

Ignite plus Micronutrients in Liberty Link Soybean - Winfield Solutions.

Trial ID: 10-5D-N90

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: 06-14-10

Objectives: Determine the effect of micronutrients and adjuvants on the efficacy of Ignite in Liberty Link soybean.

Crop 1: GLXMA Soybean Variety: FS HS 48L90 Description: LL
 Planting Method: SEEDED Planting Date: 06-14-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: GGGAN grasses, annual
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 3 Type: W Code: AMBEL Ambrosia artemisiifolia L. ragweed, common

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. ZEAMD 2009
 2. GLXMA 2009

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

% OM: 1.7 Texture: SILT LOAM
 pH: 6.9 Soil Name: WINFIELD
 CEC: 6 Fert. Level: P1: 96 LB/A, K: 304 LB/A

Application Description

A
 Application Date: 07-06-10
 Time of Day: 7:30
 Application Method: Spray
 Application Timing: 6"W
 Application Placement: BROFOL
 Applied By: NVH
 Air Temperature, Unit: 76 F
 % Relative Humidity: 92
 Wind Velocity, Unit: 1 MPH
 Wind Direction: S
 Dew Presence (Y/N): N
 Soil Moisture: NORMAL
 % Cloud Cover: 35

07-06-10
 Crop stage at application: V3-V4
 Height Min, Max (inch): 6 10

Pest Stage At Each Application

Application Date: 07-06-10
 Weed Code: GGGAN
 Stage Majority (leaves): 3
 Stage Min, Max: 2 5
 Height Majority: 6 IN
 Height Min, Max: 2 12
 Density, Unit: 1 FT2
 Weed Code: AMATA
 Stage Majority (leaves): 8
 Stage Min, Max: 2 12
 Height Majority: 6 IN
 Height Min, Max: 4 8
 Density, Unit: 4 FT2
 Weed Code: AMBEL
 Stage Majority (leaves): 3
 Stage Min, Max: 1 5
 Height Majority: 5 IN
 Height Min, Max: 1 6
 Density, Unit: 0.01 FT2

Application Equipment

Appl. Equipment: CO2 sprayer
 Operating Pressure: 30 PSI
 Nozzle Type: Flat fan
 Nozzle Size: TT 110015
 Boom Length, Unit: 7.5 FT
 Spray Volume, Unit: 10 GPA

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Pest Code		GLXMA		GGGAN		GGGAN		AMATA		AMATA		AMBEL		AMBEL	
Crop Code		07-20-10		08-03-10		07-20-10		08-03-10		07-20-10		08-03-10		07-20-10	
Rating Date		Injury		Injury		Control		Control		Control		Control		Control	
Rating Data Type		Percent		Percent		Percent		Percent		Percent		Percent		Percent	
Rating Unit		14 DA-A		28 DA-A		14 DA-A		28 DA-A		14 DA-A		28 DA-A		14 DA-A	
Rating Timing		14 DA-A		28 DA-A		14 DA-A		28 DA-A		14 DA-A		28 DA-A		14 DA-A	
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	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	59 ab	43 a	34 de	34 a
2	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	64 a	45 a	42 a	35 a
2	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	6"W	A						
3	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	59 ab	46 a	33 de	30 a
3	AGM 09026	100	SL	1	qt/a	1	qt/a	6"W	A						
4	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	61 a	43 a	40 ab	38 a
4	AGM 09026	100	SL	1	qt/a	1	qt/a	6"W	A						
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	6"W	A						
5	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	60 a	44 a	38 bc	38 a
5	AGM 09026	100	SL	1	qt/a	1	qt/a	6"W	A						
5	AG 10003	100	SL	2	% v/v	2	% v/v	6"W	A						
6	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	55 b	39 a	31 e	30 a
6	AGM 09026	100	SL	1	qt/a	1	qt/a	6"W	A						
6	AG 10004	100	SL	2	% v/v	2	% v/v	6"W	A						
7	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	55 b	41 a	36 cd	36 a
7	AGM 09026	100	SL	1	qt/a	1	qt/a	6"W	A						
7	AG 10009	100	SL	2	% v/v	2	% v/v	6"W	A						
8	NONTREATED									0 a	0 a	0 c	0 b	0 f	0 b
LSD (P=.05)										0.0	0.0	4.8	8.9	3.6	10.7
Replicate F										0.000	0.000	2.156	1.377	0.366	0.121
Replicate Prob(F)										1.0000	1.0000	0.1527	0.2844	0.6997	0.8870
Treatment F										0.000	0.000	178.164	27.610	126.313	12.674
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: Winfield Solutions.
2. Ratings: CI/WC at 14 and 28 DAT.
3. GGGAN = Annual grasses including SETFA (giant foxtail) and PANDI (fall panicum)
4. Not harvested.