Controlling large GR Palmer amaranth with Remedy, Weedar, Clarity and Ignite.

Trial ID: C55-08 Study Dir.: Stanley Culpepper
Location: Macon County Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min .57876)

	Treatment	Form				Rate			Amt Product	Plot N	lo. By l	Rep
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3
1	Non-treated									101	203	308
2	Durango	4		L	0.75	LB A/A	POST	Α	19.0 ml/mx	102	207	306
	Remedy	4		L	0.5	PT/A	POST	Α	6.334 ml/mx			
3	Durango	4		L	0.75	LB A/A	POST	Α	19.0 ml/mx	103	202	303
	Remedy	4		L	1.0	PT/A	POST	Α	12.67 ml/mx			
4	Durango	4		L	0.75	LB A/A	POST	Α	19.0 ml/mx	104	201	304
	Remedy	4		L	1.5	PT/A	POST	Α	19.0 ml/mx			
5	Ignite	2.34		L	23	OZ/A	POST	Α	18.21 ml/mx	105	208	305
6	Ignite	2.34		L	23	OZ/A	POST	Α	18.21 ml/mx	106	204	302
	Weedar	3.8		L	1.5	PT/A	POST	Α	19.0 ml/mx			
7	Ignite	2.34		L	23	OZ/A	POST	Α	18.21 ml/mx	107	205	307
	Clarity	4		L	12	OZ/A	POST	Α	9.502 ml/mx			
8	Ignite	2.34		L	23	OZ/A	POST	Α	18.21 ml/mx	108	206	301
	Remedy	4		L	1.0	PT/A	POST	Α	12.67 ml/mx			

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
71.255	ml	Durango	4	L	
63.338	ml	Remedy	4	L	
91.058	ml	Ignite	2.34	L	
23.752	ml	Weedar	3.8	L	
11.877	ml	Clarity	4	L	

^{* &#}x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).

Trial Comments

OBJECTIVE: Determine Palmer amaranth response to glyphosate or glufosinate mixed with Remedy, Weedar, or Clarity.

Note: Study was put out on a mid-summer emerging population of Palmer amaranth.

Palmer Response:

- 1. Palmer was 16 inches at time of application.
- 2. A rate response to Remedy when mixed with glyphosate was noted. At 42 DAT, control was 50, 67 and 73% with Remedy at 0.5, 1.0 and 1.5 pt/A.
- 3. Ignite mixed with Remedy (78%) was more effective than Ignite mixed with Clarity at 12 oz (67%) with less control noted with Ignite mixed with 1.5 pt/A of Weedar (53%).

CONCLUSION:

1. Experiment needs to be applied to spring emerged Palmer 8 to 12 inches in height.

^{*} Product amount calculations increased 25 % for overage adjustment.

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Trial ID: C55-08 Study Dir.: Stanley Culpepper Location: Macon County Investigator: Stanley Culpepper

AMAPA
control %
, -
-17-08
2 DA-A
3
0 e
50 c
67 b
73 ab
25 d
53 с
67 b
78 a
9.9
5.7
10.97
2.507
0.868

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Controlling	large GR Palmer a	maranth with Remedy, Weedar	, Clarity and Ignite.	
Trial ID: C55-08	Q+1:	dy Dir.: Stanley Culpepper		
Location: Macon County		stigator: Stanley Culpepper		
Study Director: Stanley (GENERAL TRIAL IN	Title: Ext. Wee	d Sajenae	
Affiliation: Univ. of		TICIE. EAC. WEE	a Science	
Postal Code: 31794	dcorgia			
31791				
Investigator: Stanley (Culpepper	Title: Ext. Wee	d Science	
Affiliation: Univ. of				
Postal Code: 31794				
	TRIAL LOCA	TION		
City: Macon Co.		Trial Status:	complete	
State/Prov.: GA		Trial Reliability:	good	
Postal Code: 31068		Initiation Date:	9	
Country: USA		Planned Completion Date		
E-Longitude of LL Corner		N-Latitude of LL Corner °		
	Unit:	$_{}$ Angle y-axis to North $^{\circ}$:	
Directions:				
	GOODED LEOD / L	MOUNTED		
Gaarrana karra	COOPERATOR/LA			
Cooperator: Org:		-		
		Phone No: Fax No:		
3.4.4				
G!				
State/Prov:				
Postal Code:				
Conducted Under GLP (Y/N)	: N Co	onducted Under GEP (Y/N): N		
Guidelines:	Guideline Descrip	otion:		
Objective:				
G				
Conclusions:				_
	CROP AND WEED DE	SCRIPTION		
Weed Code Common Name	Sc	ientific Name		
1. AMAPA Palmer amarant				
1. AIMFA FAITHET AHATAITE	.11			
Trop 1. Fallow n	o grop	Variotus		
Crop 1: Fallow-n Planting Date:		Variety:		
		Perennial Age:		
		ow: Seed Bed:		
		Emergence Date		
	SITE AND DE	SIGN		
Plot Width, Unit: 6		h, Unit: 25 FT Reps	: 3	
Site Type: On Farm				
Fillage Type: Macon Count	y Study	Design: RANDOMIZED COMPLETE	E BLOCK	
Trial Initiation Comments	:			
Previous Crops	P:	revious Pesticides	Year	

		Maintenance	Form	Form	Form		Rate
No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit
1.							

SOIL DESCRIPTION

Sand: 82 Soil Name:
Clay: 4 CEC: ____ Fert. Level: Soil Name: Fert. Level:

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: Closest Weather Station: _____ Distance: ____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Aug-06-08
Time of Day:	8:00 am
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	78 F
% Relative Humidity:	67
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	Y
Water Hardness:	
Soil Temp., Unit:	
Soil Moisture:	moist
% Cloud Cover:	20

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	
Stage Scale:	
Height, Unit:	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAPA POST
Stage Scale:	16 inch
Density, Unit:	10 ydsq

APPLICATION EQUIPMENT

		A
Appl. Equipment:	backı	pack
Operating Pressure:	24	
Nozzle Type:	flat	fan
Nozzle Size:	11002	2
Nozzle Spacing, Unit:	18	in
Nozzles/Row:	2	
Band Width, Unit:		
Boom Length, Unit:	4.5	ft
Boom Height, Unit:	15	in
Ground Speed, Unit:	3	mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	wate	r
Spray Volume, Unit:	15	GPA
Spray pH:		
Propellant:	CO2	-
Tank Mix (Y/N):	Y	

Trt No	Treatment Application Comment