

MSU Weed Science Research Program

Evaluation of CHS adjuvants with glyphosate

Trial ID: SOY09-12 Study Dir.: Sprague, Powell
Conducted: T-14 Campus Investigator: Christy Sprague

Date Planted: May/18/2012 Row Spacing: 30 IN
Variety: Pioneer P92Y51 No. of Reps: 4
Population: 150,000 seeds/acre % OM: 2.8
Soil Type: Loam pH: 6.5
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

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

Crop and Weed Description

Table with 4 columns: Weed Code, Common Name, Scientific Name, Crop Code, Common Name. Lists weeds like ANGR, CHEAL, AMAPO, AMBEL and crop GLXMA (SOYBEAN).

Application Description

Application Timing: POST
Date Treated: Jun/20/2012
Time Treated: 10:00 AM
% Cloud Cover: 0
Air Temp., Unit: 86 F
% Relative Humidity: 55
Wind Speed/Unit/Dir: 7 mph SE
Soil Temp., Unit: 76 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

Crop Name: GLXMA
Height (In.): 6"
Stage (L): V2-V3

Weed Stage at Each Application

Weed 1 Name: ANGR Height (In.): 7" Stage (L): 6
Weed 2 Name: CHEAL Height (In.): 4" Stage (L): 12
Weed 3 Name: AMAPO Height (In.): 2" Stage (L): 4
Weed 4 Name: AMBEL Height (In.): 4" Stage (L): 8

Weed Density (plants/sq. ft.)

Date: Jul/09/2012 Weed Name: ANGR Density: 1
Date: Jul/09/2012 Weed Name: CHEAL Density: 9
Date: Jul/09/2012 Weed Name: AMAPO Density: 1
Date: Jul/09/2012 Weed Name: AMBEL Density: 1

Application Equipment

Table with 7 columns: Appl Type, Sprayer MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Row A: Cub, 3.8, AI XR, 11003, 25", 20", 100", 19, Water, 28

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Weed Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Code	GLXMA				
Rating Data Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/27/2012	Jun/27/2012	Jun/27/2012	Jun/27/2012	Jun/27/2012
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code					
1	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	79	38	53	65
2	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	96	55	92	77
	AMS	WG		8.5	lb/100 gal	POST	A					
3	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	99	71	93	80
	WC 112	L		1	qt/100 gal	POST	A					
	AMS	WG		8.5	lb/100 gal	POST	A					
4	Untreated							0	0	0	0	0
5	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	99	84	99	74
	WC024	L		2.5	gal/100 gal	POST	A					
6	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	99	61	94	60
	Wheelhouse	L		2.5	gal/100 gal	POST	A					
7	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	99	75	98	69
	WC037	L		2	qt/100 gal	POST	A					
8	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	96	57	93	66
	Fixate	L		2	qt/100 gal	POST	A					
9	Buccaneer Plus 3	SL		16	fl oz/a	POST	A	0	99	80	99	79
	WC 124	L		2.5	gal/100 gal	POST	A					
LSD (P=.05)								0.0	5.8	9.2	8.7	10.1
CV								0.0	4.63	10.96	6.28	10.86

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

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Weed Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Code	GLXMA				
Rating Data Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jul/03/2012	Jul/03/2012	Jul/03/2012	Jul/03/2012	Jul/03/2012
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	97	43	70	55
2	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	58	99	87
	AMS	WG		8.5	lb/100 gal	POST A						
3	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	70	99	74
	WC 112	L		1	qt/100 gal	POST A						
	AMS	WG		8.5	lb/100 gal	POST A						
4	Untreated							0	0	0	0	0
5	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	89	99	84
	WC024	L		2.5	gal/100 gal	POST A						
6	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	58	96	60
	Wheelhouse	L		2.5	gal/100 gal	POST A						
7	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	84	99	78
	WC037	L		2	qt/100 gal	POST A						
8	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	56	99	79
	Fixate	L		2	qt/100 gal	POST A						
9	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	83	99	78
	WC 124	L		2.5	gal/100 gal	POST A						
LSD (P=.05)								0.0	2.2	9.4	3.0	13.6
CV								0.0	1.71	10.81	2.05	14.01

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

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Weed Code							ANGR	CHEAL	AMAPO	AMBEL		
Crop Code						GLXMA						
Rating Data Type						injury	control	control	control	control		
Rating Unit						percent	percent	percent	percent	percent		
Rating Date						Jul/11/2012	Jul/11/2012	Jul/11/2012	Jul/11/2012	Jul/11/2012		
Trt-Eval Interval						21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
ARM Action Codes												
# Subsamples, Dec.						0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	98	45	70	59
2	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	54	99	85
	AMS	WG		8.5	lb/100 gal	POST A						
3	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	72	99	74
	WC 112	L		1	qt/100 gal	POST A						
	AMS	WG		8.5	lb/100 gal	POST A						
4	Untreated							0	0	0	0	0
5	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	91	99	89
	WC024	L		2.5	gal/100 gal	POST A						
6	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	61	99	65
	Wheelhouse	L		2.5	gal/100 gal	POST A						
7	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	86	99	79
	WC037	L		2	qt/100 gal	POST A						
8	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	58	99	76
	Fixate	L		2	qt/100 gal	POST A						
9	Buccaneer Plus 3	SL		16	fl oz/a	POST A		0	99	84	99	82
	WC 124	L		2.5	gal/100 gal	POST A						
LSD (P=.05)						0.0	1.0	10.6	2.9	13.6		
CV						0.0	0.76	11.86	1.97	13.8		

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

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Weed Code
 Crop Code
 Rating Data Type GLXMA GLXMA
 Rating Unit moisture yield
 Rating Unit percent bu/acre
 Rating Date Oct/11/2012 Oct/11/2012
 Trt-Eval Interval 113 DA-A 113 DA-A
 ARM Action Codes TY1
 # Subsamples, Dec. 1 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code		
1	Buccaneer Plus 3	SL	16	fl oz/a		POST A	10.8	36.4	
2	Buccaneer Plus 3	SL	16	fl oz/a		POST A	10.9	33.3	
	AMS	WG	8.5	lb/100 gal		POST A			
3	Buccaneer Plus 3	SL	16	fl oz/a		POST A	10.8	42.3	
	WC 112	L	1	qt/100 gal		POST A			
	AMS	WG	8.5	lb/100 gal		POST A			
4	Untreated						11.7	18.5	
5	Buccaneer Plus 3	SL	16	fl oz/a		POST A	10.7	43.0	
	WC024	L	2.5	gal/100 gal		POST A			
6	Buccaneer Plus 3	SL	16	fl oz/a		POST A	11.0	31.8	
	Wheelhouse	L	2.5	gal/100 gal		POST A			
7	Buccaneer Plus 3	SL	16	fl oz/a		POST A	10.7	47.5	
	WC037	L	2	qt/100 gal		POST A			
8	Buccaneer Plus 3	SL	16	fl oz/a		POST A	10.9	38.7	
	Fixate	L	2	qt/100 gal		POST A			
9	Buccaneer Plus 3	SL	16	fl oz/a		POST A	11.0	43.0	
	WC 124	L	2.5	gal/100 gal		POST A			
LSD (P=.05)							0.26	6.62	
CV							1.61	12.21	

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