

# University of Georgia

## 2007 Large Acreage Replicated On Farm MB Alternative Trial

Trial ID: Veg42-07

Study Dir.: Martin Flora

Location: Southern Valley Produc

Investigator: Stanley Culpepper

Reps: 4

Plots: 15 by 697 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min 53.786)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
1	MB 57:43	443 lb/A	BC							101	202	303	404
	LDPE 1.25 mil mulch												
2	MIDAS 171 lb/A	BC								102	204	302	401
	Blocade 1.3 mil mulch												
3	DMDS 76.35 G/A	BC								103	201	304	403
	LDPE MULCH												
4	Telone II 10 GPA	BC								104	203	301	402
	Chloropic 145.6 lb/A	BC											
	Vapam 75 GPA												
	LDPE Mulch												

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
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\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

### Trial Comments

OBJECTIVE: Determine if MIDAS, DMDS, and the 3-way are alternatives to methyl bromide.

GENERAL COMMENTS PRIOR TO TRANSPLANTING FALL CUCUMBER: These results are from the second crop following pepper (Veg9 - 07). Telone EC at 10 gal/A and Vapam at 20 gal/A were drip injected prior to transplanting the cucumber crop. Glyphosate was broadcast over the trial area and row middle herbicides were implemented equally for all plots.

#### WEED COUNTS:

1. The DMDS/LDPE system was less effective than other systems in controlling yellow nutsedge and slender amaranth. Control of morningglory, sicklepod, and carpetweed were similar.

#### CUCUMBER RUNNER LENGTHS:

1. Runner lengths (120 plants per plot) were measured in september and noted no statistical difference between treatments. There was a minor trend for slightly shorter plants in the 3-Way.

#### NEMATODE:

1. No differences in nematode root gall ratings (scale 0-10 with 0 = no galling and 10 = total galling) were noted among treatments.
2. No differences in the number of nematodes per 100 cc of soil were noted from nematode samples returned from Athens.

#### CUCUMBER YIELDS:

1. The entire plot was harvested and run through the packing house just as in the growers normal operation.
2. The crop was harvested three times and at each harvest fruit was packed into 6 cucumber sizes (Super, Selects, Small, 24 count, Large, and cull).
3. No differences in yields were noted at any individual harvest or when adding all three harvests.

#### RETURNS FOR CUCUMBER CROP:

1. No difference in the value of cucumber at any graded sizes were noted between treatments.

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2. When determining value of the cucumber crop the following prices per box of fruit were used (Super = \$12.50, Select = \$8.00, 24-count or carton = \$4, Large = \$6, and small = \$10).
3. No differences in value when adding cucumber sizes together were noted.
4. Compared to MB = 3-Way in value = 99% of MB, MIDAS in value = 99.4% of MB, and DMDS = 94% of MB.

## RETURNS FOR BOTH THE PEPPER AND CUCUMBER CROP:

1. These returns were calculated by adding the value of the pepper crop, the value of the cucumber crop, and subtracting the cost of mulch and the fumigant (costs for DMDS are assuming the same costs as the 3-WAY). No production costs are included thus these values are not suggesting net returns.
2. No statistical differences were noted with value but when compared to MB: 3-WAY = 96% in value of MB; MIDAS equalled 93% in value of MB; and DMDS = 91% in value of MB.

## GENERAL COMMENTS WHEN FUMIGATING:

1. Individual plots were 0.24 acres of land or 0.12 acres of treated land.
2. Trial initiated on Jan 27, 2007. Took 6 hours to put all treatments out. Soil temp at 8 inch was 55 F and 61 F at 4 inch. Soil moisture was 68% at 12 inch and 60% at 8 inch.
3. Fumigants were applied, beds were formed and mulch was laid within minutes of one another. Telone II 10-12 inches deep with a Yetter applicator. MB, MIDAS, and PIC were applied with a super bedder plastic layer injected 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was injected 4 inches in the final bed. Mulch was laid.

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Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Front	Front	Front	Front	Front	Front	Front	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage		bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	1	2	3	4	5	6	7
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		45 b	55 a	49 a	53 a	53 a	50 a	43 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		57 ab	55 a	46 a	61 a	56 a	64 a	70 a
3 DMDS 76.35 G/A BC LDPE MULCH		66 a	59 a	54 a	63 a	57 a	58 a	64 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		57 ab	51 a	46 a	56 a	52 a	59 a	50 a
LSD (P=.05)		19.6	37.6	23.2	31.4	38.8	39.0	26.7
Standard Deviation		12.3	23.5	14.5	19.6	24.2	24.4	16.7
CV		21.85	42.92	29.76	33.85	44.62	42.4	29.53
Bartlett's X2		5.606	3.211	4.299	3.908	1.304	2.013	1.032
P(Bartlett's X2)		0.132	0.36	0.231	0.272	0.728	0.57	0.794

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

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Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Front	Front	Front	Front	Front	Front	Front	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	14
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		52 a	50 a	54 a	56 a	50 a	52 a	63 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		62 a	68 a	50 a	59 a	77 a	64 a	52 a
3 DMDS 76.35 G/A BC LDPE MULCH		65 a	53 a	51 a	64 a	51 a	56 a	54 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		54 a	48 a	46 a	37 a	55 a	47 a	53 a
LSD (P=.05)		28.5	37.8	34.7	33.7	33.1	28.5	29.9
Standard Deviation		17.8	23.7	21.7	21.1	20.7	17.8	18.7
CV		30.86	43.25	43.27	39.39	35.69	32.58	33.84
Bartlett's X2		2.511	0.885	3.943	1.775	7.178	4.881	7.522
P(Bartlett's X2)		0.473	0.829	0.268	0.62	0.066	0.181	0.057

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

# University of Georgia

Weed Code	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	plant av	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Front	Front	Front	Front	Front	Front	Front	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes							T1	
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	15	16	17	18	19	20	21
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		54 a	47 a	63 a	70 a	57 ab	61 a	54 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		61 a	56 a	49 a	60 a	68 a	61 a	60 a
3 DMDS 76.35 G/A BC LDPE MULCH		63 a	44 a	47 a	61 a	63 ab	55 a	57 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		59 a	54 a	49 a	58 a	44 b	59 a	51 a
LSD (P=.05)		21.4	32.8	32.7	25.2	20.1	22.0	13.9
Standard Deviation		13.4	20.5	20.4	15.7	12.6	13.8	8.7
CV		22.56	40.93	39.27	25.41	21.79	23.34	15.69
Bartlett's X2		5.313	0.701	1.601	2.371	1.294	1.551	1.107
P(Bartlett's X2)		0.15	0.873	0.659	0.499	0.731	0.671	0.775

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

Column 21: T1 = @AVG([C1].[C20])

## University of Georgia

Weed Code	plant 21	plant 22	plant 23	plant 24	plant 25	plant 26	plant 27
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Front	Front	Front	Front	Front	Front	Front
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	22	23	24	25	26	27
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		71 a	56 a	70 a	59 a	45 a	58 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		49 a	67 a	68 a	60 a	74 a	64 a
3 DMDS 76.35 G/A BC LDPE MULCH		50 a	55 a	45 a	59 a	75 a	66 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		58 a	45 a	48 a	60 a	53 a	59 a
LSD (P=.05)		21.1	24.3	25.8	18.7	29.3	22.7
Standard Deviation		13.2	15.2	16.1	11.7	18.3	14.2
CV		23.07	27.39	27.93	19.69	29.65	23.03
Bartlett's X2		1.041	1.202	2.383	2.674	7.567	3.018
P(Bartlett's X2)		0.791	0.752	0.497	0.445	0.056	0.389

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

## University of Georgia

Weed Code	plant 28	plant 29	plant 30	plant 31	plant 32	plant 33	plant 34
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Front	Front	Front	Front	Front	Front	Front
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	29	30	31	32	33	34
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		67 a	68 a	56 a	46 b	48 a	51 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		66 a	61 a	57 a	49 b	45 a	64 a
3 DMDS 76.35 G/A BC LDPE MULCH		51 a	75 a	62 a	78 a	60 a	50 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		49 a	58 a	61 a	53 b	57 a	52 a
LSD (P=.05)		20.2	21.9	15.4	21.9	27.7	30.6
Standard Deviation		12.6	13.7	9.6	13.7	17.3	19.1
CV		21.65	21.0	16.36	24.27	33.06	35.37
Bartlett's X2		3.105	4.301	0.484	7.25	1.725	5.127
P(Bartlett's X2)		0.376	0.231	0.922	0.064	0.631	0.163
							0.012*

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

## University of Georgia

Weed Code	plant 35	plant 36	plant 37	plant 38	plant 39	plant 40	plant av	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Front	Front	Front	Front	Front	Front	Front	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes							T2	
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		39 a	46 a	50 b	32 c	52 a	61 a	53 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		64 a	50 a	62 ab	53 b	54 a	68 a	59 a
3 DMDS 76.35 G/A BC LDPE MULCH		55 a	51 a	73 a	62 ab	66 a	69 a	60 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		61 a	62 a	55 ab	74 a	63 a	52 a	57 a
LSD (P=.05)		26.5	24.1	20.5	15.2	26.3	24.7	7.7
Standard Deviation		16.6	15.0	12.8	9.5	16.5	15.5	4.8
CV		30.24	28.86	21.43	17.19	28.18	24.68	8.4
Bartlett's X2		2.098	2.467	5.88	0.562	21.709	2.203	10.087
P(Bartlett's X2)		0.552	0.481	0.118	0.905	0.001*	0.531	0.018*

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

Column 42: T2 = @AVG([C22].[C40])



## University of Georgia

Weed Code	plant 41	plant 42	plant 43	plant 44	plant 45	plant 46	plant 47
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Front	Front	Front	Front	Front	Front	Front
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	43	44	45	46	47	48
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		63 a	43 a	49 a	52 a	62 a	73 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		56 a	40 a	51 a	59 a	46 a	55 b
3 DMDS 76.35 G/A BC LDPE MULCH		63 a	38 a	60 a	41 a	60 a	52 b
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		51 a	50 a	60 a	48 a	55 a	68 ab
LSD (P=.05)		27.5	38.7	33.0	39.6	23.6	15.7
Standard Deviation		17.2	24.2	20.6	24.8	14.8	9.8
CV		29.64	56.81	37.57	49.44	26.61	15.91
Bartlett's X2		1.845	0.188	2.091	1.141	4.0	6.389
P(Bartlett's X2)		0.605	0.979	0.554	0.767	0.261	0.094

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

## University of Georgia

Weed Code	plant 48	plant 49	plant 50	plant 51	plant 52	plant 53	plant 54
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Front	Front	Front	Front	Front	Front	Front
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		50	51	52	53	54	55
1	MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	60 a	48 a	50 a	55 a	51 a	44 a
2	MIDAS 171 lb/A BC Blocade 1.3 mil mulch	39 a	38 a	65 a	46 a	46 a	56 a
3	DMDS 76.35 G/A BC LDPE MULCH	48 a	56 a	64 a	39 a	51 a	45 a
4	Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	34 a	44 a	53 a	39 a	41 a	45 a
LSD (P=.05)		34.8	38.9	30.0	29.2	31.3	33.2
Standard Deviation		21.7	24.3	18.7	18.2	19.5	20.7
CV		48.08	52.31	32.37	40.72	41.41	43.78
Bartlett's X2		0.455	4.228	0.424	0.958	2.61	4.096
P(Bartlett's X2)		0.929	0.238	0.935	0.811	0.456	0.251

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

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Weed Code	plant 55	plant 56	plant 57	plant 58	plant 59	plant 60	plant av
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Front	Front	Front	Front	Front	Front	Front
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							T3
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	57	58	59	60	61	62
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		71 a	55 a	55 a	44 a	65 a	51 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		56 a	61 a	65 a	44 a	54 a	59 a
3 DMDS 76.35 G/A BC LDPE MULCH		46 a	55 a	55 a	49 a	55 a	48 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		52 a	57 a	52 a	50 a	37 a	46 a
LSD (P=.05)		25.5	28.8	40.8	31.5	30.9	23.2
Standard Deviation		16.0	18.0	25.5	19.7	19.3	14.5
CV		28.49	31.84	45.0	42.25	36.63	28.54
Bartlett's X2		0.517	5.094	0.938	0.888	0.416	0.728
P(Bartlett's X2)		0.915	0.165	0.816	0.828	0.937	0.867

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

Column 63: T3 = @AVG([C41].[C62])

## University of Georgia

Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Back	Back	Back	Back	Back	Back	Back	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	64	65	66	67	68	69	70
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		54 a	47 a	49 a	45 a	60 a	51 a	60 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		49 ab	57 a	51 a	45 a	55 ab	48 a	52 ab
3 DMDS 76.35 G/A BC LDPE MULCH		49 ab	60 a	50 a	41 a	42 b	42 a	40 b
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		39 b	46 a	34 a	33 a	46 ab	41 a	47 ab
LSD (P=.05)		12.4	19.2	29.7	27.2	15.6	17.7	18.0
Standard Deviation		7.8	12.0	18.5	17.0	9.8	11.1	11.2
CV		16.28	22.93	40.47	41.63	19.28	24.51	22.61
Bartlett's X2		4.672	2.552	1.082	0.759	4.281	6.691	1.704
P(Bartlett's X2)		0.197	0.466	0.781	0.859	0.233	0.082	0.636

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

## University of Georgia

Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Back	Back	Back	Back	Back	Back	Back
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	71	72	73	74	75	76
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		54 a	44 a	59 a	53 a	37 a	58 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		59 a	46 a	42 ab	54 a	54 a	58 a
3 DMDS 76.35 G/A BC LDPE MULCH		56 a	45 a	43 ab	43 a	56 a	41 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		44 a	31 a	36 b	34 a	44 a	44 a
LSD (P=.05)		20.8	25.5	21.2	20.2	17.3	27.8
Standard Deviation		13.0	15.9	13.3	12.6	10.8	17.4
CV		24.57	38.26	29.47	27.57	22.66	34.61
Bartlett's X2		1.555	4.252	0.425	3.135	3.798	2.829
P(Bartlett's X2)		0.67	0.235	0.935	0.371	0.284	0.673

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

## University of Georgia

Weed Code	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	plant av	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Back	Back	Back	Back	Back	Back	Back	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	bed 1	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes							T4	
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	78	79	80	81	82	83	84
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		45 a	52 a	57 a	49 a	50 a	62 a	52 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		49 a	52 a	49 a	57 a	44 a	44 ab	51 a
3 DMDS 76.35 G/A BC LDPE MULCH		45 a	41 a	40 a	41 a	45 a	26 b	45 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		44 a	45 a	37 a	37 a	22 a	32 b	39 a
LSD (P=.05)		25.9	18.1	26.9	26.7	27.6	23.2	13.2
Standard Deviation		16.2	11.3	16.8	16.7	17.2	14.5	8.3
CV		35.44	23.99	37.01	36.49	42.99	35.58	17.79
Bartlett's X2		2.457	1.052	1.792	2.173	0.977	0.574	2.869
P(Bartlett's X2)		0.483	0.789	0.617	0.537	0.807	0.902	0.412

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

Column 84: T4 = @AVG([C64].[C83])

## University of Georgia

Weed Code	plant1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Back	Back	Back	Back	Back	Back	Back
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	85	86	87	88	89	90
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		50 a	40 a	49 a	37 a	44 a	51 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		57 a	56 a	50 a	51 a	48 a	64 a
3 DMDS 76.35 G/A BC LDPE MULCH		52 a	55 a	58 a	56 a	53 a	56 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		49 a	56 a	47 a	50 a	39 a	48 a
LSD (P=.05)		17.8	18.8	16.1	17.8	26.4	15.8
Standard Deviation		11.1	11.8	10.1	11.1	16.5	9.9
CV		21.53	22.77	19.78	23.07	35.95	19.52
Bartlett's X2		1.864	9.787	5.34	2.332	2.352	4.571
P(Bartlett's X2)		0.601	0.02*	0.149	0.506	0.503	0.206

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

## University of Georgia

Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Back	Back	Back	Back	Back	Back	Back	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	92	93	94	95	96	97	98
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		51 a	44 a	44 a	43 a	48 a	42 a	44 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		54 a	51 a	56 a	47 a	58 a	55 a	51 a
3 DMDS 76.35 G/A BC LDPE MULCH		60 a	50 a	54 a	45 a	60 a	50 a	47 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		55 a	58 a	50 a	42 a	44 a	47 a	53 a
LSD (P=.05)		18.3	21.9	20.5	21.1	23.3	24.1	18.9
Standard Deviation		11.4	13.7	12.8	13.2	14.6	15.1	11.8
CV		20.86	27.03	25.2	29.9	27.93	31.09	24.21
Bartlett's X2		2.949	2.41	1.673	2.169	9.725	11.457	2.076
P(Bartlett's X2)		0.399	0.492	0.643	0.538	0.021*	0.009*	0.557

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



## University of Georgia

Weed Code	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	plant av
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Back	Back	Back	Back	Back	Back	Back
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2	bed 2
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							T5
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	99	100	101	102	103	104
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		41 a	48 a	57 a	42 a	52 a	52 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		47 a	51 a	53 a	47 a	50 a	51 a
3 DMDS 76.35 G/A BC LDPE MULCH		59 a	53 a	52 a	47 a	53 a	54 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		39 a	53 a	54 a	49 a	51 a	42 a
LSD (P=.05)		22.5	20.8	21.2	32.5	23.6	24.1
Standard Deviation		14.1	13.0	13.3	20.3	14.8	15.1
CV		30.32	25.46	24.65	44.08	28.73	30.37
Bartlett's X2		4.344	9.485	2.352	1.626	1.188	1.575
P(Bartlett's X2)		0.227	0.023*	0.503	0.653	0.756	0.665

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

Column 105: T5 = @AVG([C85].[C104])

## University of Georgia

Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Back	Back	Back	Back	Back	Back	Back
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	106	107	108	109	110	111
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		47 a	50 a	52 a	48 a	44 a	36 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		49 a	46 a	40 a	45 a	41 a	50 a
3 DMDS 76.35 G/A BC LDPE MULCH		46 a	47 a	47 a	46 a	51 a	49 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		31 b	39 a	40 a	40 a	44 a	37 a
LSD (P=.05)		15.0	14.0	17.6	18.1	20.2	19.3
Standard Deviation		9.4	8.8	11.0	11.3	12.7	12.0
CV		21.68	19.29	24.71	25.37	28.17	28.13
Bartlett's X2		1.442	1.363	0.676	2.891	2.969	5.539
P(Bartlett's X2)		0.696	0.714	0.879	0.409	0.396	0.136
							18.8
							11.8
							26.63
							5.595
							0.133

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

## University of Georgia

Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	Back	Back	Back	Back	Back	Back	Back
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07
Crop Stage	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3
Assessed By							
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	113	114	115	116	117	118
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		51 a	56 a	50 a	40 a	54 a	46 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		51 a	50 a	47 a	46 a	43 a	46 a
3 DMDS 76.35 G/A BC LDPE MULCH		45 a	52 a	49 a	50 a	50 a	51 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		50 a	52 a	47 a	46 a	47 a	39 a
LSD (P=.05)		19.2	14.1	15.0	19.9	14.6	24.3
Standard Deviation		12.0	8.8	9.4	12.5	9.1	15.2
CV		24.43	16.8	19.5	27.47	18.96	33.44
Bartlett's X2		2.53	3.29	1.072	7.347	0.402	1.623
P(Bartlett's X2)		0.47	0.349	0.784	0.062	0.94	0.654
							11.0
							6.9
							14.62
							2.358
							0.501

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

## University of Georgia

Weed Code	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	Avg	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	Back	Back	Back	Back	Back	Back	Back	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	Sep-18-07	
Crop Stage	bed 3	bed 3	bed 3	bed 3	bed 3	bed 3		
Assessed By								
Trt-Eval Interval	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	234 DA-A	
ARM Action Codes							T13	
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	120	121	122	123	124	125	126
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		53 a	52 a	47 a	54 a	55 a	57 a	50 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		47 a	45 a	39 a	35 b	38 a	37 b	44 ab
3 DMDS 76.35 G/A BC LDPE MULCH		35 a	41 a	36 a	39 ab	38 a	39 ab	45 ab
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		50 a	41 a	34 a	29 b	42 a	39 ab	41 b
LSD (P=.05)		24.6	18.5	21.5	16.6	18.3	18.0	7.8
Standard Deviation		15.4	11.6	13.5	10.4	11.4	11.3	4.9
CV		33.35	26.04	34.43	26.69	26.32	26.26	10.88
Bartlett's X2		0.937	0.664	1.437	0.738	0.583	0.526	7.295
P(Bartlett's X2)		0.817	0.882	0.697	0.864	0.90	0.913	0.063

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

Column 126: T13 = @AVG([C106].[C125])

# University of Georgia

Weed Code	Avg	CUMSA	CUMSA	CUMSA	CYPES	IAQTA	IPOHE
Crop Code	120plant						
Part Rated	CUMSA						
Rating Data Type	ht	plants	plants	plants	#	#	#
Rating Unit	cm	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Sep-18-07	Sep-12-07	Sep-12-07	Sep-12-07	Sep-12-07	Sep-12-07	Sep-12-07
Crop Stage		bed 1	bed 2	bed 3			
Assessed By							
Trt-Eval Interval	234 DA-A	228 DA-A	228 DA-A	228 DA-A	228 DA-A	228 DA-A	228 DA-A
ARM Action Codes	T14						
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	127	128	129	130	131	132
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	52 a	610 a	606 a	629 a	0 b	1 a	0 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch	53 a	607 a	612 a	612 a	6 b	1 a	3 a
3 DMDS 76.35 G/A BC LDPE MULCH	52 a	608 a	611 a	631 a	34 a	0 a	1 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	48 a	608 a	634 a	623 a	4 b	1 a	2 a
LSD (P=.05)	8.5	78.8	92.4	83.0	15.5	1.7	4.4
Standard Deviation	5.3	49.3	57.8	51.9	9.7	1.1	2.7
CV	10.35	8.1	9.38	8.32	89.87	153.8	181.9
Bartlett's X2	1.019	3.07	4.988	1.63	2.757	3.125	10.699
P(Bartlett's X2)	0.797	0.381	0.173	0.653	0.252	0.373	0.013*

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

Column 127: T14 = ([C21]+[C42]+[C63]+[C84]+[C105]+[C126])/6

## University of Georgia

Weed Code	POROL	AMAVI	BIDFR	CASOB	MOLVE	SIDSP	Harv 1 CUMSA
Crop Code							
Part Rated							
Rating Data Type	#	#	#	#	#	#	super
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	# boxes
Rating Date	Sep-12-07	Sep-12-07	Sep-12-07	Sep-12-07	Sep-12-07	Sep-12-07	Oct-08-07
Crop Stage							
Assessed By							
Trt-Eval Interval	228 DA-A	228 DA-A	228 DA-A	228 DA-A	228 DA-A	228 DA-A	254 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name	Rate						
	Rate Unit	134	135	136	137	138	139
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	1 a	15 b	0 a	0 a	2 a	2 a	17 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch	1 a	14 b	2 a	0 a	0 a	1 a	18 a
3 DMDS 76.35 G/A BC LDPE MULCH	3 a	42 a	1 a	0 a	1 a	3 a	14 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	6 a	20 b	1 a	1 a	1 a	1 a	15 a
LSD (P=.05)	5.1	10.8	3.3	0.9	3.4	5.2	3.8
Standard Deviation	3.2	6.7	2.1	0.6	2.1	3.2	2.4
CV	125.15	29.77	219.36	311.11	240.18	206.35	15.25
Bartlett's X2	11.699	13.852	1.823	1.285	0.779	8.273	1.465
P(Bartlett's X2)	0.008*	0.003*	0.402	0.257	0.678	0.041*	0.69

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

## University of Georgia

Weed Code	Harv 1 CUMSA	Harv 1 CUMSA	Harv 1 CUMSA	Harv 1 CUMSA	Harv 1 CUMSA	Harv 1 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	
Crop Code									
Part Rated									
Rating Data Type	super *	selects	small	24 count	cull	large	super	super *	
Rating Unit	# fruit	# boxes	# boxes	# fruit	# fruit	# fruit	# boxes	# cucucm	
Rating Date	Oct-08-07	Oct-08-07	Oct-08-07	Oct-08-07	Oct-08-07	Oct-08-07	Oct-10-07	Oct-10-07	
Crop Stage									
Assessed By									
Trt-Eval Interval	254 DA-A	254 DA-A	254 DA-A	254 DA-A	254 DA-A	254 DA-A	254 DA-A	254 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	141	142	143	144	145	146	147	148
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		8 a	2 a	3 a	21 a	123 a	35 ab	7 a	5 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		8 a	3 a	3 a	23 a	142 a	38 a	7 a	5 a
3 DMDS 76.35 G/A BC LDPE MULCH		6 a	2 a	3 a	17 a	129 a	29 ab	9 a	5 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		7 a	2 a	3 a	19 a	144 a	24 b	8 a	5 a
LSD (P=.05)		1.3	0.7	1.7	5.9	41.6	12.2	2.4	1.7
Standard Deviation		0.8	0.4	1.1	3.7	26.0	7.6	1.5	1.1
CV		11.86	20.97	37.71	18.35	19.38	24.33	19.64	21.88
Bartlett's X2		0.776	0.715	7.442	0.719	1.244	0.651	1.395	0.609
P(Bartlett's X2)		0.855	0.87	0.059	0.869	0.742	0.885	0.707	0.894

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

## University of Georgia

Weed Code	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 3 CUMSA	Harv 3 CUMSA	Harv 3 CUMSA	
Crop Code									
Part Rated									
Rating Data Type	selects	small	24 count	cull	large	super	super *	selects	
Rating Unit	# boxes	# boxes	# fruit	# fruit	# fruit	# boxes	# fruit	# boxes	
Rating Date	Oct-10-07	Oct-10-07	Oct-10-07	Oct-10-07	Oct-10-07	Oct-19-07	Oct-19-07	Oct-19-07	
Crop Stage									
Assessed By									
Trt-Eval Interval	254 DA-A	254 DA-A	254 DA-A	254 DA-A	254 DA-A	256 DA-A	256 DA-A	256 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	149	150	151	152	153	154	155	156
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	1 a	1 a	12 a	126 a	6 a	6 a	3 a	1 a	
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch	1 a	0 a	14 a	136 a	8 a	5 a	3 a	1 a	
3 DMDS 76.35 G/A BC LDPE MULCH	1 a	1 a	12 a	138 a	3 a	5 a	3 a	1 a	
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	1 a	0 a	13 a	136 a	5 a	6 a	3 a	1 a	
LSD (P=.05)	0.5	0.5	6.7	46.4	7.6	2.3	0.7	0.6	
Standard Deviation	0.3	0.3	4.2	29.0	4.7	1.5	0.5	0.4	
CV	32.81	82.69	32.76	21.67	93.36	26.74	14.38	35.64	
Bartlett's X2	0.53	3.701	7.028	2.82	4.25	2.381	4.554	1.273	
P(Bartlett's X2)	0.912	0.296	0.071	0.42	0.236	0.497	0.207	0.736	

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



## University of Georgia

Weed Code	Harv 3 CUMSA	Harv 3 CUMSA	Harv 3 CUMSA	Harv 3 CUMSA	Harv 1-3 CUMSA	Harv1- 3 CUMSA	Harv1- 3 CUMSA	Harv1- 3 CUMSA	
Crop Code									
Part Rated									
Rating Data Type	small	24 count	cull	large	super	super *	selects	small	
Rating Unit	# boxes	# fruit	# fruit	# fruit	# boxes	# fruit	# boxes	# boxes	
Rating Date	Oct-19-07	Oct-19-07	Oct-19-07	Oct-19-07					
Crop Stage									
Assessed By									
Trt-Eval Interval	256 DA-A	256 DA-A	256 DA-A	256 DA-A	265 DA-A	265 DA-A	265 DA-A	265 DA-A	
ARM Action Codes					T6	T7	T8	T9	
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	157	158	159	160	161	162	163	164
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	1 a	9 a	144 a	50 a	29 a	16 a	4 a	4 a	
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch	0 a	9 a	145 a	42 a	30 a	15 ab	4 a	3 a	
3 DMDS 76.35 G/A BC LDPE MULCH	0 a	9 a	128 a	42 a	28 a	14 b	4 a	4 a	
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	0 a	10 a	154 a	58 a	29 a	15 ab	4 a	4 a	
LSD (P=.05)	0.4	4.2	44.8	36.2	4.0	1.2	1.2	2.5	
Standard Deviation	0.3	2.6	28.0	22.6	2.5	0.7	0.8	1.6	
CV	60.23	27.94	19.64	47.23	8.62	4.84	18.26	42.58	
Bartlett's X2	1.51	5.893	6.391	10.668	6.311	6.058	1.16	7.307	
P(Bartlett's X2)	0.68	0.117	0.094	0.014*	0.097	0.109	0.763	0.063	

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

Column 161: T6 = ([C140]+[C147]+[C154])

Column 162: T7 = ([C141]+[C148]+[C155])

Column 163: T8 = ([C142]+[C149]+[C156])

Column 164: T9 = ([C143]+[C150]+[C157])

# University of Georgia

Weed Code	Harv1-3	Harv 1-3	Harv1- 3	Root	RootKnot	Total Ha	Total Ha	Total Ha	
Crop Code	CUMSA	CUMSA	CUMSA	Galling	Infestat	CUMSA	CUMSA	CUMSA	
Part Rated									
Rating Data Type	24 count	cull	large	0 to 10	#	total super	Selects	Small	
Rating Unit	# fruit	# fruit	# fruit	rating	100cc	box/plot	box/plot	box/plot	
Rating Date									
Crop Stage									
Assessed By				Langston	Athens				
Trt-Eval Interval	265 DA-A	265 DA-A	265 DA-A						
ARM Action Codes	T10	T11	T12			T15			
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	165	166	167	169	170	172	173	174
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch		43 a	392 a	90 a	6 a	25 a	29 a	4 a	4 a
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch		45 a	423 a	88 a	4 a	48 a	30 a	4 a	3 a
3 DMDS 76.35 G/A BC LDPE MULCH		38 a	395 a	73 a	5 a	5 a	28 a	4 a	4 a
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch		42 a	434 a	87 a	5 a	29 a	29 a	4 a	4 a
LSD (P=.05)		12.2	68.2	45.0	3.5	100.4	4.0	1.2	2.5
Standard Deviation		7.7	42.6	28.2	2.2	62.8	2.5	0.8	1.6
CV		18.19	10.38	33.4	43.95	235.23	8.62	18.26	42.58
Bartlett's X2		1.183	1.68	2.2	1.228	12.659	6.311	1.16	7.307
P(Bartlett's X2)		0.757	0.641	0.532	0.746	0.005*	0.097	0.763	0.063

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

Column 165: T10 = ([C144]+[C151]+[C158])

Column 166: T11 = ([C145]+[C152]+[C159])

Column 167: T12 = ([C146]+[C153]+[C160])

Column 170: T15 = [C161]+[C162]

# University of Georgia

Weed Code	Total Ha CUMSA	Total Ha CUMSA	Value CUMSA	Value CUMSA	Value CUMSA	Value CUMSA	Value CUMSA	CUMSA returns	CUMSA returns				
Crop Code	large	24 cout	Super	Selects	Small	large	24 cout	total super	Selects				
Part Rated	box/plot	box/plot	box	box	box	box	box	box/plot	box/plot				
Rating Data Type													
Rating Unit													
Rating Date													
Crop Stage													
Assessed By													
Trt-Eval Interval													
ARM Action Codes	T16	T17						T18	T19				
# Subsamples, Dec.	2	2											
Trt No.	Treatment Name	Rate	Rate	Unit	175	176	178	179	180	181	182	184	185
1	MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	2.01 a	1.79 a	a	13 a	8 a	10 a	6 a	4 a	365 a	35 a		
2	MIDAS 171 lb/A BC Blocade 1.3 mil mulch	1.94 a	1.89 a	a	13 a	8 a	10 a	6 a	4 a	369 a	35 a		
3	DMDS 76.35 G/A BC LDPE MULCH	1.62 a	1.59 a	a	13 a	8 a	10 a	6 a	4 a	345 a	32 a		
4	Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	1.92 a	1.75 a	a	13 a	8 a	10 a	6 a	4 a	365 a	32 a		
LSD (P=.05)		1.001	0.510		0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8	9.8
Standard Deviation		0.626	0.319		0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.1	6.1
CV		33.4	18.19		0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.62	18.26
Bartlett's X2		2.2	1.183		0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.311	1.16
P(Bartlett's X2)		0.532	0.757		.	.	.	.	.	.	.	0.097	0.763

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

Column 173: T16 = [C167]/45

Column 174: T17 = [C165]/24

Column 180: T18 = [C172]\*[C178]

Column 181: T19 = [C173]\*[C179]

# University of Georgia

Weed Code	CUMSA returns	CUMSA returns	CUMSA returns	CUMSA Returns	CUMSA Returns	CUMSA Returns	CPSAN Ret-cost	Returns CUM/CP SA	
Crop Code									
Part Rated									
Rating Data Type	Small	large	24 cout	all sizes	all sizes	all sizes	all sizes	crop1&2	
Rating Unit	box/plot	box/plot	box/plot	per plot	acre	acre	acre	acre	
Rating Date									
Crop Stage									
Assessed By									
Trt-Eval Interval									
ARM Action Codes	T20	T21	T22	T23	T24			T25	
# Subsamples, Dec.		2	2						
Trt Treatment	Rate								
No. Name	Rate Unit	186	187	188	190	191	193	194	195
1 MB 57:43 443 lb/A BC LDPE 1.25 mil mulch	40 a	12.03 a	7.15 a	459 a	1913 a	1913 a	10872 a	12785 a	
2 MIDAS 171 lb/A BC Blocade 1.3 mil mulch	34 a	11.67 a	7.55 a	457 a	1904 a	1904 a	9969 ab	11873 ab	
3 DMDS 76.35 G/A BC LDPE MULCH	38 a	9.73 a	6.36 a	430 a	1793 a	1793 a	9799 b	11592 b	
4 Telone II 10 GPA BC Chloropic 145.6 lb/A BC Vapam 75 GPA LDPE Mulch	38 a	11.53 a	7.00 a	453 a	1889 a	1889 a	10391 ab	12280 ab	
LSD (P=.05)	25.4	6.005	2.041	67.6	281.7	281.7	877.1	918.7	
Standard Deviation	15.9	3.754	1.276	42.3	176.1	176.1	548.4	574.3	
CV	42.58	33.4	18.19	9.4	9.4	9.4	5.35	4.73	
Bartlett's X2	7.307	2.2	1.183	0.591	0.591	0.591	1.313	0.711	
P(Bartlett's X2)	0.063	0.532	0.757	0.899	0.899	0.899	0.726	0.871	

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

Column 182: T20 = [C174]\*[C180]

Column 183: T21 = [C175]\*[C181]

Column 184: T22 = [C176]\*[C182]

Column 185: T23 = [C184]+[C185]+[C186]+[C187]+[C188]

Column 186: T24 = [C190]\*4.16667

Column 189: T25 = [193]+[194]

# University of Georgia

## 2007 Large Acreage Replicated On Farm MB Alternative Trial

Trial ID: Veg42-07                                  Study Dir.: Martin Flora  
 Location: Southern Valley Produc              Investigator: Stanley Culpepper

### GENERAL TRIAL INFORMATION

**Study Director:** Martin Flora                                  **Title:** Farm Manager  
**Affiliation:** Southern Valley Produce  
**Postal Code:** 31794

**Investigator:** Stanley Culpepper                                  **Title:** Ext Weed Scientist  
**Affiliation:** University of Georgia  
**Postal Code:** 31794

### TRIAL LOCATION

**City:** Moultrie                                  **Trial Status:** completed  
**State/Prov.:** Ga                                  **Trial Reliability:** excellent  
**Postal Code:** \_\_\_\_\_                                  **Initiation Date:** Jan-27-07  
**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.	CYPES	Edible cyperus	Cyperus esculentus
2.	SIDRH	Rhomboid ilima	Sida rhombifolia
3.	AMAVI	Amaranth, slender	Amaranthus viridis

**Crop 1:** CPSAN Bell Pepper                                  **Variety:** Aristotle  
**Planting Date:** Mar-01-07                                  **Planting Method:** transplant  
**Rate:** 12 inch                                  **Depth:** 1.5 in                                  **Perennial Age:** \_\_\_\_ \_\_\_\_  
**Row Spacing:** 15 inch                                  **Spacing Within Row:** 12 inch                                  **Seed Bed:** plastic  
**Soil Temperature:** 84 F                                  **Soil Moisture:** drip                                  **Emergence Date:** \_\_\_\_\_

**Crop 2:** CUMSA Cucumber                                  **Variety:** Thunder  
**Planting Date:** Aug-27-07                                  **Planting Method:** transplant  
**Rate:** 12 inch                                  **Depth:** 1.5 in                                  **Perennial Age:** \_\_\_\_ \_\_\_\_  
**Row Spacing:** 15 inch                                  **Spacing Within Row:** 12 inch                                  **Seed Bed:** plastic  
**Soil Temperature:** 94 F                                  **Soil Moisture:** moist/drip                                  **Emergence Date:** \_\_\_\_\_

### SITE AND DESIGN

**Plot Width, Unit:** 15 FT                                  **Plot Length, Unit:** 697 FT                                  **Reps:** 4  
**Site Type:** On farm  
**Tillage Type:** Conventional                                  **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**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: 80	% OM: 0.86	Texture: loamy sand
% Silt: 20	pH: 7.15	Soil Name: _____
% Clay: 0	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
Application Date:	Jan-27-07
Time of Day:	2:00pm
Application Method:	band
Application Timing:	preplant
Applic. Placement:	in bed
Air Temp., Unit:	58 F
% Relative Humidity:	52
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	55 F
Soil Moisture:	moist
% Cloud Cover:	75

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	CPSAN preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 2 Code, Stage:	CUMSA preplant
Stage Scale:	not up
Height, Unit:	0 inch

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPES preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 2 Code, Stage:	SIDRH preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 3 Code, Stage:	AMAVI preplant
Stage Scale:	not up
Density, Unit:	see data

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comment
Nozzle Type:	section
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

Trt No	Treatment Application Comment