

# University of Georgia

**Transplant watermelon tolerance to Reflex and Sinbar.**

Trial ID: Veg53-06  
 Location: Cordele

Study Dir.: Ken Lewis and Kevin Phillips  
 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	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		102	210	302	408
2	Curbit No Mulch	4	L		1 QT/A	POST	A	33.78 ml/mx		101	209	301	407
3	Curbit Reflex Mulch	4 2	L L		1 QT/A 1 PT/A	PREPLANT	A	33.78 ml/mx 16.89 ml/mx		104	204	310	404
4	Curbit Reflex No Mulch	4 2	L L		1 QT/A 1 PT/A	POST PREPLANT	B A	33.78 ml/mx 16.89 ml/mx		103	203	309	403
5	Curbit Sinbar Mulch	4 80	L DF		1 QT/A 3 OZ/A	PREPLANT	A	33.78 ml/mx 3.036 g/mx		106	208	308	410
6	Curbit Sinbar No Mulch	4 80	L DF		1 QT/A 3 OZ/A	POST PREPLANT	B A	33.78 ml/mx 3.036 g/mx		105	207	307	409
7	Curbit Sinbar Mulch	4 80	L DF		1 QT/A 6 OZ/A	PREPLANT	A	33.78 ml/mx 6.072 g/mx		108	206	304	402
8	Curbit Sinbar No Mulch	4 80	L DF		1 QT/A 6 OZ/A	POST PREPLANT	B A	33.78 ml/mx 6.072 g/mx		107	205	303	401
9	Curbit Sinbar Reflex Mulch	4 80 2	L DF L		1 QT/A 3 OZ/A 1 PT/A	PREPLANT	A	33.78 ml/mx 3.036 g/mx 16.89 ml/mx		110	202	306	406
10	Curbit Sinbar Reflex No Mulch	4 80 2	L DF L		1 QT/A 3 OZ/A 1 PT/A	POST PREPLANT	B A	33.78 ml/mx 3.036 g/mx 16.89 ml/mx		109	201	305	405

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.

# University of Georgia

## Transplant watermelon tolerance to Reflex and Sinbar.

Trial ID: Veg53-06

Study Dir.: Ken Lewis and Kevin Phillips

Location: Cordele

Investigator: Stanley Culpepper

### Trial Comments

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

**INJURY:**

1. No treatment caused more than 5% visual stunting at any time during the season.

**RUNNER LENGTHS** (Main effect means significant and are reported):

1. At 34 DAT, herbicides did not impact watermelon runner length.
2. Runners were 25% longer when watermelon were planted on mulch as compared to bareground.

**WEED CONTROL** (Main effect means were significant or dominant and are reported):

Tropic Croton:

1. At 57 DAT, Reflex plus Curbit provided only 75% control while all Sinbar systems provided at least 95% control.
2. At 57 DAT, control was greater in mulched systems because of more early season watermelon growth providing greater weed competition.

Palmer amaranth:

1. At 57 DAT, Curbit provided only 68 percent control. Adding Sinbar 3 oz to this system improved control to 83%. However, systems with Reflex or Sinbar at 6 oz provided at least 97% control.
2. At 57 DAT, control was 5% greater in mulched systems because of more early season watermelon growth providing greater weed competition when compared to no mulch systems.

Yellow nutsedge:

1. At 57 DAT, Curbit provided only no control. Adding Sinbar at 3 or 6 oz/A improved control to 36 and 78%, respectively. Reflex systems provided at least 92% control.
2. At 57 DAT, control was 5% greater in mulched systems because of more early season watermelon growth providing greater weed competition when compared to no mulch systems.

**YIELD** (The entire plot was picked as a once over harvest, main effect means were significant or dominant and are reported ):

Melons less than 10 lbs in size:

1. No treatment impacted the number or weight of melons weighing less than 10 lbs at harvest.

Melons 10 to 20 lbs in size:

1. Mixing Reflex or Sinbar with Curbit increased the number and weight of fruit at least 33% when pooled over mulch types. No differences were noted when comparing Sinbar or Reflex systems.
2. Production on mulch was 25% greater than on bareground.

Melons greater than 20 lbs in size:

1. Mixing Reflex or Sinbar at 3 oz/A with Curbit increased the number and weight of fruit 40 to 60% when to Curbit alone. However, yields with Curbit plus Sinbar 6 oz or Curbit plus Sinbar plus Reflex systems were increased an additional 28+% over the Sinbar 3 oz or Reflex alone plus Curbit systems. This response was likely in response to tropic croton reducing yield in the Curbit/Reflex systems and yellow nutsedge and Palmer amaranth reducing yields in the Curbit/Sinbar 3 oz systems.
2. Production on mulch was 45+% greater than on bareground.

All melons:

1. Greatest yields were noted in systems of Curbit/Sinbar 6 oz or Curbit/Sinbar/Reflex in response to greater weed control.
2. Production on mulch was 28 to 35% greater than on bareground.

**GENERAL COMMENTS:**

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

# University of Georgia

Transplant watermelon tolerance to Reflex and Sinbar.

Trial ID: Veg53-06

Study Dir.: Ken Lewis and Kevin Phillips

Location: Cordele

Investigator: Stanley Culpepper

Weed Code	CITLA injury percent	CITLA injury percent	CVNGS control percent	CVNGS control percent	AMAPA control percent	AMAPA control percent	CYPES control percent	CYPES control percent		
Crop Code	Apr-25-06	May-09-06	May-09-06	Jun-01-06	May-09-06	Jun-01-06	May-09-06	Jun-01-06		
Rating Data Type	SC	SC	SC	SC	SC	SC	SC	SC		
Rating Unit	20 DA-A	34 DA-A	34 DA-A	57 DA-A	34 DA-A	57 DA-A	34 DA-A	57 DA-A		
Rating Date										
Assessed By										
Trt-Eval Interval										
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
1	2	3	4	5	6	7	8	8		
1	Curbit Mulch	1 QT/A	0 b	0 b	0 d	0 d	85 b	75 c	0 e	0 e
2	Curbit No Mulch	1 QT/A	0 b	0 b	0 d	0 d	83 b	60 d	0 e	0 e
3	Curbit Reflex Mulch	1 QT/A 1 PT/A	0 b	0 b	88 b	83 b	100 a	99 a	90 a	93 a
4	Curbit Reflex No Mulch	1 QT/A 1 PT/A	2 ab	2 ab	86 bc	67 c	100 a	97 a	97 a	92 a
5	Curbit Sinbar Mulch	1 QT/A 3 OZ/A	0 b	0 b	88 b	87 b	100 a	88 b	40 c	45 c
6	Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	0 b	0 b	79 c	73 c	96 a	77 c	15 d	26 d
7	Curbit Sinbar Mulch	1 QT/A 6 OZ/A	0 b	0 b	92 ab	97 a	99 a	96 a	65 b	80 b
8	Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	3 a	5 a	95 ab	97 a	100 a	97 a	60 b	77 b
9	Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	0 b	0 b	89 b	98 a	100 a	98 a	90 a	95 a
10	Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	4 a	0 b	98 a	98 a	100 a	98 a	98 a	91 a
LSD (P=.05)			2.5	2.9	8.2	6.0	6.5	4.6	10.7	8.0
Standard Deviation			1.7	2.0	5.7	4.1	4.5	3.2	7.4	5.5
CV			199.98	308.97	7.95	5.94	4.66	3.6	13.28	9.18
Bartlett's X2			0.627	0.2	8.52	22.925	5.749	4.345	24.651	19.879
P(Bartlett's X2)			0.731	0.655	0.289	0.002*	0.125	0.825	0.001*	0.006*

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

# University of Georgia

Weed Code	plant 1 CITLA	plant 2 CITLA	plant 3 CITLA	plant 4 CITLA	plant 5 CITLA	Avg5plan CITLA	harvest CITLA	harvest CITLA
Crop Code	runner leng	runner leng	runner leng	runner leng	runner leng	runner leng	lbs	lbs
Rating Data Type	cm	cm	cm	cm	cm	cm	<10lbme	<10lbme
Rating Unit	cm	cm	cm	cm	cm	cm		
Rating Date	May-09-06	May-09-06	May-09-06	May-09-06	May-09-06	May-09-06	Jun-23-06	Jun-23-06
Assessed By								
Trt-Eval Interval	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	79 DA-A	79 DA-A
ARM Action Codes						T1		
# Subsamples, Dec.						1		
Trt Treatment Rate								
No. Name Rate Unit	9	10	11	12	13	14	16	17
1 Curbit Mulch	129 a	154 abc	142 ab	175 a	150 ab	149.7 a	8 ab	7 ab
2 Curbit No Mulch	129 a	116 cd	126 ab	124 b	117 cd	122.2 b	8 ab	4 b
3 Curbit Reflex Mulch	150 a	167 ab	152 a	159 a	175 a	160.4 a	8 ab	7 ab
4 Curbit Reflex No Mulch	108 a	113 cd	122 ab	102 b	122 bcd	113.7 b	8 ab	5 ab
5 Curbit Sinbar Mulch	110 a	165 ab	149 ab	162 a	146 abc	146.4 a	8 ab	8 ab
6 Curbit Sinbar No Mulch	95 a	112 cd	119 ab	104 b	104 d	106.6 b	8 ab	7 ab
7 Curbit Sinbar Mulch	130 a	117 cd	159 a	163 a	174 a	148.6 a	7 ab	6 ab
8 Curbit Sinbar No Mulch	111 a	105 d	124 ab	96 b	107 d	108.6 b	6 b	9 a
9 Curbit Sinbar Reflex Mulch	133 a	170 a	157 a	176 a	126 bcd	152.3 a	9 a	9 a
10 Curbit Sinbar Reflex No Mulch	121 a	124 bcd	108 b	115 b	124 bcd	118.4 b	9 a	8 ab
LSD (P=.05)	50.4	40.8	37.8	29.1	27.9	19.22	2.6	4.1
Standard Deviation	34.7	28.1	26.1	20.1	19.2	13.25	1.8	2.9
CV	28.6	20.94	19.21	14.57	14.31	9.98	22.68	41.17
Bartlett's X2	11.419	19.248	12.121	10.676	6.747	7.315	11.411	18.645
P(Bartlett's X2)	0.248	0.023*	0.207	0.299	0.663	0.604	0.249	0.028*

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

Column 14: T1 = @AVG([C9].[C13])

# University of Georgia

Weed Code	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA
Crop Code	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
Rating Data Type	<10lbme1	<10lbme1	<10lbme1	<10lbme1	<10lbme1	<10lbme1	<10lbme1	<10lbme1	<10lbme1
Rating Unit	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06
Rating Date									
Assessed By									
Trt-Eval Interval	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment Rate									
No. Name Rate Unit	18	19	20	21	22	23	24	25	26
1 Curbit Mulch	1 QT/A 6 a	1 QT/A 2 a	1 QT/A 2 a	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 0 a	1 QT/A 0 a
2 Curbit No Mulch	1 QT/A 3 a	1 QT/A 4 a	1 QT/A 3 a	1 QT/A 1 ab	1 QT/A 0 a	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 0 a	1 QT/A 0 a
3 Curbit Reflex Mulch	1 QT/A 4 a 1 PT/A	1 QT/A 2 a	1 QT/A 1 a	1 QT/A 2 ab	1 QT/A 2 a	1 QT/A 2 ab	1 QT/A 0 a	1 QT/A 0 a	1 QT/A 0 a
4 Curbit Reflex No Mulch	1 QT/A 6 a 1 PT/A	1 QT/A 6 a	1 QT/A 6 a	1 QT/A 6 a	1 QT/A 5 a	1 QT/A 6 a	1 QT/A 2 a	1 QT/A 2 a	1 QT/A 2 a
5 Curbit Sinbar Mulch	1 QT/A 8 a 3 OZ/A	1 QT/A 6 a	1 QT/A 6 a	1 QT/A 5 ab	1 QT/A 3 a	1 QT/A 2 ab	1 QT/A 2 a	1 QT/A 0 a	1 QT/A 0 a
6 Curbit Sinbar No Mulch	1 QT/A 6 a 3 OZ/A	1 QT/A 4 a	1 QT/A 5 a	1 QT/A 2 ab	1 QT/A 2 a	1 QT/A 2 ab	1 QT/A 1 a	1 QT/A 0 a	1 QT/A 0 a
7 Curbit Sinbar Mulch	1 QT/A 6 a 6 OZ/A	1 QT/A 6 a	1 QT/A 2 a	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 0 a	1 QT/A 0 a
8 Curbit Sinbar No Mulch	1 QT/A 7 a 6 OZ/A	1 QT/A 3 a	1 QT/A 3 a	1 QT/A 3 ab	1 QT/A 4 a	1 QT/A 3 ab	1 QT/A 0 a	1 QT/A 0 a	1 QT/A 0 a
9 Curbit Sinbar Reflex Mulch	1 QT/A 4 a 3 OZ/A 1 PT/A	1 QT/A 5 a	1 QT/A 4 a	1 QT/A 2 ab	1 QT/A 2 a	1 QT/A 1 ab	1 QT/A 2 a	1 QT/A 0 a	1 QT/A 0 a
10 Curbit Sinbar Reflex No Mulch	1 QT/A 8 a 3 OZ/A 1 PT/A	1 QT/A 6 a	1 QT/A 6 a	1 QT/A 2 ab	1 QT/A 0 a	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 0 a	1 QT/A 0 a
LSD (P=.05)	4.9	5.4	5.9	4.8	5.0	4.6	3.9	1.9	2.1
Standard Deviation	3.4	3.7	4.1	3.3	3.4	3.2	2.7	1.3	1.5
CV	58.32	87.73	106.75	143.7	181.06	192.52	332.16	632.46	632.46
Bartlett's X2	9.733	1.165	1.781	1.441	0.838	1.321	0.976	0.0	0.0
P(Bartlett's X2)	0.373	0.999	0.994	0.984	0.975	0.933	0.807	.	.

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

# University of Georgia

Weed Code	harvest CITLA	Total CITLA	Total CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	
Crop Code	lbs	#	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
Rating Data Type	<10lbmel	<10lbmel	<10lbmel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	
Rating Unit	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	
Rating Date										
Assessed By										
Trt-Eval Interval	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	
ARM Action Codes										
# Subsamples, Dec.			T2 1							
Trt Treatment	Rate									
No. Name	Rate Unit	27	28	29	30	31	32	33	34	35
1 Curbit Mulch	1 QT/A	0 a	3 a	25.7 a	17 ab	15 abc	16 a	17 a	13 a	16 a
2 Curbit No Mulch	1 QT/A	0 a	3 a	23.9 a	14 ab	13 bc	15 a	16 abc	4 b	3 b
3 Curbit Reflex Mulch	1 QT/A 1 PT/A	0 a	4 a	27.3 a	16 ab	14 abc	14 a	17 ab	18 a	16 a
4 Curbit Reflex No Mulch	1 QT/A 1 PT/A	2 a	7 a	56.2 a	15 ab	11 c	14 a	13 c	16 a	17 a
5 Curbit Sinbar Mulch	1 QT/A 3 OZ/A	0 a	6 a	48.4 a	14 ab	14 abc	14 a	17 a	17 a	13 a
6 Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	0 a	5 a	37.1 a	14 ab	18 a	14 a	13 bc	13 a	12 a
7 Curbit Sinbar Mulch	1 QT/A 6 OZ/A	0 a	4 a	26.7 a	16 ab	15 abc	16 a	15 abc	15 a	15 a
8 Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	0 a	5 a	36.1 a	13 b	14 abc	15 a	15 abc	15 a	13 a
9 Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	0 a	5 a	38.9 a	16 ab	14 abc	14 a	14 abc	16 a	15 a
10 Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	0 a	5 a	38.4 a	18 a	17 ab	14 a	14 abc	15 a	14 a
LSD (P=.05)		2.1	4.0	29.97	3.9	4.2	4.2	3.5	5.3	4.6
Standard Deviation		1.5	2.7	20.65	2.7	2.9	2.9	2.4	3.6	3.2
CV		632.46	58.11	57.6	17.65	20.21	19.64	15.87	25.39	23.69
Bartlett's X2		0.0	9.593	8.085	11.995	5.879	11.809	4.772	19.131	9.137
P(Bartlett's X2)		.	0.384	0.526	0.214	0.752	0.224	0.854	0.024*	0.425

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

Column 28: T2 = [C16]+[C17]+[C18]+[C19]+[C20]+[C21]+[C22]+[C23]+[C24]+[C25]+[C26]+[C27]

# University of Georgia

Weed Code	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA
Crop Code	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
Rating Data Type	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel
Rating Unit	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06
Rating Date										
Assessed By										
Trt-Eval Interval	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
ARM Action Codes										
# Subsamples, Dec.										
Trt Treatment Rate										
No. Name Rate Unit	36	37	38	39	40	41	42	43	44	
1 Curbit Mulch	15 ab	18 a	16 a	16 a	14 ab	7 ab	5 ab	0 a	0 a	
2 Curbit No Mulch	4 c	0 c	0 c	0 c	0 c	0 b	0 b	0 a	0 a	
3 Curbit Reflex Mulch	15 a	15 a	15 a	15 a	16 a	16 a	12 ab	7 a	8 a	
4 Curbit Reflex No Mulch	8 bc	8 b	8 b	7 b	3 c	4 ab	5 ab	3 a	0 a	
5 Curbit Sinbar Mulch	16 a	17 a	15 a	15 a	13 ab	12 ab	12 ab	8 a	5 a	
6 Curbit Sinbar No Mulch	14 ab	12 ab	8 b	6 bc	7 bc	5 ab	3 ab	4 a	0 a	
7 Curbit Sinbar Mulch	16 a	14 ab	15 a	15 a	18 a	17 a	13 a	10 a	9 a	
8 Curbit Sinbar No Mulch	12 ab	15 ab	15 a	15 a	14 ab	12 ab	10 ab	8 a	7 a	
9 Curbit Sinbar Reflex Mulch	14 ab	19 a	16 a	15 a	16 ab	12 ab	9 ab	7 a	6 a	
10 Curbit Sinbar Reflex No Mulch	18 a	16 a	18 a	17 a	18 a	11 ab	11 ab	10 a	7 a	
LSD (P=.05)	6.1	6.0	5.4	6.7	7.3	10.7	11.2	10.5	10.1	
Standard Deviation	4.2	4.1	3.7	4.6	5.1	7.4	7.7	7.2	7.0	
CV	32.08	30.94	29.54	38.03	42.46	77.1	98.96	128.39	162.6	
Bartlett's X2	21.373	23.828	31.087	12.393	16.208	7.468	2.959	1.003	0.705	
P(Bartlett's X2)	0.011*	0.002*	0.001*	0.135	0.039*	0.487	0.937	0.995	0.983	

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

# University of Georgia

Weed Code	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA
Crop Code	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
Rating Data Type	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel	10-20mel
Rating Unit	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06
Rating Date	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
Assessed By	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
Trt-Eval Interval									
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment Rate									
No. Name Rate Unit	45	46	47	48	49	50	51	52	53
1 Curbit Mulch	1 QT/A	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
2 Curbit No Mulch	1 QT/A	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
3 Curbit Reflex Mulch	1 QT/A 1 PT/A	7 a	7 a	5 a	3 a	4 a	3 a	0 a	0 a
4 Curbit Reflex No Mulch	1 QT/A 1 PT/A	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
5 Curbit Sinbar Mulch	1 QT/A 3 OZ/A	4 a	4 a	5 a	3 a	3 a	3 a	3 a	0 a
6 Curbit Sinbar No Mulch	1 QT/A 3 OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
7 Curbit Sinbar Mulch	1 QT/A 6 OZ/A	4 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
8 Curbit Sinbar No Mulch	1 QT/A 6 OZ/A	3 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
9 Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A	4 a	3 a	5 a	4 a	3 a	0 a	0 a	0 a
10 Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A	7 a	4 a	3 a	0 a	0 a	0 a	0 a	0 a
LSD (P=.05)	9.4	7.3	8.3	5.5	5.7	3.6	3.1	0.0	0.0
Standard Deviation	6.5	5.0	5.7	3.8	3.9	2.5	2.1	0.0	0.0
CV	213.41	274.69	327.86	381.31	378.6	456.04	632.46	0.0	0.0
Bartlett's X2	0.647	0.329	0.62	0.302	0.018	0.035	0.0	0.0	0.0
P(Bartlett's X2)	0.986	0.954	0.892	0.86	0.991	0.852	.	.	.

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



# University of Georgia

Weed Code	Total CITLA #	Total CITLA lbs	harvest CITLA lbs	harvest CITLA lbs	harvest CITLA lbs	harvest CITLA lbs	harvest CITLA lbs	harvest CITLA lbs	harvest CITLA lbs	harvest CITLA lbs
Crop Code	10-20lbm	10-20lbm	>20lbme1	>20lbme1	>20lbs	>20lbme1	>20lbme1	>20lbme1	>20lbme1	>20lbme1
Rating Data Type	10-20lbm	10-20lbm	>20lbme1	>20lbme1	>20lbs	>20lbme1	>20lbme1	>20lbme1	>20lbme1	>20lbme1
Rating Unit	10-20lbm	10-20lbm	>20lbme1	>20lbme1	>20lbs	>20lbme1	>20lbme1	>20lbme1	>20lbme1	>20lbme1
Rating Date	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06
Assessed By	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
Trt-Eval Interval	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
ARM Action Codes										
# Subsamples, Dec.										
Trt Treatment Rate										
No. Name Rate Unit	54	55	58	59	60	61	62	63	64	64
1 Curbit Mulch	13 abc	209.5 abc	25 a	23 a	23 ab	23 ab	24 a	18 abc	7 cd	
2 Curbit No Mulch	5 d	93.6 d	6 b	6 b	0 c	0 c	0 c	0 d	0 d	
3 Curbit Reflex Mulch	17 a	271.5 ab	21 a	26 a	19 b	23 ab	22 a	26 a	24 ab	
4 Curbit Reflex No Mulch	10 c	188.1 bc	28 a	24 a	22 ab	17 b	18 ab	10 bcd	14 bc	
5 Curbit Sinbar Mulch	16 ab	274.4 a	24 a	29 a	25 ab	28 a	26 a	24 ab	24 ab	
6 Curbit Sinbar No Mulch	11 bc	179.6 c	24 a	27 a	24 ab	18 b	11 b	7 cd	0 d	
7 Curbit Sinbar Mulch	16 ab	250.3 abc	27 a	30 a	28 a	26 ab	25 a	25 a	30 a	
8 Curbit Sinbar No Mulch	15 abc	230.3 abc	27 a	22 a	26 ab	25 ab	24 a	18 abc	18 abc	
9 Curbit Sinbar Reflex Mulch	16 ab	260.6 abc	25 a	25 a	24 ab	25 ab	26 a	28 a	28 a	
10 Curbit Sinbar Reflex No Mulch	16 ab	271.5 ab	27 a	25 a	28 a	24 ab	27 a	26 a	23 ab	
LSD (P=.05)	4.6	74.64	8.9	8.7	6.9	8.3	9.9	12.3	11.5	
Standard Deviation	3.2	51.44	6.2	6.0	4.8	5.7	6.8	8.5	8.0	
CV	24.0	23.07	26.34	25.21	21.84	27.6	33.47	46.59	47.25	
Bartlett's X2	10.924	11.378	15.216	25.96	10.704	25.254	19.879	20.649	20.351	
P(Bartlett's X2)	0.281	0.251	0.085	0.002*	0.219	0.001*	0.011*	0.008*	0.005*	

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

Column 54: T3 = [C29]+[C30]+[C31]+[C32]+[C33]+[C34]+[C35]+[C36]+[C37]+[C38]+[C39]+[C40]+[C41]+[C42]+[C43]+[C44]+[C45]+>

# University of Georgia

Weed Code	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA	harvest CITLA
Crop Code	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
Rating Data Type	>20lbs	>20lbmel	>20lbmel	>20lbs	>20lbmel	>20lbmel	>20lbs	>20lbmel	>20lbmel	>20lbmel
Rating Unit										
Rating Date	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06
Assessed By										
Trt-Eval Interval	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
ARM Action Codes										
# Subsamples, Dec.										
Trt Treatment Rate										
No. Name Rate Unit	65	66	67	68	69	70	71	72	73	
1 Curbit Mulch	1 QT/A 0 c	1 QT/A 0 b	1 QT/A 0 c	1 QT/A 0 c	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b
2 Curbit No Mulch	1 QT/A 0 c	1 QT/A 0 b	1 QT/A 0 c	1 QT/A 0 c	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b	1 QT/A 0 b
3 Curbit Reflex Mulch	1 QT/A 1 PT/A 18 ab	1 QT/A 1 PT/A 17 a	1 QT/A 1 PT/A 18 ab	1 QT/A 1 PT/A 12 abc	1 QT/A 1 PT/A 12 ab	1 QT/A 1 PT/A 13 ab	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b
4 Curbit Reflex No Mulch	1 QT/A 1 PT/A 5 c	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 c	1 QT/A 1 PT/A 0 c	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 b
5 Curbit Sinbar Mulch	1 QT/A 3 OZ/A 26 ab	1 QT/A 3 OZ/A 26 a	1 QT/A 3 OZ/A 17 ab	1 QT/A 3 OZ/A 18 ab	1 QT/A 3 OZ/A 17 a	1 QT/A 3 OZ/A 12 ab	1 QT/A 3 OZ/A 12 ab	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b
6 Curbit Sinbar No Mulch	1 QT/A 3 OZ/A 0 c	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 c	1 QT/A 3 OZ/A 0 c	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 b
7 Curbit Sinbar Mulch	1 QT/A 6 OZ/A 30 a	1 QT/A 6 OZ/A 24 a	1 QT/A 6 OZ/A 25 a	1 QT/A 6 OZ/A 24 a	1 QT/A 6 OZ/A 24 a	1 QT/A 6 OZ/A 19 a	1 QT/A 6 OZ/A 20 a	1 QT/A 6 OZ/A 16 a	1 QT/A 6 OZ/A 17 a	1 QT/A 6 OZ/A 17 a
8 Curbit Sinbar No Mulch	1 QT/A 6 OZ/A 19 ab	1 QT/A 6 OZ/A 5 b	1 QT/A 6 OZ/A 6 bc	1 QT/A 6 OZ/A 6 bc	1 QT/A 6 OZ/A 0 b	1 QT/A 6 OZ/A 0 b	1 QT/A 6 OZ/A 0 b	1 QT/A 6 OZ/A 0 b	1 QT/A 6 OZ/A 0 b	1 QT/A 6 OZ/A 0 b
9 Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A 27 ab	1 QT/A 3 OZ/A 1 PT/A 25 a	1 QT/A 3 OZ/A 1 PT/A 19 ab	1 QT/A 3 OZ/A 1 PT/A 19 ab	1 QT/A 3 OZ/A 1 PT/A 19 a	1 QT/A 3 OZ/A 1 PT/A 6 ab	1 QT/A 3 OZ/A 1 PT/A 6 b	1 QT/A 3 OZ/A 1 PT/A 6 b	1 QT/A 3 OZ/A 1 PT/A 6 b	1 QT/A 3 OZ/A 1 PT/A 7 b
10 Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A 17 b	1 QT/A 3 OZ/A 1 PT/A 18 a	1 QT/A 3 OZ/A 1 PT/A 18 ab	1 QT/A 3 OZ/A 1 PT/A 16 ab	1 QT/A 3 OZ/A 1 PT/A 14 ab	1 QT/A 3 OZ/A 1 PT/A 13 ab	1 QT/A 3 OZ/A 1 PT/A 6 b	1 QT/A 3 OZ/A 1 PT/A 5 b	1 QT/A 3 OZ/A 1 PT/A 0 b	1 QT/A 3 OZ/A 1 PT/A 0 b
LSD (P=.05)	11.5	10.0	13.1	13.2	12.9	14.1	11.9	9.3	9.0	
Standard Deviation	7.9	6.9	9.1	9.1	8.9	9.7	8.2	6.4	6.2	
CV	55.58	60.19	87.87	95.61	103.59	156.58	187.2	233.4	257.5	
Bartlett's X2	13.856	12.854	7.51	7.314	8.078	0.098	0.181	0.124	0.223	
P(Bartlett's X2)	0.031*	0.025*	0.185	0.198	0.089	0.999	0.981	0.94	0.637	

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

## University of Georgia

Weed Code	harvest CITLA	harvest CITLA	Total CITLA	Total CITLA	Total CITLA	Total CITLA
Crop Code	lbs	lbs	#	lbs	#	lbs
Rating Data Type	>20lbme1	>20lbs	>20lbme1	>20lbme1	ALL	ALL
Rating Unit						
Rating Date	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06	Jun-23-06
Assessed By						
Trt-Eval Interval	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A	79 DA-A
ARM Action Codes				T4	T5	T6
# Subsamples, Dec.				1		
Trt Treatment Rate						
No. Name Rate Unit	74	75	76	77	79	80
1 Curbit Mulch	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 6 d	1 QT/A 143.0 d	1 QT/A 22 cd	1 QT/A 378 de
2 Curbit No Mulch	1 QT/A 0 b	1 QT/A 0 a	1 QT/A 1 e	1 QT/A 12.5 e	1 QT/A 9 e	1 QT/A 130 f
3 Curbit Reflex Mulch	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 a	1 QT/A 1 PT/A 11 bc	1 QT/A 1 PT/A 250.3 bc	1 QT/A 1 PT/A 31 ab	1 QT/A 1 PT/A 549 bc
4 Curbit Reflex No Mulch	1 QT/A 1 PT/A 0 b	1 QT/A 1 PT/A 0 a	1 QT/A 1 PT/A 6 d	1 QT/A 1 PT/A 137.9 d	1 QT/A 1 PT/A 23 cd	1 QT/A 1 PT/A 382 de
5 Curbit Sinbar Mulch	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 a	1 QT/A 3 OZ/A 13 ab	1 QT/A 3 OZ/A 308.2 b	1 QT/A 3 OZ/A 35 ab	1 QT/A 3 OZ/A 631 ab
6 Curbit Sinbar No Mulch	1 QT/A 3 OZ/A 0 b	1 QT/A 3 OZ/A 0 a	1 QT/A 3 OZ/A 5 d	1 QT/A 3 OZ/A 110.8 d	1 QT/A 3 OZ/A 21 d	1 QT/A 3 OZ/A 328 e
7 Curbit Sinbar Mulch	1 QT/A 6 OZ/A 20 a	1 QT/A 6 OZ/A 5 a	1 QT/A 6 OZ/A 16 a	1 QT/A 6 OZ/A 414.1 a	1 QT/A 6 OZ/A 36 a	1 QT/A 6 OZ/A 691 a
8 Curbit Sinbar No Mulch	1 QT/A 6 OZ/A 0 b	1 QT/A 6 OZ/A 0 a	1 QT/A 6 OZ/A 8 cd	1 QT/A 6 OZ/A 197.2 cd	1 QT/A 6 OZ/A 28 bc	1 QT/A 6 OZ/A 464 cd
9 Curbit Sinbar Reflex Mulch	1 QT/A 3 OZ/A 1 PT/A 7 b	1 QT/A 3 OZ/A 1 PT/A 0 a	1 QT/A 3 OZ/A 1 PT/A 12 b	1 QT/A 3 OZ/A 1 PT/A 325.2 ab	1 QT/A 3 OZ/A 1 PT/A 33 ab	1 QT/A 3 OZ/A 1 PT/A 625 ab
10 Curbit Sinbar Reflex No Mulch	1 QT/A 3 OZ/A 1 PT/A 0 b	1 QT/A 3 OZ/A 1 PT/A 0 a	1 QT/A 3 OZ/A 1 PT/A 12 bc	1 QT/A 3 OZ/A 1 PT/A 284.9 bc	1 QT/A 3 OZ/A 1 PT/A 32 ab	1 QT/A 3 OZ/A 1 PT/A 595 ab
LSD (P=.05)	9.6	5.0	3.5	94.31	6.6	109.3
Standard Deviation	6.6	3.4	2.4	65.00	4.6	75.3
CV	239.78	632.46	27.55	29.76	17.01	15.78
Bartlett's X2	0.0	0.0	9.629	10.358	10.341	8.325
P(Bartlett's X2)	0.997	.	0.381	0.322	0.324	0.502

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

Column 74: T4 =

[C58]+[C59]+[C60]+[C61]+[C62]+[C63]+[C64]+[C65]+[C66]+[C67]+[C68]+[C69]+[C70]+[C71]+[C72]+[C73]+[C74]+[C75]

Column 75: T5 = [C28]+[C54]+[C76]

Column 76: T6 = [C29]+[C55]+[C77]



# 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: 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: irrigated

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_

### APPLICATION DESCRIPTION

	A	B
Application Date:	Apr-05-06	Apr-06-06
Time of Day:	10 am	10 am
Application Method:	broadcast	broadcast
Application Timing:	PREPLANT	POST
Applic. Placement:	on soil	over tran
Air Temp., Unit:	62 F	65 F
% Relative Humidity:	35	40
Wind Velocity, Unit:	4 mph	2 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	65 F	68 F
Soil Moisture:	irrigated	irrigated
% Cloud Cover:	0	0

### CROP STAGE AT EACH APPLICATION

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

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B
<b>Weed 1 Code, Stage:</b>	CVNGS PREPLANT	CVNGS POST
<b>Stage Scale:</b>	not up	not up
<b>Density, Unit:</b>	15 ydsq	15 ydsq
<b>Weed 2 Code, Stage:</b>	AMAPA PREPLANT	AMAPA POST
<b>Stage Scale:</b>	not up	not up
<b>Density, Unit:</b>	15 ydsq	15 ydsq
<b>Weed 3 Code, Stage:</b>	CYPES PREPLANT	CYPES POST
<b>Stage Scale:</b>	not up	not up
<b>Density, Unit:</b>	10 ydsq	10 ydsq

## APPLICATION EQUIPMENT

	A	B
<b>Appl. Equipment:</b>	backpack	tractor
<b>Operating Pressure:</b>	23	25
<b>Nozzle Type:</b>	flat fan	flat fan
<b>Nozzle Size:</b>	11002	8002
<b>Nozzle Spacing, Unit:</b>	18 inch	18 inch
<b>Nozzles/Row:</b>	4	4
<b>Band Width, Unit:</b>		
<b>Boom Length, Unit:</b>	4.5 feet	6 feet
<b>Boom Height, Unit:</b>	15 inch	18 inch
<b>Ground Speed, Unit:</b>	3 mph	3 mph
<b>Incorporation Equip.:</b>		
<b>Hours to Incorp.:</b>		
<b>Incorp. Depth, Unit:</b>		
<b>Carrier:</b>	water	water
<b>Spray Volume, Unit:</b>	14.8 GPA	15 GPA
<b>Spray pH:</b>		
<b>Propellant:</b>	CO2	PTO
<b>Tank Mix (Y/N):</b>	Y	Y

Trt No	Treatment Application Comment