

MSU Weed Science Research Program

AMS replacments for use with Ignite (glufosinate)

Trial ID: SOY13-11 Study Dir.: Sprague, Powell
Conducted: C-27S Crops Investigator: Christy Sprague

Date Planted: 5/10/2011 Row Spacing: 30 IN
Variety: Stine 23LA02 No. of Reps: 4
Population: 152,000 % OM: 2.4
Soil Type: Silt Loam pH: 7.1
Plot Size: 10 X 40 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, spring soil finish.
Fertilizer: None at planting.

Crop and Weed Description

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

Application Description

A
Application Timing: POST
Date Treated: 6/13/2011
Time Treated: 10:10 AM
% Cloud Cover: 0
Air Temp., Unit: 67 F
% Relative Humidity: 51
Wind Speed/Unit/Dir: 6 mph NW
Soil Temp., Unit: 62 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

A
Crop Name: GLXMA
Height (In.): 4-5"
Stage (L): V2

Weed Stage at Each Application

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

Weed Density (plants/sq. ft.)

Table with 5 columns: Weed Name, 1, 2, 3, 4, 5. Shows density values for ANGR, CHEAL, AMBEL, ABUTH, and AMAPO.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Lists equipment for application A.

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Table with 7 columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec. and 7 columns of injury/control percentages for GLXMA, ANGR, CHEAL, AMAPO, AMBEL.

Main data table with 14 columns: Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, and 7 columns of injury/control percentages for GLXMA, ANGR, CHEAL, AMAPO, AMBEL. Includes LSD, Standard Deviation, and CV rows at the bottom.

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	ABUTH	ANGR	CHEAL	AMAPO	AMBEL
Crop Code	GLXMA				
Rating Data Type	control	control	control	control	control
Rating Unit	percent	injury	percent	percent	percent
Rating Date	6/20/2011	percent	6/27/2011	6/27/2011	6/27/2011
Trt-Eval Interval	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
1	Ignite	1.67	EC	15	fl oz/a	POST	A	20.0	0.0	82.0	58.8	92.0	88.8
2	Ignite	1.67	EC	15	fl oz/a	POST	A	58.8	0.8	73.0	72.0	95.5	93.8
2	N Pak Liquid AMS		L	56.5	fl oz/a	POST	A						
3	Ignite	1.67	EC	15	fl oz/a	POST	A	62.5	0.0	61.3	58.0	98.0	94.8
3	N Pak Liquid AMS		L	113	fl oz/a	POST	A						
4	Ignite	1.67	EC	15	fl oz/a	POST	A	70.0	0.0	74.5	83.3	97.5	92.3
4	Class Act NG		L	2.5	% v/v	POST	A						
5	Ignite	1.67	EC	15	fl oz/a	POST	A	65.0	0.0	82.0	85.0	98.5	89.8
5	Class Act NG		L	2.5	% v/v	POST	A						
5	Interlock		L	4	fl oz/a	POST	A						
6	Untreated							0.0	0.0	0.0	0.0	0.0	0.0
7	Ignite	1.67	EC	15	fl oz/a	POST	A	62.5	0.0	80.8	82.8	98.0	94.8
7	AG 8034		L	2	% v/v	POST	A						
8	Ignite	1.67	EC	15	fl oz/a	POST	A	71.3	1.3	89.8	82.5	97.5	94.0
8	AG 8034		L	2	% v/v	POST	A						
8	Interlock		L	4	fl oz/a	POST	A						
LSD (P=.05)								18.40	1.55	10.90	11.38	6.42	7.38
Standard Deviation								12.51	1.05	7.41	7.74	4.36	5.02
CV								24.41	420.88	10.91	11.85	5.16	6.2

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Weed Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code							
Rating Data Type	control	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/27/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011	7/11/2011
Trt-Eval Interval	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
# Subsamples, Dec.							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
1	Ignite	1.67	EC	15	fl oz/a	POST	A	32.5	0.0	51.3	61.3	87.3	57.5	20.0
2	Ignite	1.67	EC	15	fl oz/a	POST	A	69.5	0.0	51.3	70.0	94.8	70.0	71.3
2	N Pak Liquid AMS		L	56.5	fl oz/a	POST	A							
3	Ignite	1.67	EC	15	fl oz/a	POST	A	66.0	0.0	42.5	60.0	93.8	68.8	62.5
3	N Pak Liquid AMS		L	113	fl oz/a	POST	A							
4	Ignite	1.67	EC	15	fl oz/a	POST	A	64.3	0.0	55.0	77.5	93.8	71.3	71.3
4	Class Act NG		L	2.5	% v/v	POST	A							
5	Ignite	1.67	EC	15	fl oz/a	POST	A	67.5	0.0	68.3	68.8	95.0	71.3	67.5
5	Class Act NG		L	2.5	% v/v	POST	A							
5	Interlock		L	4	fl oz/a	POST	A							
6	Untreated							0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Ignite	1.67	EC	15	fl oz/a	POST	A	67.0	0.0	58.8	67.5	91.3	71.3	63.8
7	AG 8034		L	2	% v/v	POST	A							
8	Ignite	1.67	EC	15	fl oz/a	POST	A	67.5	0.0	68.8	72.5	90.0	78.8	73.8
8	AG 8034		L	2	% v/v	POST	A							
8	Interlock		L	4	fl oz/a	POST	A							
LSD (P=.05)								15.34	0.00	14.15	13.70	6.61	14.14	14.22
Standard Deviation								10.43	0.00	9.62	9.31	4.50	9.61	9.67
CV								19.22	0.0	19.45	15.61	5.57	15.74	17.99

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