	LB AE/A	8	FL OZ/A	20-24"VCN	A	94	93
5	SELECT	2	EC	0.0312	LB A/A	2	FL OZ/A	20-24"VCN	A		
5	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	20-24"VCN	A		
5	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	20-24"VCN	A		
6	CORNERSTONE	3	SL	0.188	LB AE/A	8	FL OZ/A	20-24"VCN	A	85	86
6	SELECT	2	EC	0.0312	LB A/A	2	FL OZ/A	20-24"VCN	A		
6	HI-PER-OIL	100	LIQ	0.5	% V/V	0.5	% V/V	20-24"VCN	A		
6	N-PAK AMS	100	LIQ	2.5	% V/V	2.5	% V/V	20-24"VCN	A		
LSD (P=.05)										8.5	8.5
Replicate F										0.443	0.248
Replicate Prob(F)										0.6538	0.7850
Treatment F										178.281	182.907
Treatment Prob(F)										0.0001	0.0001

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Trial Comments

1. Protocol: Agrilience.
2. Ratings: CI and WC 14 and 28 DAT.
3. Roundup Ready corn was planted in 30 inch rows.
4. This study was originally planned as 03-22-MN30.
5. DA-A = days after 20-24"VCN application.