

Ignite Adjuvant Study - United Suppliers.

Trial ID: 09-T3-S30

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 06-26-09

Objectives: Evaluate efficacy of United Suppliers adjuvants for use
 with Ignite in corn.

Crop 1: ZEAMD Dent corn	Variety: P33K44	Description: RR/LL
Planting Method: SEEDED	Planting Date: 06-26-09	
Rate, Unit: 28000 S/A	Depth, Unit: 1.5 IN	
Row Spacing, Unit: 30 IN		

Pest 1 Type: W	Code: GGGAN	grasses, annual
Pest 2 Type: W	Code: AMATA	Amaranthus rudis Sauer
Pest 3 Type: W	Code: IPOHE	Ipomoea hederacea (L.) Jacq.
		waterhemp, common
		morningglory, ivyleaf

Plot Width, Unit: 10 FT	Site Type: FIELD
Plot Length, Unit: 27 FT	Tillage Type: REDUCED-TILL
Replications: 3	Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2008

Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

% OM: 2.8	Texture: SILT LOAM
pH: 6.4	Soil Name: BETHALTO
CEC: 14	Fert. Level: P1: 118 LB/A, K: 466 LB/A

Application Description

A

Application Date:	07-23-09
Time of Day:	8:30
Application Method:	Spray
Application Timing:	4-6"W
Application Placement:	BROFOL
Applied By:	NVH
Air Temperature, Unit:	70 F
% Relative Humidity:	92
Wind Velocity, Unit:	3 MPH
Wind Direction:	W
Dew Presence (Y/N):	Y
Soil Moisture:	NORMAL
% Cloud Cover:	80

Crop stage at application:	07-23-09	V6
Height Min, Max (inch):	16	18

Pest Stage At Each Application

Application Date:	07-23-09
Weed Code:	GGGAN
Stage Majority (leaves):	2
Stage Min, Max:	1 4
Height Majority:	4.5 IN
Height Min, Max:	3 6
Density, Unit:	0.2 FT2
Weed Code:	AMATA
Stage Majority (leaves):	6
Stage Min, Max:	3 10
Height Majority:	5 IN
Height Min, Max:	2 8
Density, Unit:	10 FT2
Weed Code:	IPOHE
Stage Majority (leaves):	4
Stage Min, Max:	1 7
Height Majority:	5 IN
Height Min, Max:	1 6
Density, Unit:	1 FT2

Application Equipment

Appl. Equipment:	CO2 sprayer
Operating Pressure:	30 PSI
Nozzle Type:	Flat fan
Nozzle Size:	XR 8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	15

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										GGGAN		GGGAN	AMATA	AMATA	IPOHE	IPOHE
Pest Code										ZEAMD	ZEAMD					
Crop Code										08-06-09	08-20-09	08-06-09	08-20-09	08-06-09	08-20-09	08-06-09
Rating Date										Injury	Injury	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit																
Rating Timing																
Trt-Eval Interval										14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	A	0 a	0 a	83 b	92 a	91 b	93 b	84 a
1	AMSOL	100	SL	5	% v/v	5	% v/v	4-6"W	A							88 a
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	A	0 a	0 a	90 a	95 a	96 a	97 a	88 a
2	AMSOL	100	SL	5	% v/v	5	% v/v	4-6"W	A							93 a
2	CHEMSURF 80	100	SL	0.125	% v/v	0.125	% v/v	4-6"W	A							
3	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	4-6"W	A	0 a	0 a	92 a	95 a	97 a	97 a	88 a
3	AMSOL	100	SL	5	% v/v	5	% v/v	4-6"W	A							92 a
3	WETCIT	100	SL	25	fl oz/a	25	fl oz/a	4-6"W	A							
4	NONTREATED									0 a	0 a	0 c	0 b	0 c	0 c	0 b
	LSD (P=.05)									0.0	0.0	5.5	4.6	2.2	3.0	5.2
	Replicate F									0.000	0.000	5.727	2.347	0.467	0.470	1.324
	Replicate Prob(F)									1.0000	1.0000	0.0406	0.1766	0.6481	0.6463	0.3340
	Treatment F									0.000	0.000	771.182	1231.544	5379.800	2975.807	827.093
	Treatment Prob(F)									1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: United Suppliers.
2. Ratings: CI/WC at 14 and 28 DAT.
3. GGGAN = Annual grasses including SETFA (giant foxtail) and PANDI (fall panicum).