

Aim Tank-Mix with Glyphosate in Roundup Ready Corn.

Project Code: 03-52-ME20 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:

Determine the benefit of Aim applied with glyphosate in Roundup Ready corn.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMATA	waterhemp, common	Amaranthus rudis Sauer
3. XANST	cocklebur, common	Xanthium strumarium L.
4. POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum L.

Crop 1: ZEAMX corn, field Variety: DKC 60-17 RR
 Planting Method: Seeded Planting Date: 6-5-03
 Rate: 28000 S/A Depth: 1.5 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: GLXMA, 2002

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

Soil Name: Weir % OM: 1.9 pH: 7.1 CEC: 12
 Texture: Silt loam Fert. Level: P1: 97 LB/A, K: 282 LB/A

APPLICATION DESCRIPTION

A

Application Date: 6-24-03
 Time of Day: 10:00
 Application Method: Spray
 Application Timing: 2-4"W
 Applic. Placement: BROFOL
 Air Temp., Unit: 86 F
 % Relative Humidity: 40
 Wind Velocity, Unit: 3 MPH
 Soil Moisture: NORMAL
 % Cloud Cover: 5

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX V3
 Height, Unit: 6 IN

WEED STAGE AT EACH APPLICATION

A

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

Weed 2 Code: AMATA
 Stage(leaves): 2-5
 Height(inches): 1-4
 Density: High

Weed 3 Code: XANST
 Stage(leaves): 3-5
 Height(inches): 2-4
 Density: Low

Weed 4 Code: POLPY
Stage(leaves): 3-5
Height(inches): 2-4
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	SETFA	AMATA	AMATA	AMATA	XANST	XANST	XANST
Crop Code					ZEAMX	ZEAMX							
Rating Data Type					Injury	Injury	Control	Control	Control	Control	Control	Control	Control
Rating Unit					Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date					6-27-03	7-9-03	7-1-03	7-9-03	7-24-03	7-1-03	7-9-03	7-24-03	7-24-03
Trt-Eval Interval					3 DA-A	15 DA-A	7 DA-A	15 DA-A	30 DA-A	7 DA-A	15 DA-A	30 DA-A	30 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code											
1	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	2-4"	W A	6	3	99	99	95	99	96	80	95	95	95
1	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	FL OZ/A	2-4"	W A											
1	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A											
2	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	2-4"	W A	6	3	99	98	95	99	95	75	96	97	95
2	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"	W A											
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A											
3	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	FL OZ/A	2-4"	W A	0	0	99	99	96	99	96	82	98	96	98
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A											
4	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"	W A	0	0	99	99	96	99	95	85	99	98	96
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A											
5	NONTREATED									0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)										1.5	0.6	0.0	1.9	1.5	0.0	3.1	17.4	2.6	2.8	4.1
Replicate F										0.444	2.667	0.000	1.000	2.500	0.000	1.556	1.862	1.714	3.031	7.268
Replicate Prob(F)										0.6561	0.1296	1.0000	0.4096	0.1434	1.0000	0.2687	0.2167	0.2401	0.1047	0.0159
Treatment F										60.167	64.000	0.000	5476.938	8194.750	0.000	2027.000	46.035	3027.893	2625.109	1169.035
Treatment Prob(F)										0.0001	0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Code	POLPY	POLPY	POLPY
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	7-1-03	7-9-03	7-24-03
Trt-Eval Interval	7 DA-A	15 DA-A	30 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	2-4"	W A	98	99	98
1	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	FL OZ/A	2-4"	W A			
1	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A			
2	AIM	2	EW	0.008	LB A/A	0.51	FL OZ/A	2-4"	W A	99	99	99
2	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"	W A			
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A			
3	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	FL OZ/A	2-4"	W A	90	99	99
3	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A			
4	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"	W A	98	99	99
4	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"	W A			
5	NONTREATED									0	0	0
LSD (P=.05)										7.0	0.5	1.9
Replicate F										1.838	1.000	1.000
Replicate Prob(F)										0.2203	0.4096	0.4096
Treatment F										405.175	88061.500	5476.938
Treatment Prob(F)										0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: FMC.
2. Ratings: CI 3 and 15 DAT; WC 7, 15 and 30 DAT.
3. DA-A = days after 2-4"W application.