

# University of Georgia

**Impact of fumigant/mulch combinations on nutsedge and crop yield in a spring  
pepper crop and a fall cucumber crop.**

Trial ID: Veg18-06

Study Dir.: Amy Davis

Location: Ponder (5141)

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 10 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .30867)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Amt Code	Product to Measure	Plot No. By Rep			
									1	2	3	4
1	No fumigant LDPE (1.25 mil)					A			101	202	319	420
2	No fumigant Metalized smooth (1.25 m)					A			102	201	320	419
3	No fumigant Smooth (1.25 mil)					A			103	204	318	417
4	No fumigant VIF-D (1.25 mil)					A			104	203	317	418
5	MIDAS (350 lb) LDPE (1.25 mil)					A			105	206	303	404
6	MIDAS (350 lb) Metalized smooth (1.25 m)					A			106	205	304	403
7	MIDAS (350 lb) Smooth (1.25 mil)					A			107	208	302	401
8	MIDAS (350 lb) VIF-D (1.25 mil)					A			108	207	301	402
9	MB (350 lb) LDPE (1.25 mil)					A			109	210	311	412
10	MB (350 lb) Metalized smooth (1.25 m)					A			110	209	312	411
11	MB (350 lb) Smooth (1.25 mil)					A			111	212	310	409
12	MB (350 lb) VIF-D (1.25 mil)					A			112	211	309	410
13	DMDS (75 G) LDPE (1.25 mil)					A			113	214	315	416
14	DMDS (75 G) Metalized smooth (1.25 m)					A			114	213	316	415
15	DMDS (75 G) Smooth (1.25 mil)					A			115	216	314	413
16	DMDS (75 G) VIF-D (1.25 mil)					A			116	215	313	414
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)					A			117	218	307	408
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)					A			118	217	308	407
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)					A			119	220	306	405
20	Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)					A			120	219	305	406
21	Pic Chlor 60 (400 lb) LDPE (1.25 mil)					A			121	222	331	432

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Reps: 4                      Plots: 6 by 10 feet  
 Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .30867)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Rate	Grow Unit	Appl Code	Amt to Measure	Plot No. By Rep			
											1	2	3	4
22	Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)					A					122	221	332	431
23	Pic Chlor 60 (400 lb) Smooth (1.25 mil)					A					123	224	330	429
24	Pic Chlor 60 (400 lb) VIF-D (1.25 mil)					A					124	223	329	430
25	Telone (12 G) Pic (150 lb) LDPE (1.25 mil)					A					125	226	323	424
26	Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)					A					126	225	324	423
27	Telone (12 G) Pic (150 lb) Smooth (1.25 mil)					A					127	228	322	421
28	Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)					A					128	227	321	422
29	Pic Chlor 60 (250 lb) LDPE (1.25 mil)					A					129	230	327	428
30	Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)					A					130	229	328	427
31	Pic Chlor 60 (250 lb) Smooth (1.25 mil)					A					131	232	326	425
32	Pic Chlor 60 (250 lb) VIF-D (1.25 mil)					A					132	231	325	426

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

SPRING OBJECTIVE (CROP 1): Continue to compare MB alternatives for pepper yield and nutsedge control.

**Crop Injury:**

1. At 15 days after fumigating holes were poked in the mulch. At 18 days after fumigating and 3 days after allowing the beds to air out, bell pepper were planted.
2. Fumigant injury (29 to 60% at 40 d after transplant) was noted only with MIDAS when applied under metalized or VIF mulch. Injury was greatest under VIF mulch. Rates applied under these mulch types are greater than what will be recommended but these results do show the need for a greater understanding of plant back restrictions needed with MIDAS.
3. Pepper appeared to be 5 to 10% smaller when grown on metalized mulch in March and April when compared to a "black" mulch.

**Pepper Heights:**

1. Twenty plants per plot were measured during late April.
2. All plots receiving a fumigate and either metalized or VIF mulch were less than 20 inches. All plots with fumigants under LDPE or smooth mulch were 20 inches or greater suggesting some early season fumigant stunting may have been occurring with VIF and metalized mulch. Additionally, the silver mulch was conducive for a slower growing crop because of lower soil temperatures.
3. Significant stunting was noted with MIDAS under metalized or VIF mulch as noted with visual injury.

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4. Fumigant rates applied under metalized or VIF mulch should be reduced when applied in a growers field; however, plant back data with these mulches is greatly needed.

## Visual Nutsedge Control:

1. MIDAS, DMDS mixtures, and the 3 way all provided control similar to MB throughout the season (> 91%). Mulch type did not impact control.
2. Pic Chlor 60 (250 lb) or Telone plus Pic applied at equivalent rates under LDPE or Smooth mulch provided similar control but control was less than 75% by season end. Increasing the Pic Chlor 60 rate to 400 lbs improved control to that similar of other fumigant systems. Similarly applying Pic Chlor 60 at 250 lb or Telone plus Pic under metalized or VIF mulch also improved control to greater than 91%.

## Nutsedge Emergence Counts:

1. The number of nutsedge emerging through the plot area (32" by 10') were counted in mid-March and early-May.
2. Statistically there were more nutsedge plants per plot in the Pic Chlor 60 (250 lb) and the Telone + Pic when applied under LDPE or smooth mulch.
3. Although not statistical, there was a trend for more nutsedge plants in the 3 way when applied under LDPE and smooth mulch. Several plots contained nutsedge emerging on the shoulder of one side of the bed. This is an application issue that we are currently attempting to address.

## Gas Emissions:

1. Gas measurements were taken with GAS-TEC MODEL GV-100 GAS SAMPLING PUMP WITH STANDARD DETECTOR TUBS FOR EACH GAS. A 6.5 inch funnel was glued upside down to the top of each mulch to eliminate cross contamination. At time of measurement a stopper with the detector tub was inserted into the funnel with the measurement made.
2. MB emissions from lowest to highest:
  - 1 and 24 hr : VIF < Metalized < Smooth = LDPE
  - 48 hr: VIF = Metalized < Smooth < LDPE
  - Cumulative : VIF < Metalized < Smooth = LDPE
3. MIDAS emissions from lowest to highest:
  - 1 hr : VIF = Metalized < Smooth < LDPE
  - 24 hr: VIF = Metalized = Smooth < LDPE
  - 48 hr: VIF = Metalized < Smooth = LDPE
  - Cumulative : VIF = Metalized < Smooth < LDPE
3. 3 Way (measurements are for chloropicrin only):
  - 1 hr : all equal little emission detected
  - 24 and 48 hr: VIF = Metalized < Smooth = LDPE
  - Cumulative : VIF = Metalized < Smooth = LDPE

## Pepper Yield:

1. Only Jumbo pepper were harvested. We borrowed a crew from a local grower to harvest pepper 5 times in an attempt to simulate actual field harvesting results and to attempt to reduce the variability noticed in past studies.
2. Main effect means were significant and are reported.
3. Harvest 1: Nearly 26 to 50% less fruit numbers and weight were noted in the non-treated compared to fumigated plots.
4. Harvest 1: Compared to LDPE, pepper yield on metalized silver mulch was 34-37% less (cooler soil and some stunting??) and on VIF mulch yield was 28-36% less (fumigant stunting ??).
5. Systems with less yield noted in harvest 1 began to start catching up in harvest 3 and 4.
6. Harvest totals 1-5: The weight of pepper produced per plot and the average fruit size of pepper produced was similar among fumigant options. Fruit number was similar among most systems except more fruit were generally produced in the 3 way system.
7. Harvest totals 1-5: Yields from pepper on metalized mulch did "catch up" with LDPE mulch suggesting the cooler soils on the metalized mulch delayed the crop. In fact, yields on the metalized mulch were actually higher when averaging over all harvest and may again have been in response to delayed maturity actually being a benefit in the spring season that was so hot and sunny during early harvest. Yields were still generally the lowest on the VIF mulch which again is likely due to early season stunting.

## CONCLUSION:

1. CV's on total yield values were 10.17 for fruit number and 9.93 for fruit weight. This is by far and away the most consistent trial for yield that we have generated. Fortunately, results from this trial support our more variable results noted in the previous two seasons.

## FALL CROP (CUCUMBER):

### NUTSEDGE RESPONSE CROP 2:

1. Just prior to harvest, greater than 90% control was noted with all fumigants applied under VIF mulch. Other similarly effective treatments included the following: MIDAS and MB under LDPE, metalized or smooth mulch, and the 3-way or Pic Chlor 60 at 400 lb under metalized mulch.
2. Pooled over all mulches, Telone/Pic combinations were the least effective followed by DMDS and the 3-way while MB and MIDAS were the most effective tools.

### CUCUMBER YIELD RESPONSE CROP 2:

1. Cucumber harvested 8 times by hired labor crew.

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2. Fifteen percent more cucumber were produced on the metalized mulch as compared to other mulches. This response was due to the color of the mulch impacting soil temperature. All other mulches were black but painted white; however, these mulches were much hotter than the metalized mulch.
3. Yields (main effects significant) when averaging over the first two harvest or all eight harvest noted no differences among fumigants with a tendency for less yield in those plots with more nutsedge.

### CONCLUSION:

#### Nutsedge Control:

Spring Crop 1: MB = MIDAS = DMDS = 3 way

Fall Crop 2: MB = MIDAS > 3 way = DMDS

#### Yields

Spring Crop 1 and Fall Crop 2: MB = MIDAS = DMDS = 3 way

#### Economics:

Spring Crop 1 and Fall Crop 2: 3 way > MB > MIDAS

### GENERAL COMMENTS:

1. Feb. 22: fumigants were applied, beds were formed and mulch was laid. Soil and air reached 66 degrees by mid day, moisture was ideal. MB, MIDAS, PIC, PIC CHLOR 60, and DMDS were applied with super bedder plastic layer injecting fumigant 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was injected 4 inches deep into the final bed with the injection knives 4 inches apart. Telone II was injected 10-12 inches deep with a Yetter applicator.
2. Transplant holes were poked on March 10 and the crop was transplanted on March 13. Soil temperature was 16 degrees cooler in the silver mulch compared to black mulches.
3. Plot size was actually 20 feet long but the crop was planted only in the center 10 feet (thus there were 20 pepper plants per plot). Nutsedge counts were only taken in that same 10 feet.
4. DMDS provided no grass control. Pic + Telone and Pic Chlor 60 also provided very poor grass control. All weeds other than nutsedge were removed from each plot. Select was applied overtop twice to remove grasses, other weeds were hand removed.
4. June 30: Vapam at 40 GPA broadcast or 18 GPA in bed was injected through the drip preparing for the fall cucumber crop.

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Trial ID: Veg18-06

Study Dir.: Amy Davis

Location: Ponder (5141)

Investigator: Stanley Culpepper

Weed Code	Fumigant 1 hr	Fumigant 24 hr	Fumigant 48 hr	Fumigant avg3day	Fumigant 1 hr	Fumigant 24 hr	Fumigant avg3days
Crop Code							
Part Rated							
Rating Data Type	emissions	emissions	emissions	emissions	emissions	emissions	emissions
Rating Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Rating Date							
Assessed By							
Trt-Eval Interval							
ARM Action Codes				T7			T8
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	1	2	3	4	5	6
1 No fumigant LDPE (1.25 mil)							
2 No fumigant Metalized smooth (1.25 m)							
3 No fumigant Smooth (1.25 mil)							
4 No fumigant VIF-D (1.25 mil)							
5 MIDAS (350 lb) LDPE (1.25 mil)	35 a	47 a	21 a	103 a			
6 MIDAS (350 lb) Metalized smooth (1.25 m)	15 b	34 b	9 b	58 b			
7 MIDAS (350 lb) Smooth (1.25 mil)	37 a	47 a	24 a	108 a			
8 MIDAS (350 lb) VIF-D (1.25 mil)	1 c	21 c	1 b	22 c			
9 MB (350 lb) LDPE (1.25 mil)					228 a	119 a	376 a
10 MB (350 lb) Metalized smooth (1.25 m)					16 c	50 b	72 c
11 MB (350 lb) Smooth (1.25 mil)					124 b	80 ab	233 b
12 MB (350 lb) VIF-D (1.25 mil)					14 c	33 b	48 c
13 DMDS (75 G) LDPE (1.25 mil)							
14 DMDS (75 G) Metalized smooth (1.25 m)							
15 DMDS (75 G) Smooth (1.25 mil)							
16 DMDS (75 G) VIF-D (1.25 mil)							
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)							
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)							

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Weed Code	Fumigant 1 hr	Fumigant 24 hr	Fumigant 48 hr	Fumigant avg3day	Fumigant 1 hr	Fumigant 24 hr	Fumigant avg3days		
Crop Code									
Part Rated									
Rating Data Type	emissions	emissions	emissions	emissions	emissions	emissions	emissions		
Rating Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
Rating Date									
Assessed By									
Trt-Eval Interval									
ARM Action Codes				T7			T8		
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			1	2	3	4	5		
			6	7					
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)								
20	Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)								
21	Pic Chlor 60 (400 lb) LDPE (1.25 mil)								
22	Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)								
23	Pic Chlor 60 (400 lb) Smooth (1.25 mil)								
24	Pic Chlor 60 (400 lb) VIF-D (1.25 mil)								
25	Telone (12 G) Pic (150 lb) LDPE (1.25 mil)								
26	Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)								
27	Telone (12 G) Pic (150 lb) Smooth (1.25 mil)								
28	Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)								
29	Pic Chlor 60 (250 lb) LDPE (1.25 mil)								
30	Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)								
31	Pic Chlor 60 (250 lb) Smooth (1.25 mil)								
32	Pic Chlor 60 (250 lb) VIF-D (1.25 mil)								
LSD (P=.05)			13.4	11.9	8.0	17.0	96.5	50.1	87.2
Standard Deviation			8.4	7.5	5.0	10.6	60.3	31.3	54.5
CV			38.25	20.09	37.26	14.64	63.28	44.51	29.93
Bartlett's X2			11.535	2.367	10.554	6.503	30.012	9.065	13.842
P(Bartlett's X2)			0.009*	0.50	0.014*	0.09	0.001*	0.028*	0.003*

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

Column 4: T7 = [C1]+[C2]+[C3]  
 Column 7: T8 = [C5]+[C6]+[C8]

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Weed Code	Fumigant 48 hr	Fumigant 1 hr	Fumigant 24 hr	Fumigant 48 hr	Fumigant avg3days	CPSAN	CPSAN	
Crop Code	emissions	emissions	emissions	emissions	emissions	stunt	stunt	
Part Rated	ppm	ppm	ppm	ppm	ppm	%	%	
Rating Data Type						Apr-21-06	May-05-06	
Rating Unit								
Rating Date								
Assessed By						58 DA-A	72 DA-A	
Trt-Eval Interval								
ARM Action Codes					T9			
# Subsamples, Dec.								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		8	9	10	11	12	13	
		14						
1	No fumigant LDPE (1.25 mil)						0 c	0 c
2	No fumigant Metalized smooth (1.25 m)						6 c	6 c
3	No fumigant Smooth (1.25 mil)						0 c	0 c
4	No fumigant VIF-D (1.25 mil)						0 c	0 c
5	MIDAS (350 lb) LDPE (1.25 mil)						0 c	0 c
6	MIDAS (350 lb) Metalized smooth (1.25 m)						29 b	21 b
7	MIDAS (350 lb) Smooth (1.25 mil)						0 c	0 c
8	MIDAS (350 lb) VIF-D (1.25 mil)						60 a	35 a
9	MB (350 lb) LDPE (1.25 mil)	30 a					0 c	0 c
10	MB (350 lb) Metalized smooth (1.25 m)	5 b					7 c	5 c
11	MB (350 lb) Smooth (1.25 mil)	29 a					0 c	0 c
12	MB (350 lb) VIF-D (1.25 mil)	2 b					0 c	0 c
13	DMDS (75 G) LDPE (1.25 mil)						0 c	0 c
14	DMDS (75 G) Metalized smooth (1.25 m)						8 c	5 c
15	DMDS (75 G) Smooth (1.25 mil)						0 c	0 c
16	DMDS (75 G) VIF-D (1.25 mil)						3 c	0 c
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)		1 a	10 a	8 a	19 a	0 c	0 c
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)		0 a	4 b	2 b	5 b	6 c	6 c
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)		0 a	10 a	8 a	19 a	0 c	0 c

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Weed Code	Fumigant 48 hr	Fumigant 1 hr	Fumigant 24 hr	Fumigant 48 hr	Fumigant avg3days	CPSAN	CPSAN	
Crop Code								
Part Rated								
Rating Data Type	emissions	emissions	emissions	emissions	emissions	stunt	stunt	
Rating Unit	ppm	ppm	ppm	ppm	ppm	%	%	
Rating Date						Apr-21-06	May-05-06	
Assessed By								
Trt-Eval Interval						58 DA-A	72 DA-A	
ARM Action Codes					T9			
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)			0 a	3 b	1 b	3 b	0 c	2 c
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)							0 c	0 c
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)							7 c	6 c
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)							0 c	1 c
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)							0 c	0 c
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)							0 c	0 c
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)							7 c	6 c
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)							0 c	0 c
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)							0 c	0 c
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)							0 c	0 c
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)							6 c	6 c
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)							0 c	0 c
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)							0 c	0 c
LSD (P=.05)	12.8	0.8	2.2	2.4	4.3	7.2	5.7	
Standard Deviation	8.0	0.5	1.4	1.5	2.7	5.2	4.1	
CV	48.49	400.0	21.03	33.13	23.72	120.2	132.91	
Bartlett's X2	13.909	0.0	7.947	1.383	4.833	50.361	37.451	
P(Bartlett's X2)	0.003*	.	0.047*	0.71	0.184	0.001*	0.001*	

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

Column 12: T9 = [C9]+[C10]+[C11]



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Weed Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	plant 1 CPSAN	plant 2 CPSAN	
Crop Code								
Part Rated								
Rating Data Type	control	control	control	ct	ct	ht	ht	
Rating Unit	%	%	%	#	#	cm	cm	
Rating Date	Mar-24-06	Apr-21-06	May-05-06	Mar-16-06	May-02-06	Apr-19-06	Apr-19-06	
Assessed By								
Trt-Eval Interval	30 DA-A	58 DA-A	72 DA-A	22 DA-A	56 DA-A	56 DA-A	56 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		15	16	17	18	19	20	
							21	
1	No fumigant LDPE (1.25 mil)	0 e	0 g	0 g	40 a	86 a	22 abc	19 a-e
2	No fumigant Metalized smooth (1.25 m)	3 de	4 fg	3 g	39 a	76 ab	21 a-d	20 a-e
3	No fumigant Smooth (1.25 mil)	0 e	0 g	0 g	35 a	70 b	22 abc	21 abc
4	No fumigant VIF-D (1.25 mil)	8 d	8 f	10 f	25 b	54 c	22 abc	21 a-e
5	MIDAS (350 lb) LDPE (1.25 mil)	100 a	100 a	100 abc	0 d	1 f	19 a-e	21 abc
6	MIDAS (350 lb) Metalized smooth (1.25 m)	100 a	100 a	100 a	0 d	0 f	14 fg	14 fg
7	MIDAS (350 lb) Smooth (1.25 mil)	100 a	98 ab	97 abc	0 d	1 f	22 a	22 a
8	MIDAS (350 lb) VIF-D (1.25 mil)	100 a	100 a	100 ab	0 d	0 f	12 g	11 g
9	MB (350 lb) LDPE (1.25 mil)	100 a	100 a	96 abc	0 d	1 f	22 abc	22 ab
10	MB (350 lb) Metalized smooth (1.25 m)	100 a	100 a	100 abc	0 d	0 f	17 ef	17 ef
11	MB (350 lb) Smooth (1.25 mil)	100 a	100 a	99 abc	0 d	0 f	22 abc	20 a-e
12	MB (350 lb) VIF-D (1.25 mil)	100 a	100 a	99 abc	0 d	0 f	20 a-e	19 a-e
13	DMDS (75 G) LDPE (1.25 mil)	97 ab	97 ab	95 abc	0 d	3 f	22 abc	22 a
14	DMDS (75 G) Metalized smooth (1.25 m)	100 a	98 ab	100 abc	0 d	1 f	17 ef	17 ef
15	DMDS (75 G) Smooth (1.25 mil)	97 ab	96 ab	92 bc	0 d	4 f	20 a-e	18 b-e
16	DMDS (75 G) VIF-D (1.25 mil)	100 a	100 a	99 abc	0 d	0 f	17 def	17 ef
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)	93 ab	93 ab	94 abc	10 cd	12 def	20 a-e	20 a-e
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)	100 a	100 a	100 abc	0 d	0 f	18 b-e	18 b-e
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)	97 ab	99 a	95 abc	3 d	5 f	19 a-e	19 a-e

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Weed Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	plant 1 CPSAN	plant 2 CPSAN
Crop Code							
Part Rated							
Rating Data Type	control	control	control	ct	ct	ht	ht
Rating Unit	%	%	%	#	#	cm	cm
Rating Date	Mar-24-06	Apr-21-06	May-05-06	Mar-16-06	May-02-06	Apr-19-06	Apr-19-06
Assessed By							
Trt-Eval Interval	30 DA-A	58 DA-A	72 DA-A	22 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		15	16	17	18	19	20
		21					
20	Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)	100 a	100 a	100 abc	0 d	0 f	18 a-e
21	Pic Chlor 60 (400 lb) LDPE (1.25 mil)	91 b	91 b	92 c	4 d	8 ef	22 ab
22	Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)	100 a	99 a	99 abc	0 d	1 f	18 b-e
23	Pic Chlor 60 (400 lb) Smooth (1.25 mil)	99 a	97 ab	94 abc	0 d	1 f	22 abc
24	Pic Chlor 60 (400 lb) VIF-D (1.25 mil)	100 a	100 a	99 abc	0 d	0 f	19 a-e
25	Telone (12 G) Pic (150 lb) LDPE (1.25 mil)	74 c	72 de	69 e	14 c	23 d	21 abc
26	Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)	98 ab	93 ab	94 abc	0 d	3 f	18 cde
27	Telone (12 G) Pic (150 lb) Smooth (1.25 mil)	74 c	71 e	69 e	14 c	20 d	21 a-e
28	Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)	100 a	97 ab	98 abc	0 d	0 f	21 a-e
29	Pic Chlor 60 (250 lb) LDPE (1.25 mil)	75 c	78 cd	73 de	17 c	23 d	22 ab
30	Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)	100 a	94 ab	95 abc	0 d	2 f	18 b-e
31	Pic Chlor 60 (250 lb) Smooth (1.25 mil)	77 c	80 c	77 d	9 cd	17 de	22 ab
32	Pic Chlor 60 (250 lb) VIF-D (1.25 mil)	100 a	100 a	98 abc	0 d	0 f	20 a-e
LSD (P=.05)		5.9	6.8	6.3	8.3	10.6	3.2
Standard Deviation		4.2	4.9	4.5	5.9	7.6	2.3
CV		5.07	5.88	5.51	90.68	58.95	11.84
Bartlett's X2		47.297	54.523	123.291	99.009	196.1	49.955
P(Bartlett's X2)		0.001*	0.001*	0.001*	0.001*	0.001*	0.209

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

# University of Georgia

Weed Code	plant 3 CPSAN	plant 4 CPSAN	plant 5 CPSAN	plant 6 CPSAN	plant 7 CPSAN	plant 8 CPSAN	plant 9 CPSAN
Crop Code							
Part Rated							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06
Assessed By							
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		22	23	24	25	26	27
		28					
1	No fumigant LDPE (1.25 mil)	20 a-g	22 ab	22 abc	21 a-f	23 a	23 a
2	No fumigant Metalized smooth (1.25 m)	18 f-j	19 b-h	19 b-f	18 e-h	19 c-h	18 c-g
3	No fumigant Smooth (1.25 mil)	21 a-e	20 a-g	23 ab	22 a-d	23 ab	21 a-f
4	No fumigant VIF-D (1.25 mil)	21 a-f	21 a-d	22 abc	21 a-f	22 abc	22 ab
5	MIDAS (350 lb) LDPE (1.25 mil)	20 a-g	21 a-d	22 a-d	21 a-f	20 a-g	21 a-e
6	MIDAS (350 lb) Metalized smooth (1.25 m)	15 jk	14 ij	16 fg	16 h	16 hi	15 gh
7	MIDAS (350 lb) Smooth (1.25 mil)	21 a-e	20 a-g	22 a-d	22 abc	22 abc	21 a-d
8	MIDAS (350 lb) VIF-D (1.25 mil)	12 k	12 j	14 g	11 i	13 i	13 h
9	MB (350 lb) LDPE (1.25 mil)	21 a-f	21 a-e	23 ab	23 ab	20 a-g	21 a-f
10	MB (350 lb) Metalized smooth (1.25 m)	17 f-j	18 c-h	17 efg	18 fgh	18 d-h	18 d-g
11	MB (350 lb) Smooth (1.25 mil)	22 abc	21 a-f	21 a-d	22 a-e	19 c-h	21 a-d
12	MB (350 lb) VIF-D (1.25 mil)	19 b-h	19 a-h	20 a-e	21 a-f	21 a-e	21 a-f
13	DMDS (75 G) LDPE (1.25 mil)	20 a-g	20 a-g	23 ab	22 a-d	22 ab	21 a-f
14	DMDS (75 G) Metalized smooth (1.25 m)	16 hij	17 ghi	18 c-f	18 fgh	18 d-h	18 d-g
15	DMDS (75 G) Smooth (1.25 mil)	20 a-g	22 abc	23 ab	23 ab	22 abc	21 a-d
16	DMDS (75 G) VIF-D (1.25 mil)	17 g-j	17 fgh	18 def	19 d-h	17 fgh	19 b-f
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)	19 c-i	20 a-g	20 a-e	20 b-g	20 a-f	21 a-d
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)	16 ij	16 hi	19 c-f	17 gh	18 e-h	18 c-g
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)	20 a-g	19 a-h	21 a-d	20 a-g	21 a-f	19 b-f

# University of Georgia

Weed Code	plant 3 CPSAN	plant 4 CPSAN	plant 5 CPSAN	plant 6 CPSAN	plant 7 CPSAN	plant 8 CPSAN	plant 9 CPSAN
Crop Code							
Part Rated							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06
Assessed By							
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		22	23	24	25	26	27
20	Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)	19 b-h	20 a-h	19 c-f	19 c-g	19 c-h	17 efg
21	Pic Chlor 60 (400 lb) LDPE (1.25 mil)	23 ab	23 a	23 a	22 a-d	22 ab	23 a
22	Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)	18 e-j	19 b-h	17 efg	18 fgh	19 b-g	20 a-f
23	Pic Chlor 60 (400 lb) Smooth (1.25 mil)	23 ab	21 a-e	22 a-d	22 abc	22 a-d	20 a-f
24	Pic Chlor 60 (400 lb) VIF-D (1.25 mil)	21 a-f	20 a-g	19 b-e	23 ab	21 a-f	21 a-e
25	Telone (12 G) Pic (150 lb) LDPE (1.25 mil)	20 a-g	21 a-d	21 a-e	21 a-f	20 a-f	20 a-f
26	Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)	17 g-j	18 e-h	18 def	18 fgh	20 a-g	18 c-g
27	Telone (12 G) Pic (150 lb) Smooth (1.25 mil)	22 a-d	20 a-h	20 a-e	22 a-d	20 a-g	20 a-f
28	Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)	21 a-f	21 a-f	21 a-e	20 b-g	19 b-h	20 a-f
29	Pic Chlor 60 (250 lb) LDPE (1.25 mil)	23 a	22 ab	22 abc	24 a	22 abc	22 abc
30	Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)	18 d-j	18 d-h	18 def	19 d-h	17 gh	17 fg
31	Pic Chlor 60 (250 lb) Smooth (1.25 mil)	21 a-e	21 a-d	21 a-d	22 a-e	22 abc	22 a-d
32	Pic Chlor 60 (250 lb) VIF-D (1.25 mil)	21 a-f	21 a-e	20 a-e	22 a-d	20 a-g	21 a-f
LSD (P=.05)		2.9	2.9	3.1	2.7	3.0	3.0
Standard Deviation		2.1	2.1	2.2	1.9	2.1	2.2
CV		10.63	10.79	11.09	9.72	10.8	11.04
Bartlett's X2		40.418	47.427	51.926	46.694	31.274	46.188
P(Bartlett's X2)		0.12	0.03*	0.011*	0.027*	0.402	0.039*

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

# University of Georgia

Weed Code	plant 10 CPSAN	plant 11 CPSAN	plant 12 CPSAN	plant 13 CPSAN	plant 14 CPSAN	plant 15 CPSAN	plant 16 CPSAN
Crop Code							
Part Rated							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06
Assessed By							
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		29	30	31	32	33	34
1	No fumigant LDPE (1.25 mil)	16 fg	25 a	22 abc	24 ab	23 ab	24 a
2	No fumigant Metalized smooth (1.25 m)	19 b-g	21 bcd	20 a-e	21 bcd	22 a-e	22 abc
3	No fumigant Smooth (1.25 mil)	24 a	24 ab	23 a	24 a	23 abc	23 ab
4	No fumigant VIF-D (1.25 mil)	22 a-d	24 ab	23 a	24 a	25 a	22 abc
5	MIDAS (350 lb) LDPE (1.25 mil)	21 a-g	21 bcd	20 a-e	20 cde	20 c-g	20 a-g
6	MIDAS (350 lb) Metalized smooth (1.25 m)	16 g	10 i	11 j	12 j	9 j	10 k
7	MIDAS (350 lb) Smooth (1.25 mil)	19 a-g	21 b-e	21 a-d	20 cde	19 d-h	19 b-i
8	MIDAS (350 lb) VIF-D (1.25 mil)	10 h	9 i	6 k	9 k	7 j	6 l
9	MB (350 lb) LDPE (1.25 mil)	21 a-g	20 c-f	20 a-f	20 cde	19 d-h	21 a-d
10	MB (350 lb) Metalized smooth (1.25 m)	16 g	16 fgh	18 d-h	18 d-h	17 f-i	17 g-j
11	MB (350 lb) Smooth (1.25 mil)	21 a-e	19 c-g	19 b-f	20 cde	22 a-e	21 a-f
12	MB (350 lb) VIF-D (1.25 mil)	19 a-g	16 fgh	19 c-g	19 c-h	18 e-i	18 d-j
13	DMDS (75 G) LDPE (1.25 mil)	22 abc	19 c-g	20 b-f	19 c-g	19 c-g	20 b-i
14	DMDS (75 G) Metalized smooth (1.25 m)	19 a-g	15 h	15 hi	15 i	15 i	16 j
15	DMDS (75 G) Smooth (1.25 mil)	22 a-d	20 c-f	19 b-f	20 cde	19 d-h	21 a-f
16	DMDS (75 G) VIF-D (1.25 mil)	18 b-g	15 gh	14 i	16 hi	16 ghi	18 e-j
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)	19 a-g	19 c-g	21 abc	21 b-e	20 b-f	20 a-h
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)	16 efg	17 d-h	15 hi	17 e-i	17 f-i	17 hij
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)	20 a-g	19 c-g	21 abc	19 c-f	22 a-d	21 a-g

## University of Georgia

Weed Code	plant 10 CPSAN	plant 11 CPSAN	plant 12 CPSAN	plant 13 CPSAN	plant 14 CPSAN	plant 15 CPSAN	plant 16 CPSAN	
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	
Assessed By								
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	29	30	31	32	33	34	
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		17 d-g	19 c-g	19 c-g	19 c-h	21 b-f	19 b-i	19 b-h
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		21 a-e	22 abc	21 abc	22 abc	21 b-e	21 a-e	21 abc
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		21 a-f	19 c-g	17 e-i	16 f-i	20 c-g	18 c-j	17 e-h
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		22 a-d	21 bcd	23 ab	21 bcd	22 a-d	21 a-g	21 a-e
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		19 b-g	18 c-h	19 b-f	19 c-g	19 d-h	18 d-j	19 b-h
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		20 a-g	20 c-f	20 b-f	20 cde	21 b-f	21 a-e	20 a-e
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		17 c-g	17 e-h	15 ghi	16 ghi	16 hi	16 ij	16 fgh
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		21 a-g	19 c-g	20 a-f	21 b-e	20 b-g	21 a-f	19 b-h
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		20 a-g	19 c-g	19 c-g	19 c-g	19 c-h	19 c-j	19 b-h
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		23 ab	20 c-f	19 c-f	21 bcd	20 b-f	20 b-i	18 c-h
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		17 c-g	18 d-h	17 f-i	19 c-g	17 f-i	17 f-j	18 c-h
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		22 a-d	19 c-g	19 b-f	18 d-h	20 b-f	21 a-d	20 b-f
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		20 a-g	20 c-f	21 a-d	21 b-e	20 b-f	21 a-f	21 a-d
LSD (P=.05)		4.4	3.3	2.9	2.7	3.0	2.9	3.2
Standard Deviation		3.1	2.4	2.1	1.9	2.1	2.1	2.3
CV		16.35	12.66	11.32	10.17	11.16	10.97	12.3
Bartlett's X2		77.584	43.585	33.966	23.214	39.87	45.769	46.903
P(Bartlett's X2)		0.001*	0.066	0.327	0.841	0.132	0.043*	0.033*

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

# University of Georgia

Weed Code	plant 17 CPSAN	plant 18 CPSAN	plant 19 CPSAN	plant 20 CPSAN	Avg20pla CPSAN	harv 1 CPSAN	harv 1 CPSAN	
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	fruit	wt	
Rating Unit	cm	cm	cm	cm	cm	#/plot	lb/plot	
Rating Date	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	May-26-06	May-26-06	
Assessed By								
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	93 DA-A	93 DA-A	
ARM Action Codes					T1			
# Subsamples, Dec.					1			
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
1 No fumigant LDPE (1.25 mil)		24 a	23 ab	24 a	24 a	22.1 ab	6 a-f	2 b-f
2 No fumigant Metalized smooth (1.25 m)		21 a-d	21 b-g	22 abc	23 abc	20.0 d-g	5 b-f	2 b-f
3 No fumigant Smooth (1.25 mil)		23 ab	23 ab	21 b-e	24 ab	22.4 a	3 def	1 def
4 No fumigant VIF-D (1.25 mil)		23 abc	25 a	23 ab	22 a-d	22.4 a	3 f	1 f
5 MIDAS (350 lb) LDPE (1.25 mil)		20 cde	20 b-h	21 bcd	22 a-d	20.4 c-f	8 a-d	3 abc
6 MIDAS (350 lb) Metalized smooth (1.25 m)		12 j	13 j	12 k	12 i	12.9 l	7 a-e	3 a-e
7 MIDAS (350 lb) Smooth (1.25 mil)		20 c-f	19 c-i	17 f-j	19 d-g	20.3 c-g	7 a-e	3 a-e
8 MIDAS (350 lb) VIF-D (1.25 mil)		8 k	9 k	9 l	7 j	9.7 m	3 def	1 ef
9 MB (350 lb) LDPE (1.25 mil)		20 cde	21 b-g	21 bcd	20 cde	20.6 b-e	8 a-d	3 abc
10 MB (350 lb) Metalized smooth (1.25 m)		18 e-i	17 ghi	17 g-j	16 h	17.1 jk	7 a-e	3 a-e
11 MB (350 lb) Smooth (1.25 mil)		19 d-h	19 c-h	19 d-j	20 c-f	20.2 c-g	10 a	4 a
12 MB (350 lb) VIF-D (1.25 mil)		19 d-g	16 ij	18 e-j	17 e-h	18.6 ghi	5 a-f	2 b-f
13 DMDS (75 G) LDPE (1.25 mil)		20 d-g	20 b-g	21 b-e	19 d-g	20.5 b-e	8 abc	3 abc
14 DMDS (75 G) Metalized smooth (1.25 m)		16 hi	17 ghi	16 j	16 gh	16.5 k	4 c-f	2 c-f
15 DMDS (75 G) Smooth (1.25 mil)		20 d-g	20 b-g	20 b-g	21 b-e	20.4 c-f	7 a-f	3 a-f
16 DMDS (75 G) VIF-D (1.25 mil)		16 i	17 ghi	16 ij	17 e-h	16.9 jk	8 a-d	3 a-f
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)		19 d-h	23 abc	20 b-f	21 a-d	20.0 c-g	7 a-f	3 a-e
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)		17 f-i	18 f-i	17 g-j	16 gh	16.9 jk	3 ef	1 f
19 Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)		20 cde	20 b-g	19 c-h	21 a-d	20.0 d-g	6 a-f	2 a-f

# University of Georgia

Weed Code	plant 17 CPSAN	plant 18 CPSAN	plant 19 CPSAN	plant 20 CPSAN	Avg20pla CPSAN	harv 1 CPSAN	harv 1 CPSAN
Crop Code							
Part Rated							
Rating Data Type	ht	ht	ht	ht	ht	fruit	wt
Rating Unit	cm	cm	cm	cm	cm	#/plot	lb/plot
Rating Date	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	Apr-19-06	May-26-06	May-26-06
Assessed By							
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	93 DA-A	93 DA-A
ARM Action Codes					T1		
# Subsamples, Dec.					1		
Trt Treatment	Rate						
No. Name	Rate Unit						
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)	19 d-g	22 a-d	19 c-i	19 d-g	18.8 f-i	8 abc	3 a-e
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)	20 cde	20 b-g	21 bcd	21 a-d	21.7 abc	8 a-d	3 a-d
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)	19 d-g	19 d-i	19 d-j	19 d-g	18.3 hij	4 def	1 ef
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)	21 a-d	22 a-e	20 b-f	21 cde	21.3 a-d	5 a-f	2 b-f
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)	19 d-h	18 e-i	19 d-j	19 d-g	19.4 e-h	6 a-f	2 b-f
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)	21 a-d	22 a-d	21 bcd	20 cde	20.4 c-f	9 ab	3 ab
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)	17 ghi	16 hij	16 hij	16 gh	16.8 jk	6 a-f	2 a-f
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)	20 b-e	20 b-g	18 d-j	19 d-g	20.1 c-g	8 a-d	3 a-e
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)	18 d-i	20 b-g	18 e-j	17 e-h	19.4 e-h	5 b-f	2 c-f
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)	18 d-i	19 c-i	19 d-j	20 cde	20.7 b-e	7 a-f	3 a-e
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)	17 f-i	18 f-i	17 g-j	16 fgh	17.5 ijk	4 c-f	1 c-f
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)	20 b-e	21 a-f	18 e-j	19 d-h	20.4 c-f	6 a-f	2 a-f
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)	21 b-e	21 b-g	19 d-i	21 b-e	20.5 c-f	5 b-f	2 c-f
LSD (P=.05)	2.6	3.1	2.6	2.9	1.41	3.8	1.4
Standard Deviation	1.9	2.2	1.9	2.0	1.01	2.7	1.0
CV	9.87	11.44	10.02	10.83	5.26	44.66	44.51
Bartlett's X2	21.77	30.767	31.631	26.278	41.403	30.155	37.402
P(Bartlett's X2)	0.89	0.478	0.435	0.661	0.10	0.509	0.199

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

Column 40: T1 = @AVG([C20].[C39])



# University of Georgia

Weed Code	harv 2 CPSAN	harv 2 CPSAN	harv 3 CPSAN	harv 3 CPSAN	harv 4 CPSAN	harv 4 CPSAN	harv 5 CPSAN	
Crop Code								
Part Rated								
Rating Data Type	fruit	wt	fruit	wt	fruit	wt	fruit	
Rating Unit	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Date	Jun-05-06	Jun-05-06	Jun-12-06	Jun-12-06	Jun-19-06	Jun-19-06	Jun-26-06	
Assessed By								
Trt-Eval Interval	103 DA-A	103 DA-A	110 DA-A	110 DA-A	117 DA-A	117 DA-A	124 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	43	44	45	46	47	48	49
1 No fumigant LDPE (1.25 mil)		45 ab	19 ab	38 a-d	14 a-d	29 bcd	10 b-e	18 abc
2 No fumigant Metalized smooth (1.25 m)		37 ab	15 ab	47 a	18 ab	36 a-d	11 b-e	17 abc
3 No fumigant Smooth (1.25 mil)		42 ab	17 ab	42 ab	16 abc	30 a-d	11 b-e	12 c
4 No fumigant VIF-D (1.25 mil)		35 ab	16 ab	39 abc	15 a-d	40 abc	14 a-d	13 bc
5 MIDAS (350 lb) LDPE (1.25 mil)		55 a	22 a	36 a-d	14 a-d	29 bcd	11 b-e	20 abc
6 MIDAS (350 lb) Metalized smooth (1.25 m)		34 ab	14 ab	39 abc	20 a	37 a-d	13 a-e	27 abc
7 MIDAS (350 lb) Smooth (1.25 mil)		41 ab	17 ab	31 bcd	12 bcd	38 a-d	14 a-e	26 abc
8 MIDAS (350 lb) VIF-D (1.25 mil)		26 b	11 b	22 d	9 d	31 a-d	13 a-e	29 ab
9 MB (350 lb) LDPE (1.25 mil)		50 ab	20 ab	30 bcd	12 bcd	24 cd	9 cde	26 abc
10 MB (350 lb) Metalized smooth (1.25 m)		52 ab	21 a	29 bcd	12 bcd	34 a-d	14 a-e	32 a
11 MB (350 lb) Smooth (1.25 mil)		44 ab	17 ab	22 d	9 d	32 a-d	13 a-e	32 a
12 MB (350 lb) VIF-D (1.25 mil)		50 ab	19 ab	26 bcd	10 cd	31 a-d	12 a-e	30 ab
13 DMDS (75 G) LDPE (1.25 mil)		57 a	22 a	31 a-d	12 bcd	27 bcd	10 b-e	21 abc
14 DMDS (75 G) Metalized smooth (1.25 m)		50 ab	20 ab	31 a-d	12 bcd	40 abc	16 ab	31 a
15 DMDS (75 G) Smooth (1.25 mil)		44 ab	17 ab	31 a-d	12 bcd	36 a-d	12 a-e	18 abc
16 DMDS (75 G) VIF-D (1.25 mil)		52 ab	20 ab	34 a-d	13 bcd	28 bcd	10 b-e	27 abc
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)		58 a	23 a	36 a-d	14 a-d	32 a-d	12 a-e	19 abc
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)		51 ab	19 ab	38 a-d	15 a-d	49 a	18 a	26 abc
19 Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)		53 a	21 ab	34 a-d	13 bcd	38 a-d	14 a-d	19 abc

# University of Georgia

Weed Code	harv 2 CPSAN	harv 2 CPSAN	harv 3 CPSAN	harv 3 CPSAN	harv 4 CPSAN	harv 4 CPSAN	harv 5 CPSAN	
Crop Code								
Part Rated								
Rating Data Type	fruit	wt	fruit	wt	fruit	wt	fruit	
Rating Unit	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Date	Jun-05-06	Jun-05-06	Jun-12-06	Jun-12-06	Jun-19-06	Jun-19-06	Jun-26-06	
Assessed By								
Trt-Eval Interval	103 DA-A	103 DA-A	110 DA-A	110 DA-A	117 DA-A	117 DA-A	124 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	43	44	45	46	47	48	49
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		43 ab	16 ab	28 bcd	10 cd	44 ab	16 abc	30 ab
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		56 a	21 a	27 bcd	10 cd	20 d	7 e	23 abc
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		47 ab	17 ab	39 abc	14 a-d	32 a-d	11 b-e	26 abc
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		50 ab	19 ab	32 a-d	12 bcd	34 a-d	13 a-e	28 abc
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		44 ab	16 ab	30 bcd	11 cd	35 a-d	13 a-e	30 a
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		52 a	21 ab	25 cd	9 d	21 cd	8 de	26 abc
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		56 a	23 a	34 a-d	13 bcd	22 cd	9 de	34 a
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		57 a	22 a	24 cd	10 cd	29 bcd	11 b-e	29 ab
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		45 ab	17 ab	30 bcd	11 cd	23 cd	9 de	29 ab
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		57 a	21 a	27 bcd	10 cd	29 bcd	11 b-e	23 abc
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		50 ab	19 ab	30 bcd	12 bcd	39 a-d	15 a-d	34 a
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		59 a	23 a	30 bcd	12 bcd	26 bcd	10 b-e	27 abc
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		46 ab	17 ab	32 a-d	12 bcd	32 a-d	12 a-e	24 abc
LSD (P=.05)		20.7	7.8	13.0	5.2	15.9	5.6	13.4
Standard Deviation		14.8	5.6	9.3	3.7	11.3	4.0	9.6
CV		30.82	29.54	29.12	29.69	35.34	33.72	38.28
Bartlett's X2		36.131	31.639	54.773	45.019	33.729	39.877	28.656
P(Bartlett's X2)		0.241	0.434	0.005*	0.05*	0.337	0.132	0.587

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

# University of Georgia

Weed Code	harv 5 CPSAN	Har1&2 CPSAN	Har1&2 CPSAN	Har1-5 CPSAN	Har1-5 CPSAN	Har1-5 CPSAN	CYPZZ	
Crop Code								
Part Rated								
Rating Data Type	wt	fruit	fruit	fruit	fruit	fruit size	control	
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	lb	%	
Rating Date	Jun-26-06	Jun-26-06	Jun-26-06	Jun-26-06	Jun-26-06	Jun-26-06	Sep-30-06	
Assessed By							SC	
Trt-Eval Interval	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	220 DA-A	
ARM Action Codes		T2	T3	T4	T5	T6		
# Subsamples, Dec.						1		
Trt Treatment	Rate							
No. Name	Rate Unit	50	51	52	53	54	55	
1 No fumigant LDPE (1.25 mil)		5 cde	51 ab	21 ab	135 bc	50 d-i	0.4 bcd	33 d
2 No fumigant Metalized smooth (1.25 m)		5 cde	42 ab	17 ab	141 bc	52 c-i	0.4 bcd	31 d
3 No fumigant Smooth (1.25 mil)		4 e	45 ab	18 ab	130 cd	48 ghi	0.4 bcd	35 d
4 No fumigant VIF-D (1.25 mil)		4 de	38 ab	17 ab	130 cd	51 c-i	0.4 a-d	33 d
5 MIDAS (350 lb) LDPE (1.25 mil)		7 a-e	62 a	25 a	147 abc	57 a-h	0.4 a-d	96 ab
6 MIDAS (350 lb) Metalized smooth (1.25 m)		10 abc	41 ab	17 ab	144 abc	60 abc	0.4 a	95 ab
7 MIDAS (350 lb) Smooth (1.25 mil)		9 a-e	48 ab	20 ab	143 abc	55 a-h	0.4 a-d	95 ab
8 MIDAS (350 lb) VIF-D (1.25 mil)		9 a-d	30 b	12 b	112 d	44 i	0.4 a-d	99 a
9 MB (350 lb) LDPE (1.25 mil)		9 a-d	57 a	23 a	137 bc	53 a-h	0.4 abc	91 abc
10 MB (350 lb) Metalized smooth (1.25 m)		11 a	59 a	24 a	153 abc	62 ab	0.4 ab	86 abc
11 MB (350 lb) Smooth (1.25 mil)		11 abc	53 ab	20 ab	139 bc	53 b-h	0.4 a-d	93 ab
12 MB (350 lb) VIF-D (1.25 mil)		11 abc	56 ab	21 ab	142 abc	54 a-h	0.4 a-d	98 a
13 DMDS (75 G) LDPE (1.25 mil)		7 a-e	65 a	25 a	144 abc	54 a-h	0.4 bcd	79 abc
14 DMDS (75 G) Metalized smooth (1.25 m)		10 abc	54 ab	21 ab	156 ab	60 a-d	0.4 a-d	96 ab
15 DMDS (75 G) Smooth (1.25 mil)		6 a-e	50 ab	20 ab	136 bc	50 e-i	0.4 bcd	77 abc
16 DMDS (75 G) VIF-D (1.25 mil)		8 a-e	59 a	23 a	147 abc	54 a-h	0.4 cd	96 ab
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)		6 b-e	65 a	26 a	152 abc	57 a-g	0.4 bcd	74 abc
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)		9 a-e	54 ab	20 ab	167 a	63 a	0.4 bcd	97 a
19 Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)		6 a-e	59 a	23 a	149 abc	56 a-h	0.4 bcd	84 abc

## University of Georgia

Weed Code	harv 5 CPSAN	Har1&2 CPSAN	Har1&2 CPSAN	Har1-5 CPSAN	Har1-5 CPSAN	Har1-5 CPSAN	CYPZZ	
Crop Code								
Part Rated								
Rating Data Type	wt	fruit	fruit	fruit	fruit	fruit size	control	
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	lb	%	
Rating Date	Jun-26-06	Jun-26-06	Jun-26-06	Jun-26-06	Jun-26-06	Jun-26-06	Sep-30-06	
Assessed By							SC	
Trt-Eval Interval	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	220 DA-A	
ARM Action Codes		T2	T3	T4	T5	T6		
# Subsamples, Dec.						1		
Trt Treatment	Rate							
No. Name	Rate Unit	50	51	52	53	54	55	
							56	
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		9 a-d	52 ab	19 ab	153 abc	54 a-h	0.4 d	99 a
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		7 a-e	63 a	24 a	133 bcd	49 f-i	0.4 bcd	68 bc
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		9 a-e	50 ab	19 ab	148 abc	52 b-i	0.4 cd	92 abc
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		9 a-e	56 ab	21 ab	149 abc	55 a-h	0.4 bcd	87 abc
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		10 abc	50 ab	18 ab	144 abc	52 c-i	0.4 cd	96 ab
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		9 a-e	61 a	24 a	133 bcd	50 e-i	0.4 bcd	73 abc
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		11 ab	63 a	25 a	151 abc	58 a-f	0.4 a-d	74 abc
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		9 a-d	65 a	25 a	145 abc	55 a-h	0.4 a-d	71 abc
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		9 a-d	50 ab	18 ab	132 bcd	48 hi	0.4 bcd	91 abc
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		8 a-e	64 a	24 a	142 abc	53 a-h	0.4 bcd	64 c
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		11 ab	54 ab	21 ab	156 ab	59 a-e	0.4 bcd	78 abc
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		8 a-e	65 a	25 a	147 abc	56 a-h	0.4 bcd	76 abc
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		8 a-e	51 ab	19 ab	138 bc	50 d-i	0.4 bcd	95 ab
LSD (P=.05)		4.6	22.1	8.4	20.3	7.6	0.03	23.3
Standard Deviation		3.3	15.7	6.0	14.5	5.4	0.02	16.7
CV		39.32	29.2	28.44	10.17	10.07	5.7	20.9
Bartlett's X2		32.986	29.852	27.164	39.359	29.223	42.064	129.968
P(Bartlett's X2)		0.37	0.525	0.664	0.144	0.558	0.089	0.001*

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

Column 51: T2 = [C41]+[C43]

Column 52: T3 = [C42]+[C44]

Column 53: T4 = [C41]+[C43]+[C45]+[C47]+[C49]

Column 54: T5 = [C42]+[C44]+[C46]+[C48]+[C50]

Column 55: T6 = [C54]/[C53]

# University of Georgia

Weed Code	CYPZZ	CYPZZ	plant 1 CUMSA	plant 2 CUMSA	plant 3 CUMSA	plant 4 CUMSA	plant 5 CUMSA	
Crop Code								
Part Rated								
Rating Data Type	control	#	ht	ht	ht	ht	ht	
Rating Unit	%	per plot	cm	cm	cm	cm	cm	
Rating Date	Oct-25-06	Jul-26-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	
Assessed By	SC							
Trt-Eval Interval	245 DA-A	154 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt No.	Treatment Name	Rate						
		Rate						
		Unit						
			57	58	59	60	61	
							62	
							63	
1	No fumigant LDPE (1.25 mil)	9 g	69 ab	47 abc	37 bcd	46 a	48 abc	45 a
2	No fumigant Metalized smooth (1.25 m)	8 g	72 ab	59 a	45 a-d	27 a	35 abc	43 a
3	No fumigant Smooth (1.25 mil)	13 g	78 a	43 abc	43 a-d	40 a	30 bc	43 a
4	No fumigant VIF-D (1.25 mil)	5 g	55 bc	40 abc	41 a-d	55 a	53 abc	40 a
5	MIDAS (350 lb) LDPE (1.25 mil)	94 a	5 gh	41 abc	41 a-d	36 a	36 abc	35 a
6	MIDAS (350 lb) Metalized smooth (1.25 m)	95 a	6 gh	35 bc	53 ab	39 a	47 abc	52 a
7	MIDAS (350 lb) Smooth (1.25 mil)	96 a	9 gh	44 abc	41 a-d	41 a	40 abc	42 a
8	MIDAS (350 lb) VIF-D (1.25 mil)	98 a	4 gh	41 abc	35 bcd	29 a	29 c	33 a
9	MB (350 lb) LDPE (1.25 mil)	95 a	5 gh	43 abc	26 d	40 a	38 abc	47 a
10	MB (350 lb) Metalized smooth (1.25 m)	99 a	1 h	48 abc	49 abc	45 a	43 abc	37 a
11	MB (350 lb) Smooth (1.25 mil)	94 a	12 fgh	49 abc	45 a-d	37 a	37 abc	35 a
12	MB (350 lb) VIF-D (1.25 mil)	98 a	5 gh	41 abc	41 a-d	37 a	30 bc	37 a
13	DMDS (75 G) LDPE (1.25 mil)	81 abc	12 fgh	52 ab	46 a-d	46 a	57 a	41 a
14	DMDS (75 G) Metalized smooth (1.25 m)	79 a-d	8 gh	51 abc	52 ab	44 a	44 abc	46 a
15	DMDS (75 G) Smooth (1.25 mil)	73 b-e	17 e-h	50 abc	36 bcd	54 a	58 a	46 a
16	DMDS (75 G) VIF-D (1.25 mil)	96 a	2 h	32 bc	44 a-d	42 a	35 abc	48 a
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)	82 abc	17 e-h	42 abc	41 a-d	48 a	43 abc	50 a
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)	97 a	4 gh	50 abc	28 cd	34 a	46 abc	36 a
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)	89 ab	21 d-h	40 abc	33 bcd	40 a	33 abc	33 a

# University of Georgia

Weed Code	CYPZZ	CYPZZ	plant 1 CUMSA	plant 2 CUMSA	plant 3 CUMSA	plant 4 CUMSA	plant 5 CUMSA		
Crop Code									
Part Rated									
Rating Data Type	control	#	ht	ht	ht	ht	ht		
Rating Unit	%	per plot	cm	cm	cm	cm	cm		
Rating Date	Oct-25-06	Jul-26-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06		
Assessed By	SC								
Trt-Eval Interval	245 DA-A	154 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A		
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			57	58	59	60	61	62	63
20	Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		97 a	5 gh	28 c	35 bcd	33 a	29 c	42 a
21	Pic Chlor 60 (400 lb) LDPE (1.25 mil)		63 c-f	23 d-h	53 ab	62 a	48 a	55 ab	54 a
22	Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		94 a	4 gh	53 ab	45 a-d	54 a	51 abc	41 a
23	Pic Chlor 60 (400 lb) Smooth (1.25 mil)		86 ab	15 e-h	52 abc	53 ab	48 a	47 abc	47 a
24	Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		95 a	3 gh	47 abc	51 ab	47 a	41 abc	34 a
25	Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		54 ef	32 def	33 bc	32 bcd	34 a	44 abc	42 a
26	Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		52 f	26 d-g	50 abc	34 bcd	42 a	35 abc	41 a
27	Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		52 f	40 cd	36 abc	37 bcd	41 a	42 abc	41 a
28	Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		96 a	8 gh	41 abc	35 bcd	37 a	44 abc	35 a
29	Pic Chlor 60 (250 lb) LDPE (1.25 mil)		50 f	37 cde	54 ab	46 a-d	54 a	47 abc	53 a
30	Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		70 b-f	14 fgh	48 abc	46 a-d	44 a	48 abc	42 a
31	Pic Chlor 60 (250 lb) Smooth (1.25 mil)		60 def	33 def	49 abc	54 ab	50 a	56 a	50 a
32	Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		97 a	6 gh	53 ab	38 bcd	38 a	45 abc	41 a
LSD (P=.05)			17.4	18.8	19.1	17.9	21.8	20.2	20.5
Standard Deviation			12.4	13.4	13.6	12.8	15.6	14.4	14.7
CV			16.81	66.95	30.23	30.57	37.04	33.79	34.81
Bartlett's X2			98.409	116.744	34.871	33.271	18.658	15.564	22.359
P(Bartlett's X2)			0.001*	0.001*	0.289	0.357	0.96	0.99	0.871

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

# University of Georgia

Weed Code	plant 6 CUMSA	plant 7 CUMSA	plant 8 CUMSA	plant 9 CUMSA	AVG9plan CUMSA	CUMSA	MULCH							
Crop Code														
Part Rated														
Rating Data Type	ht	ht	ht	ht	ht	# plants	soil temp F							
Rating Unit	cm	cm	cm	cm	cm	per plot	per plot							
Rating Date	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-31-06	Jul-26-06							
Assessed By														
Trt-Eval Interval	188 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A	190 DA-A	154 DA-A							
ARM Action Codes					T10									
# Subsamples, Dec.														
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate							
		Rate	Unit											
		64		65		66								
						67								
							68							
							69							
							70							
1	No fumigant LDPE (1.25 mil)	44 a-d		44 a		51 ab		42 ab		45 a		9 ab		89 ghi
2	No fumigant Metalized smooth (1.25 m)	25 cd		42 a		44 ab		37 ab		40 a		9 ab		88 i
3	No fumigant Smooth (1.25 mil)	41 a-d		44 a		37 ab		38 ab		40 a		9 ab		89 f-i
4	No fumigant VIF-D (1.25 mil)	48 a-d		49 a		49 ab		50 ab		47 a		9 ab		89 ghi
5	MIDAS (350 lb) LDPE (1.25 mil)	43 a-d		44 a		51 ab		39 ab		40 a		9 ab		93 ab
6	MIDAS (350 lb) Metalized smooth (1.25 m)	52 ab		49 a		51 ab		46 ab		47 a		9 a		90 e-i
7	MIDAS (350 lb) Smooth (1.25 mil)	51 abc		44 a		52 ab		35 ab		43 a		9 ab		92 a-f
8	MIDAS (350 lb) VIF-D (1.25 mil)	24 d		48 a		47 ab		31 ab		35 a		9 a		93 a
9	MB (350 lb) LDPE (1.25 mil)	30 a-d		36 a		29 b		31 ab		35 a		9 ab		91 a-f
10	MB (350 lb) Metalized smooth (1.25 m)	48 a-d		40 a		46 ab		48 ab		45 a		9 ab		90 d-i
11	MB (350 lb) Smooth (1.25 mil)	28 bcd		31 a		34 ab		46 ab		38 a		9 ab		93 ab
12	MB (350 lb) VIF-D (1.25 mil)	41 a-d		37 a		33 ab		22 b		35 a		9 b		92 a-d
13	DMDS (75 G) LDPE (1.25 mil)	48 a-d		41 a		44 ab		50 ab		47 a		9 ab		89 ghi
14	DMDS (75 G) Metalized smooth (1.25 m)	45 a-d		54 a		53 ab		50 ab		49 a		9 ab		89 ghi
15	DMDS (75 G) Smooth (1.25 mil)	48 a-d		48 a		48 ab		39 ab		47 a		9 ab		90 c-h
16	DMDS (75 G) VIF-D (1.25 mil)	40 a-d		51 a		52 ab		42 ab		43 a		9 ab		92 abc
17	Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)	36 a-d		35 a		32 ab		32 ab		40 a		9 ab		90 e-i
18	Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)	47 a-d		46 a		47 ab		43 ab		42 a		9 ab		90 e-i
19	Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)	36 a-d		38 a		41 ab		38 ab		37 a		9 ab		90 c-h

# University of Georgia

Weed Code	plant 6 CUMSA	plant 7 CUMSA	plant 8 CUMSA	plant 9 CUMSA	AVG9plan CUMSA	CUMSA	MULCH	
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	# plants	soil temp F	
Rating Unit	cm	cm	cm	cm	cm	per plot	per plot	
Rating Date	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-29-06	Aug-31-06	Jul-26-06	
Assessed By								
Trt-Eval Interval	188 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A	190 DA-A	154 DA-A	
ARM Action Codes					T10			
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	64	65	66	67	68	69	70
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		36 a-d	38 a	37 ab	40 ab	35 a	9 ab	93 ab
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		47 a-d	53 a	50 ab	40 ab	51 a	9 ab	91 b-g
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		51 abc	56 a	47 ab	54 a	50 a	9 ab	88 hi
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		46 a-d	47 a	41 ab	45 ab	47 a	9 ab	89 ghi
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		52 ab	55 a	53 ab	59 a	49 a	9 ab	90 c-h
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		43 a-d	34 a	39 ab	37 ab	37 a	9 ab	89 ghi
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		37 a-d	40 a	41 ab	55 a	42 a	9 ab	89 ghi
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		43 a-d	36 a	42 ab	46 ab	40 a	9 ab	88 i
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		38 a-d	39 a	41 ab	42 ab	39 a	9 ab	92 a-e
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		46 a-d	42 a	41 ab	32 ab	46 a	9 b	89 ghi
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		47 a-d	53 a	49 ab	47 ab	47 a	9 ab	88 i
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		55 a	42 a	56 a	47 ab	51 a	9 ab	88 hi
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		36 a-d	43 a	36 ab	42 ab	41 a	9 ab	91 b-g
LSD (P=.05)		20.6	20.1	19.6	22.9	12.7	0.3	1.9
Standard Deviation		14.7	14.3	14.0	16.4	9.1	0.2	1.4
CV		34.93	32.86	31.81	39.1	21.21	2.54	1.52
Bartlett's X2		25.383	23.313	24.25	42.582	30.361	1.35	52.765
P(Bartlett's X2)		0.75	0.838	0.80	0.08	0.499	0.853	0.009*

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

Column 68: T10 = @AVG([C59],[C67])



# University of Georgia

Weed Code	Harv 1 CUMSA	Harv 1 CUMSA	Harv 2 CUMSA	Harv 2 CUMSA	Harv 3 CUMSA	Harv 3 CUMSA	Harv 4 CUMSA
Crop Code							
Part Rated							
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Sep-11-06	Sep-11-06	Sep-14-06	Sep-14-06	Sep-16-06	Sep-16-06	Sep-18-06
Assessed By							
Trt-Eval Interval	201 DA-A	201 DA-A	201 DA-A	201 DA-A	204 DA-A	204 DA-A	206 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	71	72	73	74	75	76	77
1 No fumigant LDPE (1.25 mil)	5 b-g	2 b-g	2 a	1 a	2 cd	1 bc	7 ab
2 No fumigant Metalized smooth (1.25 m)	2 efg	1 efg	2 a	1 a	4 a-d	2 abc	6 ab
3 No fumigant Smooth (1.25 mil)	1 g	1 g	3 a	1 a	2 cd	1 bc	4 ab
4 No fumigant VIF-D (1.25 mil)	4 b-g	2 b-g	4 a	2 a	3 a-d	1 bc	5 ab
5 MIDAS (350 lb) LDPE (1.25 mil)	5 a-g	3 b-g	4 a	2 a	5 a-d	2 abc	6 ab
6 MIDAS (350 lb) Metalized smooth (1.25 m)	8 a-d	4 a-f	4 a	2 a	3 a-d	1 bc	9 a
7 MIDAS (350 lb) Smooth (1.25 mil)	7 a-f	4 a-g	4 a	2 a	4 a-d	2 abc	5 ab
8 MIDAS (350 lb) VIF-D (1.25 mil)	4 b-g	3 b-g	2 a	1 a	3 a-d	2 abc	7 ab
9 MB (350 lb) LDPE (1.25 mil)	4 b-g	2 b-g	3 a	2 a	3 a-d	2 abc	7 ab
10 MB (350 lb) Metalized smooth (1.25 m)	9 ab	5 ab	2 a	1 a	3 a-d	2 abc	10 a
11 MB (350 lb) Smooth (1.25 mil)	6 a-g	3 b-g	2 a	1 a	2 cd	1 bc	4 ab
12 MB (350 lb) VIF-D (1.25 mil)	4 c-g	2 c-g	4 a	2 a	3 bcd	1 bc	5 ab
13 DMDS (75 G) LDPE (1.25 mil)	4 b-g	2 b-g	1 a	1 a	3 a-d	2 abc	6 ab
14 DMDS (75 G) Metalized smooth (1.25 m)	8 a-e	5 a-d	3 a	2 a	2 cd	1 bc	6 ab
15 DMDS (75 G) Smooth (1.25 mil)	4 b-g	2 b-g	3 a	2 a	1 d	1 bc	6 ab
16 DMDS (75 G) VIF-D (1.25 mil)	3 c-g	2 c-g	3 a	2 a	5 abc	3 ab	8 ab
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)	3 d-g	1 d-g	3 a	1 a	3 bcd	1 bc	3 b
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)	8 abc	5 a-e	3 a	2 a	3 a-d	2 abc	7 ab
19 Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)	3 d-g	1 efg	5 a	2 a	3 a-d	1 bc	6 ab

# University of Georgia

Weed Code	Harv 1	Harv 1	Harv 2	Harv 2	Harv 3	Harv 3	Harv 4	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated								
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-11-06	Sep-11-06	Sep-14-06	Sep-14-06	Sep-16-06	Sep-16-06	Sep-18-06	
Assessed By								
Trt-Eval Interval	201 DA-A	201 DA-A	201 DA-A	201 DA-A	204 DA-A	204 DA-A	206 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	71	72	73	74	75	76	
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		5 b-g	3 b-g	3 a	1 a	3 a-d	2 abc	4 ab
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		7 a-g	4 a-g	3 a	2 a	3 a-d	2 abc	7 ab
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		11 a	6 a	2 a	1 a	6 ab	4 a	8 ab
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		8 a-d	5 abc	4 a	2 a	3 a-d	2 abc	6 ab
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		7 a-g	4 a-g	4 a	2 a	6 a	3 a	7 ab
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		5 b-g	2 b-g	4 a	2 a	2 bcd	1 bc	5 ab
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		4 b-g	2 b-g	3 a	2 a	4 a-d	2 abc	6 ab
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		2 fg	1 fg	2 a	1 a	1 d	1 c	7 ab
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		4 b-g	3 b-g	3 a	2 a	3 a-d	1 bc	7 ab
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		5 b-g	3 b-g	3 a	2 a	4 a-d	2 abc	7 ab
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		8 a-d	5 a-e	2 a	1 a	1 d	1 bc	5 ab
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		6 a-g	3 b-g	4 a	2 a	2 cd	1 bc	8 ab
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		3 c-g	2 c-g	5 a	3 a	1 d	1 bc	9 ab
LSD (P=.05)		4.5	2.7	3.1	1.9	2.9	1.6	4.9
Standard Deviation		3.2	1.9	2.2	1.3	2.1	1.2	3.5
CV		63.32	67.56	78.34	77.34	70.21	74.07	55.61
Bartlett's X2		33.631	47.722	44.059	39.572	33.704	39.158	40.175
P(Bartlett's X2)		0.296	0.028*	0.06	0.139	0.338	0.149	0.125

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

# University of Georgia

Weed Code	Harv 4 CUMSA	Harv 5 CUMSA	Harv 5 CUMSA	Harv 6 CUMSA	Harv 6 CUMSA	Harv 7 CUMSA	Harv 7 CUMSA	
Crop Code								
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-18-06	Sep-20-06	Sep-20-06	Sep-22-06	Sep-22-06	Sep-25-06	Sep-25-06	
Assessed By								
Trt-Eval Interval	206 DA-A	208 DA-A	208 DA-A	210 DA-A	210 DA-A	212 DA-A	212 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	78	79	80	81	82	83	
1 No fumigant LDPE (1.25 mil)		3 ab	3 a	1 a	3 ef	2 c-f	5 c	3 b
2 No fumigant Metalized smooth (1.25 m)		3 ab	7 a	3 a	1 f	1 f	6 abc	3 b
3 No fumigant Smooth (1.25 mil)		2 ab	2 a	1 a	3 ef	2 def	5 c	3 b
4 No fumigant VIF-D (1.25 mil)		2 ab	5 a	2 a	4 c-f	2 b-f	6 abc	4 ab
5 MIDAS (350 lb) LDPE (1.25 mil)		3 ab	3 a	2 a	9 abc	5 ab	10 abc	4 ab
6 MIDAS (350 lb) Metalized smooth (1.25 m)		5 ab	5 a	3 a	10 a	6 a	10 abc	5 ab
7 MIDAS (350 lb) Smooth (1.25 mil)		3 ab	3 a	1 a	8 a-e	4 a-e	9 abc	5 ab
8 MIDAS (350 lb) VIF-D (1.25 mil)		3 ab	5 a	3 a	5 b-f	3 b-f	7 abc	4 ab
9 MB (350 lb) LDPE (1.25 mil)		4 ab	5 a	3 a	6 a-f	3 a-f	10 abc	6 ab
10 MB (350 lb) Metalized smooth (1.25 m)		5 a	6 a	4 a	8 abc	5 ab	9 abc	6 ab
11 MB (350 lb) Smooth (1.25 mil)		2 ab	7 a	4 a	6 a-f	4 a-e	6 abc	4 ab
12 MB (350 lb) VIF-D (1.25 mil)		2 ab	5 a	2 a	4 b-f	2 b-f	11 abc	6 ab
13 DMDS (75 G) LDPE (1.25 mil)		3 ab	6 a	3 a	6 a-f	3 a-f	8 abc	5 ab
14 DMDS (75 G) Metalized smooth (1.25 m)		3 ab	7 a	4 a	8 a-d	5 ab	10 abc	6 ab
15 DMDS (75 G) Smooth (1.25 mil)		3 ab	7 a	4 a	3 def	2 b-f	7 abc	5 ab
16 DMDS (75 G) VIF-D (1.25 mil)		4 ab	5 a	2 a	5 b-f	3 b-f	8 abc	5 ab
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)		1 b	4 a	2 a	5 b-f	3 b-f	7 abc	4 ab
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)		4 ab	4 a	2 a	5 b-f	2 b-f	8 abc	6 ab
19 Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)		3 ab	3 a	1 a	5 b-f	2 b-f	6 bc	3 b

# University of Georgia

Weed Code	Harv 4	Harv 5	Harv 5	Harv 6	Harv 6	Harv 7	Harv 7	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-18-06	Sep-20-06	Sep-20-06	Sep-22-06	Sep-22-06	Sep-25-06	Sep-25-06	
Assessed By								
Trt-Eval Interval	206 DA-A	208 DA-A	208 DA-A	210 DA-A	210 DA-A	212 DA-A	212 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	78	79	80	81	82	83	
		84						
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		2 ab	8 a	4 a	4 c-f	2 b-f	6 abc	4 ab
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		4 ab	7 a	4 a	5 b-f	3 a-f	9 abc	6 ab
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		5 a	6 a	3 a	9 abc	4 abc	12 ab	7 ab
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		3 ab	8 a	4 a	8 a-e	4 a-d	8 abc	5 ab
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		4 ab	4 a	2 a	9 ab	5 ab	11 abc	6 ab
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		2 ab	4 a	2 a	3 f	2 ef	11 abc	6 ab
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		3 ab	5 a	3 a	4 c-f	2 b-f	8 abc	5 ab
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		3 ab	8 a	4 a	4 c-f	2 b-f	7 abc	5 ab
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		4 ab	4 a	2 a	2 f	1 ef	13 a	8 a
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		4 ab	6 a	3 a	5 b-f	3 b-f	8 abc	5 ab
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		3 ab	8 a	4 a	8 a-e	4 a-e	6 bc	3 b
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		4 ab	5 a	2 a	5 b-f	3 b-f	6 abc	4 ab
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		5 a	4 a	2 a	4 b-f	3 b-f	8 abc	5 ab
LSD (P=.05)		2.7	4.9	2.6	4.0	2.2	5.4	3.4
Standard Deviation		2.0	3.5	1.9	2.9	1.6	3.9	2.4
CV		59.19	66.83	72.17	53.99	52.02	48.96	50.48
Bartlett's X2		36.301	36.104	36.934	31.764	32.082	46.22	37.32
P(Bartlett's X2)		0.235	0.242	0.214	0.428	0.413	0.039*	0.201

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

# University of Georgia

Weed Code	Harv 8 CUMSA	Harv 8 CUMSA	Harv 1&2 CUMSA	Harv 1&2 CUMSA	Harv 1-8 CUMSA	Harv 1-8 CUMSA	Root-Kno nematode	
Crop Code								
Part Rated								
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	100cm3soil	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	number	
Rating Date	Sep-27-06	Sep-27-06						
Assessed By								
Trt-Eval Interval	212 DA-A	212 DA-A						
ARM Action Codes			T11	T12	T13	T14		
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	85	86	87	88	89	90	91
1 No fumigant LDPE (1.25 mil)		3 b	1 d	6 a-f	3 b-f	29 fg	14 fg	567 a
2 No fumigant Metalized smooth (1.25 m)		4 ab	2 bcd	4 ef	2 ef	32 efg	16 efg	
3 No fumigant Smooth (1.25 mil)		3 ab	2 bcd	4 f	2 f	23 g	12 g	
4 No fumigant VIF-D (1.25 mil)		4 ab	2 bcd	7 a-f	4 a-f	34 efg	18 d-g	
5 MIDAS (350 lb) LDPE (1.25 mil)		5 ab	2 a-d	9 a-f	5 a-f	46 a-f	23 a-f	
6 MIDAS (350 lb) Metalized smooth (1.25 m)		6 ab	3 a-d	12 ab	7 ab	56 ab	29 abc	
7 MIDAS (350 lb) Smooth (1.25 mil)		5 ab	2 a-d	11 a-e	6 a-e	44 a-f	22 b-f	
8 MIDAS (350 lb) VIF-D (1.25 mil)		4 ab	1 bcd	7 a-f	4 a-f	37 c-g	21 b-g	
9 MB (350 lb) LDPE (1.25 mil)		5 ab	2 a-d	7 a-f	4 a-f	42 b-f	23 a-f	80 b
10 MB (350 lb) Metalized smooth (1.25 m)		6 ab	3 a-d	12 abc	7 abc	53 abc	30 ab	
11 MB (350 lb) Smooth (1.25 mil)		4 ab	2 bcd	7 a-f	4 a-f	35 d-g	20 b-g	
12 MB (350 lb) VIF-D (1.25 mil)		5 ab	2 a-d	7 a-f	4 a-f	39 b-g	20 b-g	
13 DMDS (75 G) LDPE (1.25 mil)		6 ab	3 a-d	5 def	3 c-f	39 b-g	21 b-g	108 b
14 DMDS (75 G) Metalized smooth (1.25 m)		3 b	1 cd	10 a-f	6 abc	46 a-f	26 a-e	
15 DMDS (75 G) Smooth (1.25 mil)		3 b	1 bcd	7 a-f	4 a-f	34 efg	20 b-g	
16 DMDS (75 G) VIF-D (1.25 mil)		6 ab	3 a-d	6 b-f	3 b-f	41 b-f	23 b-f	
17 Telone (12 G) Pic (150 lb) Vapam (75 G) LDPE (1.25 mil)		4 ab	2 a-d	5 c-f	3 c-f	29 fg	16 efg	188 b
18 Telone (12 G) Pic (150 lb) Vapam (75 G) Metalized smooth (1.25 m)		6 ab	4 a	11 a-d	6 a-d	44 a-f	26 a-e	
19 Telone (12 G) Pic (150 lb) Vapam (75 G) Smooth (1.25 mil)		6 ab	3 a-d	7 a-f	4 b-f	34 efg	17 efg	

## University of Georgia

Weed Code	Harv 8 CUMSA	Harv 8 CUMSA	Harv 1&2 CUMSA	Harv 1&2 CUMSA	Harv 1-8 CUMSA	Harv 1-8 CUMSA	Root-Kno nematode	
Crop Code								
Part Rated								
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	100cm3soil	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	number	
Rating Date	Sep-27-06	Sep-27-06						
Assessed By								
Trt-Eval Interval	212 DA-A	212 DA-A						
ARM Action Codes			T11	T12	T13	T14		
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	85	86	87	88	89	90	
20 Telone (12 G) Pic (150 lb) Vapam (75 G) VIF-D (1.25 mil)		4 ab	2 a-d	8 a-f	4 a-f	36 c-g	20 b-g	
21 Pic Chlor 60 (400 lb) LDPE (1.25 mil)		7 ab	3 a-d	10 a-f	6 a-e	48 a-e	28 a-d	
22 Pic Chlor 60 (400 lb) Metalized smooth (1.25 m)		7 ab	2 a-d	13 a	8 a	60 a	33 a	
23 Pic Chlor 60 (400 lb) Smooth (1.25 mil)		8 a	3 abc	12 ab	7 ab	52 a-d	29 abc	
24 Pic Chlor 60 (400 lb) VIF-D (1.25 mil)		7 ab	3 a-d	10 a-e	6 a-d	53 abc	29 abc	
25 Telone (12 G) Pic (150 lb) LDPE (1.25 mil)		7 ab	3 ab	8 a-f	4 a-f	39 b-g	21 b-g	
26 Telone (12 G) Pic (150 lb) Metalized smooth (1.25 m)		6 ab	3 a-d	7 a-f	4 a-f	39 b-g	21 b-g	
27 Telone (12 G) Pic (150 lb) Smooth (1.25 mil)		4 ab	2 bcd	4 ef	2 def	34 efg	19 c-g	
28 Telone (12 G) Pic (150 lb) VIF-D (1.25 mil)		4 ab	2 bcd	8 a-f	5 a-f	41 b-f	22 b-f	
29 Pic Chlor 60 (250 lb) LDPE (1.25 mil)		4 ab	2 bcd	7 a-f	4 a-f	40 b-g	22 b-g	
30 Pic Chlor 60 (250 lb) Metalized smooth (1.25 m)		3 b	1 bcd	10 a-e	6 a-e	41 b-f	22 b-f	
31 Pic Chlor 60 (250 lb) Smooth (1.25 mil)		4 ab	2 bcd	9 a-f	5 a-f	40 b-g	22 b-g	
32 Pic Chlor 60 (250 lb) VIF-D (1.25 mil)		6 ab	2 a-d	8 a-f	5 a-f	40 b-g	23 a-f	
LSD (P=.05)		3.8	1.8	5.3	3.2	14.3	8.4	289.9
Standard Deviation		2.7	1.3	3.8	2.3	10.2	6.0	181.3
CV		56.47	60.23	47.47	49.78	25.33	27.31	76.87
Bartlett's X2		49.444	44.581	31.776	37.346	41.248	41.503	7.006
P(Bartlett's X2)		0.019*	0.054	0.428	0.20	0.103	0.099	0.072

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

Column 87: T11 = ([C71]+[C73])

Column 88: T12 = ([C72]+[C74])

Column 89: T13 = ([C71]+[C73]+[C75]+[C77]+[C79]+[C81]+[C83]+[C85])

Column 90: T14 = ([C72]+[C74]+[C76]+[C78]+[C80]+[C82]+[C84]+[C86])

# University of Georgia

Impact of fumigant/mulch combinations on nutsedge and crop yield in a spring  
pepper crop and a fall cucumber crop.

Trial ID: Veg18-06

Study Dir.: Amy Davis

Location: Ponder (5141)

Investigator: Stanley Culpepper

## GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

Investigator: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

## TRIAL LOCATION

City: TyTy

Trial Status: completed

State/Prov.: GA

Trial Reliability: excellent

Postal Code: 31794

Initiation Date: Feb-22-06

Country: USA

Planned Completion Date: \_\_\_\_\_

E-Longitude of LL Corner °: \_\_\_\_\_

N-Latitude of LL Corner °: \_\_\_\_\_

Altitude of LL Corner: \_\_\_\_\_ Unit: \_\_\_\_\_ Angle y-axis to North °: \_\_\_\_\_

Directions: \_\_\_\_\_

## COOPERATOR/LANDOWNER

Cooperator: \_\_\_\_\_

Country: \_\_\_\_\_

Org: \_\_\_\_\_

Phone No: \_\_\_\_\_

Address 1: \_\_\_\_\_

Fax No: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_

State/Prov: \_\_\_\_\_

Postal Code: \_\_\_\_\_

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Guidelines: \_\_\_\_\_ Guideline Description: \_\_\_\_\_

Objective: \_\_\_\_\_

Conclusions: \_\_\_\_\_

## CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPZZ	purple and yellow nutsedge	

Crop 1: CPSAN bell pepper

Variety: Heritage

Planting Date: Mar-13-06

Planting Method: transplant

Rate: 1 ft

Depth: 1 in

Perennial Age: \_\_\_\_\_

Row Spacing: 15 inch Spacing Within Row: 12 inch Seed Bed: raised/mulch

Soil Temperature: 64 F Soil Moisture: perfect(14%) Emergence Date: \_\_\_\_\_

Crop 2: CUMSA cucumber

Variety: Thunder

Planting Date: Aug-04-06

Planting Method: transplant

Rate: 1 ft

Depth: 1 in

Perennial Age: \_\_\_\_\_

Row Spacing: 6 ft Spacing Within Row: 1 ft Seed Bed: raised/mulch

Soil Temperature: \_\_\_\_\_ Soil Moisture: drip Emergence Date: \_\_\_\_\_

## SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 10 FT Reps: 4

Site Type: Ponder farm

Tillage Type: conventional

Study Design: FACTORIAL

Trial Initiation Comments: \_\_\_\_\_

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	Previous Crops	Previous Pesticides	Year
1.			

### MAINTENANCE

Field Prep./Maintenance:

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

### SOIL DESCRIPTION

% Sand: 94	% OM: 1.3	Texture: sand	
% Silt: 2	pH: 6.3	Soil Name: Tifton sandy loam	
% Clay: 4	CEC: _____	Fert. Level: _____	

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip

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

### APPLICATION DESCRIPTION

	A
Application Date:	Feb-22-06
Time of Day:	all day
Application Method:	see
Application Timing:	comments
Applic. Placement:	in soil
Air Temp., Unit:	68 F
% Relative Humidity:	44
Wind Velocity, Unit:	5 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	64 F
Soil Moisture:	perfect
% Cloud Cover:	20

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN .
Stage Scale:	preplant
Height, Unit:	0 inch
Crop 2 Code, Stage:	CUMSA
Stage Scale:	
Height, Unit:	



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## WEED STAGE AT EACH APPLICATION

	A
<b>Weed 1 Code, Stage:</b>	CYPZZ .
<b>Stage Scale:</b>	preplant
<b>Density, Unit:</b>	25 ydsq

## APPLICATION EQUIPMENT

	A
<b>Appl. Equipment:</b>	see
<b>Operating Pressure:</b>	comment
<b>Nozzle Type:</b>	section
<b>Nozzle Size:</b>	
<b>Nozzle Spacing, Unit:</b>	
<b>Nozzles/Row:</b>	
<b>Band Width, Unit:</b>	
<b>Boom Length, Unit:</b>	
<b>Boom Height, Unit:</b>	
<b>Ground Speed, Unit:</b>	
<b>Incorporation Equip.:</b>	
<b>Hours to Incorp.:</b>	
<b>Incorp. Depth, Unit:</b>	
<b>Carrier:</b>	
<b>Spray Volume, Unit:</b>	0. .
<b>Spray pH:</b>	0.
<b>Propellant:</b>	nitrogen
<b>Tank Mix (Y/N):</b>	y

Trt No	Treatment Application Comment