

University of Georgia

Wheat:

1. The preplant program using Chateau and Dual was the most effective program.
2. V-10142 had no impact on control.
3. Other systems provided fair control with the Cobra system being the least effective.

Wild Radish:

1. All systems provided excellent control.

Texas Panicum:

1. Panicum did not emerge until late March.
2. All Chateau programs provided 79 to 83% control later in the year with the trend for greater control in the Chateau system using 6 oz/A followed by 6 oz/A.
3. The Cobra system was the least effective program.

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Tomato, pepper, and squash response to Chateau row middle applications.

Trial ID: Veg12-06

Study Dir.: Stanley Culpepper

Location: Ponder (5139)

Investigator: Stanley Culpepper

Weed Code	TRZAW	TRZAW	TRZAW	RAPRA	RAPRA	RAPRA	PANTE	PANTE			
Crop Code											
Rating Data Type	control	control	control	control	control	control	control	control			
Rating Unit	%	%	%	%	%	%	%	%			
Rating Date	Apr-05-06	Apr-18-06	May-02-06	Apr-05-06	Apr-18-06	May-02-06	Apr-18-06	May-02-06			
Trt-Eval Interval	28 DA-A	41 DA-A	55 DA-A	28 DA-A	41 DA-A	55 DA-A	41 DA-A	55 DA-A			
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
1	Non-treated			0 d	0 e	0 e	0 b	0 b	0 b	0 c	0 c
2	Chateau	3 OZ/A		57 c	72 bc	63 cd	100 a	100 a	100 a	87 a	79 a
	COC	1 PT/A									
	Chateau	3 OZ/A									
	COC	1 PT/A									
3	Chateau	6 OZ/A		73 b	81 b	78 b	97 a	100 a	100 a	93 a	84 a
	COC	1 PT/A									
	Chateau	6 OZ/A									
	COC	1 PT/A									
4	Cobra	1 PT/A		42 c	56 d	55 d	100 a	100 a	100 a	47 b	32 b
	COC	1 PT/A									
	Cobra	1 PT/A									
	COC	1 PT/A									
5	Chateau	3 OZ/A		53 c	65 cd	72 bc	100 a	100 a	100 a	88 a	78 a
	COC	1 PT/A									
	V-10142	0.2 LB A/A									
	Chateau	3 OZ/A									
	COC	1 PT/A									
	V-10142	0.2 LB A/A									
6	Chateau	3 OZ/A		94 a	94 a	94 a	100 a	100 a	100 a	88 a	78 a
	COC	1 PT/A									
	Dual Magnum	1.5 PT/A									
LSD (P=.05)				14.0	11.9	12.2	4.3	0.0	0.0	6.7	6.7
Standard Deviation				7.7	6.6	6.7	2.4	0.0	0.0	3.7	3.7
CV				14.44	10.68	11.16	2.85	0.0	0.0	5.5	6.28
Bartlett's X2				4.512	1.277	2.133	0.0	0.0	0.0	1.523	3.377
P(Bartlett's X2)				0.341	0.865	0.711	.	.	.	0.823	0.497

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

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Weed Code										
Crop Code		LYPES	LYPES	LYPES	CUUPE	CUUPE	CUUPE	CPSAN	CPSAN	
Rating Data Type		injury	injury	injury	injury	injury	injury	injury	injury	
Rating Unit		%	%	%	%	%	%	%	%	
Rating Date		Apr-05-06	Apr-18-06	May-02-06	Apr-05-06	Apr-18-06	May-02-06	Apr-05-06	Apr-18-06	
Trt-Eval Interval		28 DA-A	41 DA-A	55 DA-A	28 DA-A	41 DA-A	55 DA-A	28 DA-A	41 DA-A	
Trt No.	Treatment Name	Rate								
		Rate Unit	9	10	11	12	13	14	15	
1	Non-treated		0 a	0 a	0 a	0 a	0 c	0 a	0 a	0 c
2	Chateau	3 OZ/A	0 a	0 a	0 a	0 a	4 bc	0 a	0 a	2 c
	COC	1 PT/A								
	Chateau	3 OZ/A								
	COC	1 PT/A								
3	Chateau	6 OZ/A	0 a	0 a	0 a	0 a	7 ab	0 a	0 a	10 b
	COC	1 PT/A								
	Chateau	6 OZ/A								
	COC	1 PT/A								
4	Cobra	1 PT/A	0 a	0 a	0 a	0 a	9 a	0 a	0 a	17 a
	COC	1 PT/A								
	Cobra	1 PT/A								
	COC	1 PT/A								
5	Chateau	3 OZ/A	0 a	0 a	0 a	0 a	4 bc	0 a	0 a	2 c
	COC	1 PT/A								
	V-10142	0.2 LB A/A								
	Chateau	3 OZ/A								
	COC	1 PT/A								
	V-10142	0.2 LB A/A								
6	Chateau	3 OZ/A	0 a	0 a	0 a	0 a	1 c	0 a	0 a	0 c
	COC	1 PT/A								
	Dual Magnum	1.5 PT/A								
LSD (P=.05)			0.0	0.0	0.0	0.0	5.1	0.0	0.0	4.5
Standard Deviation			0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.5
CV			0.0	0.0	0.0	0.0	69.4	0.0	0.0	47.54
Bartlett's X2			0.0	0.0	0.0	0.0	1.145	0.0	0.0	1.231
P(Bartlett's X2)			0.887	.	.	0.745

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

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Weed Code				
Crop Code				CPSAN
Rating Data Type				injury
Rating Unit				%
Rating Date				May-02-06
Trt-Eval Interval				55 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	
				17
1	Non-treated			0 a
2	Chateau	3	OZ/A	0 a
	COC	1	PT/A	
	Chateau	3	OZ/A	
	COC	1	PT/A	
3	Chateau	6	OZ/A	0 a
	COC	1	PT/A	
	Chateau	6	OZ/A	
	COC	1	PT/A	
4	Cobra	1	PT/A	0 a
	COC	1	PT/A	
	Cobra	1	PT/A	
	COC	1	PT/A	
5	Chateau	3	OZ/A	0 a
	COC	1	PT/A	
	V-10142	0.2	LB A/A	
	Chateau	3	OZ/A	
	COC	1	PT/A	
	V-10142	0.2	LB A/A	
6	Chateau	3	OZ/A	0 a
	COC	1	PT/A	
	Dual Magnum	1.5	PT/A	
LSD (P=.05)				0.0
Standard Deviation				0.0
CV				0.0
Bartlett's X2				0.0
P(Bartlett's X2)				.

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

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Crop 3: CUUPE yellow squash **Variety:** Enterprise
Planting Date: Mar-10-06 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** raised/mulch
Soil Temperature: 81 F **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 12 FT **Plot Length, Unit:** 20 FT **Reps:** 3
Site Type: Ponder Research Farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.3 **Texture:** sand
% Silt: 2 **pH:** 6.4 **Soil Name:** Tifton sandy loam
% Clay: 4 **CEC:** _____ **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	B
Application Date:	Mar-08-06	Apr-12-06
Time of Day:	8 am	7 am
Application Method:	band	band
Application Timing:	preplant	postplant
Applic. Placement:	row middl	row middl
Air Temp., Unit:	60 F	56 F
% Relative Humidity:	57	74
Wind Velocity, Unit:	2 mph	0 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	60 F	56 F
Soil Moisture:	fair	moist
% Cloud Cover:	20	30

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CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES preplant	LYPES postplant
Stage Scale:	not plant	bloom
Height, Unit:	0 inch	11 inch
Crop 2 Code, Stage:	CPSAN preplant	CPSAN postplant
Stage Scale:	not plant	.
Height, Unit:	0 inch	8 inch
Crop 3 Code, Stage:	CUUPE preplant	CUUPE postplant
Stage Scale:	not plant	bloom
Height, Unit:	0 inch	13 inch

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	TRZAQ pretransp	TRZAQ posttrans
Stage Scale:	spike	1-4 leaf
Density, Unit:	20 ydsq	20 ydsq
Weed 2 Code, Stage:	RAPRA pretransp	RAPRA posttran
Stage Scale:	<1 inch	1-4 inch
Density, Unit:	4 ydsq	4 ydsq
Weed 3 Code, Stage:	PANTE pretransp	PANTE postrans
Stage Scale:	not prese	1-4 leaf
Density, Unit:	0 ydsq	3 ydsq

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	2	2
Band Width, Unit:		
Boom Length, Unit:	4.5 ft	4.5 ft
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment