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Nutsedge and cucumber response to reduced rates of MIDAS and MB under LDPE and metalized mulch.

Trial ID: Veg24-06

Study Dir.: Stanley Culpepper

Location: Ponder 5160

Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form	Form	Rate	Grow	Appl	Amt	Product	Plot No.	By Rep	
		No.	Type	Conc	Rate	Unit	Stg	Code	to Measure	1	2
1	MI 300 LDPE (1.25 mil) plant 2 d after hole poke								102	222	326
2	MI 300 LDPE (1.25 mil) plant d of hole poke								101	221	325
3	MI 300 Metalized smooth (1 mil) plant 2 d after hole poke								103	223	327
4	MI 300 Metalized smooth (1 mil) plant d of hole poke								104	224	328
5	MI 225 LDPE (1.25 mil) plant 2 d after hole poke								106	210	306
6	MI 225 LDPE (1.25 mil) plant d of hole poke								105	209	305
7	MI 225 Metalized smooth (1 mil) plant 2 d after hole poke								107	211	307
8	MI 225 Metalized smooth (1 mil) plant d of hole poke								108	212	308
9	MI 150 LDPE (1.25 mil) plant 2 d after hole poke								110	202	314
10	MI 150 LDPE (1.25 mil) plant d of hole poke								109	201	313
11	MI 150 Metalized smooth (1 mil) plant 2 d after hole poke								111	203	315
12	MI 150 Metalized smooth (1 mil) plant d of hole poke								112	204	316
13	No fumigant LDPE (1.25 mil) plant 2 d after hole poke								114	218	318
14	No fumigant LDPE (1.25 mil) plant d of hole poke								113	217	317
15	No fumigant Metalized smooth (1 mil) plant 2 d after hole poke								115	219	319
16	No fumigant Metalized smooth (1 mil) plant d of hole poke								116	220	320

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Reps: 3

Spray vol: 14.8 gal/ac

Plots: 6 by 20 feet

Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form	Form	Rate	Grow	Appl	Amt	Product	Plot No.	By Rep	
		Conc	Type	Rate	Unit	Stg	Code	to Measure	1	2	3
17	MB 300 LDPE (1.25 mil) plant 2 d after hole poke								118	226	322
18	MB 300 LDPE (1.25 mil) plant d of hole poke								117	225	321
19	MB 300 Metalized smooth (1 mil) plant 2 d after hole poke								119	227	323
20	MB 300 Metalized smooth (1 mil) plant d of hole poke								120	228	324
21	MB 225 LDPE (1.25 mil) plant 2 d after hole poke								122	214	302
22	MB 225 LDPE (1.25 mil) plant d of hole poke								121	213	301
23	MB 225 Metalized smooth (1 mil) plant 2 d after hole poke								123	215	303
24	MB 225 Metalized smooth (1 mil) plant d of hole poke								124	216	304
25	MB 150 LDPE (1.25 mil) plant 2 d after hole poke								126	206	310
26	MB 150 LDPE (1.25 mil) plant d of hole poke								125	205	309
27	MB 150 Metalized smooth (1 mil) plant 2 d after hole poke								127	207	311
28	MB 150 Metalized smooth (1 mil) plant d of hole poke								128	208	312

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.

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Nutsedge and cucumber response to reduced rates of MIDAS and MB under LDPE and metalized mulch.

Trial ID: Veg24-06

Location: Ponder 5160

Study Dir.: Stanley Culpepper

Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Determine rate of MB or MIDAS needed to control nutsedge when applied under LDPE or metalized mulch.

VISUAL CONTROL AND NUTSEDGE EMERGENCE COUNTS THROUGH MULCH:

1. Main effects for fumigant treatments were significant. No differences with plant date OR MULCH type were noted. Conditions were perfect for fumigant application which may have led to less impact from the mulch as optimal control under LDPE was noted.
2. MIDAS and MB at 300 and 225 lb/A provided excellent control throughout the season. By seasons end, there were 4 to 7 nutsedge plants in the MIDAS plots with less than 0.3 plants in the MB plots when averaged over plant date and mulch type.
3. Applied at 150 lb/A, MB was more effective than MIDAS after 41 days after application (see nutsedge counts). These fumigant rates were less effective than when applied at 225 or 300 lb/A for both products.

CUCUMBER RUNNER LENGTH:

1. When measuring 10 plants per plot at approximately 35 days after transplanting, mulch type, plant date, and fumigant impacted plant growth.
2. Cucumber on the metalized silver mulch was 17% shorter than those growing on the black LDPE mulch.
3. Cucumber planted on the day of transplant was 12% larger than those planted 2 days later.
4. Cucumber planted in beds treated with MIDAS at 300 or 225 lb were shorter than those treated with MB at 225 or 150 lb.

CUCUMBER YIELD (Harvested 7 times):

1. Mulch type: Silver mulch produced less fruit and weight in 4 of 7 harvest. When adding all harvest dates together, there was 15.5% less fruit and 17% less weight for cucumber grown on the metalized mulch as compared to the LDPE mulch.
2. Plant date: During harvest one and when totaling all harvest dates, more fruit were picked when planted the same day that the holes were poked compared to waiting 2 days before planting the crop.
3. Fumigants: During individual harvest, differences among fumigant options was variable but there was clearly a trend for less fruit produced in the non-treated control as compared to fumigated plots. When adding all harvest dates, yields were greater with fumigated plots as compared to the non-treated control and there also appeared to be a slight trend for more weight in the MB plots as compared to the MIDAS plots (maybe a response to minor stunting early in season).

GENERAL INFORMATION:

Mulch Information:

1. LDPE was a black on black mulch 1.25 mil.
2. Metalized mulch was silver on black 1.0 mil.

Application Information:

1. MB and MIDAS applied with a super bedder plastic layer injecting fumigant 8 inches deep with three knives for a 32 inch bed top.

Planting Information:

1. On March 8, all holes were poked in the mulch and the "d of hole poking" treatments were transplanted. Other treatments were transplanted 2 days later.

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Weed Code		CYPRO						
Crop Code	cucumber	control	control	control	control	control	ct #	ct #
Rating Data Type	stunting %	%	%	%	%	%		
Rating Unit	Mar-17-06	Mar-17-06	Mar-21-06	Apr-07-06	May-16-06	May-16-06	Mar-08-06	Mar-22-06
Rating Date								
Crop Stage	stanley	stanley	stanley	stanley	amy	amy		
Trt-Eval Interval	23 DA-A	23 DA-A	27 DA-A	44 DA-A	83 DA-A	83 DA-A	14 DA-A	28 DA-A
ARM Action Codes								
Trt Treatment	Rate	1	2	3	4	5	6	7
No. Name	Rate Unit							
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	17 ab	7 d	6 c	8 c	20 f	8 bc	24 c	
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke	0 b	100 a	100 a	100 a	100 a	0 c	0 e	
18 MB 300 LDPE (1.25 mil) plant d of hole poke	0 b	100 a	100 a	100 a	98 ab	0 c	0 e	
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke	7 ab	100 a	100 a	100 a	100 a	0 c	0 e	
20 MB 300 Metalized smooth (1 mil) plant d of hole poke	15 ab	100 a	100 a	100 a	100 a	0 c	0 e	
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke	3 ab	100 a	100 a	100 a	98 ab	0 c	0 e	
22 MB 225 LDPE (1.25 mil) plant d of hole poke	3 ab	100 a	100 a	100 a	100 a	0 c	0 e	
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke	5 ab	100 a	100 a	100 a	98 ab	0 c	0 e	
24 MB 225 Metalized smooth (1 mil) plant d of hole poke	12 ab	100 a	100 a	100 a	100 a	0 c	0 e	
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke	5 ab	90 abc	93 ab	90 ab	75 cd	1 bc	4 de	
26 MB 150 LDPE (1.25 mil) plant d of hole poke	5 ab	95 abc	94 ab	93 ab	82 a-d	1 bc	3 de	
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke	3 ab	95 abc	97 a	95 ab	87 a-d	0 c	2 de	
28 MB 150 Metalized smooth (1 mil) plant d of hole poke	15 ab	98 ab	100 a	98 a	98 ab	0 c	0 e	
LSD (P=.05)	13.6	10.5	10.8	9.3	16.2	6.7	8.5	
Standard Deviation	8.3	6.4	6.6	5.7	9.9	4.1	5.2	
CV	107.47	7.66	7.91	6.9	12.58	183.23	82.96	
Bartlett's X2	11.189	10.904	28.269	24.152	36.954	25.484	49.043	
P(Bartlett's X2)	0.992	0.365	0.029*	0.115	0.005*	0.002*	0.001*	

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

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Weed Code	CYPRO	CYPRO	CYPRO	plant 1 cucumber length cm	plant 2 cucumber length cm	plant 3 cucumber length cm	plant 4 cucumber length cm
Crop Code	ct #	ct #	ct #	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06
Rating Data Type	Apr-04-06	Apr-20-06	May-16-06				
Rating Unit							
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate	Unit					
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke	0 d	0 d	0 f	7 a	7 ab	9 a	7 ab
2 MI 300 LDPE (1.25 mil) plant d of hole poke	1 cd	2 d	6 ef	9 a	9 ab	8 a	8 ab
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke	6 cd	8 cd	25 de	6 a	7 ab	8 a	9 ab
4 MI 300 Metalized smooth (1 mil) plant d of hole poke	0 d	0 d	0 f	7 a	6 b	7 a	6 b
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke	0 d	0 d	1 f	6 a	9 ab	8 a	10 a
6 MI 225 LDPE (1.25 mil) plant d of hole poke	4 cd	4 cd	11 def	7 a	7 ab	8 a	8 ab
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke	0 d	2 d	5 ef	7 a	10 a	7 a	8 ab
8 MI 225 Metalized smooth (1 mil) plant d of hole poke	1 d	0 d	1 f	8 a	7 ab	7 a	7 ab
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke	3 cd	2 d	14 def	8 a	9 ab	8 a	8 ab
10 MI 150 LDPE (1.25 mil) plant d of hole poke	16 c	14 cd	27 cd	8 a	8 ab	8 a	7 ab
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke	15 cd	18 c	44 bc	8 a	8 ab	7 a	8 ab
12 MI 150 Metalized smooth (1 mil) plant d of hole poke	2 cd	8 cd	21 def	7 a	7 ab	6 a	8 ab
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke	57 a	57 a	69 a	8 a	7 ab	8 a	7 ab
14 No fumigant LDPE (1.25 mil) plant d of hole poke	50 a	49 ab	60 ab	7 a	8 ab	8 a	8 ab
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke	52 a	53 ab	67 a	8 a	8 ab	6 a	8 ab
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	35 b	40 b	54 ab	6 a	7 ab	6 a	6 b

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Weed Code	CYPRO	CYPRO	CYPRO	plant 1 cucumber length cm	plant 2 cucumber length cm	plant 3 cucumber length cm	plant 4 cucumber length cm
Crop Code	ct #	ct #	ct #	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06
Rating Data Type	Apr-04-06	Apr-20-06	May-16-06				
Rating Unit							
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate	Unit					
17 MB 300	8		9	10	11	12	13
LDPE (1.25 mil)							
plant 2 d after hole poke			0 d	0 f	8 a	9 ab	8 a
18 MB 300			0 d	0 d	1 f	7 a	7 ab
LDPE (1.25 mil)							
plant d of hole poke			0 d	0 d	7 a	7 ab	7 a
19 MB 300			0 d	0 f	8 ab	7 a	8 ab
Metalized smooth (1 mil)							
plant 2 d after hole poke			0 d	0 f	7 a	7 a	7 b
20 MB 300			0 d	0 d	0 f	6 ab	7 a
Metalized smooth (1 mil)							
plant d of hole poke			0 d	0 d	7 a	7 a	8 ab
21 MB 225			0 d	0 d	0 f	8 a	8 ab
LDPE (1.25 mil)							
plant 2 d after hole poke			0 d	0 f	8 a	8 ab	8 a
22 MB 225			0 d	0 d	0 f	7 a	7 ab
LDPE (1.25 mil)							
plant d of hole poke			0 d	0 d	7 a	7 a	7 ab
23 MB 225			0 d	0 d	0 f	8 a	8 ab
Metalized smooth (1 mil)							
plant 2 d after hole poke			0 d	0 f	8 a	8 a	8 ab
24 MB 225			0 d	0 d	0 f	7 a	7 ab
Metalized smooth (1 mil)							
plant d of hole poke			0 d	0 f	7 a	7 a	8 ab
25 MB 150			7 cd	10 cd	22 def	8 a	8 ab
LDPE (1.25 mil)							
plant 2 d after hole poke			7 cd	10 cd	22 def	8 a	9 a
26 MB 150			4 cd	2 d	17 def	8 a	7 ab
LDPE (1.25 mil)							
plant d of hole poke			4 cd	2 d	17 def	8 a	8 ab
27 MB 150			2 cd	4 cd	8 def	8 a	8 a
Metalized smooth (1 mil)							
plant 2 d after hole poke			2 cd	4 cd	8 def	8 a	9 ab
28 MB 150			0 d	0 d	0 f	7 a	7 ab
Metalized smooth (1 mil)							
plant d of hole poke			0 d	0 f	7 a	7 ab	8 a
LSD (P=.05)	12.8		12.9	17.8	2.6	2.9	2.7
Standard Deviation	7.8		7.9	10.9	1.6	1.8	1.6
CV	84.95		80.44	67.34	21.77	23.1	22.18
Bartlett's X2	80.215		38.767	55.638	20.679	23.947	15.693
P(Bartlett's X2)	0.001*		0.001*	0.001*	0.758	0.633	0.959
							0.70

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

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Weed Code	plant 5 cucumber length cm	plant 6 cucumber length cm	plant 7 cucumber length cm	plant 8 cucumber length cm	plant 9 cucumber length cm	plant 10 cucumber length cm	plant av cucumber length cm
Crop Code							
Rating Data Type	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06
Rating Unit	34 DA-A	34 DA-A					
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate	Unit	15	16	17	18	19
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke	8 a		9 ab	8 a	8 a	6 a	8 a
2 MI 300 LDPE (1.25 mil) plant d of hole poke	7 a		8 ab	7 a	8 a	8 a	6 a
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke	7 a		8 ab	7 a	8 a	6 a	9 a
4 MI 300 Metalized smooth (1 mil) plant d of hole poke	7 a		7 ab	7 a	6 ab	6 a	7 a
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke	7 a		8 ab	8 a	9 a	7 a	8 a
6 MI 225 LDPE (1.25 mil) plant d of hole poke	8 a		7 ab	8 a	8 a	8 a	8 a
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke	8 a		8 ab	7 a	4 b	7 a	7 a
8 MI 225 Metalized smooth (1 mil) plant d of hole poke	7 a		7 ab	6 a	6 ab	7 a	7 a
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke	8 a		9 a	7 a	8 a	8 a	9 a
10 MI 150 LDPE (1.25 mil) plant d of hole poke	8 a		8 ab	7 a	8 a	8 a	8 a
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke	8 a		8 ab	7 a	9 a	7 a	8 a
12 MI 150 Metalized smooth (1 mil) plant d of hole poke	6 a		6 ab	7 a	8 a	6 a	7 a
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke	8 a		9 ab	7 a	7 ab	7 a	7 a
14 No fumigant LDPE (1.25 mil) plant d of hole poke	7 a		7 ab	8 a	8 a	6 a	8 a
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke	8 a		8 ab	7 a	7 a	6 a	8 a
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	7 a		6 ab	7 a	6 ab	7 a	6 a

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Weed Code	plant 5 cucumber length cm	plant 6 cucumber length cm	plant 7 cucumber length cm	plant 8 cucumber length cm	plant 9 cucumber length cm	plant 10 cucumber length cm	plant av cucumber length cm
Crop Code							
Rating Data Type							
Rating Unit	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06
Rating Date							
Crop Stage							
Trt-Eval Interval	34 DA-A	34 DA-A					
ARM Action Codes							T1
Trt Treatment	Rate						
No. Name	Rate	Unit	15	16	17	18	19
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke	8 a		9 a	8 a	9 a	8 a	9 a
18 MB 300 LDPE (1.25 mil) plant d of hole poke	8 a		8 ab	8 a	7 ab	8 a	8 a
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke	7 a		5 b	7 a	9 a	7 a	7 a
20 MB 300 Metalized smooth (1 mil) plant d of hole poke	7 a		6 ab	7 a	7 ab	7 a	6 a
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke	9 a		8 ab	7 a	9 a	7 a	9 a
22 MB 225 LDPE (1.25 mil) plant d of hole poke	8 a		8 ab	7 a	9 a	9 a	7 a
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke	8 a		7 ab	7 a	8 a	7 a	9 a
24 MB 225 Metalized smooth (1 mil) plant d of hole poke	7 a		7 ab	8 a	8 a	7 a	7 a
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke	9 a		9 ab	7 a	7 a	8 a	9 a
26 MB 150 LDPE (1.25 mil) plant d of hole poke	8 a		8 ab	8 a	8 a	7 a	8 a
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke	7 a		8 ab	8 a	7 a	8 a	8 a
28 MB 150 Metalized smooth (1 mil) plant d of hole poke	7 a		6 ab	7 a	7 ab	7 a	7 a
LSD (P=.05)	2.6		2.7	2.3	2.8	2.7	3.1
Standard Deviation	1.6		1.7	1.4	1.7	1.6	1.9
CV	21.29		21.73	19.71	22.52	22.42	25.2
Bartlett's X2	12.824		24.856	17.345	24.466	15.62	41.601
P(Bartlett's X2)	0.99		0.527	0.922	0.549	0.926	0.036*
							0.978

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

Column 21: T1 = ([C11]+[C12]+[C13]+[C14]+[C15]+[C16]+[C17]+[C18]+[C19]+[C20])/10

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Weed Code	plant 1 cucumber length cm	plant 2 cucumber length cm	plant 3 cucumber length cm	plant 4 cucumber length cm	plant 5 cucumber length cm	plant 6 cucumber length cm	plant 7 cucumber length cm	
Crop Code								
Rating Data Type								
Rating Unit	Apr-13-06							
Rating Date								
Crop Stage	50 DA-A							
Trt-Eval Interval								
ARM Action Codes								
Trt Treatment No. Name	Rate Rate Unit	22	23	24	25	26	27	28
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke	32 a-f	23 b	34 abc	26 bc	33 abc	31 a	25 b	
2 MI 300 LDPE (1.25 mil) plant d of hole poke	38 a-e	38 ab	34 abc	38 abc	36 abc	38 a	29 ab	
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke	28 c-f	34 ab	33 abc	34 abc	28 abc	39 a	33 ab	
4 MI 300 Metalized smooth (1 mil) plant d of hole poke	25 def	23 b	23 c	25 bc	23 bc	26 a	28 ab	
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke	28 c-f	38 ab	28 bc	32 abc	31 abc	22 a	32 ab	
6 MI 225 LDPE (1.25 mil) plant d of hole poke	38 a-e	34 ab	34 abc	34 abc	38 abc	35 a	38 ab	
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke	19 f	27 ab	29 bc	28 abc	29 abc	34 a	33 ab	
8 MI 225 Metalized smooth (1 mil) plant d of hole poke	23 def	30 ab	25 c	28 abc	24 bc	28 a	24 b	
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke	40 a-d	47 a	38 abc	43 ab	37 abc	43 a	37 ab	
10 MI 150 LDPE (1.25 mil) plant d of hole poke	36 a-e	37 ab	30 abc	36 abc	34 abc	31 a	36 ab	
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke	34 a-f	30 ab	30 abc	35 abc	35 abc	35 a	27 ab	
12 MI 150 Metalized smooth (1 mil) plant d of hole poke	23 def	19 b	24 c	25 bc	22 c	29 a	28 ab	
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke	39 a-e	35 ab	37 abc	36 abc	36 abc	36 a	35 ab	
14 No fumigant LDPE (1.25 mil) plant d of hole poke	36 a-e	31 ab	30 bc	33 abc	34 abc	34 a	31 ab	
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke	30 b-f	32 ab	29 bc	26 bc	31 abc	33 a	28 ab	
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	26 def	27 ab	25 c	20 c	24 bc	26 a	26 ab	

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Weed Code	plant 1 cucumber length cm	plant 2 cucumber length cm	plant 3 cucumber length cm	plant 4 cucumber length cm	plant 5 cucumber length cm	plant 6 cucumber length cm	plant 7 cucumber length cm	
Crop Code								
Rating Data Type								
Rating Unit	Apr-13-06							
Rating Date								
Crop Stage								
Trt-Eval Interval	50 DA-A							
ARM Action Codes								
Trt Treatment No. Name	Rate Rate Unit	22	23	24	25	26	27	28
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke	39 a-e	45 a	40 abc	43 ab	37 abc	35 a	42 ab	
18 MB 300 LDPE (1.25 mil) plant d of hole poke	37 a-e	37 ab	38 abc	36 abc	33 abc	37 a	39 ab	
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke	36 a-e	39 ab	33 abc	34 abc	32 abc	27 a	32 ab	
20 MB 300 Metalized smooth (1 mil) plant d of hole poke	31 b-f	30 ab	32 abc	27 bc	28 abc	33 a	28 ab	
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke	43 abc	44 a	45 ab	43 ab	39 abc	38 a	43 ab	
22 MB 225 LDPE (1.25 mil) plant d of hole poke	39 a-e	39 ab	32 abc	37 abc	38 abc	43 a	40 ab	
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke	40 a-d	45 a	45 ab	43 ab	39 abc	36 a	41 ab	
24 MB 225 Metalized smooth (1 mil) plant d of hole poke	31 a-f	28 ab	32 abc	31 abc	30 abc	33 a	33 ab	
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke	47 ab	47 a	45 ab	39 abc	46 a	36 a	35 ab	
26 MB 150 LDPE (1.25 mil) plant d of hole poke	40 a-e	34 ab	37 abc	41 ab	42 ab	37 a	36 ab	
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke	48 a	38 ab	47 a	46 a	42 ab	45 a	44 a	
28 MB 150 Metalized smooth (1 mil) plant d of hole poke	23 ef	33 ab	34 abc	32 abc	30 abc	39 a	33 ab	
LSD (P=.05)	14.0	16.4	14.2	15.5	15.7	20.2	15.6	
Standard Deviation	8.6	10.0	8.7	9.5	9.6	12.4	9.6	
CV	25.28	29.13	25.85	28.05	29.06	36.23	28.64	
Bartlett's X2	33.794	22.08	24.522	25.442	23.067	26.754	20.851	
P(Bartlett's X2)	0.172	0.733	0.601	0.55	0.681	0.477	0.793	

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

University of Georgia

Weed Code	plant 8 cucumber length cm	plant 9 cucumber length cm	plant 10 cucumber length cm	plant av cucumber length cm	harv 1 cucumber fruit #	harv 1 cucumber fruit wt/lb	harv 1 cucumber cull #
Crop Code							
Rating Data Type							
Rating Unit	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-21-06	Apr-21-06	Apr-21-06
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate	Unit					
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke	29		30	31	32	33	34
2 MI 300 LDPE (1.25 mil) plant d of hole poke	26	abc	25 b	29 a-f	29 abc	2 abc	1 abc
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke	36	abc	24 b	25 b-f	31 abc	3 abc	1 abc
4 MI 300 Metalized smooth (1 mil) plant d of hole poke	26	abc	22 b	22 def	24 c	1 bc	0 bc
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke	34	abc	29 ab	31 a-f	30 abc	2 abc	1 abc
6 MI 225 LDPE (1.25 mil) plant d of hole poke	31	abc	32 ab	31 a-f	34 abc	2 abc	1 abc
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke	28	abc	27 ab	21 f	28 abc	1 bc	0 bc
8 MI 225 Metalized smooth (1 mil) plant d of hole poke	28	abc	26 ab	25 b-f	26 bc	0 c	0 c
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke	34	abc	37 ab	47 a	40 ab	1 bc	0 bc
10 MI 150 LDPE (1.25 mil) plant d of hole poke	34	abc	38 ab	37 a-f	35 abc	3 abc	1 abc
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke	35	abc	34 ab	34 a-f	33 abc	3 abc	1 abc
12 MI 150 Metalized smooth (1 mil) plant d of hole poke	23	bc	25 b	22 ef	24 c	0 c	0 c
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke	30	abc	31 ab	36 a-f	35 abc	2 abc	1 abc
14 No fumigant LDPE (1.25 mil) plant d of hole poke	36	abc	33 ab	28 a-f	33 abc	1 bc	0 bc
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke	32	abc	25 b	31 a-f	30 abc	1 abc	0 bc
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	18	c	24 b	23 c-f	24 c	0 c	0 c

University of Georgia

Weed Code	plant 8 cucumber length cm	plant 9 cucumber length cm	plant 10 cucumber length cm	plant av cucumber length cm	harv 1 cucumber fruit #	harv 1 cucumber fruit wt/lb	harv 1 cucumber cull #
Crop Code							
Rating Data Type							
Rating Unit	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-21-06	Apr-21-06	Apr-21-06
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment No. Name	Rate Rate Unit	29	30	31	32	33	34
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke		44 a	33 ab	43 a-d	40 ab	5 a	2 a
18 MB 300 LDPE (1.25 mil) plant d of hole poke		31 abc	35 ab	38 a-f	36 abc	2 abc	1 abc
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke		35 abc	34 ab	32 a-f	33 abc	1 abc	0 bc
20 MB 300 Metalized smooth (1 mil) plant d of hole poke		28 abc	27 ab	28 a-f	29 abc	1 abc	1 abc
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke		44 a	37 ab	42 a-f	42 a	3 abc	1 ab
22 MB 225 LDPE (1.25 mil) plant d of hole poke		34 abc	37 ab	38 a-f	38 abc	3 abc	1 abc
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke		43 a	28 ab	46 ab	41 ab	3 abc	1 abc
24 MB 225 Metalized smooth (1 mil) plant d of hole poke		29 abc	31 ab	30 a-f	31 abc	0 bc	0 bc
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke		34 abc	46 a	42 a-e	42 ab	4 ab	1 ab
26 MB 150 LDPE (1.25 mil) plant d of hole poke		40 ab	36 ab	38 a-f	38 abc	3 abc	1 abc
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke		42 ab	36 ab	43 abc	43 a	2 abc	1 abc
28 MB 150 Metalized smooth (1 mil) plant d of hole poke		31 abc	37 ab	33 a-f	33 abc	0 c	0 c
LSD (P=.05)	15.2	16.5	17.0	12.7	2.9	1.1	0.4
Standard Deviation	9.3	10.1	10.4	7.8	1.8	0.7	0.3
CV	28.44	32.07	31.39	23.23	98.89	98.79	559.51
Bartlett's X2	25.439	17.628	28.522	21.761	15.789	14.708	1.365
P(Bartlett's X2)	0.55	0.914	0.384	0.749	0.864	0.905	0.505

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

Column 32: T2 = ([C22]+[C23]+[C24]+[C25]+[C26]+[C27]+[C28]+[C29]+[C30]+[C31])/10

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Weed Code	harv1 cucumber	harv 2 cucumber	harv 2 cucumber	harv 2 cucumber	harv2 cucumber	har3 cucumber	harv3 cucumber
Crop Code	cull wt/lb	fruit #	fruit wt/lb	cull #	cull wt/lb	fruit #	fruit wt/lb
Rating Data Type	Apr-21-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-28-06	Apr-28-06
Rating Unit							
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate	Unit	36	37	38	39	40
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke	0 b		5 a-d	2 a-d	0 b	0 a	12 ab
2 MI 300 LDPE (1.25 mil) plant d of hole poke	0 b		4 a-d	2 a-d	1 a	0 a	13 ab
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke	0 b		2 a-d	1 bcd	0 b	0 a	11 ab
4 MI 300 Metalized smooth (1 mil) plant d of hole poke	0 b		2 cd	1 d	1 ab	0 a	7 b
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke	0 b		2 a-d	1 bcd	0 ab	0 a	9 ab
6 MI 225 LDPE (1.25 mil) plant d of hole poke	0 b		5 a-d	2 a-d	1 ab	0 a	10 ab
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke	0 b		2 bcd	1 cd	0 b	0 a	13 ab
8 MI 225 Metalized smooth (1 mil) plant d of hole poke	0 ab		2 cd	1 d	0 b	0 a	10 ab
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke	0 b		6 abc	4 a	0 b	0 a	11 ab
10 MI 150 LDPE (1.25 mil) plant d of hole poke	0 b		5 a-d	3 a-d	0 ab	0 a	8 b
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke	0 b		1 d	1 d	0 b	0 a	12 ab
12 MI 150 Metalized smooth (1 mil) plant d of hole poke	0 b		2 a-d	1 cd	0 b	0 a	8 b
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke	0 b		5 a-d	2 a-d	0 b	0 a	8 b
14 No fumigant LDPE (1.25 mil) plant d of hole poke	0 b		5 a-d	3 a-d	0 b	0 a	8 b
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke	0 a		4 a-d	2 a-d	0 ab	0 a	7 b
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	0 b		1 d	1 d	0 b	0 a	4 cde

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Weed Code	harv1 cucumber	harv 2 cucumber	harv 2 cucumber	harv 2 cucumber	harv2 cucumber	har3 cucumber	harv3 cucumber
Crop Code	cull wt/lb	fruit #	fruit wt/lb	cull #	cull wt/lb	fruit #	fruit wt/lb
Rating Data Type	Apr-21-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-28-06	Apr-28-06
Rating Unit							
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate	Unit	36	37	38	39	40
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke	0 b		5 a-d	2 a-d	0 ab	0 a	13 ab
18 MB 300 LDPE (1.25 mil) plant d of hole poke	0 b		4 a-d	2 a-d	0 ab	0 a	10 ab
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke	0 b		5 a-d	2 a-d	0 b	0 a	13 ab
20 MB 300 Metalized smooth (1 mil) plant d of hole poke	0 b		5 a-d	2 a-d	0 b	0 a	7 b
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke	0 b		4 a-d	2 a-d	0 ab	0 a	17 a
22 MB 225 LDPE (1.25 mil) plant d of hole poke	0 b		4 a-d	2 a-d	0 b	0 a	14 ab
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke	0 b		4 a-d	2 a-d	0 ab	0 a	12 ab
24 MB 225 Metalized smooth (1 mil) plant d of hole poke	0 b		4 a-d	2 a-d	0 ab	0 a	11 ab
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke	0 ab		6 a-d	3 abc	0 b	0 a	11 ab
26 MB 150 LDPE (1.25 mil) plant d of hole poke	0 b		7 a	3 ab	0 b	0 a	12 ab
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke	0 b		6 ab	3 abc	0 ab	0 a	8 b
28 MB 150 Metalized smooth (1 mil) plant d of hole poke	0 b		4 a-d	2 a-d	0 b	0 a	16 a
LSD (P=.05)	0.2		3.6	1.8	0.8	0.3	6.0
Standard Deviation	0.1		2.2	1.1	0.5	0.2	3.7
CV	574.7		55.58	56.62	253.55	276.33	34.34
Bartlett's X2	2.012		21.577	13.916	4.218	11.429	17.747
P(Bartlett's X2)	0.366		0.759	0.982	0.963	0.408	0.885
							0.599

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

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Weed Code	harv3 cucumber cull #	harv3 cucumber cull wt/lb	harv 4 cucumber fruit #	harv 4 cucumber fruit wt/lb	harv 4 cucumber cull #	harv 4 cucumber cull wt/lb	harv 5 cucumber fruit #
Crop Code							
Rating Data Type							
Rating Unit	Apr-28-06	Apr-28-06	May-01-06	May-01-06	May-01-06	May-01-06	May-03-06
Rating Date							
Crop Stage							
Trt-Eval Interval	65 DA-A	65 DA-A	68 DA-A	68 DA-A	68 DA-A	68 DA-A	70 DA-A
ARM Action Codes							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	43	44	45	46	47	48
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke		0 b	0 a	4 cd	2 de	0 b	0 b
2 MI 300 LDPE (1.25 mil) plant d of hole poke		1 ab	0 a	6 a-d	3 b-e	0 b	0 b
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke		0 b	0 a	7 a-d	3 b-e	0 b	0 b
4 MI 300 Metalized smooth (1 mil) plant d of hole poke		0 b	0 a	7 a-d	3 b-e	0 b	0 b
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke		0 b	0 a	9 a-d	4 a-e	0 b	0 b
6 MI 225 LDPE (1.25 mil) plant d of hole poke		0 b	0 a	7 a-d	4 a-e	0 b	0 b
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke		0 b	0 a	12 a	6 ab	0 b	0 b
8 MI 225 Metalized smooth (1 mil) plant d of hole poke		0 b	0 a	7 a-d	3 b-e	0 b	0 b
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke		1 ab	1 a	5 bcd	3 cde	0 b	0 b
10 MI 150 LDPE (1.25 mil) plant d of hole poke		0 b	0 a	9 a-d	4 a-e	0 b	0 b
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke		0 b	0 a	9 a-d	5 a-d	1 a	0 a
12 MI 150 Metalized smooth (1 mil) plant d of hole poke		0 b	0 a	6 a-d	3 cde	0 b	0 b
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke		1 a	1 a	6 bcd	3 cde	0 b	0 b
14 No fumigant LDPE (1.25 mil) plant d of hole poke		1 ab	1 a	5 bcd	2 cde	0 b	0 b
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke		0 b	0 a	9 a-d	4 a-e	0 b	0 b
16 No fumigant Metalized smooth (1 mil) plant d of hole poke		0 b	0 a	3 d	1 e	0 b	0 b

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Weed Code	harv3 cucumber cull #	harv3 cucumber cull wt/lb	harv 4 cucumber fruit #	harv 4 cucumber fruit wt/lb	harv 4 cucumber cull #	harv 4 cucumber cull wt/lb	harv 5 cucumber fruit #
Crop Code							
Rating Data Type							
Rating Unit	Apr-28-06	Apr-28-06	May-01-06	May-01-06	May-01-06	May-01-06	May-03-06
Rating Date							
Crop Stage							
Trt-Eval Interval	65 DA-A	65 DA-A	68 DA-A	68 DA-A	68 DA-A	68 DA-A	70 DA-A
ARM Action Codes							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	43	44	45	46	47	48
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke	0 b	0 a	6 a-d	4 a-e	0 b	0 b	12 ab
18 MB 300 LDPE (1.25 mil) plant d of hole poke	0 b	0 a	9 a-d	4 a-e	0 b	0 b	7 abc
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke	0 b	0 a	11 ab	7 a	0 b	0 b	8 abc
20 MB 300 Metalized smooth (1 mil) plant d of hole poke	0 b	0 a	7 a-d	4 a-e	0 b	0 b	5 abc
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke	0 b	0 a	7 a-d	3 b-e	0 b	0 b	5 abc
22 MB 225 LDPE (1.25 mil) plant d of hole poke	0 b	0 a	7 a-d	3 b-e	0 b	0 b	6 abc
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke	0 b	0 a	10 abc	5 abc	0 b	0 b	6 abc
24 MB 225 Metalized smooth (1 mil) plant d of hole poke	0 b	0 a	4 cd	2 de	0 b	0 b	6 abc
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke	0 b	0 a	5 bcd	2 cde	0 b	0 b	10 abc
26 MB 150 LDPE (1.25 mil) plant d of hole poke	0 b	0 a	5 bcd	3 cde	0 b	0 b	7 abc
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke	0 b	0 a	7 a-d	4 b-e	0 b	0 b	9 abc
28 MB 150 Metalized smooth (1 mil) plant d of hole poke	0 b	0 a	6 bcd	3 b-e	0 b	0 b	8 abc
LSD (P=.05)	0.8	0.6	5.3	2.6	0.4	0.1	6.0
Standard Deviation	0.5	0.4	3.2	1.6	0.2	0.1	3.7
CV	459.2	467.53	46.6	46.01	916.52	916.52	50.69
Bartlett's X2	0.542	0.906	17.958	32.063	0.0	0.0	21.974
P(Bartlett's X2)	0.91	0.824	0.877	0.23	.	.	0.739

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

University of Georgia

Weed Code	harv 5 cucumber	harv 5 fruit	harv 5 cucumber	harv 6 cucumber	harv 6 fruit	harv 6 cucumber	harv 6 cucumber
Crop Code		cull wt/lb	cull #	cull wt/lb	#	cull wt/lb	cull wt/lb
Rating Data Type							
Rating Unit	May-03-06		May-03-06	May-03-06	May-05-06	May-05-06	May-05-06
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	50	51	52	53	54	55
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke		5 a-d	0 a	0 a	6 bcd	3 b	0 b
2 MI 300 LDPE (1.25 mil) plant d of hole poke		5 a-d	0 a	0 a	9 ab	4 ab	1 b
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke		6 ab	0 a	0 a	5 bcd	2 b	0 b
4 MI 300 Metalized smooth (1 mil) plant d of hole poke		3 bcd	0 a	0 a	6 bcd	3 b	0 b
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke		6 ab	0 a	0 a	6 bcd	3 b	0 b
6 MI 225 LDPE (1.25 mil) plant d of hole poke		3 bcd	0 a	0 a	7 bcd	3 b	2 a
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke		3 bcd	0 a	0 a	5 bcd	2 b	0 b
8 MI 225 Metalized smooth (1 mil) plant d of hole poke		4 a-d	0 a	0 a	3 cd	1 b	0 b
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke		2 cd	0 a	0 a	13 a	6 a	0 b
10 MI 150 LDPE (1.25 mil) plant d of hole poke		3 a-d	0 a	0 a	8 abc	4 ab	0 b
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke		3 a-d	0 a	0 a	5 bcd	2 b	0 b
12 MI 150 Metalized smooth (1 mil) plant d of hole poke		2 cd	0 a	0 a	7 bcd	3 b	0 b
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke		2 bcd	0 a	0 a	9 ab	3 b	1 b
14 No fumigant LDPE (1.25 mil) plant d of hole poke		2 cd	0 a	0 a	6 bcd	2 b	0 b
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke		1 d	0 a	0 a	7 bcd	3 b	0 b
16 No fumigant Metalized smooth (1 mil) plant d of hole poke		2 cd	0 a	0 a	4 bcd	2 b	0 b

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Weed Code	harv 5 cucumber	harv 5 fruit	harv 5 cucumber	harv 6 fruit	harv 6 cucumber	harv 6 cucumber	harv 6 cucumber
Crop Code		cull wt/lb	cull #	#	fruit wt/lb	cull wt/lb	cull wt/lb
Rating Data Type							
Rating Unit	May-03-06		May-03-06	May-03-06	May-05-06	May-05-06	May-05-06
Rating Date							
Crop Stage							
Trt-Eval Interval							
ARM Action Codes							
Trt Treatment No. Name	Rate Rate Unit	50	51	52	53	54	55
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke		7 a	0 a	0 a	4 bcd	2 b	0 b
18 MB 300 LDPE (1.25 mil) plant d of hole poke		4 a-d	0 a	0 a	7 bcd	3 b	0 b
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke		4 a-d	0 a	0 a	7 bcd	3 b	0 b
20 MB 300 Metalized smooth (1 mil) plant d of hole poke		2 bcd	0 a	0 a	8 abc	3 ab	0 b
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke		3 bcd	0 a	0 a	6 bcd	3 ab	0 b
22 MB 225 LDPE (1.25 mil) plant d of hole poke		3 bcd	0 a	0 a	6 bcd	3 b	0 b
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke		3 bcd	0 a	0 a	6 bcd	2 b	0 b
24 MB 225 Metalized smooth (1 mil) plant d of hole poke		3 a-d	0 a	0 a	8 a-d	3 ab	0 b
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke		5 abc	0 a	0 a	8 bcd	3 ab	0 b
26 MB 150 LDPE (1.25 mil) plant d of hole poke		3 a-d	0 a	0 a	6 bcd	3 b	0 b
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke		5 a-d	0 a	0 a	7 bcd	3 b	0 b
28 MB 150 Metalized smooth (1 mil) plant d of hole poke		4 a-d	0 a	0 a	3 d	1 b	0 b
LSD (P=.05)	3.0	0.5	0.2	4.4	2.2	0.9	0.4
Standard Deviation	1.8	0.3	0.1	2.7	1.3	0.6	0.3
CV	51.6	317.98	327.78	41.87	47.92	396.59	406.66
Bartlett's X2	23.834	0.0	1.79	20.329	27.373	2.776	4.087
P(Bartlett's X2)	0.64	1.00	0.971	0.817	0.444	0.428	0.252

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

University of Georgia

Weed Code	harv 7	harv 7	harv 7	harv 7	har1-7	har1-7
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber
Rating Data Type	fruit	fruit	cull	cull	fruit	fruit
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb
Rating Date	May-08-06	May-08-06	May-08-06	May-08-06		
Crop Stage	75 DA-A	75 DA-A	75 DA-A	75 DA-A	T3	T4
Trt-Eval Interval						
ARM Action Codes						
Trt Treatment	Rate					
No. Name	Rate	Unit	57	58	59	60
1 MI 300 LDPE (1.25 mil) plant 2 d after hole poke	8 abc		4 ab	1 a	1 b	48 a-d
2 MI 300 LDPE (1.25 mil) plant d of hole poke	7 abc		4 a-d	1 a	0 b	50 abc
3 MI 300 Metalized smooth (1 mil) plant 2 d after hole poke	6 abc		3 a-d	0 a	0 b	45 a-d
4 MI 300 Metalized smooth (1 mil) plant d of hole poke	7 abc		3 a-d	0 a	0 b	38 cd
5 MI 225 LDPE (1.25 mil) plant 2 d after hole poke	6 abc		3 a-d	0 a	0 b	46 a-d
6 MI 225 LDPE (1.25 mil) plant d of hole poke	6 abc		3 a-d	1 a	0 b	44 a-d
7 MI 225 Metalized smooth (1 mil) plant 2 d after hole poke	4 bc		1 cd	1 a	0 b	43 a-d
8 MI 225 Metalized smooth (1 mil) plant d of hole poke	6 abc		3 a-d	0 a	0 b	36 de
9 MI 150 LDPE (1.25 mil) plant 2 d after hole poke	9 ab		4 ab	0 a	0 b	50 abc
10 MI 150 LDPE (1.25 mil) plant d of hole poke	7 abc		3 a-d	1 a	0 b	47 a-d
11 MI 150 Metalized smooth (1 mil) plant 2 d after hole poke	9 ab		4 abc	0 a	0 b	46 a-d
12 MI 150 Metalized smooth (1 mil) plant d of hole poke	9 ab		3 a-d	0 a	0 b	37 de
13 No fumigant LDPE (1.25 mil) plant 2 d after hole poke	7 abc		3 a-d	0 a	0 b	41 a-d
14 No fumigant LDPE (1.25 mil) plant d of hole poke	11 a		5 a	0 a	11 a	41 a-d
15 No fumigant Metalized smooth (1 mil) plant 2 d after hole poke	7 abc		3 a-d	0 a	0 b	39 bcd
16 No fumigant Metalized smooth (1 mil) plant d of hole poke	5 bc		2 bcd	0 a	0 b	26 e
						11 k

University of Georgia

Weed Code	harv 7 cucumber	harv 7 cucumber	harv 7 cucumber	harv 7 cucumber	har1-7 cucumber	har1-7 cucumber
Crop Code	fruit #	fruit wt/lb	cull #	cull wt/lb	fruit #	fruit wt/lb
Rating Data Type	May-08-06	May-08-06	May-08-06	May-08-06		
Rating Unit						
Rating Date						
Crop Stage						
Trt-Eval Interval						
ARM Action Codes					T3	T4
Trt Treatment No. Name	Rate Rate Unit	57	58	59	60	61
17 MB 300 LDPE (1.25 mil) plant 2 d after hole poke	7 abc	3 a-d	0 a	0 b	52 a	26 ab
18 MB 300 LDPE (1.25 mil) plant d of hole poke	9 ab	5 a	1 a	0 b	48 a-d	24 a-g
19 MB 300 Metalized smooth (1 mil) plant 2 d after hole poke	7 abc	3 a-d	0 a	0 b	52 ab	27 a
20 MB 300 Metalized smooth (1 mil) plant d of hole poke	6 abc	2 a-d	1 a	0 b	39 bcd	18 e-j
21 MB 225 LDPE (1.25 mil) plant 2 d after hole poke	9 ab	4 ab	0 a	0 b	51 ab	27 a
22 MB 225 LDPE (1.25 mil) plant d of hole poke	9 ab	4 ab	1 a	1 b	50 abc	24 a-f
23 MB 225 Metalized smooth (1 mil) plant 2 d after hole poke	6 abc	3 a-d	1 a	0 b	47 a-d	24 a-f
24 MB 225 Metalized smooth (1 mil) plant d of hole poke	4 bc	2 bcd	0 a	0 b	37 de	18 f-j
25 MB 150 LDPE (1.25 mil) plant 2 d after hole poke	8 abc	4 abc	1 a	0 b	51 abc	25 abc
26 MB 150 LDPE (1.25 mil) plant d of hole poke	8 abc	4 abc	1 a	0 b	48 a-d	24 a-g
27 MB 150 Metalized smooth (1 mil) plant 2 d after hole poke	9 ab	4 abc	1 a	0 b	46 a-d	22 a-j
28 MB 150 Metalized smooth (1 mil) plant d of hole poke	3 c	1 d	0 a	0 b	39 bcd	20 b-j
LSD (P=.05)	4.5	2.2	1.2	6.0	10.3	5.4
Standard Deviation	2.8	1.4	0.7	3.7	6.3	3.3
CV	39.14	40.82	156.45	617.4	14.31	15.32
Bartlett's X2	25.894	29.598	12.236	149.068	34.113	36.343
P(Bartlett's X2)	0.524	0.333	0.661	0.001*	0.163	0.108

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

Column 61: T3 = [33]+[37]+[41]+[45]+[49]+[53]+[57]

Column 62: T4 = [34]+[38]+[42]+[46]+[50]+[54]+[58]

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Nutsedge and cucumber response to reduced rates of MIDAS and MB under LDPE and metalized mulch.

Trial ID: Veg24-06 Study Dir.: Stanley Culpepper
Location: Ponder 5160 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:** good
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 °:** _____

COOPERATOR / LANDOWNER

COOPERATOR/LANDOWNER

Cooperator: _____ Country: _____
Org: _____ Phone No: _____
Address 1: _____ Fax No: _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPRO	purple nutsedge	

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 20 FT Reps: 3

Site Type: Ponder farm research station

Tillage Type: conventional Study Design: FACTORIAL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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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: 5.4 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: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

A	
Application Date:	Feb-22-06
Time of Day:	2 pm
Application Method:	in bed
Application Timing:	preplant
Appli. Placement:	8" deep
Air Temp., Unit:	71 F
% Relative Humidity:	39
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	64 F
Soil Moisture:	14%, mois
% Cloud Cover:	24

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	CYPRO
Stage Scale:	preplant
Density, Unit:	0 ydsq

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APPLICATION EQUIPMENT

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

Trt No	Treatment Application Comment