

AMS Replacements for Ignite - Winfield Solutions.

Trial ID: 10-5D-M110

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 effectiveness of various experimental adjuvants with 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
 Pest 4 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant

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

Application Date: 07-06-10
 Time of Day: 7:00
 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

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

Pest Stage At Each Application

Application Date: 07-06-10
 Weed Code: GGGAN
 Stage Majority (leaves): 4
 Stage Min, Max: 2 10
 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
 Weed Code: AMBTR
 Stage Majority (leaves): 6
 Stage Min, Max: 1 12
 Height Majority: 6 IN
 Height Min, Max: 3 10
 Density, Unit: 0.2 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

AMS Replacements for Ignite - Winfield Solutions.

Trial ID: 10-5D-M110

Location: Belleville Res. Center

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval									GLXMA		GGGAN	GGGAN	AMATA	AMATA	AMBEL	AMBEL	
									07-20-10 Injury Percent	08-03-10 Injury Percent	07-20-10 Control Percent	08-03-10 Control Percent	07-20-10 Control Percent	08-03-10 Control Percent	07-20-10 Control Percent	08-03-10 Control Percent	
									14 DA-A	28 DA-A	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	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	43 bc	33 ab	40 cd	40 a	98 b	
2	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	45 abc	29 ab	43 bc	46 a	99 a	
2	N-PAK AMS	100	SL	56.5	fl oz/a	4.4	% 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	54 ab	35 ab	48 a	48 a	99 a	
3	N-PAK AMS	100	SL	113	fl oz/a	8.8	% v/v	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	52 abc	40 a	42 bcd	42 a	99 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	38 c	23 b	37 d	47 a	99 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	53 ab	45 a	40 cd	39 a	99 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	47 abc	38 ab	40 cd	40 a	99 a	
7	AG 10009	100	SL	2	% v/v	2	% v/v	6"W	A								
8	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	58 a	45 a	44 abc	44 a	99 a	
8	AG 10010	100	SL	2	% v/v	2	% v/v	6"W	A								
9	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	0 a	0 a	52 abc	33 ab	46 ab	44 a	99 a	
9	AG 10011	100	SL	2	% v/v	2	% v/v	6"W	A								
10	NONTREATED									0 a	0 a	0 d	0 c	0 e	0 b	0 c	
LSD (P=.05)										0.0	0.0	14.9	16.4	5.5	12.4	0.6	0.6
Replicate F										0.000	0.000	1.172	1.092	0.166	1.397	1.000	1.000
Replicate Prob(F)										1.0000	1.0000	0.3322	0.3567	0.8483	0.2730	0.3874	0.3874
Treatment F										0.000	0.000	11.054	5.674	54.418	11.358	22020.252	22020.252
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0009	0.0001	0.0001	0.0001	0.0001

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

AMS Replacements for Ignite - Winfield Solutions.

Trial ID: 10-5D-M110

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR
Crop Code		
Rating Date	07-20-10	08-03-10
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Timing		
Trt-Eval Interval	14 DA-A	28 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	93 ab	93 a
2	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	95 ab	95 a
2	N-PAK AMS	100	SL	56.5	fl oz/a	4.4	% v/v	6"W	A		
3	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	96 ab	94 a
3	N-PAK AMS	100	SL	113	fl oz/a	8.8	% v/v	6"W	A		
4	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	94 ab	95 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	91 b	93 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	97 a	97 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	95 ab	94 a
7	AG 10009	100	SL	2	% v/v	2	% v/v	6"W	A		
8	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	96 ab	96 a
8	AG 10010	100	SL	2	% v/v	2	% v/v	6"W	A		
9	IGNITE 280	2.34	EC	0.201	lb ai/a	11	fl oz/a	6"W	A	97 a	97 a
9	AG 10011	100	SL	2	% v/v	2	% v/v	6"W	A		
10	NONTREATED									0 c	0 b
LSD (P=.05)										5.6	4.5
Replicate F										0.439	0.397
Replicate Prob(F)										0.6529	0.6789
Treatment F										263.984	409.202
Treatment Prob(F)										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.