

University of Georgia

Row middle weed response to V-10142 combinations.

Trial ID: Veg40-05(RM)

Study Dir.: Stanley Culpepper

Location: LTF

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .77168)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Non-treated								101	208	310	410
2	V-10142	75 DF		0.1 lb ai/a	PD	A	1.08 g/mx		102	204	303	403
	COC	L		1 pt/a	PD	A	8.445 ml/mx					
3	V-10142	75 DF		0.2 lb ai/a	PD	A	2.159 g/mx		103	202	307	407
	COC	L		1 pt/a	PD	A	8.445 ml/mx					
4	V-10142	75 DF		0.3 lb ai/a	PD	A	3.239 g/mx		104	207	306	406
	COC	L		1 pt/a	PD	A	8.445 ml/mx					
5	Valor	51 WDG		3 oz/a	PD	A	1.518 g/mx		105	201	309	409
	Dual Magnum	7.62 L		1 pt/a	PD	A	8.445 ml/mx					
	Prowl	3.3 EC		2 pt/a	PD	A	16.89 ml/mx					
	COC	L		1 % v/v	PD	A	9.999 ml/mx					
6	Valor	51 WDG		3 oz/a	PD	A	1.518 g/mx		106	210	301	401
	COC	L		1 pt/a	PD	A	8.445 ml/mx					
7	Valor	51 WDG		3 oz/a	PD	A	1.518 g/mx		107	203	305	405
	COC	L		1 % v/v	PD	A	9.999 ml/mx					
	V-10142	75 DF		0.1 lb ai/a	PD	A	1.08 g/mx					
8	Valor	51 WDG		3 oz/a	PD	A	1.518 g/mx		108	205	308	408
	COC	L		1 % v/v	PD	A	9.999 ml/mx					
	V-10142	75 DF		0.1 lb ai/a	PD	A	1.08 g/mx					
9	Valor	51 WDG		3 oz/a	PD	A	1.518 g/mx		109	206	304	404
	Dual Magnum	7.62 L		1 pt/a	PD	A	8.445 ml/mx					
	Prowl	3.3 EC		2 pt/a	PD	A	16.89 ml/mx					
	COC	L		1 % v/v	PD	A	9.999 ml/mx					
	Gramoxone	3 L		1.5 pt/a	PD	A	12.67 ml/mx					
10	V-10142	75 DF		0.2 lb ai/a	PD	A	2.159 g/mx		110	209	302	402
	COC	L		1 pt/a	PD	A	8.445 ml/mx					
	Gramoxone	3 L		1.5 pt/a	PD	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
13.494	g	V-10142 75 DF	
102.776	ml	COC L	
9.488	g	Valor 51 WDG	
21.113	ml	Dual Magnum 7.62 L	
42.225	ml	Prowl 3.3 EC	
31.669	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.

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Trial Comments

OBJECTIVE: Compare row middle herbicide options for the control of purslane and other common weeds.

CUCUMBER RESPONSE:

1. Hoods were not used.
2. Injury from V-10142 was minor.
3. Leaf spotting was noted in Valor and/or Gramoxone plots.
4. Greatest degree of injury tended to be with the Valor + Gramoxone mixture.

WEED RESPONSE:

Pink purslane:

1. V-10142 provided no effective control.
2. The most consistent and best treatment was the combination of Valor/Dual/Prowl/ and Gramoxone. Valor/Dual/Prowl was also very effective.
3. Mixing V-10142 with Valor had no effect.
4. Gramoxone plus V-10142 provided poor control.

Pigweed:

1. The most consistent and best treatment was the combination of Valor/Dual/Prowl/ and Gramoxone. Other Valor mixtures and Gramoxone plus V-10142 provided fair to good control.

Pitted morningglory:

1. Quick and excellent control by Valor or Gramoxone mixtures was noted.
2. Eventually control by V-10142 was good but control may have been greatly enhanced because of the competition from the very poorly controlled purslane.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	CUMSA injury percent	CUMSA injury percent	PORPI control percent	PORPI control percent	PORPI control percent	PORPI control percent	AMASS control percent	AMASS control percent
						May-10-05	May-16-05	May-10-05	May-16-05	May-24-05	May-31-05	May-10-05	May-16-05
						8 DA-A	14 DA-A	8 DA-A	14 DA-A	22 DA-A	29 DA-A	8 DA-A	14 DA-A
Trt No.	Treatment Name	Rate	Rate Unit			1	2	3	4	5	6	7	8
1	Non-treated					0	0	0	3	0	0	0	0
2	V-10142 COC	0.1 lb ai/a 1 pt/a				4	0	13	5	14	16	13	7
3	V-10142 COC	0.2 lb ai/a 1 pt/a				3	1	19	11	24	11	10	13
4	V-10142 COC	0.3 lb ai/a 1 pt/a				5	0	20	15	33	31	28	15
5	Valor Dual Magnum Prowl COC	3 oz/a 1 pt/a 2 pt/a 1 % v/v				13	11	94	87	89	89	88	75
6	Valor COC	3 oz/a 1 pt/a				9	13	85	84	79	69	84	78
7	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a				9	11	88	89	80	67	72	65
8	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a				12	12	85	86	75	67	75	62
9	Valor Dual Magnum Prowl COC Gramoxone	3 oz/a 1 pt/a 2 pt/a 1 % v/v 1.5 pt/a				16	16	99	99	96	92	99	99
10	V-10142 COC Gramoxone	0.2 lb ai/a 1 pt/a 1.5 pt/a				10	6	51	60	38	36	96	95
LSD (P=.05)						6.6	5.6	16.5	11.1	10.1	14.3	16.6	16.0
Standard Deviation						4.5	3.9	11.3	7.7	7.0	9.8	9.7	9.3
CV						57.32	55.89	20.47	14.23	13.29	20.66	17.07	18.25

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

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Weed Code		AMASS	IPOLA	IPOLA	IPOLA	
Crop Code						
Rating Data Type		control	control	control	control	
Rating Unit		percent	percent	percent	percent	
Rating Date		May-24-05	May-10-05	May-16-05	May-24-05	
Trt-Eval Interval		22 DA-A	8 DA-A	14 DA-A	22 DA-A	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	
		Unit				
			9	10	11	12
1	Non-treated		0	0	0	0
2	V-10142 COC	0.1 lb ai/a 1 pt/a	30	30	17	83
3	V-10142 COC	0.2 lb ai/a 1 pt/a	27	33	33	89
4	V-10142 COC	0.3 lb ai/a 1 pt/a	33	33	35	89
5	Valor Dual Magnum Prowl COC	3 oz/a 1 pt/a 2 pt/a 1 % v/v	78	98	90	98
6	Valor COC	3 oz/a 1 pt/a	74	94	85	99
7	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a	75	96	89	96
8	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a	72	96	94	98
9	Valor Dual Magnum Prowl COC Gramoxone	3 oz/a 1 pt/a 2 pt/a 1 % v/v 1.5 pt/a	98	99	99	99
10	V-10142 COC Gramoxone	0.2 lb ai/a 1 pt/a 1.5 pt/a	85	96	98	99
LSD (P=.05)			16.2	7.6	13.8	6.4
Standard Deviation			9.5	4.4	8.0	3.8
CV			16.56	6.54	12.53	4.42

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

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 Location: LTF Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794
Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

TRIAL LOCATION

City: Tifton **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** May-02-05
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: Lewis Taylor farms **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	PORPI	pink purslane	
2.	AMASS	pigweed species	
3.	IPOLA	pitted morningglory	

Crop 1: CUMSA CUCUMBER **Variety:** Thunder
Planting Date: _____ **Planting Method:** transplant
Rate: 1 per ft **Depth:** 1 in **Perennial Age:** ____
Row Spacing: 5 feet **Spacing Within Row:** 12 inch **Seed Bed:** plasticulture
Soil Temperature: ____ **Soil Moisture:** drip irrigat **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: On farm
Tillage Type: plasticulture **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 0.	% OM: 0.	Texture: sand
% Silt: 0.	pH: 0.	Soil Name: Tifton sandy loam
% 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: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	May-02-05
Time of Day:	7 pm
Application Method:	banded
Application Timing:	PD
Applic. Placement:	row middl
Air Temp., Unit:	71 F
% Relative Humidity:	42
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	71 F
Soil Moisture:	fair
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMSA PD
Stage Scale:	runners
Height, Unit:	10 inch

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WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	PORPI PD
Stage Scale:	1-3 inch
Density, Unit:	100 ydsq
Weed 2 Code, Stage:	AMASS PD
Stage Scale:	2-4 inch
Density, Unit:	1 ydsq
Weed 3 Code, Stage:	IPOLA PD
Stage Scale:	2-4 inch
Density, Unit:	2 ydsq

APPLICATION EQUIPMENT

A	
Appl. Equipment:	backpack
Operating Pressure:	15
Nozzle Type:	even tip
Nozzle Size:	8003
Nozzle Spacing, Unit:	5 feet
Nozzles/Row:	1
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	15 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