

University of Georgia

DMDS in value = 97% 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 = 104% in value of MB; MIDAS equalled 99% in value of MB; and DMDS = 100% in value of MB.

GENERAL COMMENTS:

1. Individual plots were 0.396 to 0.401 acres of land.
2. Trial initiated on Feb 13, 2007. Took 6 hours to put all treatments out. Soil temp at 8 inch was 61 F and 66 F at 4 inch. Soil moisture was 73% at 12 inch and 65% 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.

University of Georgia

2007 Large Acreage Replicated On Farm MB Alternative Trial.

Trial ID: Veg43-07

Study Dir.: Russ Hamlin

Location: Coggins Farm

Investigator: Stanley Culpepper

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	1	2	3	4	5	6	7
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		22 a	24 a	21 a	22 a	17 a	24 a	24 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		24 a	24 a	22 a	22 a	19 a	20 a	21 ab
3 DMDS 73.6 G/A BC LDPE MULCH		21 a	17 a	18 a	12 a	22 a	20 a	17 b
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		17 a	23 a	20 a	20 a	16 a	17 a	18 b
LSD (P=.05)		9.0	9.0	10.5	10.8	9.2	10.0	5.2
Standard Deviation		5.6	5.7	6.5	6.8	5.7	6.2	3.2
CV		26.92	26.06	32.07	35.8	31.54	31.04	16.36
Bartlett's X2		4.386	6.552	10.949	5.143	4.579	1.586	4.553
P(Bartlett's X2)		0.223	0.088	0.012*	0.162	0.205	0.663	0.208

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		8	9	10	11	12	13
1	MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	23 a	22 a	20 a	18 a	18 a	21 a
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	19 a	26 a	18 a	17 a	22 a	20 a
3	DMDS 73.6 G/A BC LDPE MULCH	20 a	18 a	18 a	21 a	23 a	21 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	15 a	19 a	16 a	24 a	23 a	20 a
LSD (P=.05)		11.0	8.5	7.6	9.1	6.3	6.9
Standard Deviation		6.9	5.3	4.7	5.7	3.9	4.4
CV		36.21	25.05	26.19	28.6	18.34	21.08
Bartlett's X2		0.504	0.554	0.101	1.376	2.933	1.022
P(Bartlett's X2)		0.918	0.907	0.992	0.711	0.402	0.848

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

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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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes							T1	
Trt Treatment	Rate							
No. Name	Rate Unit	15	16	17	18	19	20	21
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		25 a	16 a	23 a	21 b	19 a	23 a	21 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		21 a	21 a	20 a	26 a	19 a	23 a	21 a
3 DMDS 73.6 G/A BC LDPE MULCH		20 a	18 a	18 a	20 b	18 a	20 a	19 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		19 a	20 a	19 a	19 b	14 a	21 a	19 a
LSD (P=.05)		7.5	7.6	7.8	5.0	6.6	6.0	2.6
Standard Deviation		4.7	4.7	4.9	3.2	4.1	3.8	1.6
CV		22.1	25.39	24.41	14.67	23.64	17.39	8.17
Bartlett's X2		5.077	1.064	1.544	1.625	2.109	8.07	3.077
P(Bartlett's X2)		0.166	0.786	0.672	0.654	0.55	0.045*	0.38

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

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

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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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	22	23	24	25	26	27	28
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		21 a	17 a	21 a	14 b	23 ab	21 ab	20 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		23 a	20 a	19 a	25 a	26 a	23 a	20 a
3 DMDS 73.6 G/A BC LDPE MULCH		19 a	14 a	20 a	21 ab	16 b	15 c	20 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		19 a	19 a	20 a	21 ab	19 ab	17 bc	18 a
LSD (P=.05)		5.7	7.7	6.3	7.1	6.4	4.3	7.4
Standard Deviation		3.6	4.8	3.9	4.5	4.0	2.7	4.7
CV		17.82	27.38	19.8	21.9	19.08	14.18	24.35
Bartlett's X2		2.08	2.42	1.245	11.667	0.258	4.741	1.212
P(Bartlett's X2)		0.556	0.49	0.742	0.009*	0.968	0.192	0.75

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	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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	29	30	31	32	33	34	35
Treatment Name							
Rate							
Unit							
1 MB 57:43 LDPE 1.25 mil mulch	21 a	19 a	24 a	17 b	17 a	23 a	17 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	22 a	20 a	23 a	24 a	19 a	23 a	19 a
3 DMDS 73.6 G/A BC LDPE MULCH	16 a	20 a	24 a	23 a	18 a	19 a	15 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	18 a	21 a	18 a	15 b	16 a	19 a	20 a
LSD (P=.05)	6.6	7.9	8.0	6.2	4.4	7.8	5.8
Standard Deviation	4.1	5.0	5.0	3.9	2.8	4.9	3.6
CV	21.78	24.83	22.41	19.58	15.94	23.35	20.7
Bartlett's X2	2.665	4.175	4.38	1.794	2.365	0.151	1.353
P(Bartlett's X2)	0.446	0.243	0.223	0.616	0.50	0.985	0.717

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes							T2	
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		16 a	20 a	16 a	20 a	19 a	18 a	19 ab
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		21 a	21 a	24 a	22 a	23 a	20 a	22 a
3 DMDS 73.6 G/A BC LDPE MULCH		14 a	20 a	20 a	17 a	19 a	16 a	18 b
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		20 a	25 a	21 a	20 a	15 a	20 a	19 ab
LSD (P=.05)		6.4	8.7	11.4	5.0	9.7	7.9	2.5
Standard Deviation		4.0	5.4	7.1	3.1	6.1	4.9	1.6
CV		22.9	25.19	35.55	16.08	32.19	26.44	8.13
Bartlett's X2		4.889	1.492	4.557	1.409	3.517	1.833	4.073
P(Bartlett's X2)		0.18	0.684	0.207	0.704	0.319	0.608	0.254

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

Column 42: T2 = @AVG([C22].[C41])

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	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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	43	44	45	46	47	48	49
Treatment Name							
Rate							
Unit							
1 MB 57:43 LDPE 1.25 mil mulch	20 a	21 a	18 a	18 b	21 a	20 a	20 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	22 a	24 a	23 a	23 a	23 a	21 a	22 a
3 DMDS 73.6 G/A BC LDPE MULCH	20 a	17 a	21 a	21 ab	18 a	18 a	17 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	19 a	19 a	20 a	19 ab	22 a	18 a	16 a
LSD (P=.05)	6.0	9.8	5.1	4.7	6.6	7.4	7.1
Standard Deviation	3.8	6.1	3.2	2.9	4.1	4.6	4.4
CV	18.78	30.42	15.56	14.36	19.72	24.36	24.02
Bartlett's X2	4.008	6.308	1.983	2.467	0.307	3.927	2.42
P(Bartlett's X2)	0.261	0.098	0.576	0.481	0.959	0.269	0.49

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
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 LDPE 1.25 mil mulch	366.9 lb/A BC					
		26 a	21 ab	18 a	21 a	16 b	28 a
2	MIDAS Blocade 1.3 mil mulch	170.2 lb/A BC					
		22 ab	24 a	22 a	22 a	22 a	24 a
3	DMDS LDPE MULCH	73.6 G/A BC					
		15 b	13 c	19 a	17 a	14 b	24 a
4	Telone II Chloropic Vapam LDPE Mulch	16 GPA BC					
		20 ab	17 bc	20 a	18 a	18 ab	22 a
	LSD (P=.05)	9.6	6.5	10.7	8.4	5.3	9.0
	Standard Deviation	6.0	4.1	6.7	5.3	3.3	5.6
	CV	29.01	21.5	34.69	26.97	19.06	23.21
	Bartlett's X2	4.803	3.809	1.749	3.958	3.754	16.527
	P(Bartlett's X2)	0.187	0.283	0.626	0.266	0.289	0.001*

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes							T3	
Trt Treatment	Rate							
No. Name	Rate Unit	57	58	59	60	61	62	63
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		20 ab	20 ab	21 a	19 ab	22 a	18 b	20 ab
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		26 a	25 a	20 a	23 a	21 a	27 a	23 a
3 DMDS 73.6 G/A BC LDPE MULCH		19 ab	19 b	21 a	22 ab	20 a	20 b	19 b
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		15 b	17 b	17 a	16 b	20 a	19 b	18 b
LSD (P=.05)		6.8	5.9	8.8	5.9	8.4	5.0	2.5
Standard Deviation		4.2	3.7	5.5	3.7	5.3	3.1	1.6
CV		21.3	18.13	27.96	18.51	25.71	15.09	7.75
Bartlett's X2		3.902	2.291	2.958	4.337	4.073	1.313	6.198
P(Bartlett's X2)		0.272	0.514	0.398	0.227	0.254	0.726	0.102

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

Column 63: T3 = @AVG([C43].[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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		64	65	66	67	68	69
1	MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	16 a	14 a	19 a	17 a	22 a	16 a
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	16 a	18 a	21 a	19 a	19 ab	19 a
3	DMDS 73.6 G/A BC LDPE MULCH	20 a	21 a	17 a	17 a	15 b	18 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	18 a	20 a	15 a	16 a	17 ab	17 a
	LSD (P=.05)	6.7	7.8	8.4	4.5	5.9	8.3
	Standard Deviation	4.2	4.9	5.3	2.8	3.7	5.2
	CV	23.79	26.91	29.3	16.45	20.03	30.25
	Bartlett's X2	0.61	0.63	0.573	2.2	0.482	3.013
	P(Bartlett's X2)	0.894	0.89	0.903	0.532	0.923	0.39

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		71	72	73	74	75	76
		77					
1	MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	18 a	17 ab	15 a	16 b	15 b	21 a
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	20 a	22 a	19 a	21 a	20 a	20 a
3	DMDS 73.6 G/A BC LDPE MULCH	21 a	20 ab	15 a	14 b	15 b	15 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	20 a	14 b	16 a	18 ab	18 ab	16 a
	LSD (P=.05)	7.3	5.6	7.6	4.3	4.0	8.9
	Standard Deviation	4.5	3.5	4.8	2.7	2.5	5.6
	CV	22.89	19.45	29.45	15.48	14.73	31.04
	Bartlett's X2	1.834	0.291	1.639	7.181	2.144	5.195
	P(Bartlett's X2)	0.608	0.962	0.651	0.066	0.543	0.158

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	Bed 1	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes							T4	
Trt Treatment	Rate							
No. Name	Rate Unit	78	79	80	81	82	83	84
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		18 a	17 a	16 a	13 b	18 a	16 a	17 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		19 a	20 a	14 a	22 a	15 a	16 a	19 a
3 DMDS 73.6 G/A BC LDPE MULCH		21 a	16 a	17 a	20 a	16 a	22 a	18 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		17 a	16 a	17 a	20 a	18 a	20 a	18 a
LSD (P=.05)		6.8	4.9	5.8	6.1	11.7	6.7	2.0
Standard Deviation		4.2	3.1	3.6	3.8	7.3	4.2	1.2
CV		22.94	17.76	22.74	20.32	44.28	23.19	6.91
Bartlett's X2		2.709	0.699	4.225	0.436	3.086	3.137	1.603
P(Bartlett's X2)		0.439	0.873	0.238	0.933	0.379	0.371	0.659

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	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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		85	86	87	88	89	90
1	MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	15 a	17 a	19 a	17 a	16 a	20 a
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	20 a	18 a	20 a	23 a	18 a	20 a
3	DMDS 73.6 G/A BC LDPE MULCH	20 a	20 a	20 a	18 a	19 a	17 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	18 a	20 a	19 a	20 a	19 a	17 a
LSD (P=.05)		8.3	8.5	7.9	5.9	5.9	6.3
Standard Deviation		5.2	5.3	5.0	3.7	3.7	3.9
CV		28.33	28.28	25.8	19.06	21.08	21.5
Bartlett's X2		0.998	1.696	3.183	1.604	1.439	3.297
P(Bartlett's X2)		0.802	0.638	0.364	0.659	0.696	0.348

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	92	93	94	95	96	97	98
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		17 b	19 a	19 ab	16 a	17 a	16 a	20 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		23 a	21 a	18 b	18 a	21 a	16 a	24 a
3 DMDS 73.6 G/A BC LDPE MULCH		20 ab	19 a	20 ab	19 a	16 a	19 a	18 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		18 b	17 a	24 a	16 a	15 a	17 a	18 a
LSD (P=.05)		5.0	4.6	5.7	5.3	9.9	7.2	8.0
Standard Deviation		3.1	2.9	3.5	3.3	6.2	4.5	5.0
CV		16.0	15.27	17.72	19.49	36.19	26.94	25.35
Bartlett's X2		3.214	4.606	4.052	4.304	2.703	1.699	2.151
P(Bartlett's X2)		0.36	0.203	0.256	0.23	0.44	0.637	0.542

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	
Crop Stage	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	Bed 2	
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	
ARM Action Codes							T5	
Trt Treatment	Rate							
No. Name	Rate Unit	99	100	101	102	103	104	105
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		19 a	14 a	16 a	16 a	18 a	18 a	17 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		19 a	21 a	23 a	19 a	18 a	22 a	20 a
3 DMDS 73.6 G/A BC LDPE MULCH		22 a	16 a	18 a	18 a	16 a	17 a	18 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		15 a	14 a	17 a	16 a	19 a	17 a	18 a
LSD (P=.05)		8.1	7.5	10.2	8.5	8.6	5.1	2.6
Standard Deviation		5.1	4.7	6.3	5.3	5.4	3.2	1.6
CV		27.02	28.69	34.78	31.37	30.95	17.16	9.01
Bartlett's X2		3.585	4.038	7.455	4.356	3.037	4.262	8.94
P(Bartlett's X2)		0.31	0.257	0.059	0.225	0.386	0.235	0.03*

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07		
Crop Stage	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3		
Assessed By									
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Unit						
		106		107	108	109	110	111	112
1	MB 57:43 LDPE 1.25 mil mulch	366.9 lb/A BC		20 a	19 a	19 a	17 a	15 a	19 a
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch			17 a	18 a	20 a	20 a	18 a	18 a
3	DMDS 73.6 G/A BC LDPE MULCH			18 a	18 a	20 a	16 a	16 a	23 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch			18 a	18 a	18 a	20 a	22 a	20 a
LSD (P=.05)		6.2		5.5	6.5	4.9	6.8	7.6	6.0
Standard Deviation		3.9		3.4	4.1	3.1	4.2	4.8	3.7
CV		20.63		19.01	22.3	15.92	23.43	27.03	18.93
Bartlett's X2		0.403		0.258	1.517	0.935	5.408	0.363	1.007
P(Bartlett's X2)		0.94		0.968	0.678	0.817	0.144	0.948	0.80

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		113	114	115	116	117	118
1	MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	14 a	18 a	17 a	20 a	21 ab	18 a
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	18 a	18 a	20 a	20 a	15 b	19 a
3	DMDS 73.6 G/A BC LDPE MULCH	20 a	18 a	16 a	16 a	23 a	19 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	19 a	17 a	17 a	17 a	19 ab	20 a
LSD (P=.05)		8.7	4.8	7.0	7.3	7.0	9.7
Standard Deviation		5.4	3.0	4.4	4.6	4.4	6.0
CV		30.8	17.1	25.18	25.34	22.61	32.14
Bartlett's X2		3.913	1.609	6.563	6.876	14.256	1.035
P(Bartlett's X2)		0.271	0.657	0.087	0.076	0.003*	0.793
							3.5
							2.2
							11.47
							2.55
							0.466

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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-19-07
Crop Stage	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3	Bed 3
Assessed By							
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A	218 DA-A
ARM Action Codes							T6
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		120	121	122	123	124	125
1	MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	21 a	17 a	17 a	16 a	22 a	12 b
2	MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	17 a	14 a	14 a	21 a	19 a	21 a
3	DMDS 73.6 G/A BC LDPE MULCH	17 a	12 a	19 a	22 a	19 a	21 a
4	Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	18 a	19 a	19 a	19 a	21 a	21 a
LSD (P=.05)		4.9	10.1	8.6	8.9	10.7	5.5
Standard Deviation		3.1	6.3	5.4	5.6	6.7	3.4
CV		16.84	40.89	31.66	28.7	33.44	18.41
Bartlett's X2		1.016	4.357	2.448	0.238	2.25	1.698
P(Bartlett's X2)		0.797	0.225	0.485	0.971	0.522	0.637

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

Column 126: T6 = @AVG([C106].[C125])

University of Georgia

Weed Code	Avg120	CUMSA	CUMSA	CUMSA	CYPES	IPOLA	POROL	
Crop Code	plants							
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-19-07	Sep-19-07	Sep-19-07	Sep-19-07	Sep-10-07	Sep-10-07	Sep-10-07	
Crop Stage		Bed 1	Bed 2	Bed 3				
Assessed By								
Trt-Eval Interval	218 DA-A	218 DA-A	218 DA-A	218 DA-A	209 DA-A	209 DA-A	209 DA-A	
ARM Action Codes	T12							
Trt Treatment	Rate							
No. Name	Rate Unit	127	128	129	130	131	132	133
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	19 b	538 a	495 a	498 a	13 b	156 a	41 a	
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	20 a	515 a	545 a	527 a	13 b	91 a	42 a	
3 DMDS 73.6 G/A BC LDPE MULCH	18 b	492 a	517 a	525 a	35 a	135 a	47 a	
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	18 b	541 a	472 a	534 a	20 b	91 a	49 a	
LSD (P=.05)	0.8	92.6	103.9	71.8	10.8	80.2	27.9	
Standard Deviation	0.5	57.9	64.9	44.9	6.8	50.1	17.5	
CV	2.74	11.1	12.81	8.61	33.79	42.44	39.05	
Bartlett's X2	5.058	5.025	2.169	0.969	5.444	1.65	0.511	
P(Bartlett's X2)	0.168	0.17	0.538	0.809	0.142	0.648	0.916	

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

Column 127: T12 = ([C21]+[C42]+[C63]+[C84]+[C105]+[C126])/6

University of Georgia

Weed Code	AMAVI	Nematode ratings	Root Kno soil sam	Harv 1 CUMSA	Harv 1 CUMSA	Harv 1 CUMSA	Harv 1 CUMSA	
Crop Code								
Part Rated								
Rating Data Type	#	0-10 scale	#	small box	carton box	super box	select box	
Rating Unit	per plot		100 cc					
Rating Date	Sep-10-07			Oct-11-07	Oct-11-07	Oct-11-07	Oct-11-07	
Crop Stage								
Assessed By		Langston	Langston					
Trt-Eval Interval	209 DA-A			240 DA-A	240 DA-A	240 DA-A	240 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	134	136	137	139	140	141	142
1 MB 57:43 LDPE 1.25 mil mulch	366.9 lb/A BC	106 b	4 a	0 a	0 b	29 a	12 a	8 a
2 MIDAS Blocade 1.3 mil mulch	170.2 lb/A BC	142 b	5 a	13 a	0 ab	33 a	15 a	9 a
3 DMDS LDPE MULCH	73.6 G/A BC	246 a	4 a	0 a	1 a	30 a	13 a	8 a
4 Telone II Chloropic Vapam LDPE Mulch	16 GPA BC	140 b	4 a	1 a	0 ab	30 a	12 a	8 a
LSD (P=.05)		68.8	1.6	20.3	0.2	9.5	4.6	3.3
Standard Deviation		43.0	1.0	12.7	0.1	6.0	2.9	2.0
CV		27.2	23.9	369.45	28.69	19.58	21.82	24.58
Bartlett's X2		5.729	3.022	9.328	7.108	3.463	2.82	3.316
P(Bartlett's X2)		0.126	0.388	0.002*	0.069	0.326	0.42	0.345

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

University of Georgia

Weed Code	Harv 1 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 3 CUMSA
Crop Code								
Part Rated								
Rating Data Type	total	small	carton	super	select	36 ct box	total	small
Rating Unit	box	box	box	box	box	box	box	box
Rating Date	Oct-11-07	Oct-15-07	Oct-15-07	Oct-15-07	Oct-15-07	Oct-15-07	Oct-15-07	Oct-18-07
Crop Stage								
Assessed By								
Trt-Eval Interval	240 DA-A	240 DA-A	240 DA-A	240 DA-A	240 DA-A	244 DA-A	240 DA-A	244 DA-A
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	143	144	145	146	147	148	149
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		49 a	0 a	8 a	7 a	4 ab	4 a	24 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		58 a	0 a	10 a	6 a	5 a	4 a	25 a
3 DMDS 73.6 G/A BC LDPE MULCH		51 a	0 a	10 a	8 a	5 a	5 a	28 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		51 a	0 a	8 a	7 a	4 b	4 a	23 a
LSD (P=.05)		12.7	0.3	2.4	1.6	1.2	1.0	4.8
Standard Deviation		7.9	0.2	1.5	1.0	0.7	0.6	3.0
CV		15.14	98.86	16.72	14.37	17.18	14.11	12.0
Bartlett's X2		3.133	2.09	2.554	2.49	7.751	2.074	2.632
P(Bartlett's X2)		0.372	0.554	0.466	0.477	0.051	0.557	0.452

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 3 CUMSA	Harv 3 CUMSA	Harv 1-3 CUMSA	Harv 1-3 CUMSA
Crop Code								
Part Rated								
Rating Data Type	carton	select	super	large	plain	total	small	carton
Rating Unit	box	box	box	box	box	box	box	box
Rating Date	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07
Crop Stage								
Assessed By								
Trt-Eval Interval	244 DA-A	244 DA-A	244 DA-A	244 DA-A	247 DA-A	244 DA-A	247 DA-A	247 DA-A
ARM Action Codes							T7	T8
Trt Treatment								
No. Name	Rate Rate Unit							
		151	152	153	154	155	156	157
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	6 a	3 a	2 a	0 a	2 a	14 a	2 a	43 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	5 a	3 a	3 a	0 a	2 a	14 a	1 a	47 a
3 DMDS 73.6 G/A BC LDPE MULCH	6 a	3 a	3 a	0 a	2 a	15 a	1 a	46 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	6 a	3 a	3 a	1 a	2 a	15 a	1 a	45 a
LSD (P=.05)	2.6	0.9	0.9	0.3	0.8	3.1	2.0	9.8
Standard Deviation	1.6	0.6	0.6	0.2	0.5	1.9	1.2	6.1
CV	27.32	19.71	20.06	47.14	27.37	13.3	90.01	13.46
Bartlett's X2	0.91	5.737	7.474	1.121	0.559	2.131	17.311	1.718
P(Bartlett's X2)	0.823	0.125	0.058	0.571	0.906	0.546	0.001*	0.633

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

Column 155: T7 = ([C139]+[C144]+[C150])

Column 156: T8 = ([C140]+[C145]+[C151])

University of Georgia

Weed Code	Harv 1-3	Harv 1-3	Harv 1-3	Harv 1-3	Harv 1-3	Value	Value	Value	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated									
Rating Data Type	select	super	large	plain	total	Super	Selects	Small	
Rating Unit	box	box	box	box	box	box	box	box	
Rating Date	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07	Oct-18-07				
Crop Stage									
Assessed By									
Trt-Eval Interval	247 DA-A	247 DA-A	244 DA-A	247 DA-A	247 DA-A				
ARM Action Codes	T9	T10			T11				
Trt Treatment	Rate								
No. Name	Rate Unit	159	160	161	162	163	165	166	167
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch	14 a	22 a	0 a	2 a	87 a	13 a	8 a	10 a	
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch	17 a	24 a	0 a	2 a	96 a	13 a	8 a	10 a	
3 DMDS 73.6 G/A BC LDPE MULCH	16 a	24 a	0 a	2 a	94 a	13 a	8 a	10 a	
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch	15 a	22 a	1 a	2 a	89 a	13 a	8 a	10 a	
LSD (P=.05)	3.4	5.0	0.3	0.8	12.4	0.0	0.0	0.0	
Standard Deviation	2.1	3.1	0.2	0.5	7.8	0.0	0.0	0.0	
CV	13.8	13.47	47.14	27.37	8.49	0.0	0.0	0.0	
Bartlett's X2	2.72	1.827	1.121	0.559	0.595	0.0	0.0	0.0	
P(Bartlett's X2)	0.437	0.609	0.571	0.906	0.898	.	.	.	

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

Column 157: T9 = ([C142]+[C147]+[C152])

Column 158: T10 = ([C141]+[C146]+[C153])

Column 161: T11 = ([C143]+[C149]+[C156])

University of Georgia

Weed Code	Value CUMSA	Value CUMSA	Returns CUMSA	Returns CUMSA	Returns CUMSA	Returns CUMSA	Returns CUMSA	CUMSA VALUE	CUMSA VALUE			
Crop Code	large box	24 cout box	small box	carton box	select box	super box	large box	all sizes per plot	all sizes per acre			
Part Rated												
Rating Data Type												
Rating Unit												
Rating Date												
Crop Stage												
Assessed By												
Trt-Eval Interval												
ARM Action Codes			T13	T14	T15	T16	T17	T18	T19			
Trt No.	Treatment Name	Rate	Rate Unit	168	169	171	172	173	174	175	177	178
1	MB 57:43 LDPE 1.25 mil mulch	366.9 lb/A BC		6 a	4 a	21 a	174 a	129 a	276 a	3 a	602 a	1505 a
2	MIDAS Blocade 1.3 mil mulch	170.2 lb/A BC		6 a	4 a	9 a	189 a	153 a	299 a	2 a	652 a	1630 a
3	DMDS LDPE MULCH	73.6 G/A BC		6 a	4 a	13 a	183 a	140 a	302 a	2 a	639 a	1598 a
4	Telone II Chloropic Vapam 75 GPA LDPE Mulch	16 GPA BC		6 a	4 a	11 a	180 a	132 a	280 a	3 a	606 a	1515 a
LSD (P=.05)				0.0	0.0	19.8	39.0	29.5	62.4	1.7	101.6	254.0
Standard Deviation				0.0	0.0	12.4	24.4	18.5	39.0	1.1	63.5	158.8
CV				0.0	0.0	90.01	13.46	13.36	13.47	47.14	10.17	10.17
Bartlett's X2				0.0	0.0	17.311	1.718	2.469	1.827	1.121	0.126	0.126
P(Bartlett's X2)				.	.	0.001*	0.633	0.481	0.609	0.571	0.988	0.988

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

Column 167: T13 = [157]*[167]

Column 168: T14 = [158]*[169]

Column 169: T15 = ([159]+[162])*[166]

Column 170: T16 = [160]*[165]

Column 171: T17 = [161]*[168]

Column 172: T18 = [171]+[172]+[173]+[174]+[175]

Column 173: T19 = [177]*2.5

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Weed Code	CPSAN	Fum/Mulc	CPS/CUM
Crop Code	VALUE	Costs	VALUE
Part Rated			
Rating Data Type	per /A	A	A
Rating Unit	\$	\$	\$
Rating Date			
Crop Stage			
Assessed By			
Trt-Eval Interval			
ARM Action Codes			T20
Trt Treatment	Rate		
No. Name	Rate Unit	179	180
1 MB 57:43 366.9 lb/A BC LDPE 1.25 mil mulch		12943 ab	1039 b 13409 a
2 MIDAS 170.2 lb/A BC Blocade 1.3 mil mulch		13105 ab	1510 a 13226 a
3 DMDS 73.6 G/A BC LDPE MULCH		12584 b	808 c 13374 a
4 Telone II 16 GPA BC Chloropic 150 lb/A BC Vapam 75 GPA LDPE Mulch		13218 a	808 c 13925 a
LSD (P=.05)	527.8	0.0	675.5
Standard Deviation	330.0	0.0	422.3
CV	2.55	0.0	3.13
Bartlett's X2	2.901	0.0	0.85
P(Bartlett's X2)	0.407	.	0.837

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

Column 176: T20 = ([178]+[179])-[180]

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2007 Large Acreage Replicated On Farm MB Alternative Trial.

Trial ID: Veg43-07
 Location: Coggins Farm

Study Dir.: Russ Hamlin
 Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Russ Hamlin **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

Investigator: Stanley Culpepper and David Langston **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

TRIAL LOCATION

City: Echols County **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: _____ **Initiation Date:** Feb-13-07
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.	CYPZZ	yellow and purple nutsedge	
2.	IPOLA	pitted morningglory	
3.	IAQTA	smallflower morningglory	
4.	AMALI	lividus amaranthus	
5.	MOLVE	carpetweed	
6.	PORPI	pink purslane	

Crop 1: CSPAN Bell pepper **Variety:** Plato
Planting Date: Mar-26-07 **Planting Method:** transplant
Rate: 1 per 12inch **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulch
Soil Temperature: 82 f **Soil Moisture:** drip **Emergence Date:** _____

Crop 2: CUMSA Cucumber **Variety:** Thunder
Planting Date: Aug-28-07 **Planting Method:** transplant
Rate: 1 per 12inch **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 5 ft **Spacing Within Row:** 12 inch **Seed Bed:** plastic
Soil Temperature: 96 F **Soil Moisture:** moist/drip **Emergence Date:** _____

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SITE AND DESIGN

Plot Width, Unit: 15 FT Plot Length, Unit: 1200 FT Reps: 4
 Site Type: On farm
 Tillage Type: Conventional Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance: Land was disked and broke prior to fumigating.

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

SOIL DESCRIPTION

% Sand: 92 % OM: 1.10 Texture: Sand
 % Silt: 8 pH: 7.29 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:	Feb-13-07
Time of Day:	10 am
Application Method:	band
Application Timing:	preplant
Applic. Placement:	inbed
Air Temp., Unit:	68 f
% Relative Humidity:	61
Wind Velocity, Unit:	6 MPH
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	61 f
Soil Moisture:	moist
% Cloud Cover:	100

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CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPZZ preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 2 Code, Stage:	IPOLA preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 3 Code, Stage:	IAQTA preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 4 Code, Stage:	AMALI preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 5 Code, Stage:	MOLVE preplant
Stage Scale:	not up
Density, Unit:	see data
Weed 6 Code, Stage:	PORPI 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):	

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Trt No	Treatment Application Comment