

University of Georgia

Transplant cantaloupe tolerance to Reflex and Sinbar.

Trial ID: Veg31-07
 Location: Cordele

Study Dir.: Tucker Price
 Investigator: Stanley Culpepper

Reps: 4 Plots: 12 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	Curbit Mulch	4	L		1	QT/A	PREPLANT	B	33.78 ml/mx		101	209	301	407
2	Curbit No Mulch	4	L		1	QT/A	POST	A	33.78 ml/mx		102	210	302	408
3	Curbit Reflex Mulch	4 2	L L		1 1	QT/A PT/A	PREPLANT	A A	33.78 ml/mx 16.89 ml/mx		103	203	309	403
4	Curbit Reflex No Mulch	4 2	L L		1 1	QT/A PT/A	POST PREPLANT	B A	33.78 ml/mx 16.89 ml/mx		104	204	310	404
5	Curbit Sinbar Mulch	4 80	L DF		1 3	QT/A OZ/A	PREPLANT	A A	33.78 ml/mx 3.036 g/mx		105	207	307	409
6	Curbit Sinbar No Mulch	4 80	L DF		1 3	QT/A OZ/A	POST PREPLANT	B A	33.78 ml/mx 3.036 g/mx		106	208	308	410
7	Curbit Sinbar Mulch	4 80	L DF		1 6	QT/A OZ/A	PREPLANT	A A	33.78 ml/mx 6.072 g/mx		107	205	303	401
8	Curbit Sinbar No Mulch	4 80	L DF		1 6	QT/A OZ/A	POST PREPLANT	B A	33.78 ml/mx 6.072 g/mx		108	206	304	402
9	Curbit Sinbar Reflex Mulch	4 80 2	L DF L		1 3 1	QT/A OZ/A PT/A	PREPLANT	A A A	33.78 ml/mx 3.036 g/mx 16.89 ml/mx		109	201	305	405
10	Curbit Sinbar Reflex No Mulch	4 80 2	L DF L		1 3 1	QT/A OZ/A PT/A	POST PREPLANT	B A A	33.78 ml/mx 3.036 g/mx 16.89 ml/mx		110	202	306	406

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
422.253	ml	Curbit	4	L	
84.451	ml	Reflex	2	L	
30.362	g	Sinbar	80	DF	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

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Trial Comments

OBJECTIVE: Determine cantaloupe tolerance to Sinbar and Reflex in bareground or mulched production systems.

INJURY:

1. On bareground 6 WAT, injury from Reflex and Sinbar alone or mixed caused 77 to 86% injury. Sinbar at 6 oz caused 98% injury.
2. On mulch, injury by Reflex alone, Sinbar alone at 3 oz, or Sinbar 3 oz plus Reflex caused less than 10% stunting. Sinbar at 6 oz stunted cantaloupe up to 21%.

WEED CONTROL:

1. Tropic Croton: At harvest, excellent control was noted with Sinbar treatments. The reflex in a mulched system was also very effective.
2. Palmer amaranth: At harvest, Curbit provided 70% control or less. Adding 3 oz of Sinbar to Curbit improved control to 87 to 91%. Control was excellent with all Reflex systems and with Sinbar at 6 oz/A.
3. Yellow nutsedge: At harvest, curbit provided no control. Sinbar at 3 oz provided 71% control while 6 oz provided 80 to 87% control. Reflex systems were generally the most effective systems.
4. Morningglory: At harvest, Curbit + Reflex provided less than 50% control while Sinbar provided at least 88% control. Combinations of Curbit, Reflex, and Sinbar provided less control than Sinbar plus Curbit likely because the Reflex in this system controlled nutsedge allowing greater morningglory emergence.

VINE GROWTH (AVG. 12 PLANT/PLOT twice during the season):

1. Mulched Plots: Compared to Curbit alone, only Sinbar at 6 oz reduced vine growth.
2. Bareground Plots: All treatments including Reflex or Sinbar greatly reduced vine growth.

YIELDS:

1. When totaling the first 4 harvests, the first 8 harvests or all 12 harvests in MULCHED systems: Programs using Reflex or Sinbar produced yields greater than Curbit only systems due to weed control.
2. When totaling the first 4 harvests, the first 8 harvests or all 12 harvests in a BAREGROUND system: All Reflex and Sinbar treatments reduced early harvest and tended to reduce harvest throughout the season.

GENERAL COMMENTS:

1. Mulched treatments were applied followed by irrigation 3 hours later. Transplants were planted 2 d later.

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Transplant cantaloupe tolerance to Reflex and Sinbar.

Trial ID: Veg31-07

Study Dir.: Tucker Price

Location: Cordele

Investigator: Stanley Culpepper

Weed Code	CUMMC	CUMMC	CYPES	CYPES	AMAPA	AMAPA	CVGNS	CVGNS	IPOLA		
Crop Code	Injury	Injury	control	control	control	control	control	control	control		
Rating Data Type	%	%	%	%	%	%	%	%	%		
Rating Unit	May-11-07	Jun-03-07	May-11-07	Jun-03-07	May-11-07	Jun-03-07	May-11-07	Jun-03-07	Jun-03-07		
Rating Date											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		1	2	4	5	6	7	8	9		
		10									
1	Curbit Mulch	1 QT/A	0 c	0 d	15 c	0 d	15 b	70 c	15 b	23 c	20 de
2	Curbit No Mulch	1 QT/A	0 c	0 d	0 d	0 d	0 c	63 d	0 c	0 d	0 e
3	Curbit Reflex Mulch	1 QT/A 1 PT/A	6 c	8 d	81 ab	83 b	99 a	97 a	98 a	95 a	48 c
4	Curbit Reflex No Mulch	1 QT/A 1 PT/A	39 b	78 b	90 a	89 ab	99 a	97 a	99 a	89 b	38 cd
5	Curbit Sinbar Mulch	1 QT/A 3 OZ/A	2 c	0 d	65 b	71 c	99 a	91 ab	99 a	95 a	90 ab
6	Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	36 b	84 b	65 b	71 c	99 a	87 b	98 a	95 a	89 ab
7	Curbit Sinbar Mulch	1 QT/A 6 OZ/A	9 c	22 c	69 b	80 bc	99 a	96 a	99 a	98 a	96 ab
8	Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	87 a	98 a	73 b	87 ab	99 a	98 a	99 a	99 a	99 a
9	Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	0 c	9 d	94 a	94 a	99 a	98 a	99 a	97 a	81 ab
10	Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	48 b	86 b	94 a	95 a	99 a	98 a	99 a	98 a	72 b
LSD (P=.05)			19.3	10.8	14.9	9.4	4.6	6.9	4.8	4.3	22.8
Standard Deviation			13.3	7.5	10.2	6.5	3.2	4.8	3.3	3.0	15.7
CV			58.77	19.48	15.9	9.69	3.92	5.34	4.14	3.78	24.83
Bartlett's X2			12.203	11.264	7.323	6.884	0.0	21.698	9.827	8.558	25.016
P(Bartlett's X2)			0.058	0.081	0.502	0.332	.	0.01*	0.007*	0.073	0.001*

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

University of Georgia

Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8			
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-10-07	May-10-07	May-10-07	May-10-07	May-10-07	May-10-07	May-10-07	May-10-07			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	12	13	14	15	16	17	18	19
1	Curbit Mulch	1	QT/A	19 a	20 ab	23 ab	21 ab	22 a	22 ab	20 ab	24 a
2	Curbit No Mulch	1	QT/A	14 ab	16 bc	17 bc	16 abc	14 abc	17 ab	17 abc	15 bc
3	Curbit Reflex Mulch	1 1	QT/A PT/A	21 a	24 a	24 a	18 abc	16 abc	17 ab	15 abc	21 ab
4	Curbit Reflex No Mulch	1 1	QT/A PT/A	10 bc	13 cd	12 cd	9 cd	11 bcd	12 bcd	8 cd	12 c
5	Curbit Sinbar Mulch	1 3	QT/A OZ/A	21 a	20 ab	22 ab	25 a	21 ab	24 a	24 a	20 ab
6	Curbit Sinbar No Mulch	1 3	QT/A OZ/A	10 bc	8 d	7 de	10 c	3 d	6 cd	7 cd	2 d
7	Curbit Sinbar Mulch	1 6	QT/A OZ/A	14 ab	19 ab	16 bc	13 bc	15 abc	15 abc	16 abc	15 bc
8	Curbit Sinbar No Mulch	1 6	QT/A OZ/A	3 c	0 e	3 e	0 d	4 d	4 d	4 d	0 d
9	Curbit Sinbar Reflex Mulch	1 3 1	QT/A OZ/A PT/A	20 a	22 ab	25 a	22 ab	20 ab	21 ab	20 ab	23 a
10	Curbit Sinbar Reflex No Mulch	1 3 1	QT/A OZ/A PT/A	10 bc	10 d	11 cd	13 bc	8 cd	7 cd	10 bcd	11 c
LSD (P=.05)				8.2	5.6	6.1	9.2	8.8	8.7	9.3	6.2
Standard Deviation				5.7	3.9	4.2	6.3	6.0	6.0	6.4	4.3
CV				40.39	25.6	26.67	43.43	45.69	41.79	45.33	30.46
Bartlett's X2				5.399	5.028	3.756	17.056	9.122	17.697	20.332	18.97
P(Bartlett's X2)				0.798	0.755	0.927	0.03*	0.426	0.039*	0.016*	0.015*

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

University of Georgia

Weed Code	plant 9 CUMMC	plant 10 CUMMC	plant 11 CUMMC	plant 12 CUMMC	AVG12PLA CUMMC	plant 1 CUMMC	plant 2 CUMMC	plant 3 CUMMC			
Crop Code											
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-10-07	May-10-07	May-10-07	May-10-07	May-10-07	May-24-07	May-24-07	May-24-07			
ARM Action Codes					T7						
Trt No.	Treatment Name	Rate	Unit	20	21	22	23	24	26	27	28
1	Curbit Mulch	1 QT/A		24 a	19 ab	20 a	22 a	21 a	72 a	81 a	67 ab
2	Curbit No Mulch	1 QT/A		16 bc	13 a-d	15 abc	13 bcd	15 bc	38 b	43 b	40 cd
3	Curbit Reflex Mulch	1 QT/A 1 PT/A		20 ab	20 a	22 a	23 a	20 ab	78 a	80 a	70 ab
4	Curbit Reflex No Mulch	1 QT/A 1 PT/A		9 cd	11 bcd	13 bcd	11 cd	11 cd	5 c	17 c	20 de
5	Curbit Sinbar Mulch	1 QT/A 3 OZ/A		23 ab	16 abc	22 a	16 abc	21 a	67 a	81 a	77 a
6	Curbit Sinbar No Mulch	1 QT/A 3 OZ/A		6 d	7 de	6 de	5 de	6 de	14 bc	13 c	0 e
7	Curbit Sinbar Mulch	1 QT/A 6 OZ/A		20 ab	17 ab	15 abc	19 abc	16 ab	64 a	45 b	50 bc
8	Curbit Sinbar No Mulch	1 QT/A 6 OZ/A		4 d	0 e	0 e	0 e	2 e	0 c	0 c	0 e
9	Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A		21 ab	22 a	20 ab	20 ab	21 a	69 a	81 a	78 a
10	Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A		10 cd	8 cde	9 cd	6 de	9 d	7 c	7 c	7 e
LSD (P=.05)				6.7	7.9	6.7	7.6	4.6	24.6	25.5	22.9
Standard Deviation				4.6	5.4	4.6	5.3	3.2	17.0	17.5	15.8
CV				30.9	40.94	33.01	39.24	22.38	40.98	39.16	38.42
Bartlett's X2				9.276	13.097	11.113	11.02	6.804	11.433	23.135	11.405
P(Bartlett's X2)				0.412	0.109	0.195	0.201	0.657	0.178	0.003*	0.122

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

Column 22: T7 = @AVG([C12].[C23])

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Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	plant 11			
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-24-07	May-24-07	May-24-07	May-24-07	May-24-07	May-24-07	May-24-07	May-24-07			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	29	30	31	32	33	34	35	36
1	Curbit Mulch	1	QT/A	73 ab	69 ab	62 abc	76 ab	78 a	79 a	79 ab	68 ab
2	Curbit No Mulch	1	QT/A	53 bc	20 de	45 c	28 cd	34 bc	35 bc	37 c	27 c
3	Curbit Reflex Mulch	1 1	QT/A PT/A	59 abc	53 bc	50 bc	40 bcd	82 a	52 ab	74 ab	79 a
4	Curbit Reflex No Mulch	1 1	QT/A PT/A	16 de	18 de	17 d	16 d	20 cd	14 cd	16 d	17 cd
5	Curbit Sinbar Mulch	1 3	QT/A OZ/A	85 a	82 a	79 ab	75 ab	81 a	65 ab	84 a	78 a
6	Curbit Sinbar No Mulch	1 3	QT/A OZ/A	20 de	3 e	8 d	5 d	0 d	0 d	1 d	10 cd
7	Curbit Sinbar Mulch	1 6	QT/A OZ/A	32 cd	42 cd	58 abc	61 abc	49 b	74 a	66 b	50 b
8	Curbit Sinbar No Mulch	1 6	QT/A OZ/A	0 e	5 e	4 d	2 d	0 d	2 d	0 d	0 d
9	Curbit Sinbar Reflex Mulch	1 3 1	QT/A OZ/A PT/A	80 ab	85 a	83 a	83 a	75 a	82 a	78 ab	76 a
10	Curbit Sinbar Reflex No Mulch	1 3 1	QT/A OZ/A PT/A	8 de	11 e	9 d	7 d	7 d	8 cd	6 d	7 cd
LSD (P=.05)				27.6	25.2	27.3	38.0	23.0	29.4	15.6	21.9
Standard Deviation				19.0	17.4	18.8	26.2	15.8	20.3	10.7	15.1
CV				44.47	44.87	45.32	66.67	37.35	49.58	24.38	36.88
Bartlett's X2				16.263	14.05	23.033	22.826	4.021	26.947	20.571	14.66
P(Bartlett's X2)				0.039*	0.121	0.006*	0.007*	0.674	0.001*	0.008*	0.066

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

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Weed Code	plant 12	AVG12PLA	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4		
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC		
Rating Data Type	ht	ht	#	wt/kg	#	wt/kg	#	wt/kg	#		
Rating Unit	cm	cm	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	May-24-07	May-24-07	Jun-25-07	Jun-25-07	Jun-27-07	Jun-27-07	Jun-29-07	Jun-29-07	Jul-02-07		
ARM Action Codes		T8									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		37	38	40	41	42	43	44	45	46	
1	Curbit Mulch	1 QT/A	60 ab	72 a	4 b	8 b	5 b	11 b	4 ab	11 ab	1 a
2	Curbit No Mulch	1 QT/A	30 bc	36 c	4 b	7 b	2 c	7 b	2 bc	4 bc	1 a
3	Curbit Reflex Mulch	1 QT/A 1 PT/A	79 a	66 ab	6 ab	11 b	8 a	17 a	6 a	15 a	2 a
4	Curbit Reflex No Mulch	1 QT/A 1 PT/A	15 c	16 d	0 c	0 c	0 c	0 c	0 c	0 c	0 a
5	Curbit Sinbar Mulch	1 QT/A 3 OZ/A	61 ab	76 a	9 a	18 a	5 b	9 b	5 a	11 ab	2 a
6	Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	11 c	7 de	0 c	0 c	0 c	0 c	0 c	0 c	1 a
7	Curbit Sinbar Mulch	1 QT/A 6 OZ/A	66 ab	55 b	4 b	10 b	4 b	10 b	4 ab	8 bc	1 a
8	Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	0 c	1 e	0 c	0 c	0 c	0 c	0 c	0 c	0 a
9	Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	81 a	79 a	8 a	19 a	7 a	16 a	5 a	10 ab	1 a
10	Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	10 c	8 de	0 c	0 c	0 c	0 c	0 c	0 c	0 a
LSD (P=.05)			35.8	13.4	3.0	6.3	2.0	4.8	3.0	7.0	2.0
Standard Deviation			24.7	9.2	2.1	4.4	1.4	3.3	2.0	4.8	1.4
CV			59.97	22.24	61.51	60.49	45.33	47.88	79.12	81.48	135.26
Bartlett's X2			19.472	17.911	2.461	2.951	8.775	6.347	13.163	15.486	8.105
P(Bartlett's X2)			0.013*	0.036*	0.782	0.707	0.118	0.274	0.041*	0.017*	0.151

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

Column 35: T8 = @AVG([C26].[C37])

University of Georgia

Weed Code	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7	harv 8	harv 8		
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC		
Rating Data Type	wt/kg	#	wt/kg	#	wt/kg	#	wt/kg	#	wt/kg		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Jul-02-07	Jul-05-07	Jul-05-07	Jul-07-07	Jul-07-07	Jul-09-07	Jul-09-07	Jul-11-07	Jul-11-07		
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit									
			47	48	49	50	51	52	53	54	55
1	Curbit Mulch	1 QT/A	2 a	1 a	2 a	2 abc	21 a	1 ab	3 ab	1 c	1 b
2	Curbit No Mulch	1 QT/A	3 a	1 a	1 a	2 abc	3 ab	1 ab	2 ab	1 c	1 b
3	Curbit Reflex Mulch	1 QT/A 1 PT/A	6 a	2 a	5 a	1 abc	3 ab	4 a	6 a	2 abc	5 ab
4	Curbit Reflex No Mulch	1 QT/A 1 PT/A	1 a	1 a	1 a	2 abc	3 ab	1 b	2 ab	2 bc	2 b
5	Curbit Sinbar Mulch	1 QT/A 3 OZ/A	6 a	2 a	4 a	3 a	8 ab	2 ab	6 a	2 bc	3 ab
6	Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	3 a	1 a	3 a	0 bc	1 b	1 ab	2 ab	1 c	1 b
7	Curbit Sinbar Mulch	1 QT/A 6 OZ/A	3 a	1 a	3 a	2 ab	5 ab	3 ab	5 ab	4 a	8 a
8	Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	0 a	0 a	0 a	0 c	0 b	0 b	0 b	0 c	0 b
9	Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	3 a	1 a	4 a	2 abc	4 ab	2 ab	6 a	4 ab	8 a
10	Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	0 a	0 a	0 a	1 abc	2 ab	1 b	2 ab	1 c	1 b
LSD (P=.05)			5.3	1.5	4.2	1.8	17.6	2.2	4.9	2.0	4.6
Standard Deviation			3.6	1.0	2.9	1.3	12.1	1.5	3.4	1.4	3.2
CV			140.31	126.61	127.42	90.77	246.35	103.54	103.96	86.03	103.73
Bartlett's X2			27.076	6.504	8.703	6.135	55.944	11.87	9.937	8.327	17.945
P(Bartlett's X2)			0.001*	0.482	0.275	0.632	0.001*	0.157	0.269	0.402	0.022*

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

University of Georgia

Weed Code	harv 9 CUMMC	harv 9 CUMMC	harv 10 CUMMC	harv 10 CUMMC	harv 1-4 CUMMC	harv 1-4 CUMMC	harv 1-8 CUMMC	harv 1-8 CUMMC	harv1-10 CUMMC	harv1-10 CUMMC		
Crop Code	#	wt/kg	#	wt/kg	#	wt/kg	#	wt/kg	#	wt/kg		
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Jul-13-07	Jul-13-07	Jul-16-07	Jul-16-07								
ARM Action Codes					T1	T2	T3	T4	T5	T6		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		56	57	58	59	60	61	62	63	64	65	
1	Curbit Mulch	1 QT/A	0 bc	1 c	0 c	0 c	14 b	32 b	19 b	59 a	19 b	59 a
2	Curbit No Mulch	1 QT/A	1 bc	2 c	0 c	0 c	8 c	20 c	12 c	27 bc	13 bc	29 b
3	Curbit Reflex Mulch	1 QT/A 1 PT/A	2 abc	3 bc	0 c	1 c	22 a	49 a	30 a	67 a	32 a	71 a
4	Curbit Reflex No Mulch	1 QT/A 1 PT/A	1 bc	1 c	0 c	0 c	1 d	1 d	5 d	9 c	6 cd	10 b
5	Curbit Sinbar Mulch	1 QT/A 3 OZ/A	4 a	10 a	7 a	14 a	20 a	43 a	28 a	65 a	39 a	88 a
6	Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	1 bc	3 bc	0 c	0 c	1 d	3 d	4 d	9 c	5 cd	12 b
7	Curbit Sinbar Mulch	1 QT/A 6 OZ/A	3 ab	6 abc	4 b	8 b	14 b	30 bc	24 ab	51 ab	30 a	65 a
8	Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	0 c	0 c	0 c	0 c	0 d	0 d	0 d	0 c	0 d	0 b
9	Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	4 a	9 ab	2 bc	3 c	22 a	48 a	30 a	70 a	35 a	82 a
10	Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	1 bc	1 c	0 c	0 c	0 d	0 d	2 d	4 c	3 d	6 b
LSD (P=.05)			2.0	5.4	2.3	4.2	4.2	10.8	6.2	25.1	8.1	27.4
Standard Deviation			1.4	3.7	1.6	2.9	2.9	7.4	4.3	17.3	5.6	18.9
CV			87.67	107.83	127.61	112.97	29.28	32.79	28.17	47.92	31.09	44.81
Bartlett's X2			9.394	17.629	9.543	7.887	17.995	16.995	10.725	36.191	8.852	30.536
P(Bartlett's X2)			0.31	0.024*	0.023*	0.048*	0.012*	0.017*	0.218	0.001*	0.355	0.001*

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

Column 56: T1 = ([C40]+[C42]+[C44]+[C46])

Column 57: T2 = ([C41]+[C43]+[C45]+[C47])

Column 58: T3 = ([C60]+[C48]+[C50]+[C52]+[C54])

Column 59: T4 = ([C61]+[C49]+[C51]+[C53]+[C55])

Column 60: T5 = ([C62]+[C56]+[C58])

Column 61: T6 = ([C63]+[C57]+[C59])

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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: 86	% OM: 2.1	Texture: Loamy sand
% Silt: 6	pH: 6.0	Soil Name: _____
% Clay: 8	CEC: _____	Fert. Level: _____

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: _____

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr-24-07	Apr-30-07
Time of Day:	9 am	3 pm
Application Method:	broadcast	broadcast
Application Timing:	preplant	post
Applic. Placement:	on soil	overtop
Air Temp., Unit:	67 f	85 f
% Relative Humidity:	70	30
Wind Velocity, Unit:	5 MPH	0 MPH
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	68.5 f	88 f
Soil Moisture:	moist	moist
% Cloud Cover:	10	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CUMMC PREPLANT	CUMMC POST
Stage Scale:	no crop	3lf trans
Height, Unit:	0 inch	3 inch

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	CVNGS PREPLANT	CVNGS POST
Stage Scale:	not up	not up
Density, Unit:	15 ydsq	15 ydsq
Weed 2 Code, Stage:	AMAPA PREPLANT	AMAPA POST
Stage Scale:	not up	not up
Density, Unit:	15 ydsq	15 ydsq
Weed 3 Code, Stage:	CYPES PREPLANT	CYPES POST
Stage Scale:	not up	not up
Density, Unit:	10 ydsq	10 ydsq
Weed 4 Code, Stage:	IPOSS	IPOSS
Stage Scale:		
Density, Unit:		

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	tractor
Operating Pressure:	23	25
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	8002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	4	4
Band Width, Unit:		
Boom Length, Unit:	4.5 feet	6 feet
Boom Height, Unit:	15 inch	18 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	15 GPA
Spray pH:		
Propellant:	CO2	PTO
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment