

University of Georgia

Row middle weed response to Valor and V-10142

Trial ID: Veg43-05

Study Dir.: Culpepper

Location: Grass Farm (LTF)

Investigator: Stanley Culpepper

Reps: 4

Plots: 2 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .25723)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Non-treated								101	202	307	407
2	V-10142	75	DF	0.2	lb ai/a	RM	A	2.159 g/mx	102	204	306	406
	COC	L		1	pt/a	RM	A	8.445 ml/mx				
3	Valor	51	WDG	3	oz/a	RM	A	1.518 g/mx	103	206	301	401
	Dual Magnum	7.62	L	1	pt/a	RM	A	8.445 ml/mx				
	COC	L		1	% v/v	RM	A	9.999 ml/mx				
4	Valor	51	WDG	3	oz/a	RM	A	1.518 g/mx	104	207	302	402
	COC	L		1	pt/a	RM	A	8.445 ml/mx				
5	Valor	51	WDG	3	oz/a	RM	A	1.518 g/mx	105	205	303	403
	COC	L		1	% v/v	RM	A	9.999 ml/mx				
	V-10142	75	DF	0.1	lb ai/a	RM	A	1.08 g/mx				
6	Valor	51	WDG	3	oz/a	RM	A	1.518 g/mx	106	201	304	404
	COC	L		1	% v/v	RM	A	9.999 ml/mx				
	V-10142	75	DF	0.2	lb ai/a	RM	A	2.159 g/mx				
7	Valor	51	WDG	3	oz/a	RM	A	1.518 g/mx	107	203	305	405
	Dual Magnum	7.62	L	1	pt/a	RM	A	8.445 ml/mx				
	COC	L		1	% v/v	RM	A	9.999 ml/mx				
	Gramoxone	3	L	1.5	pt/a	RM	A	12.67 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
6.747	g	V-10142 75 DF	
71.107	ml	COC L	
9.488	g	Valor 51 WDG	
21.113	ml	Dual Magnum 7.62 L	
15.834	ml	Gramoxone 3 L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Determine purslane response to 10142 and Valor mixtures.

PURSLANE CONTROL:

- 10142 provided no control.
- Valor 3 oz + COC provided 73 to 78% control.
- Mixing 10142 with Valor + COC did not improve control.
- Mixing Dual Magnum with Valor + COC improved control at least 9%.
- Control by Valor + Dual + Gramoxone + COC was 91% control at 14 DAT.

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Crop Code			PORPI	PORPI
Rating Data Type			control	control
Rating Unit			percent	percent
Rating Date			May-23-05	May-31-05
Trt-Eval Interval			6 DA-A	14 DA-A
Trt No.	Treatment Name	Rate	1	2
		Rate Unit		
1	Non-treated		0	0
2	V-10142	0.2 lb ai/a	0	0
	COC	1 pt/a		
3	Valor	3 oz/a	87	88
	Dual Magnum	1 pt/a		
	COC	1 % v/v		
4	Valor	3 oz/a	78	73
	COC	1 pt/a		
5	Valor	3 oz/a	75	68
	COC	1 % v/v		
	V-10142	0.1 lb ai/a		
6	Valor	3 oz/a	72	70
	COC	1 % v/v		
	V-10142	0.2 lb ai/a		
7	Valor	3 oz/a	81	91
	Dual Magnum	1 pt/a		
	COC	1 % v/v		
	Gramoxone	1.5 pt/a		
LSD (P=.05)			5.1	6.8
Standard Deviation			3.4	4.6
CV			6.07	8.27

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

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

SOIL DESCRIPTION

% Sand: 0. % OM: 0. Texture: loamy sand
 % Silt: 0. pH: 0. Soil Name: _____
 % Clay: 0. CEC: 0. Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: wet

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	May-17-05
Time of Day:	6 pm
Application Method:	rowmiddle
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	88 F
% Relative Humidity:	40
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	92 F
Soil Moisture:	moist
% Cloud Cover:	20

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMMC rowmiddle
Stage Scale:	15 in run
Height, Unit:	15 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	PORPI rowmiddle
Stage Scale:	1-3 inch
Density, Unit:	30 ydsq

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	18
Nozzle Type:	flat fan
Nozzle Size:	8003
Nozzle Spacing, Unit:	
Nozzles/Row:	1
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	18 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment