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Cucurbit response to Reflex, Sinbar, and Dual Magnum.

Trial ID: Veg14-06
Location: Ponder 5138

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 35 feet
Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min 1.0804)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Plot No. By Rep			
										1	2	3	4
1	Reflex	2	L	L	0.5	PT/A	PRE	A	6.334 ml/mx	101	203	308	402
2	Reflex	2	L	L	1	PT/A	PRE	A	12.67 ml/mx	102	201	304	406
3	Reflex	2	L	L	2	PT/A	PRE	A	25.34 ml/mx	103	202	303	405
4	Sinbar	80	WP	WP	1.5	OZ/A	PRE	A	1.139 g/mx	104	207	305	401
5	Sinbar	80	WP	WP	3	OZ/A	PRE	A	2.277 g/mx	105	204	306	407
6	Sinbar	80	WP	WP	6	OZ/A	PRE	A	4.554 g/mx	106	208	302	408
7	Non-treated									107	206	301	404
8	Dual Magnum	7.62	L	L	12	OZ/A	PRE	A	9.502 ml/mx	108	205	307	403

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
55.421	ml	Reflex	2	L	
9.962	g	Sinbar	80	WP	
11.877	ml	Dual Magnum	7.62	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.

Trial Comments

OBJECTIVE: Determine squash, cucumber, and cantaloupe response to Sinbar, Reflex, and Dual Magnum.

VISUAL CROP RESPONSE:

1. Reflex caused less than 10% injury on seeded or transplant squash regardless of rate.
2. Reflex caused severe seeded and transplant cucumber injury.
3. Reflex at 0.5 pt/A caused little cantaloupe injury. Increasing the rate caused significant injury.
4. Sinbar at 1.5 oz/A caused less than 10% injury on seeded or transplant squash. Increasing the Sinbar rate to 3 oz on seeded squash caused significant and unacceptable injury while increasing the rate to 6 oz caused unacceptable injury on transplant squash.
5. Sinbar injured seeded cucumber at least 20% at some point in the season. Transplant cucumber were more tolerant but injury still exceeded 10% even with Sinbar at 1.5 oz/A.
6. Cantaloupe was tolerant to Sinbar up to 3 oz/A.
7. Dual Magnum did not impact squash growth, significantly stunted cucumber growth (16 to 45%), and stunted cantaloupe at most 8% at 45 DAT.

WILD RADISH RESPONSE:

1. Reflex provided excellent control. High Sinbar rates provided good control. Sinbar at lower rates and Dual Magnum suppressed radish growth.

CROP HEIGHT OR RUNNER LENGTHS (5 plants per plot measured):

1. Sinbar at 3 and 6 oz were the only treatments reducing seeded squash heights.
2. At 41 DAT, Reflex at 2 pt and all Sinbar rates reduced transplant squash heights. By 61 d, only plants treated with Sinbar at 6 oz had not recovered.
3. Seeded cucumber were negatively impacted by all treatments.
4. Sinbar at 1.5 and 3 oz were the only treatments not impacting transplant cucumber. Transplant cucumber did tend to recover from Dual PRE.
5. Cantaloupe appeared to be stunted by 1 and 2 pt/A of Reflex and 6 oz of Sinbar during early season.

YIELD (5 plant per plot):

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1. Seeded squash fruit number and weight was not impact by 0.5 and 1 pt of Reflex, 1.5 oz of Sinbar and Dual Magnum.
2. Transplant squash fruit number and weight was not impacted by 0.5 and 1 pt of Reflex, Dual Magnum, and 1.5 oz of Sinbar.

CROP BIOMASS (5 plant per plot).

1. Reflex, Sinbar 1.5 oz and Dual Magnum did not impact seeded or transplant squash.
2. Sinbar at 1.5 or 3 oz did not impact seeded cucumber growth.
3. Sinbar at 1.5 or 3 oz and Dual Mag did not impact transplant cucumber.
4. Reflex at 0.5 ad 1 pt, Sinbar at 1.5 oz, and Dual Magnum did not impact cantaloupe growth.

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Cucurbit response to Reflex, Sinbar, and Dual Magnum.

Trial ID: Veg14-06
Location: Ponder 5138

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Weed Code	seeded squash	seeded squash	seeded squash	seeded cucumber	seeded cucumber	seeded cucumber	transpla squash	transpla squash		
Crop Code										
Rating Data Type	injury	injury	injury	injury	injury	injury	injury	injury		
Rating Unit	%	%	%	%	%	%	%	%		
Rating Date	Mar-24-06	Apr-22-06	May-05-06	Mar-24-06	Apr-22-06	May-05-06	Mar-24-06	Apr-22-06		
Assessed By	SC	SC	SC	SC	SC	SC	SC	SC		
Trt-Eval Interval	16 DA-A	45 DA-A	58 DA-A	16 DA-A	45 DA-A	45 DA-A	16 DA-A	45 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
1	2	3	4	5	6	7	8			
1	Reflex	0.5	1	3	23	75	53	1	3	
		PT/A	b	c	c	a	bc	b	b	
2	Reflex	1	0	0	80	94	75	3	0	
		PT/A	b	c	ab	a	ab	b	b	
3	Reflex	2	8	3	100	95	95	8	0	
		PT/A	a	c	a	a	a	b	b	
4	Sinbar	1.5	3	5	5	23	10	9	5	
		OZ/A	b	c	c	bc	d	b	b	
5	Sinbar	3	0	35	8	30	20	8	0	
		OZ/A	b	b	c	bc	cd	b	b	
6	Sinbar	6	1	75	60	73	70	36	70	
		OZ/A	b	a	b	a	ab	a	a	
7	Non-treated		0	0	0	0	0	0	0	
			b	c	c	c	d	b	b	
8	Dual Magnum	12	0	0	23	38	45	1	0	
		OZ/A	b	c	c	b	bc	b	b	
LSD (P=.05)			4.6	18.0	18.6	26.1	33.6	32.6	11.0	16.0
Standard Deviation			3.2	12.2	12.6	17.7	22.9	22.1	7.5	10.9
CV			202.08	82.23	113.92	47.71	42.93	48.19	92.06	112.42
Bartlett's X2			3.785	14.333	12.389	9.387	12.455	14.187	14.797	8.139
P(Bartlett's X2)			0.286	0.006*	0.006*	0.095	0.053	0.028*	0.022*	0.017*

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

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Weed Code	transpla	transpla	transpla	transpla	transpla	transpla	transpla	RAPRA	
Crop Code	squash	cucumber	cucumber	cucumber	cantalou	cantalop	cantalou	injury	
Rating Data Type	injury	injury	injury	injury	injury	injury	injury	injury	
Rating Unit	%	%	%	%	%	%	%	%	
Rating Date	May-05-06	Mar-24-06	Apr-22-06	May-05-06	Mar-24-06	Apr-22-06	May-05-06	Mar-24-06	
Assessed By	SC	SC	SC	SC	SC	SC	SC	SC	
Trt-Eval Interval	58 DA-A	16 DA-A	45 DA-A	58 DA-A	16 DA-A	45 DA-A	58 DA-A	16 DA-A	
ARM Action Codes									
Trt No.	9	10	11	12	13	14	15	16	
Treatment Name									
Rate									
Unit									
1 Reflex	0.5 PT/A	8 b	11 c	74 b	65 b	0 c	4 cd	4 b	100 a
2 Reflex	1 PT/A	0 b	80 a	100 a	95 a	8 ab	14 c	6 b	100 a
3 Reflex	2 PT/A	0 b	70 a	100 a	95 a	11 a	44 a	23 a	100 a
4 Sinbar	1.5 OZ/A	5 b	3 c	11 cd	15 c	3 bc	0 d	5 b	70 b
5 Sinbar	3 OZ/A	0 b	4 c	13 cd	15 c	3 bc	11 cd	7 b	65 b
6 Sinbar	6 OZ/A	61 a	34 b	65 b	63 b	13 a	31 b	16 a	85 ab
7 Non-treated		0 b	0 c	0 d	0 c	0 c	0 d	0 b	0 c
8 Dual Magnum	12 OZ/A	0 b	16 c	23 c	23 c	8 ab	6 cd	1 b	68 b
LSD (P=.05)	16.9	17.4	19.9	24.1	6.1	11.8	9.1	26.4	
Standard Deviation	11.5	11.8	13.6	16.4	4.1	8.0	6.2	17.9	
CV	124.64	43.53	28.22	35.39	75.73	58.62	79.8	24.4	
Bartlett's X2	7.941	13.822	24.333	14.284	4.925	14.708	8.668	15.997	
P(Bartlett's X2)	0.019*	0.032*	0.001*	0.027*	0.425	0.012*	0.193	0.001*	

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

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Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	avg5plt	plant 1	plant 2			
Crop Code	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	May-08-06	May-08-06			
Assessed By											
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	61 DA-A	61 DA-A			
ARM Action Codes						T1					
Trt No.	Treatment Name	Rate	Unit	17	18	19	20	21	22	23	24
1	Reflex	0.5	PT/A	26 ab	28 a	30 a	27 ab	24 ab	27 a	52 ab	51 a
2	Reflex	1	PT/A	26 ab	27 a	28 a	27 ab	22 ab	26 a	50 ab	52 a
3	Reflex	2	PT/A	26 ab	26 a	26 a	23 ab	14 bc	23 a	48 ab	53 a
4	Sinbar	1.5	OZ/A	27 a	30 a	30 a	25 ab	23 ab	27 a	50 ab	54 a
5	Sinbar	3	OZ/A	19 b	20 a	21 a	15 bc	24 ab	20 a	47 ab	42 ab
6	Sinbar	6	OZ/A	7 c	5 b	7 b	5 c	2 c	5 b	35 b	24 b
7	Non-treated			29 a	31 a	28 a	29 a	29 ab	29 a	52 ab	57 a
8	Dual Magnum	12	OZ/A	26 ab	28 a	32 a	31 a	35 a	30 a	55 a	57 a
LSD (P=.05)				6.4	11.2	12.2	12.4	17.2	9.4	15.6	21.8
Standard Deviation				4.3	7.6	8.3	8.4	11.7	6.4	10.6	14.8
CV				18.79	31.27	33.01	36.96	54.91	27.27	21.79	30.4
Bartlett's X2				8.708	18.01	19.87	10.935	18.127	13.339	27.643	27.357
P(Bartlett's X2)				0.274	0.012*	0.006*	0.141	0.011*	0.064	0.001*	0.001*

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

Column 22: T1 = @AVG([C17].[C21])

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Weed Code	plant 3	plant 4	plant 5	avg5plt	plant1	plant 2	plant 3	plant 4	
Crop Code	sdsquash	sdsquash	sdsquash	sdsquash	trsquash	trsquash	trsquash	trsquash	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	May-08-06	May-08-06	May-08-06	May-08-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	
Assessed By									
Trt-Eval Interval	61 DA-A	61 DA-A	61 DA-A	61 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	
ARM Action Codes				T2					
Trt Treatment									
No. Name	25	26	27	28	29	30	31	32	
Rate									
Rate Unit									
1 Reflex	0.5 PT/A	55 ab	49 a	51 a	52 ab	31 ab	32 ab	28 ab	33 a
2 Reflex	1 PT/A	58 ab	51 a	57 a	53 a	29 ab	31 ab	30 ab	33 a
3 Reflex	2 PT/A	58 ab	56 a	54 a	54 a	23 ab	32 ab	27 ab	15 bc
4 Sinbar	1.5 OZ/A	58 ab	53 a	50 a	53 a	17 b	23 b	23 b	16 b
5 Sinbar	3 OZ/A	41 b	43 a	24 b	39 b	20 ab	24 ab	22 b	20 b
6 Sinbar	6 OZ/A	11 c	0 b	0 c	14 c	15 b	11 c	0 c	3 c
7 Non-treated		53 ab	52 a	56 a	54 a	30 ab	35 ab	32 ab	34 a
8 Dual Magnum	12 OZ/A	63 a	57 a	52 a	57 a	35 a	36 a	35 a	36 a
LSD (P=.05)		16.6	15.2	15.9	12.5	14.1	11.5	9.1	11.7
Standard Deviation		11.3	10.4	10.8	8.5	9.6	7.8	6.2	7.9
CV		22.83	23.06	25.11	18.14	38.7	28.07	25.09	33.43
Bartlett's X2		27.647	28.266	22.168	19.475	21.801	7.87	5.6	14.728
P(Bartlett's X2)		0.001*	0.001*	0.001*	0.007*	0.003*	0.344	0.469	0.04*

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

Column 28: T2 = @AVG([C23].[C27])

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Weed Code	plant 5	avg5plt	plant 1	plant 2	plant 3	plant 4	plant 5	avg5plt		
Crop Code	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash		
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht		
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm		
Rating Date	Apr-18-06	Apr-18-06	May-08-06	May-08-06	May-08-06	May-08-06	May-08-06	May-08-06		
Assessed By										
Trt-Eval Interval	41 DA-A	41 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A		
ARM Action Codes		T3						T4		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
33			34	35	36	37	38	39	40	
1	Reflex	0.5 PT/A	18 a-d	28 ab	46 ab	60 a	49 a	53 a	40 ab	49 a
2	Reflex	1 PT/A	32 abc	31 a	54 a	52 a	51 a	48 ab	54 a	52 a
3	Reflex	2 PT/A	14 cd	22 bc	50 ab	55 a	48 a	36 ab	26 ab	43 a
4	Sinbar	1.5 OZ/A	16 a-d	19 c	42 ab	46 a	49 a	46 ab	28 ab	42 a
5	Sinbar	3 OZ/A	15 bcd	20 c	44 ab	55 a	54 a	43 ab	36 ab	46 a
6	Sinbar	6 OZ/A	3 d	6 d	28 b	18 b	20 b	21 b	8 b	19 b
7	Non-treated		34 a	33 a	40 ab	50 a	46 a	53 a	51 a	48 a
8	Dual Magnum	12 OZ/A	33 ab	35 a	57 a	58 a	59 a	58 a	54 a	57 a
LSD (P=.05)			16.6	7.9	21.0	15.2	16.0	26.1	31.5	15.5
Standard Deviation			11.3	5.4	14.3	10.3	10.9	17.7	21.4	10.5
CV			54.98	22.03	31.79	21.06	23.13	39.76	57.85	23.62
Bartlett's X2			11.482	10.068	20.706	18.93	19.551	16.998	14.825	12.142
P(Bartlett's X2)			0.119	0.185	0.004*	0.008*	0.007*	0.017*	0.038*	0.096

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

Column 34: T3 = @AVG([C29].[C33])

Column 40: T4 = @AVG([C35].[C39])

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Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	avg5plt	plant 1	plant 2	
Crop Code	sdcucumb	sdcucumb	sdcucumb	sdcucumb	sdcucumb	sdcucumb	sdcucumb	sdcucumb	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	May-08-06	May-08-06	
Assessed By									
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	61 DA-A	
ARM Action Codes						T5			
Trt No.	41	42	43	44	45	46	47	48	
Treatment Name									
Rate									
Unit									
1 Reflex	0.5 PT/A	9 bcd	3 bc	4 bc	3 b	2 a	4 de	81 ab	37 bc
2 Reflex	1 PT/A	4 cd	8 abc	0 c	0 b	0 a	3 de	18 bc	39 bc
3 Reflex	2 PT/A	0 d	0 c	0 c	0 b	0 a	0 e	0 c	0 c
4 Sinbar	1.5 OZ/A	26 a	20 a	24 a	22 a	15 a	21 a	106 a	126 a
5 Sinbar	3 OZ/A	19 abc	18 ab	18 ab	11 ab	12 a	16 ab	97 a	75 abc
6 Sinbar	6 OZ/A	12 a-d	9 abc	8 abc	4 b	6 a	8 cd	43 abc	64 abc
7 Non-treated		23 ab	17 ab	18 ab	17 a	17 a	18 ab	102 a	112 ab
8 Dual Magnum	12 OZ/A	16 a-d	17 ab	12 abc	11 ab	9 a	13 bc	89 a	85 abc
LSD (P=.05)	14.8	14.5	15.0	11.1	17.1	6.2	60.6	75.9	
Standard Deviation	10.0	9.9	10.2	7.6	11.6	4.2	41.2	51.6	
CV	73.56	86.36	97.58	89.82	151.69	40.54	61.66	77.0	
Bartlett's X2	4.5	4.683	10.241	9.774	4.556	7.987	10.396	11.475	
P(Bartlett's X2)	0.609	0.585	0.069	0.082	0.472	0.239	0.109	0.075	

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

Column 46: T5 = @AVG([C41].[C45])

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Weed Code	plant 3	plant 4	plant 5	avg5plt	plant 1	plant 2	plant 3	plant 4	
Crop Code	sdcucumb	sdcucumb	sdcucumb	sdcucumb	trcucumb	trcucumb	trcucumb	trcucumb	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	May-08-06	May-08-06	May-08-06	May-08-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	
Assessed By									
Trt-Eval Interval	61 DA-A	61 DA-A	61 DA-A	61 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	
ARM Action Codes				T6					
Trt Treatment									
No. Name	49	50	51	52	53	54	55	56	
Rate Unit									
1 Reflex	0.5 PT/A	19 bc	16 b	0 a	31 cd	13 bc	11 b	12 cd	0 b
2 Reflex	1 PT/A	0 c	0 b	0 a	11 de	0 c	0 b	0 d	0 b
3 Reflex	2 PT/A	0 c	0 b	0 a	0 e	0 c	0 b	0 d	0 b
4 Sinbar	1.5 OZ/A	67 ab	29 ab	0 a	66 b	11 bc	37 a	28 abc	16 ab
5 Sinbar	3 OZ/A	86 a	37 ab	35 a	66 b	34 a	34 a	38 ab	32 a
6 Sinbar	6 OZ/A	7 c	25 ab	28 a	33 cd	12 bc	6 b	14 bcd	13 ab
7 Non-treated		113 a	96 a	32 a	91 a	22 ab	38 a	41 a	12 ab
8 Dual Magnum	12 OZ/A	24 bc	0 b	0 a	39 c	19 ab	18 ab	14 bcd	7 b
LSD (P=.05)		48.9	69.7	59.6	23.2	15.9	18.5	23.5	19.8
Standard Deviation		33.3	47.4	40.5	15.8	10.8	12.6	16.0	13.4
CV		84.45	187.77	342.94	37.56	77.78	70.5	87.03	134.43
Bartlett's X2		5.905	2.287	0.134	8.757	12.012	6.055	14.859	4.019
P(Bartlett's X2)		0.316	0.683	0.935	0.188	0.035*	0.301	0.011*	0.403

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

Column 52: T6 = @AVG([C47].[C51])

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Weed Code	plant 5	avg5plt	plant 1	plant 2	plant 3	plant 4	plant 5	avg5plt	
Crop Code	trcucumb	trcucumb	trcucumb	trcucumb	trcucumb	trcucumb	trcucumb	trcucumb	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-18-06	Apr-18-06	May-08-06	May-08-06	May-08-06	May-08-06	May-08-06	May-08-06	
Assessed By									
Trt-Eval Interval	41 DA-A	41 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	
ARM Action Codes		T7						T8	
Trt Treatment	Rate								
No. Name	Rate Unit	57	58	59	60	61	62	63	64
1 Reflex	0.5 PT/A	0 a	7 cd	66 a	18 c	0 c	0 b	0 a	17 cd
2 Reflex	1 PT/A	0 a	0 d	10 bc	0 c	0 c	0 b	0 a	2 d
3 Reflex	2 PT/A	0 a	0 d	0 c	0 c	0 c	0 b	0 a	0 d
4 Sinbar	1.5 OZ/A	7 a	20 abc	108 a	117 a	91 a	42 ab	0 a	71 a
5 Sinbar	3 OZ/A	12 a	30 a	107 a	95 ab	81 ab	70 a	0 a	71 a
6 Sinbar	6 OZ/A	5 a	10 cd	59 ab	66 b	46 b	32 ab	0 a	41 bc
7 Non-treated		19 a	26 ab	83 a	118 a	117 a	0 b	0 a	64 ab
8 Dual Magnum	12 OZ/A	11 a	14 bcd	66 a	81 ab	96 a	0 b	0 a	49 ab
LSD (P=.05)		20.6	15.0	49.7	45.7	35.7	49.6	0.0	24.0
Standard Deviation		14.0	10.2	33.8	31.1	24.3	33.7	0.0	16.3
CV		213.88	76.34	54.28	50.26	45.06	188.17	0.0	41.71
Bartlett's X2		2.888	7.964	3.507	8.468	6.156	0.316	0.0	24.591
P(Bartlett's X2)		0.577	0.158	0.743	0.132	0.188	0.854	.	0.001*

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

Column 58: T7 = @AVG([C53].[C57])

Column 64: T8 = @AVG([C59].[C63])

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Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	avg5plt	plant 1	plant 2			
Crop Code	cantalou	cantalou	cantalou	cantalou	cantalou	cantalou	cantalou	cantalou			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	Apr-18-06	May-08-06	May-08-06			
Assessed By	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	61 DA-A	61 DA-A			
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	61 DA-A	61 DA-A			
ARM Action Codes						T9					
Trt No.	Treatment Name	Rate	Unit	65	66	67	68	69	70	71	72
1	Reflex	0.5	PT/A	31 a	32 ab	29 ab	38 a	30 abc	32 a	129 a	154 a
2	Reflex	1	PT/A	27 a	20 b	17 bc	16 b	18 abc	19 ab	135 a	124 a
3	Reflex	2	PT/A	17 a	25 ab	5 c	16 b	17 bc	16 b	131 a	116 a
4	Sinbar	1.5	OZ/A	35 a	32 ab	37 a	36 a	20 abc	32 a	124 a	142 a
5	Sinbar	3	OZ/A	15 a	41 a	40 a	34 a	16 c	29 a	147 a	129 a
6	Sinbar	6	OZ/A	19 a	23 ab	18 bc	32 a	38 a	26 ab	133 a	141 a
7	Non-treated			29 a	29 ab	28 ab	29 ab	25 abc	28 ab	159 a	148 a
8	Dual Magnum	12	OZ/A	25 a	32 ab	28 ab	24 ab	37 ab	29 a	118 a	135 a
LSD (P=.05)				24.1	16.8	15.0	13.6	18.2	11.3	54.1	42.7
Standard Deviation				16.4	11.4	10.2	9.3	12.4	7.7	36.8	29.0
CV				66.87	38.99	40.52	33.03	49.16	29.0	27.34	21.34
Bartlett's X2				6.314	8.488	9.409	5.567	5.669	14.448	2.962	5.751
P(Bartlett's X2)				0.504	0.292	0.225	0.591	0.579	0.044*	0.889	0.569

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

Column 70: T9 = @AVG([C65].[C69])

University of Georgia

Weed Code	plant 3	plant 4	plant 5	avg5plt	harv 1	harv 1	harv 1	harv 1	
Crop Code	cantalou	cantalou	cantalou	cantalou	sdsquash	sdsquash	sdsquash	sdsquash	
Rating Data Type	ht	ht	ht	ht	#	wt/lb	#	wt/lb	
Rating Unit	cm	cm	cm	cm	fruit	fruit	cull	cull	
Rating Date	May-08-06	May-08-06	May-08-06	May-08-06	Apr-21-06	Apr-21-06	Apr-21-06	Apr-21-06	
Assessed By									
Trt-Eval Interval	61 DA-A	61 DA-A	61 DA-A	61 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	
ARM Action Codes				T10					
Trt Treatment	Rate								
No. Name	Rate Unit	73	74	75	76	77	78	79	80
1 Reflex	0.5 PT/A	136 a	143 a	62 a	125 a	0 a	0 a	0 a	0 a
2 Reflex	1 PT/A	111 a	117 a	32 a	104 a	0 a	0 a	0 a	0 a
3 Reflex	2 PT/A	83 a	69 a	26 a	85 a	0 a	0 a	0 a	0 a
4 Sinbar	1.5 OZ/A	151 a	139 a	122 a	136 a	0 a	0 a	0 a	0 a
5 Sinbar	3 OZ/A	145 a	147 a	39 a	121 a	0 a	0 a	0 a	0 a
6 Sinbar	6 OZ/A	118 a	116 a	95 a	120 a	0 a	0 a	0 a	0 a
7 Non-treated		135 a	108 a	73 a	125 a	0 a	0 a	0 a	0 a
8 Dual Magnum	12 OZ/A	104 a	149 a	116 a	124 a	0 a	0 a	0 a	0 a
LSD (P=.05)		64.2	78.4	109.2	45.5	0.3	0.1	0.0	0.0
Standard Deviation		43.7	53.3	74.2	31.0	0.2	0.1	0.0	0.0
CV		35.55	43.18	105.16	26.36	565.69	565.69	0.0	0.0
Bartlett's X2		6.243	15.121	1.997	8.863	0.0	0.0	0.0	0.0
P(Bartlett's X2)		0.512	0.034*	0.96	0.263

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

Column 76: T10 = @AVG([C71].[C75])

University of Georgia

Weed Code		harv 2	harv 2	harv 2	harv 2	harv 3	harv 3	harv 3	harv 3
Crop Code		sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash
Rating Data Type		#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit		fruit	fruit	cull	cull	fruit	fruit	cull	cull
Rating Date		Apr-24-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-28-06	Apr-28-06	Apr-28-06	Apr-28-06
Assessed By									
Trt-Eval Interval		44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A
ARM Action Codes									
Trt No.	Treatment Name	Rate							
		Rate Unit	81	82	83	84	85	86	87
1	Reflex	0.5 PT/A	6 ab	1 ab	0 a	0 a	6 b	1 a	0 a
2	Reflex	1 PT/A	5 abc	1 ab	0 a	0 a	7 ab	1 a	0 a
3	Reflex	2 PT/A	4 bc	1 ab	0 a	0 a	6 b	1 ab	0 a
4	Sinbar	1.5 OZ/A	5 abc	1 ab	0 a	0 a	6 b	1 ab	0 a
5	Sinbar	3 OZ/A	3 cd	1 ab	0 a	0 a	3 c	1 bc	0 a
6	Sinbar	6 OZ/A	0 d	0 b	0 a	0 a	0 d	0 c	0 a
7	Non-treated		6 ab	1 a	0 a	0 a	7 b	1 a	0 a
8	Dual Magnum	12 OZ/A	8 a	1 a	0 a	0 a	9 a	1 a	0 a
LSD (P=.05)			2.9	1.0	0.3	0.1	2.3	0.5	0.3
Standard Deviation			2.0	0.7	0.2	0.0	1.6	0.3	0.2
CV			43.86	76.7	565.69	565.69	27.73	34.79	565.69
Bartlett's X2			2.704	14.556	0.0	0.0	10.184	9.296	0.0
P(Bartlett's X2)			0.845	0.024*	.	.	0.178	0.232	.

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

University of Georgia

Weed Code	harv 4	harv 4	harv 4	harv 4	harv 5	harv 5	harv 5	harv 5			
Crop Code	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash			
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb			
Rating Unit	fruit	fruit	cull	cull	fruit	fruit	cull	cull			
Rating Date	May-02-06	May-02-06	May-02-06	May-02-06	May-05-06	May-05-06	May-05-06	May-05-06			
Assessed By											
Trt-Eval Interval	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	89	90	91	92	93	94	95	96
1	Reflex	0.5	PT/A	11 a	2 a	0 a	0 a	14 a	3 a	0 a	0 a
2	Reflex	1	PT/A	7 ab	2 ab	0 a	0 a	13 a	3 a	1 a	0 a
3	Reflex	2	PT/A	5 bc	1 bc	0 a	0 a	15 a	3 a	0 a	0 a
4	Sinbar	1.5	OZ/A	5 bc	1 abc	0 a	0 a	13 a	3 a	2 a	0 a
5	Sinbar	3	OZ/A	3 bc	1 bc	0 a	0 a	6 b	1 b	0 a	0 a
6	Sinbar	6	OZ/A	1 c	0 c	0 a	0 a	2 b	0 b	0 a	0 a
7	Non-treated			6 b	2 ab	0 a	0 a	15 a	4 a	0 a	0 a
8	Dual Magnum	12	OZ/A	7 ab	2 ab	1 a	0 a	15 a	5 a	1 a	0 a
LSD (P=.05)				4.3	1.0	0.5	0.3	6.0	1.6	2.1	0.5
Standard Deviation				2.9	0.7	0.4	0.2	4.1	1.1	1.5	0.4
CV				52.87	52.96	238.09	287.71	35.61	36.51	309.35	354.34
Bartlett's X2				8.177	9.511	0.093	5.159	4.014	6.728	6.452	6.913
P(Bartlett's X2)				0.317	0.218	0.993	0.161	0.778	0.458	0.092	0.032*

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

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Weed Code	hav1&2	harv1&2	harv1-5	harv1-5	harv1&2	harv1&2	harv1-5	harv1-5	
Crop Code	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	sdsquash	
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	fruit	fruit	fruit	fruit	cull	cull	cull	cull	
Rating Date									
Assessed By									
Trt-Eval Interval									
ARM Action Codes	T11	T12	T13	T14	T15	T16	T17	T18	
Trt Treatment	Rate								
No. Name	Rate Unit	97	98	99	100	101	102	103	104
1 Reflex	0.5 PT/A	6 abc	1 ab	37 ab	8 ab	0 a	0 a	0 a	0 a
2 Reflex	1 PT/A	5 abc	1 ab	32 ab	7 ab	0 a	0 a	1 a	0 a
3 Reflex	2 PT/A	4 bc	1 ab	30 ab	6 bc	0 a	0 a	0 a	0 a
4 Sinbar	1.5 OZ/A	5 abc	1 ab	29 b	6 ab	0 a	0 a	2 a	1 a
5 Sinbar	3 OZ/A	3 cd	1 ab	15 c	4 c	0 a	0 a	0 a	0 a
6 Sinbar	6 OZ/A	0 d	0 b	3 d	1 d	0 a	0 a	0 a	0 a
7 Non-treated		7 ab	1 a	34 ab	8 ab	0 a	0 a	0 a	0 a
8 Dual Magnum	12 OZ/A	8 a	1 a	39 a	9 a	0 a	0 a	2 a	0 a
LSD (P=.05)		3.0	1.0	9.4	2.6	0.3	0.1	2.3	0.6
Standard Deviation		2.0	0.7	6.4	1.8	0.2	0.0	1.5	0.4
CV		44.71	77.11	23.64	29.11	565.69	565.69	225.28	228.08
Bartlett's X2		1.738	13.074	8.903	6.364	0.0	0.0	20.014	21.789
P(Bartlett's X2)		0.942	0.042*	0.26	0.498	.	.	0.003*	0.001*

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

Column 97: T11 = ([C77]+[C81])

Column 98: T12 = ([C78]+[C82])

Column 99: T13 = ([C77]+[C81]+[C85]+[C89]+[C93])

Column 100: T14 = ([C78]+[C82]+[C86]+[C90]+[C94])

Column 101: T15 = ([C79]+[C83])

Column 102: T16 = ([C80]+[C84])

Column 103: T17 = ([C79]+[C83]+[C87]+[C91]+[C95])

Column 104: T18 = ([C80]+[C84]+[C88]+[C92]+[C96])

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Weed Code	harv 1	harv 1	harv 1	harv 1	harv 2	harv 2	harv 2	harv 2	harv 3		
Crop Code	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash		
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#		
Rating Unit	fruit	fruit	cull	cull	fruit	fruit	cull	cull	fruit		
Rating Date	Apr-21-06	Apr-21-06	Apr-21-06	Apr-21-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-26-06		
Assessed By	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A		
Trt-Eval Interval	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A		
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No.	Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
105			106	107	108	109	110	111	112	113	
1	Reflex	0.5 PT/A	6 a	2 a	1 ab	0 b	5 b	2 ab	0 a	0 a	7 a
2	Reflex	1 PT/A	6 a	2 a	0 b	0 b	6 ab	2 ab	0 a	0 a	6 a
3	Reflex	2 PT/A	3 a	1 a	0 b	0 b	4 b	1 bc	0 a	0 a	6 a
4	Sinbar	1.5 OZ/A	4 a	1 a	0 b	0 b	5 b	1 b	0 a	0 a	4 ab
5	Sinbar	3 OZ/A	5 a	1 a	0 b	0 b	5 ab	1 ab	0 a	0 a	6 a
6	Sinbar	6 OZ/A	3 a	1 a	0 b	0 b	1 c	0 c	0 a	0 a	1 b
7	Non-treated		5 a	1 a	2 a	1 a	6 ab	2 ab	0 a	0 a	7 a
8	Dual Magnum	12 OZ/A	5 a	1 a	0 b	0 b	8 a	3 a	0 a	0 a	6 a
LSD (P=.05)			4.6	1.4	1.6	0.3	3.1	1.1	0.0	0.0	4.0
Standard Deviation			3.1	0.9	1.1	0.2	2.1	0.7	0.0	0.0	2.8
CV			69.06	80.49	290.96	282.67	42.88	49.2	0.0	0.0	53.02
Bartlett's X2			6.876	9.026	0.882	0.946	6.09	10.33	0.0	0.0	4.695
P(Bartlett's X2)			0.442	0.251	0.348	0.331	0.529	0.171	.	.	0.697

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

University of Georgia

Weed Code	harv 3	harv 3	harv 3	harv 4	harv 4	harv 4	harv 4	harv 5		
Crop Code	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash		
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#		
Rating Unit	fruit	cull	cull	fruit	fruit	cull	cull	fruit		
Rating Date	Apr-26-06	Apr-26-06	Apr-26-06	Apr-28-06	Apr-28-06	Apr-28-06	Apr-28-06	May-02-06		
Assessed By										
Trt-Eval Interval	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
114			115		116		117			
118							119			
120								121		
1	Reflex	0.5 PT/A	2 a	0 a	0 a	6 ab	1 ab	0 a	0 a	10 a
2	Reflex	1 PT/A	2 a	1 a	0 a	9 a	1 a	0 a	0 a	10 a
3	Reflex	2 PT/A	1 ab	1 a	0 a	5 bc	1 b	0 a	0 a	10 a
4	Sinbar	1.5 OZ/A	1 ab	1 a	0 a	5 bc	1 b	0 a	0 a	11 a
5	Sinbar	3 OZ/A	2 a	1 a	0 a	5 bc	1 b	0 a	0 a	10 a
6	Sinbar	6 OZ/A	0 b	0 a	0 a	2 c	0 c	0 a	0 a	3 b
7	Non-treated		2 a	1 a	0 a	8 ab	1 a	0 a	0 a	10 a
8	Dual Magnum	12 OZ/A	2 a	1 a	0 a	8 ab	1 ab	0 a	0 a	10 a
LSD (P=.05)			1.3	1.9	0.2	3.3	0.5	0.0	0.0	4.7
Standard Deviation			0.9	1.3	0.1	2.2	0.3	0.0	0.0	3.2
CV			61.26	191.43	178.54	37.57	37.4	0.0	0.0	34.49
Bartlett's X2			5.945	6.748	9.074	10.779	9.998	0.0	0.0	2.619
P(Bartlett's X2)			0.546	0.345	0.169	0.149	0.189	.	.	0.918

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

University of Georgia

Weed Code	harv 5	harv 5	harv 5	harv 6	harv 6	harv1&2	harv1&2	harv1-6	harv1-6								
Crop Code	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash	trsquash								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb								
Rating Unit	fruit	cull	cull	fruit	fruit	fruit	fruit	fruit	fruit								
Rating Date	May-02-06	May-02-06	May-02-06	May-05-06	May-05-06												
Assessed By																	
Trt-Eval Interval	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A												
ARM Action Codes						T21	T22	T19	T20								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate								
No.	Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit								
122			123		124		125		126		127		128		129		130
1	Reflex	0.5 PT/A	2 a	0 a	0 a	7 a	2 ab	11 ab	3 ab	41 a	10 a						
2	Reflex	1 PT/A	2 a	0 a	0 a	5 ab	1 abc	12 ab	4 ab	42 a	10 a						
3	Reflex	2 PT/A	2 a	0 a	0 a	6 ab	1 abc	7 bc	2 bc	33 a	7 a						
4	Sinbar	1.5 OZ/A	3 a	0 a	0 a	5 ab	1 abc	9 abc	2 abc	33 a	8 a						
5	Sinbar	3 OZ/A	3 a	0 a	0 a	4 ab	1 bc	10 abc	3 abc	34 a	9 a						
6	Sinbar	6 OZ/A	1 b	0 a	0 a	2 b	0 c	4 c	1 c	12 b	2 b						
7	Non-treated		2 a	0 a	0 a	6 ab	1 abc	11 ab	3 ab	42 a	9 a						
8	Dual Magnum	12 OZ/A	2 a	0 a	0 a	7 a	2 a	13 a	4 a	44 a	11 a						
LSD (P=.05)			1.4	0.3	0.1	3.6	1.1	5.5	1.8	11.9	3.7						
Standard Deviation			0.9	0.2	0.1	2.5	0.7	3.7	1.2	8.1	2.5						
CV			41.61	565.69	565.69	45.38	58.48	39.49	46.4	22.97	30.3						
Bartlett's X2			4.917	0.0	0.0	5.984	10.89	3.228	5.131	11.156	15.565						
P(Bartlett's X2)			0.67	.	.	0.542	0.143	0.863	0.644	0.132	0.029*						

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

Column 127: T21 = ([C105]+[C109])

Column 128: T22 = ([C106]+[C110])

Column 129: T19 = ([C105]+[C109]+[C113]+[C117]+[C121]+[C125])

Column 130: T20 = ([C106]+[C110]+[C114]+[C118]+[C122]+[C126])

University of Georgia

Weed Code	biomass	biomass	biomass	biomass	biomass	
Crop Code	sdsquash	trsquash	sdcucumb	trcucumb	cantalou	
Rating Data Type	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	
Rating Unit	plant	plant	plant	plant	plant	
Rating Date	May-09-06	May-09-06	May-09-06	May-09-06	May-09-06	
Assessed By						
Trt-Eval Interval	62 DA-A	62 DA-A	62 DA-A	62 DA-A	62 DA-A	
ARM Action Codes						
Trt No.	131	132	133	134	135	
Treatment Name						
Rate						
Unit						
1 Reflex	0.5 PT/A	21 a	21 ab	1 ab	0 bc	9 a
2 Reflex	1 PT/A	22 a	23 a	0 ab	0 c	7 ab
3 Reflex	2 PT/A	20 ab	20 ab	0 b	0 c	4 c
4 Sinbar	1.5 OZ/A	21 a	18 ab	2 a	2 a	9 a
5 Sinbar	3 OZ/A	13 b	15 b	3 a	2 a	7 ab
6 Sinbar	6 OZ/A	4 c	7 c	1 ab	1 b	5 bc
7 Non-treated		18 ab	18 ab	3 a	2 a	9 a
8 Dual Magnum	12 OZ/A	25 a	24 a	1 ab	2 a	9 a
LSD (P=.05)		7.0	7.2	2.1	0.6	2.4
Standard Deviation		4.7	4.9	1.4	0.4	1.6
CV		26.23	27.08	100.33	33.4	22.59
Bartlett's X2		6.075	15.359	15.541	26.626	7.025
P(Bartlett's X2)		0.531	0.032*	0.016*	0.001*	0.426

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

University of Georgia

Cucurbit response to Reflex, Sinbar, and Dual Magnum.

Trial ID: Veg14-06
 Location: Ponder 5138

Study Dir.: Stanley Culpepper
 Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31793	
Investigator: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31793	

TRIAL LOCATION

City: TyTy	Trial Status: completed
State/Prov.: Ga	Trial Reliability: excellent
Postal Code: 31795	Initiation Date: Feb-22-06
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: _____	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.	RAPRA	wild radish	

Crop 1: CUUPE SQUASH, SUMMER **Variety:** Enerprise
Planting Date: Mar-08-06 **Planting Method:** seeded
Rate: 1 per ft **Depth:** 0.5 in **Perennial Age:** _____
Row Spacing: 6 ft **Spacing Within Row:** 1 ft **Seed Bed:** raised bed
Soil Temperature: 68 F **Soil Moisture:** fair **Emergence Date:** Feb-27-06

Crop 2: CUUPE SQUASH, SUMMER **Variety:** Enerprise
Planting Date: Mar-08-06 **Planting Method:** transplant
Rate: 1 per ft **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 6 ft **Spacing Within Row:** 1 ft **Seed Bed:** raised bed
Soil Temperature: 68 F **Soil Moisture:** fair **Emergence Date:** Feb-27-06

Crop 3: CUMSA CUCUMBER **Variety:** Thunder
Planting Date: Mar-08-06 **Planting Method:** seeded
Rate: 1 per ft **Depth:** 0.5 in **Perennial Age:** _____
Row Spacing: 6 ft **Spacing Within Row:** 1 ft **Seed Bed:** raised bed
Soil Temperature: 68 F **Soil Moisture:** fair **Emergence Date:** Feb-27-06

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Crop 4: CUMSA CUCUMBER **Variety:** Thunder
Planting Date: Mar-08-06 **Planting Method:** transplanted
Rate: 1 per ft **Depth:** 1.5 in **Perennial Age:** ____
Row Spacing: 6 ft **Spacing Within Row:** 1 ft **Seed Bed:** raised bed
Soil Temperature: 68 F **Soil Moisture:** fair **Emergence Date:** Feb-27-06

Crop 5: CUMMC CANTALOUPE **Variety:** Athena
Planting Date: Mar-10-06 **Planting Method:** transplant
Rate: 1 per 2.5 ft **Depth:** 1.5 in **Perennial Age:** ____
Row Spacing: 6 ft **Spacing Within Row:** 2.5 ft **Seed Bed:** raised bed
Soil Temperature: 68 F **Soil Moisture:** fair **Emergence Date:** Feb-27-06

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 35 FT **Reps:** 4
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 **Texture:** loamy sand
% Silt: 4 **Soil Name:** Tifton sandy loamy
% Clay: 2 **Fert. Level:** _____
% OM: 1.1
pH: 6.4
CEC: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

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APPLICATION DESCRIPTION

	A
Application Date:	Mar-08-06
Time of Day:	8:00am
Application Method:	broadcast
Application Timing:	pre
Applic. Placement:	on soil
Air Temp., Unit:	65 F
% Relative Humidity:	68
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	68 F
Soil Moisture:	fair
% Cloud Cover:	15

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUUPE
Stage Scale:	pre
Height, Unit:	0 in
Crop 2 Code, Stage:	CUUPE
Stage Scale:	pre
Height, Unit:	0 in
Crop 3 Code, Stage:	CUMSA
Stage Scale:	pre
Height, Unit:	0 in
Crop 4 Code, Stage:	CUMSA
Stage Scale:	pre
Height, Unit:	0 in
Crop 5 Code, Stage:	CUMMC
Stage Scale:	pre
Height, Unit:	0 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	RAPRA PRE
Stage Scale:	not up
Density, Unit:	3 ydsq

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 in
Nozzles/Row:	4
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:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	N

Trt No	Treatment Application Comment