

Ignite 280 Adjuvant Study - Winfield Solutions.

Trial ID: 08-1-EE25

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: 06-15-08

Objectives: Evaluate commercial and experimental adjuvants
 for use with Ignite 280 in corn.

Crop 1: ZEAMD Dent corn Variety: P33K44
 Planting Method: SEEDED Planting Date: 06-15-08
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 2 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf
 Pest 3 Type: W Code: GGGAN grasses, annual

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year

1. GLXMA 2007

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

% OM: 1.6 Texture: SILT LOAM
 pH: 6.2 Soil Name: WINFIELD
 CEC: 8 Fert. Level: P1: 83 LB/A, K: 396 LB/A

Application Description

A

Application Date: 07-07-08
 Time of Day: 17:00
 Application Method: Spray
 Application Timing: 6"W
 Application Placement: BROFOL
 Applied By: DKT
 Air Temperature, Unit: 84 F
 % Relative Humidity: 92
 Wind Velocity, Unit: 4 MPH
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 85 F
 Soil Moisture: NORMAL

07-07-08
 Crop stage at application: V5
 Height Min, Max (inch): 15 17

Pest Stage At Each Application

Application Date: 07-07-08
 Weed Code: AMATA
 Stage Majority (leaves): 4
 Stage Min, Max: 3 5
 Height Majority: 6 IN
 Height Min, Max: 3 12
 Density, Unit: 2 FT2
 Weed Code: ABUTH
 Stage Majority (leaves): 8
 Stage Min, Max: 5 10
 Height Majority: 6 IN
 Height Min, Max: 4 10
 Density, Unit: 0.1 FT2
 Weed Code: GGGAN
 Stage Majority (leaves): 5
 Stage Min, Max: 3 6
 Height Majority: 6 IN
 Height Min, Max: 4 8
 Density, Unit: 4 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 GPA

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										AMATA	AMATA	ABUTH	ABUTH	GGGAN	GGGAN	
										ZEAMD	ZEAMD					
										07-21-08	08-04-08	07-21-08	08-04-08	07-21-08	08-04-08	
										Injury	Injury	Control	Control	Control	Control	
										Percent	Percent	Percent	Percent	Percent	Percent	
										14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code								
1	IGNITE 280	2.34	EC	0.402 lb ai/a	22 fl oz/a	6"W	A		4 a	0 a	85 a	68 b	87 b	82 b	92 ab	87 ab
2	IGNITE 280	2.34	EC	0.402 lb ai/a	22 fl oz/a	6"W	A		3 a	0 a	80 a	73 ab	94 a	96 a	88 b	83 b
2	N-PAK AMS	100	SL	3.5 qt/a	3.5 qt/a	6"W	A									
3	IGNITE 280	2.34	EC	0.402 lb ai/a	22 fl oz/a	6"W	A		3 a	0 a	88 a	82 a	96 a	95 a	96 a	90 a
3	CLASS ACT NG	100	SL	2.5 % v/v	2.5 % v/v	6"W	A									
4	IGNITE 280	2.34	EC	0.402 lb ai/a	22 fl oz/a	6"W	A		4 a	0 a	84 a	66 b	96 a	90 ab	95 a	87 ab
4	CLASS ACT NG	100	SL	2.5 % v/v	2.5 % v/v	6"W	A									
4	AG 02013	100	SL	4 fl oz/a	4 fl oz/a	6"W	A									
5	IGNITE 280	2.34	EC	0.402 lb ai/a	22 fl oz/a	6"W	A		4 a	0 a	85 a	68 b	98 a	92 a	96 a	89 ab
5	AGM 07027	100	SL	1 qt/a	1 qt/a	6"W	A									
5	N-PAK AMS	100	SL	3.5 qt/a	3.5 qt/a	6"W	A									
6	IGNITE 280	2.34	EC	0.402 lb ai/a	22 fl oz/a	6"W	A		4 a	0 a	83 a	68 b	98 a	88 ab	96 a	91 a
6	AGM 07027	100	SL	1 qt/a	1 qt/a	6"W	A									
6	CLASS ACT NG	100	SL	2.5 % v/v	2.5 % v/v	6"W	A									
LSD (P=.05)									2.5	0.0	9.5	11.6	5.0	10.0	6.0	6.6
Replicate F									2.455	0.000	1.184	0.446	0.227	0.716	1.470	2.187
Replicate Prob(F)									0.1358	1.0000	0.3455	0.6522	0.8010	0.5122	0.2756	0.1630
Treatment F									0.564	0.000	0.810	2.463	6.846	2.562	2.865	1.852
Treatment Prob(F)									0.7264	1.0000	0.5684	0.1056	0.0051	0.0964	0.0736	0.1904

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

Trial Comments

1. Protocol: Winfield Solutions.
2. Ratings: CI/WC at 14 + 28 DAT.
3. Target 6 inch velvetleaf.
4. DA-A = Days after 6"W application. GGGAN = Annual grasses including SETFA and PANDI.
5. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.
6. Not harvested.