

University of Georgia

Cucumber and nutsedge response to Chateau and V-10142 row middle applications.

Trial ID: Veg17-06 Study Dir.: Stanley Culpepper
 Location: Ponder (5158) Investigator: Stanley Culpepper

Reps: 4 Plots: 9 by 20 feet
 Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min .92602)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	V-10142	75	DF	0.1	LB A/A	RM-postp	B	1.619 g/mx	101	202	304	411
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
2	V-10142	75	DF	0.2	LB A/A	RM-postp	B	3.239 g/mx	102	203	301	410
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
3	V-10142	75	DF	0.3	LB A/A	RM-postp	B	4.858 g/mx	103	212	307	406
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
4	Sandea	75	DF	1	OZ/A	RM-postp	B	0.759 g/mx	104	211	312	401
	NIS	L		0.25	% V/V	RM-postp	B	3.75 ml/mx				
5	Chateau	51	WDG	3	OZ/A	RM-postp	B	2.277 g/mx	105	206	309	408
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
6	V-10142	75	DF	0.1	LB A/A	RM-postp	B	1.619 g/mx	106	210	308	403
	Chateau	51	WDG	3	OZ/A	RM-postp	B	2.277 g/mx				
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
7	Non-treated								107	201	306	412
8	V-10142	75	DF	0.2	LB A/A	RM-postp	B	3.239 g/mx	108	204	303	409
	Chateau	51	WDG	3	OZ/A	RM-postp	B	2.277 g/mx				
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
9	V-10142	75	DF	0.3	LB A/A	RM-postp	B	4.858 g/mx	109	207	302	405
	Chateau	51	WDG	3	OZ/A	RM-postp	B	2.277 g/mx				
	COC	L		1	% V/V	RM-postp	B	15.0 ml/mx				
10	Chateau	51	WDG	3	OZ/A	RM-prepl	A	2.277 g/mx	110	209	305	407
11	Chateau	51	WDG	3	OZ/A	RM-prepl	A	2.277 g/mx	111	205	311	404
	Dual Magnum	4	L	1.5	PT/A	RM-prepl	A	19.0 ml/mx				
12	Chateau	51	WDG	3	OZ/A	RM-prepl	A	2.277 g/mx	112	208	310	402
	Dual Magnum	4	L	1.5	PT/A	RM-prepl	A	19.0 ml/mx				
	Sandea	75	DF	0.75	OZ/A	RM-prepl	A	0.5693 g/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
24.289	g	V-10142	75	DF	
131.236	ml	COC		L	
1.660	g	Sandea	75	DF	
4.687	ml	NIS		L	
19.925	g	Chateau	51	WDG	
47.503	ml	Dual Magnum	4	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

University of Georgia

Cucumber and nutsedge response to Chateau and V-10142 row middle applications.

Trial ID: Veg17-06
Location: Ponder (5158)

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Determine cucumber tolerance to Chateau and V-10142 applied in row middles of 14" wide mulch laid flat.

VISUAL CROP RESPONSE:

1. Row middle applications of V-10142 and Sandea caused little injury.
2. Postplant applications of Chateau caused severe crop injury.
3. Preplant applications of Chateau also caused unacceptable injury. Chateau mixed with Dual Magnum was more injurious than Chateau mixed with Dual Magnum and Sandea.
4. Injury from both preplant and postplant row middle applications were likely in response to heavy splashing rains. However, it is not certain that tendrils rooting in the row middle did not take up the herbicide and further increase injury.

WEED RESPONSE:

Palmer amaranth:

1. All treatments provided excellent control during mid-season.
2. By late-season, Chateau treatments provided excellent control while V-10142 and Sandea provided fair to good control.

Primrose:

1. By late-season, Chateau treatments provided excellent control while V-10142 and Sandea provided fair control.

PLANT STAND:

1. The entire 20 plant plot was counted.
2. Preplant applications of Chateau + Dual Magnum reduced plant stand compared to the non-treated control.

PLANT RUNNER LENGTHS (10 plant per plot measured each time):

1. Mid-season cucumber runners were shortened by all postplant Chateau applications as well as Chateau + Dual Magnum applied preplant.
2. All treatments except V-10142 and Sandea applied postplant either reduced vine length or tended to reduce vine length.

PLANT BIOMASS:

1. On April 10, 10 plants per plot were cut at the soil line and weighed.
2. At this time, only Chateau + Dual applied preplant significantly reduced plant biomass. However, biomass measurement were actually taken too soon after postplant applications to truly measure impact from the postplant applications.

CUCUMBER YIELD:

1. Cucumber were harvested 7 times.
2. When averaging the first 2 harvest, yield from the V-10142 and Sandea treatments were generally greater than the control because of weed control. However, yield from all postplant Chateau applications as well as Chateau + Dual and Chateau + Dual + Sandea applied preplant reduced yield.
3. When averaging all 7 harvest, yield from plots treated with V-10142 and Sandea were similar to the non-treated. All other treatments reduced yield.

CONCLUSIONS:

1. Chateau should not be recommended in row middles of mulched beds laid flat with the soil.
2. Injury ratings in the study followed heavy rainfall as that is when injury was most apparent.
3. A trial with cucumber needs to be conducted on raised beds to make sure that once vines enter the row middle they do not get injured from Chateau splash or Chateau uptake from tendrils rooting in the middles, overhead irrigation needs to be utilized in this trial.

GENERAL COMMENTS:

1. Feb 22, 2006: Telone C35 was applied in bed at 35 GPA.
2. March 22, 2006: Postplant row middle applications made with cucumber vines 2 inches from coming off the mulch.

University of Georgia

Cucumber and nutsedge response to Chateau and V-10142 row middle applications.

Trial ID: Veg17-06

Study Dir.: Stanley Culpepper

Location: Ponder (5158)

Investigator: Stanley Culpepper

Weed Code	CUMSA	CUMSA	CUMSA	CUMSA	AMAPA	AMAPA	OEOLA	OEOLA			
Crop Code	injury	injury	injury	injury	CUMSA	CUMSA	CUMSA	CUMSA			
Rating Data Type	%	%	%	%	control	control	control	control			
Rating Unit	%	%	%	%	%	%	%	%			
Rating Date	Mar-21-06	Mar-29-06	Apr-07-06	Apr-21-06	Apr-21-06	May-21-06	Apr-21-06	May-21-06			
Trt-Eval Interval	13 DA-A	7 DA-B	16 DA-B	30 DA-B	30 DA-B	60 DA-B	30 DA-B	60 DA-B			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
1	V-10142 COC	0.1 1	LB A/A % V/V	0 c	3 de	0 d	0 d	100 b	78 c	95 a	71 c
2	V-10142 COC	0.2 1	LB A/A % V/V	0 c	4 de	1 d	7 d	100 ab	87 bc	98 a	84 b
3	V-10142 COC	0.3 1	LB A/A % V/V	0 c	2 de	0 d	5 d	100 ab	92 ab	98 a	85 b
4	Sandea NIS	1 0.25	OZ/A % V/V	0 c	3 de	1 d	6 d	100 a	78 c	100 a	85 b
5	Chateau COC	3 1	OZ/A % V/V	0 c	11 cd	26 ab	69 a	100 a	99 a	100 a	99 a
6	V-10142 Chateau COC	0.1 3 1	LB A/A OZ/A % V/V	0 c	14 c	23 b	70 a	100 a	99 a	100 a	99 a
7	Non-treated			0 c	0 e	0 d	0 d	0 c	0 d	0 b	0 d
8	V-10142 Chateau COC	0.2 3 1	LB A/A OZ/A % V/V	0 c	14 c	29 ab	75 a	100 a	99 a	100 a	99 a
9	V-10142 Chateau COC	0.3 3 1	LB A/A OZ/A % V/V	0 c	11 cd	24 b	70 a	100 a	99 a	100 a	99 a
10	Chateau	3	OZ/A	3 c	6 cde	3 d	25 c	100 a	97 ab	100 a	99 a
11	Chateau Dual Magnum	3 1.5	OZ/A PT/A	32 a	37 a	34 a	39 b	100 a	99 a	100 a	99 a
12	Chateau Dual Magnum Sandea	3 1.5 0.75	OZ/A PT/A OZ/A	20 b	24 b	14 c	28 c	100 a	99 a	100 a	99 a
LSD (P=.05)				4.3	8.5	8.9	9.7	0.4	10.0	4.7	11.7
Standard Deviation				3.0	5.9	6.1	6.7	0.2	6.9	3.2	8.1
CV				65.36	55.47	47.56	20.56	0.27	8.11	3.55	9.52
Bartlett's X2				7.455	20.421	24.215	14.592	0.083	34.464	1.939	31.425
P(Bartlett's X2)				0.024*	0.026*	0.002*	0.103	0.959	0.001*	0.379	0.001*

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

University of Georgia

Weed Code	CUMSA	CUMSA	CUMSA	plant 1	plant 2	plant 3	plant 4	plant 5	
Crop Code	# per plot	# per plot	# per plot	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Rating Data Type	plants	plants	plants	ht	ht	ht	ht	ht	
Rating Unit	plants	plants	plants	cm	cm	cm	cm	cm	
Rating Date	Mar-21-06	Mar-29-06	Apr-07-06	Apr-04-06	Apr-04-06	Apr-04-06	Apr-04-06	Apr-04-06	
Trt-Eval Interval	13 DA-A	21 DA-A	30 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	
		9	10	11	12	13	14	15	16
1 V-10142 COC	0.1 LB A/A 1 % V/V	20 a	20 a	19 a	19 a	19 ab	20 a	20 a	20 ab
2 V-10142 COC	0.2 LB A/A 1 % V/V	20 a	20 a	20 a	22 a	22 a	20 a	21 a	20 ab
3 V-10142 COC	0.3 LB A/A 1 % V/V	20 a	20 a	20 a	18 a	19 ab	19 a	19 ab	19 ab
4 Sandea NIS	1 OZ/A 0.25 % V/V	20 a	20 a	19 a	21 a	20 ab	20 a	17 ab	19 ab
5 Chateau COC	3 OZ/A 1 % V/V	20 a	20 a	20 a	23 a	21 a	21 a	21 a	23 a
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	20 a	20 a	20 a	19 a	19 ab	20 a	21 a	21 ab
7 Non-treated		20 a	15 a	19 a	21 a	22 a	22 a	19 ab	15 b
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	20 a	20 a	17 a	21 a	18 ab	23 a	21 a	20 ab
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	20 a	19 a	18 a	18 a	21 a	20 a	19 ab	18 ab
10 Chateau	3 OZ/A	20 ab	18 a	17 a	19 a	19 ab	22 a	21 a	23 a
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	19 b	15 a	15 b	19 a	16 ab	13 b	14 b	17 ab
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	20 ab	18 a	18 a	17 a	13 b	18 a	16 ab	19 ab
LSD (P=.05)		0.5	4.9	2.5	7.0	6.5	4.8	5.3	5.8
Standard Deviation		0.3	3.4	1.7	4.8	4.5	3.3	3.7	4.0
CV		1.68	18.04	9.27	24.57	23.74	17.01	19.4	20.98
Bartlett's X2		1.782	26.996	27.557	13.303	7.14	19.679	11.908	10.098
P(Bartlett's X2)		0.41	0.001*	0.004*	0.274	0.788	0.05*	0.371	0.522

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

University of Georgia

Weed Code	plant 6	plant 7	plant 8	plant 9	plant 10	Avg10pla	plant 1	plant 2	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-04-06	Apr-04-06	Apr-04-06	Apr-04-06	Apr-04-06	Apr-04-06	Apr-20-06	Apr-20-06	
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	43 DA-A	43 DA-A	
ARM Action Codes						T9			
# Subsamples, Dec.						1			
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	
		17	18	19	20	21	22	23	24
1 V-10142 COC	0.1 LB A/A 1 % V/V	21 ab	19 a	20 abc	21 a	24 a	20.2 ab	59 a	79 a
2 V-10142 COC	0.2 LB A/A 1 % V/V	17 b	20 a	23 a	20 a	21 ab	20.6 ab	71 a	67 ab
3 V-10142 COC	0.3 LB A/A 1 % V/V	21 ab	18 a	23 a	17 a	19 ab	19.1 abc	74 a	66 ab
4 Sandea NIS	1 OZ/A 0.25 % V/V	19 ab	19 a	20 abc	20 a	18 ab	19.2 abc	65 a	59 ab
5 Chateau COC	3 OZ/A 1 % V/V	24 a	21 a	20 abc	24 a	22 ab	21.8 a	52 a	56 ab
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	22 ab	15 a	21 abc	21 a	22 ab	19.8 ab	45 a	58 ab
7 Non-treated		18 ab	18 a	22 ab	21 a	21 ab	19.6 abc	66 a	69 ab
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	22 ab	19 a	18 abc	21 a	18 ab	19.8 ab	47 a	38 b
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	20 ab	17 a	18 abc	20 a	21 ab	19.0 abc	48 a	46 ab
10 Chateau	3 OZ/A	20 ab	20 a	21 abc	20 a	20 ab	20.4 ab	59 a	39 b
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	17 b	16 a	14 c	17 a	14 b	15.7 c	48 a	53 ab
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	16 b	19 a	15 bc	20 a	18 ab	17.1 bc	69 a	64 ab
LSD (P=.05)		5.4	7.0	6.2	5.8	7.0	3.55	26.2	32.5
Standard Deviation		3.8	4.8	4.3	4.0	4.8	2.46	18.2	22.5
CV		19.29	26.39	22.13	20.05	24.38	12.71	31.13	38.99
Bartlett's X2		14.234	11.273	13.032	11.393	22.435	17.381	22.289	22.702
P(Bartlett's X2)		0.22	0.421	0.291	0.411	0.021*	0.097	0.022*	0.019*

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

Column 22: T9 = @AVG([C12].[C21])

University of Georgia

Weed Code	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-20-06	Apr-20-06	Apr-20-06	Apr-20-06	Apr-20-06	Apr-20-06	Apr-20-06	Apr-20-06	
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Rate Unit	25	26	27	28	29	30	31	32
1 V-10142 COC	0.1 LB A/A 1 % V/V	79 a	59 a-e	79 a	69 abc	60 ab	72 ab	73 ab	29 bc
2 V-10142 COC	0.2 LB A/A 1 % V/V	67 ab	86 a	77 ab	84 a	54 ab	74 ab	64 abc	56 ab
3 V-10142 COC	0.3 LB A/A 1 % V/V	57 abc	74 ab	72 ab	84 a	80 a	81 a	72 ab	78 a
4 Sandea NIS	1 OZ/A 0.25 % V/V	72 a	60 a-e	65 abc	63 a-d	57 ab	62 a-d	63 abc	56 ab
5 Chateau COC	3 OZ/A 1 % V/V	34 bcd	34 de	20 d	33 de	40 ab	46 bcd	34 c	4 c
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	28 cd	44 b-e	45 bcd	36 cde	50 ab	34 d	37 bc	33 abc
7 Non-treated		48 a-d	73 abc	30 d	82 a	61 ab	73 ab	81 a	59 ab
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	20 d	36 cde	37 cd	55 a-e	21 b	50 a-d	30 c	35 abc
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	50 a-d	26 e	51 a-d	25 e	40 ab	51 a-d	41 bc	30 bc
10 Chateau	3 OZ/A	63 ab	65 a-d	76 ab	72 ab	17 b	68 abc	56 abc	48 abc
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	55 abc	47 b-e	48 a-d	42 b-e	53 ab	40 cd	46 abc	7 c
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	60 abc	49 b-e	49 a-d	65 a-d	59 ab	47 bcd	47 abc	34 abc
LSD (P=.05)		29.5	32.1	28.3	30.4	41.2	28.2	32.3	40.3
Standard Deviation		20.4	22.2	19.6	21.1	28.6	19.5	22.4	27.9
CV		38.88	40.95	36.31	35.67	58.18	33.71	41.7	71.67
Bartlett's X2		13.161	10.664	20.071	38.761	11.697	27.172	13.706	14.811
P(Bartlett's X2)		0.283	0.472	0.044*	0.001*	0.387	0.004*	0.25	0.191

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

University of Georgia

Weed Code	Avg10pla	biomass	harv1	harv1	harv1	harv1	harv 2	harv 2	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Rating Data Type	ht	10plts/plot	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	cm	wt/kg	fruit	fruit	cull	cull	fruit	fruit	
Rating Date	Apr-20-06	Apr-10-06	Apr-21-06	Apr-21-06	Apr-21-06	Apr-21-06	Apr-24-06	Apr-24-06	
Trt-Eval Interval	43 DA-A	33 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	47 DA-A	47 DA-A	
ARM Action Codes	T10								
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	33	34	35	36	37	38	39	40
1 V-10142 COC	0.1 LB A/A 1 % V/V	66 ab	1 a	2 ab	1 bc	0 b	0 b	6 a	3 a
2 V-10142 COC	0.2 LB A/A 1 % V/V	70 ab	1 a	3 ab	1 ab	0 b	0 b	3 bcd	2 bcd
3 V-10142 COC	0.3 LB A/A 1 % V/V	74 a	1 a	4 a	2 a	1 ab	0 ab	6 ab	2 ab
4 Sandea NIS	1 OZ/A 0.25 % V/V	62 ab	1 a	1 b	1 bc	1 a	0 a	7 a	3 a
5 Chateau COC	3 OZ/A 1 % V/V	35 e	1 ab	0 b	0 c	0 b	0 b	0 d	0 e
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	41 cde	1 ab	0 b	0 c	0 b	0 b	0 d	0 e
7 Non-treated		64 ab	1 ab	1 b	1 bc	0 b	0 b	4 abc	2 abc
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	37 de	1 ab	0 b	0 c	0 b	0 b	0 d	0 e
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	41 cde	1 ab	0 b	0 c	0 b	0 b	1 cd	0 e
10 Chateau	3 OZ/A	56 abc	1 ab	1 b	0 bc	1 ab	0 ab	4 abc	2 ab
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	44 cde	0 c	1 b	0 bc	0 b	0 b	2 cd	1 cde
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	54 bcd	0 bc	0 b	0 bc	0 ab	0 ab	1 cd	1 de
LSD (P=.05)		16.9	0.2	2.1	0.9	0.5	0.2	2.9	1.4
Standard Deviation		11.7	0.2	1.5	0.6	0.4	0.1	2.0	1.0
CV		21.83	27.75	137.13	129.01	225.63	220.72	73.36	68.45
Bartlett's X2		12.828	14.012	11.015	7.541	1.594	1.271	4.413	4.477
P(Bartlett's X2)		0.305	0.232	0.138	0.375	0.661	0.736	0.818	0.724

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

Column 33: T10 = @AVG([23].[32])

University of Georgia

Weed Code	harv 2 CUMSA	harv 2 CUMSA	harv 3 CUMSA	harv 3 CUMSA	harv 3 CUMSA	harv 3 CUMSA	harv 4 CUMSA	harv 4 CUMSA	
Crop Code	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Data Type	cull	cull	fruit	fruit	cull	cull	fruit	fruit	
Rating Unit									
Rating Date	Apr-24-06	Apr-24-06	Apr-27-06	Apr-27-06	Apr-27-06	Apr-27-06	May-01-06	May-01-06	
Trt-Eval Interval	47 DA-A	47 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	54 DA-A	54 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Rate Unit	41	42	43	44	45	46	47	48
1 V-10142 COC	0.1 LB A/A 1 % V/V	0 a	0 a	8 ab	5 ab	0 c	0 c	3 b	2 ab
2 V-10142 COC	0.2 LB A/A 1 % V/V	0 a	0 a	9 a	5 a	2 ab	1 a	7 a	3 a
3 V-10142 COC	0.3 LB A/A 1 % V/V	0 a	0 a	7 abc	4 ab	2 ab	1 ab	3 bc	2 ab
4 Sandea NIS	1 OZ/A 0.25 % V/V	0 a	0 a	6 abc	3 abc	0 bc	0 bc	4 ab	2 ab
5 Chateau COC	3 OZ/A 1 % V/V	0 a	0 a	1 c	0 c	1 abc	0 abc	2 bc	1 bc
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	0 a	0 a	3 bc	1 bc	1 abc	0 abc	0 c	0 c
7 Non-treated		0 a	0 a	10 a	6 a	0 c	0 c	3 b	2 ab
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	0 a	0 a	2 c	1 c	2 a	1 a	1 bc	1 bc
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	0 a	0 a	1 c	0 c	1 abc	0 abc	0 c	0 c
10 Chateau	3 OZ/A	0 a	0 a	5 abc	3 abc	0 c	0 c	3 bc	1 bc
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	0 a	0 a	6 abc	3 abc	0 bc	0 bc	3 bc	2 ab
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	0 a	0 a	9 ab	4 ab	0 c	0 c	3 bc	1 bc
LSD (P=.05)		0.0	0.0	5.2	2.9	1.1	0.4	2.7	1.4
Standard Deviation		0.0	0.0	3.6	2.0	0.8	0.3	1.9	1.0
CV		0.0	0.0	65.57	68.15	105.52	116.86	70.62	71.64
Bartlett's X2		0.0	0.0	13.788	17.899	9.778	18.214	12.81	11.181
P(Bartlett's X2)		.	.	0.245	0.084	0.134	0.011*	0.171	0.263

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

University of Georgia

Weed Code	harv 4 CUMSA	harv 4 CUMSA	harv 5 CUMSA	harv 5 CUMSA	harv 5 CUMSA	harv 5 CUMSA	harv 6 CUMSA	harv 6 CUMSA	
Crop Code									
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	cull	cull	fruit	fruit	cull	cull	fruit	fruit	
Rating Date	May-01-06	May-01-06	May-03-06	May-03-06	May-03-06	May-03-06	May-05-06	May-05-06	
Trt-Eval Interval	54 DA-A	54 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	58 DA-A	58 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment									
No. Name									
Rate									
Rate Unit									
	49	50	51	52	53	54	55	56	
1 V-10142 COC	0.1 LB A/A 1 % V/V	2 ab	1 abc	5 b	2 b	0 a	0 a	11 ab	4 ab
2 V-10142 COC	0.2 LB A/A 1 % V/V	2 ab	1 abc	5 b	2 bc	0 a	0 a	7 bcd	3 bcd
3 V-10142 COC	0.3 LB A/A 1 % V/V	3 a	1 a	8 a	4 a	0 a	0 a	8 bcd	2 bcd
4 Sandea NIS	1 OZ/A 0.25 % V/V	1 ab	0 abc	4 bc	2 bcd	0 a	0 a	15 a	5 a
5 Chateau COC	3 OZ/A 1 % V/V	0 b	0 bc	1 cd	1 cd	0 a	0 a	3 d	1 cd
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	0 b	0 bc	2 cd	0 cd	0 a	0 a	3 cd	1 cd
7 Non-treated		0 b	0 bc	3 bcd	1 bcd	0 a	0 a	10 abc	3 bc
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	0 b	0 c	1 d	0 d	0 a	0 a	2 d	0 d
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	0 b	0 c	1 d	0 d	0 a	0 a	3 cd	1 cd
10 Chateau	3 OZ/A	2 ab	1 abc	2 bcd	1 bcd	0 a	0 a	5 bcd	2 bcd
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	3 ab	1 ab	4 bcd	1 bcd	0 a	0 a	4 cd	1 cd
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	1 b	0 bc	3 bcd	1 bcd	0 a	0 a	4 cd	1 cd
LSD (P=.05)	2.0	0.7	2.7	1.2	0.4	0.1	5.8	1.9	
Standard Deviation	1.4	0.5	1.9	0.8	0.3	0.1	4.0	1.3	
CV	122.66	130.94	60.87	67.39	411.94	418.92	65.1	64.18	
Bartlett's X2	25.505	39.756	15.59	15.255	0.0	0.652	28.048	21.599	
P(Bartlett's X2)	0.004*	0.001*	0.157	0.171	0.001*	0.722	0.003*	0.028*	

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

University of Georgia

Weed Code	harv 6 CUMSA	harv 6 CUMSA	harv 7 CUMSA	harv 7 CUMSA	harv 7 CUMSA	harv 7 CUMSA	harv 7 CUMSA	harv1&2 CUMSA	harv1&2 CUMSA
Crop Code	#	wt/lb	#	wt/lb	#	wt/lb	#	#	wt/lb
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	#	wt/lb
Rating Unit	cull	cull	fruit	fruit	cull	cull	fruit	fruit	fruit
Rating Date	May-05-06	May-05-06	May-08-06	May-08-06	May-08-06	May-08-06	May-08-06	Nov-17-06	Nov-17-06
Trt-Eval Interval	58 DA-A	58 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A		
ARM Action Codes								T1	T2
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit
		57	58	59	60	61	62	63	64
1 V-10142 COC	0.1 LB A/A 1 % V/V	0 a	0 a	8 abc	4 abc	0 b	0 a	9 ab	4 a
2 V-10142 COC	0.2 LB A/A 1 % V/V	0 a	0 a	9 ab	4 abc	0 b	0 a	6 bcd	3 b
3 V-10142 COC	0.3 LB A/A 1 % V/V	0 a	0 a	11 a	5 a	2 a	0 a	10 a	4 a
4 Sandea NIS	1 OZ/A 0.25 % V/V	0 a	0 a	6 bcd	3 a-d	1 ab	0 a	8 abc	4 ab
5 Chateau COC	3 OZ/A 1 % V/V	0 a	0 a	2 d	1 f	1 ab	0 a	0 f	0 c
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	0 a	0 a	5 bcd	1 def	1 ab	0 a	0 f	0 c
7 Non-treated		0 a	0 a	9 ab	4 ab	1 ab	0 a	6 bcd	3 b
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	0 a	0 a	3 cd	1 ef	0 b	0 a	0 f	0 c
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	0 a	0 a	3 cd	1 def	0 b	0 a	1 ef	0 c
10 Chateau	3 OZ/A	0 a	0 a	6 bcd	3 b-e	1 ab	0 a	5 cde	3 b
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	0 a	0 a	5 bcd	2 c-f	0 b	0 a	2 def	1 c
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	0 a	0 a	8 abc	3 a-d	1 ab	0 a	2 ef	1 c
LSD (P=.05)		0.0	0.0	4.3	1.9	1.2	0.4	3.5	1.5
Standard Deviation		0.0	0.0	3.0	1.3	0.8	0.3	2.4	1.0
CV		0.0	0.0	48.08	47.44	170.48	189.34	62.32	54.93
Bartlett's X2		0.0	0.0	14.985	19.515	5.813	6.643	4.89	4.079
P(Bartlett's X2)		.	.	0.183	0.052	0.444	0.355	0.769	0.771

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

Column 63: T1 = ([C35]+[C39])

Column 64: T2 = ([C36]+[C40])

University of Georgia

Weed Code	harv1&2	harv1&2	harv1-7	harv1-7	harv1-7	harv1-7	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	cull	cull	fruit	fruit	cull	cull	
Rating Date	Nov-17-06	Nov-17-06	Nov-17-06	Nov-17-06	Nov-17-06	Nov-17-06	
Trt-Eval Interval							
ARM Action Codes	T3	T4	T5	T6	T7	T8	
# Subsamples, Dec.							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	
		65	66	67	68	69	70
1 V-10142 COC	0.1 LB A/A 1 % V/V	0 b	0 b	44 a	21 a	2 b	1 b
2 V-10142 COC	0.2 LB A/A 1 % V/V	0 b	0 b	42 a	19 a	4 ab	1 ab
3 V-10142 COC	0.3 LB A/A 1 % V/V	1 ab	0 ab	47 a	21 a	7 a	2 a
4 Sandea NIS	1 OZ/A 0.25 % V/V	1 a	0 a	43 a	18 a	3 b	1 ab
5 Chateau COC	3 OZ/A 1 % V/V	0 b	0 b	9 c	3 d	2 b	1 b
6 V-10142 Chateau COC	0.1 LB A/A 3 OZ/A 1 % V/V	0 b	0 b	12 c	5 cd	2 b	1 b
7 Non-treated		0 b	0 b	41 a	19 a	1 b	0 b
8 V-10142 Chateau COC	0.2 LB A/A 3 OZ/A 1 % V/V	0 b	0 b	8 c	3 d	2 b	1 b
9 V-10142 Chateau COC	0.3 LB A/A 3 OZ/A 1 % V/V	0 b	0 b	9 c	3 d	2 b	1 b
10 Chateau	3 OZ/A	1 ab	0 ab	26 b	13 b	3 b	1 ab
11 Chateau Dual Magnum	3 OZ/A 1.5 PT/A	0 b	0 b	23 b	10 bc	3 b	1 ab
12 Chateau Dual Magnum Sandea	3 OZ/A 1.5 PT/A 0.75 OZ/A	0 ab	0 ab	27 b	12 b	2 b	1 b
LSD (P=.05)		0.5	0.2	11.1	5.4	3.1	1.2
Standard Deviation		0.4	0.1	7.7	3.7	2.1	0.8
CV		225.63	220.72	28.07	30.35	81.6	90.86
Bartlett's X2		1.594	1.271	27.277	28.985	22.859	24.488
P(Bartlett's X2)		0.661	0.736	0.004*	0.002*	0.019*	0.011*

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

Column 65: T3 = ([C37]+[C41])

Column 66: T4 = ([C38]+[C42])

Column 67: T5 = ([C35]+[C39]+[C43]+[C47]+[C51]+[C55]+[C59])

Column 68: T6 = ([C36]+[C40]+[C44]+[C48]+[C52]+[C56]+[C60])

Column 69: T7 = ([C37]+[C41]+[C45]+[C49]+[C53]+[C57]+[C61])

Column 70: T8 = ([C38]+[C42]+[C46]+[C50]+[C54]+[C58]+[C62])

University of Georgia

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94	% OM: 6.4	Texture: Sand	
% Silt: 2	pH: 1.3	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	Mar-22-06
Time of Day:	8 am	6:20 pm
Application Method:	Broadcast	Broadcast
Application Timing:	RM-prepla	RM-postpl
Applic. Placement:	row middl	row middl
Air Temp., Unit:	64 F	59 F
% Relative Humidity:	37	47
Wind Velocity, Unit:	2 mph	1 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	64 F	64 F
Soil Moisture:	dry	dry
% Cloud Cover:	0	30

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CUMSA preplant	CUMSA postplant
Stage Scale:	no crop	5" runner
Height, Unit:	0 inch	5 inch

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	OEOLA preplant	OEOLA postplant
Stage Scale:	not up	1 inch
Density, Unit:	0 ydsq	8 ydsq
Weed 2 Code, Stage:	AMAPA preplant	AMAPA postplant
Stage Scale:	not up	0.5 inch
Density, Unit:	0 ydsq	3 ydsq

University of Georgia

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:	1.5 inch	1.5 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