

MSU Weed Science Research Program

AMS replacements with Ignite in Liberty Link soybean

Trial ID: SOY09-10 Study Dir.: Sprague, Powell
Conducted: T-12 Center Investigator: Christy Sprague

Date Planted: 5/27/2010 Row Spacing: 30 IN
Variety: Stine 23LA02 No. of Reps: 4
Population: 156,000 seeds/acre % OM: 3.7
Soil Type: Loam pH: 7.0
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow and spring soil finish
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-5 and crop 1.

Application Description

A
Application Timing: POST
Date Treated: 6/21/2010
Time Treated: 11:00 am
% Cloud Cover: 10
Air Temp., Unit: 79 F
% Relative Humidity: 54
Wind Speed/Unit/Dir: 4 mph SE
Soil Temp., Unit: 71 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 4

Crop Stage at Each Application

A
Crop Name: GLXMA
Height (In.): 8"
Stage (L): V3

Weed Stage at Each Application

A
Weed 1 Name: AMBEL
Height (In.): 2-5"
Stage (L): 6-8
Weed 2 Name: BRAKA
Height (In.): 2-4"
Stage (L): 4-6
Weed 3 Name: ANGR
Height (In.): 8-10"
Stage (L): 4
Weed 4 Name: ABUTH
Height (In.): 4"
Stage (L): 5
Weed 5 Name: AMASS
Height (In.): 4-6"
Stage (L): 8-10

Weed Density (plants/sq. ft.)

Table with 5 columns: Weed Name, Density. Lists weeds ANGR, AMBEL, AMASS, CHEAL, BRAKA.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Boom, Width, GPA, Carrier, PSI. Lists application A.

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Weed Code															
Crop Code															
Rating Data Type															
Rating Unit															
Rating Date															
Trt-Eval Interval															
# Subsamples, Dec.															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		ANGR	AMBEL	AMASS	BRAKA	GLXMA injury percent	ANGR control percent	
1	Ignite 280	2.34	L	15	fl oz/a	POST	A	3	63	69	81	67	3	76	
2	Ignite 280	2.34	L	15	fl oz/a	POST	A	6	68	73	86	75	3	88	
2	N-PAK AMS		L	56.5	fl oz/a	POST	A								
3	Ignite 280	2.34	L	15	fl oz/a	POST	A	5	69	75	86	73	3	80	
3	N-PAK AMS		L	113	fl oz/a	POST	A								
4	Ignite 280	2.34	L	15	fl oz/a	POST	A	5	66	71	84	73	3	80	
4	Class Act NG		L	2.5	% v/v	POST	A								
5	Ignite 280	2.34	L	15	fl oz/a	POST	A	5	66	69	84	68	3	87	
5	AG 10003		L	2	% v/v	POST	A								
6	Ignite 280	2.34	L	15	fl oz/a	POST	A	4	69	71	84	72	3	80	
6	AG 10004		L	2	% v/v	POST	A								
7	Ignite 280	2.34	L	15	fl oz/a	POST	A	5	68	73	86	68	3	78	
7	AG 10009		L	2	% v/v	POST	A								
8	Untreated							0	0	0	0	0	0	0	
LSD (P=.05)								1.9	5.0	7.3	4.3	7.3	0.0	8.1	
Standard Deviation								1.3	3.4	5.0	2.9	4.2	0.0	5.5	
CV								33.9	5.87	7.95	3.95	6.69	0.0	7.71	

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code								CHEAL	AMASS	AMBEL	BRAKA		ANGR	AMBEL
Crop Code												GLXMA		
Rating Data Type								control	control	control	control	injury	control	control
Rating Unit								percent	percent	percent	percent	percent	percent	percent
Rating Date								6/28/2010	6/28/2010	6/28/2010	6/28/2010	7/6/2010	7/6/2010	7/6/2010
Trt-Eval Interval								7 DA-A	7 DA-A	7 DA-A	7 DA-A	15 DA-A	15 DA-A	15 DA-A
# Subsamples, Dec.								0	0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	Ignite 280	2.34	L	15	fl oz/a	POST	A	66	70	70	63	0	80	91
2	Ignite 280	2.34	L	15	fl oz/a	POST	A	84	85	84	78	0	88	92
2	N-PAK AMS		L	56.5	fl oz/a	POST	A							
3	Ignite 280	2.34	L	15	fl oz/a	POST	A	84	79	81	78	0	84	94
3	N-PAK AMS		L	113	fl oz/a	POST	A							
4	Ignite 280	2.34	L	15	fl oz/a	POST	A	75	78	79	77	0	80	96
4	Class Act NG		L	2.5	% v/v	POST	A							
5	Ignite 280	2.34	L	15	fl oz/a	POST	A	90	81	79	68	0	85	93
5	AG 10003		L	2	% v/v	POST	A							
6	Ignite 280	2.34	L	15	fl oz/a	POST	A	85	80	84	70	0	83	97
6	AG 10004		L	2	% v/v	POST	A							
7	Ignite 280	2.34	L	15	fl oz/a	POST	A	79	76	74	72	0	80	97
7	AG 10009		L	2	% v/v	POST	A							
8	Untreated							0	0	0	0	0	0	0
LSD (P=.05)								14.0	13.8	13.2	6.6	0.0	3.8	4.6
Standard Deviation								9.5	9.4	9.0	3.8	0.0	2.6	3.1
CV								13.52	13.67	13.04	5.94	0.0	3.57	3.77

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								AMASS	CHEAL	ABUTH	BRAKA	ANGR	CHEAL	AMASS	
Weed Code															
Crop Code															
Rating Data Type								control	control	control	control	control	control	control	
Rating Unit								percent	percent	percent	percent	percent	percent	percent	
Rating Date								7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/20/2010	7/20/2010	7/20/2010	
Trt-Eval Interval								15 DA-A	15 DA-A	15 DA-A	15 DA-A	29 DA-A	29 DA-A	29 DA-A	
# Subsamples, Dec.								0	0	0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code								
1	Ignite 280	2.34	L	15	fl oz/a	POST	A	94	93	97	55	61	76	65	
2	Ignite 280	2.34	L	15	fl oz/a	POST	A	96	97	98	82	83	89	81	
2	N-PAK AMS		L	56.5	fl oz/a	POST	A								
3	Ignite 280	2.34	L	15	fl oz/a	POST	A	98	94	99	87	84	91	80	
3	N-PAK AMS		L	113	fl oz/a	POST	A								
4	Ignite 280	2.34	L	15	fl oz/a	POST	A	97	98	98	85	79	89	80	
4	Class Act NG		L	2.5	% v/v	POST	A								
5	Ignite 280	2.34	L	15	fl oz/a	POST	A	97	97	99	75	82	90	78	
5	AG 10003		L	2	% v/v	POST	A								
6	Ignite 280	2.34	L	15	fl oz/a	POST	A	97	95	99	82	80	80	78	
6	AG 10004		L	2	% v/v	POST	A								
7	Ignite 280	2.34	L	15	fl oz/a	POST	A	98	97	98	73	78	86	80	
7	AG 10009		L	2	% v/v	POST	A								
8	Untreated							0	0	0	0	0	0	0	
LSD (P=.05)								3.4	4.4	1.9	6.7	5.2	6.0	6.0	
Standard Deviation								2.3	3.0	1.3	3.8	3.5	4.1	4.1	
CV								2.75	3.59	1.49	5.67	5.17	5.42	5.99	

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Weed Code	AMBEL	BRAKA
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	7/20/2010	7/20/2010
Trt-Eval Interval	29 DA-A	29 DA-A
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	BRAKA
1	Ignite 280	2.34	L	15	fl oz/a	POST	A	70	73
2	Ignite 280	2.34	L	15	fl oz/a	POST	A	87	93
2	N-PAK AMS		L	56.5	fl oz/a	POST	A		
3	Ignite 280	2.34	L	15	fl oz/a	POST	A	90	93
3	N-PAK AMS		L	113	fl oz/a	POST	A		
4	Ignite 280	2.34	L	15	fl oz/a	POST	A	83	88
4	Class Act NG		L	2.5	% v/v	POST	A		
5	Ignite 280	2.34	L	15	fl oz/a	POST	A	85	90
5	AG 10003		L	2	% v/v	POST	A		
6	Ignite 280	2.34	L	15	fl oz/a	POST	A	80	82
6	AG 10004		L	2	% v/v	POST	A		
7	Ignite 280	2.34	L	15	fl oz/a	POST	A	88	83
7	AG 10009		L	2	% v/v	POST	A		
8	Untreated							0	0
LSD (P=.05)								7.6	9.3
Standard Deviation								5.2	5.3
CV								7.15	7.06

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