

Impact Adjuvant Study - Rosen's.

Project Code: 06-50W-MN30 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:** 8-4-06

Objective:

Evaluate Rosen's adjuvant with Impact for postemergence weed control in corn.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	PANDI panicum, fall	Panicum dichotomiflorum Michx.
3.	AMATA waterhemp, common	Amaranthus rudis Sauer

Crop 1: ZEAMX corn, field **Variety:** 33K44
Planting Method: Seeded **Planting Date:** 5-23-06
Rate: 28000 S/A **Depth:** 1.5 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, 2005
Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir **% OM:** 2.2 **pH:** 6.3 **CEC:** 11
Texture: Silt loam **Fert. Level:** P1: 67 LB/A, K: 376 LB/A

APPLICATION DESCRIPTION

A
Application Date: 6-13-06
Time of Day: 14:30
Application Method: Spray
Application Timing: 3-5"W
Applic. Placement: BROFOL
Air Temp., Unit: 78 F
% Relative Humidity: 51
Wind Velocity, Unit: 4-5 MPH
Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX V4
Height, Unit: 12 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: SETFA
Stage (leaves): 3-4
Height (inches): 3-5
Density: High
Weed 2 Code: PANDI
Stage (leaves): 3-4
Height (inches): 3-5
Density: Medium
Weed 3 Code: AMATA
Stage (leaves): 6-8
Height (inches): 3-5
Density: High

APPLICATION EQUIPMENT

A
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: 12 GPA

NOTES:

Impact Adjuvant Study - Rosen's.

Project Code: 06-50W-MN30 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Injury Percent 6-27-06 14 DA-A	ZEAMX Injury Percent 7-11-06 28 DA-A	SETFA Control Percent 6-27-06 14 DA-A	SETFA Control Percent 7-11-06 28 DA-A	PANDI Control Percent 6-27-06 14 DA-A	PANDI Control Percent 7-11-06 28 DA-A	AMATA Control Percent 6-27-06 14 DA-A	AMATA Control Percent 7-11-06 28 DA-A
-----------	-----------	------------------	-------------	-------------	-------------------	--	--	---	---	---	---	---	---

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Injury Percent 6-27-06 14 DA-A	ZEAMX Injury Percent 7-11-06 28 DA-A	SETFA Control Percent 6-27-06 14 DA-A	SETFA Control Percent 7-11-06 28 DA-A	PANDI Control Percent 6-27-06 14 DA-A	PANDI Control Percent 7-11-06 28 DA-A	AMATA Control Percent 6-27-06 14 DA-A	AMATA Control Percent 7-11-06 28 DA-A
1	NONTREATED									0	0	0	0	0	0	0	0
2	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	3-5"	W A	0	0	65	65	2	0	65	65
2	TRADITION 93	100	LIQ	0.25	% v/v	0.25	% v/v	3-5"	W A								
2	AMS	100	DRY	1.0	% w/w	1	% w/w	3-5"	W A								
3	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	3-5"	W A	0	0	75	77	3	2	78	79
3	R-WAY COC	100	LIQ	1.0	% v/v	1	% v/v	3-5"	W A								
3	AMS	100	DRY	1.0	% w/w	1	% w/w	3-5"	W A								
4	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	3-5"	W A	0	0	77	82	30	30	85	82
4	SUNDANCE II MSO	100	LIQ	1.0	% v/v	1	% v/v	3-5"	W A								
4	AMS	100	DRY	1.0	% w/w	1	% w/w	3-5"	W A								
5	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	3-5"	W A	0	0	70	68	8	0	82	82
5	ZENITH	100	DRY	1.5	lb ai/a	1.5	lb/a	3-5"	W A								
6	IMPACT	2.8	SC	0.0109	lb ai/a	0.5	fl oz/a	3-5"	W A	0	0	73	75	13	7	77	70
6	ZENITH	100	DRY	2.25	lb ai/a	2.25	lb/a	3-5"	W A								
LSD (P=.05)										0.0	0.0	10.4	8.6	11.0	5.7	12.0	12.6
Replicate F										0.000	0.000	2.436	6.250	0.725	1.857	4.093	7.321
Replicate Prob(F)										1.0000	1.0000	0.1375	0.0173	0.5080	0.2061	0.0503	0.0110
Treatment F										0.000	0.000	81.333	125.800	10.321	43.343	72.622	62.683
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0011	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Rosen's.
2. Ratings: CI/WC 14 + 28 DAP; CI/WC 14 + 28 DA POST.
3. Spraying instructions: uses XR110015 tips.
4. DA-A = Days after 3-5"W application.
5. Not harvested.