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Nutsedge and cucumber response to DMDS under LDPE and metalized smooth mulch.

Trial ID: Veg25-06
Location: Ponder (5160)

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 15 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .34726)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Amt Product to Measure	Plot No. By Rep		
								1	2	3
1	DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)							103	214	306
2	DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)							104	213	305
3	DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)							102	215	307
4	DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)							101	216	308
5	DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)							107	202	311
6	DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)							108	201	312
7	DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)							106	203	310
8	DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)							105	204	309
9	DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)							111	206	303
10	DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)							112	205	304
11	DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)							110	207	302
12	DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)							109	208	301
13	DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)							115	218	319
14	DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)							116	217	320
15	DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)							114	219	318
16	DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)							113	220	317

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Reps: 3 Plots: 6 by 15 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .34726)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Amt to Measure	Plot No. By Rep		
								1	2	3
17	None LDPE 1.25 mil 14 d (when poke hole)							119	210	315
18	None LDPE 1.25 mil 16 d (2 d after poke hole)							120	209	316
19	None Met. Smooth 1 mil 14 d (when poke hole)							118	211	314
20	None Met. Smooth 1 mil 16 d (2 d after poke hole)							117	212	313
21	MB 350 LDPE 1.25 mil 14 d (when poke hole)							123	223	323
22	MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)							124	224	324
23	MB 350 Met. Smooth 1 mil 14 d (when poke hole)							122	222	322
24	MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)							121	221	321

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
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* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
 * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Evaluate nutsedge and cucumber response to various DMDS rates applied under LDPE and metalized mulch.

CROP RESPONSE:

1. For visual stunting at 11 to 13 d after transplant, plant date main effect and a fumigant by mulch interaction were noted. Pooled over mulch and fumigant, injury was reduced from 7% to 3% by waiting 2 d after poking the hole in the mulch prior to transplanting. When pooled over plant date, injury was less than 5% except when 50 G of DMDS (9%), 62 G of DMDS (12%), or 74 G of DMDS (25%) were applied under metalized mulch.
2. Approximately 45 days after transplanting when measuring runner length on 10 plants per plot, there was a fumigant by mulch interaction. Cucumber in MB plots was similar in size to all other plots except when no fumigant was applied or when 50 (19% smaller), 62 (27% smaller), or 74 G (44%) of DMDS were applied under metalized mulch.

VISUAL NUTSEDGE CONTROL:

1. At 27, 60 or 83 d after fumigating, fumigant main effects were significant. Pooled over mulch and plant date, DMDS at 38 G was less effective than 50, 62, or 74 G in controlling nutsedge. After 60 d of fumigating, 74 G was more effective than any other rate of DMDS.
2. DMDS at 74 G was as effective as MB at 60 d after fumigating but was 7% less effective than MB by 83 d; however, control by 74 G of DMDS was still excellent and consistent with control ranging from 92 to 96% in individual plots.
3. Mulch type had no impact on control.

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NUTSEDGE EMERGENCE COUNTS (entire plot counted):

1. As early as 28 d after fumigating, 38 G DMDS was less effective than other DMDS rates when pooled over plant date and mulch type. By 41 d, 74 G was more effective than lower rates with little difference noted when comparing 50 and 62 G DMDS.
2. DMDS at 74 G and MB provided similar control with a trend for slightly more nutsedge in the DMDS system by 83 d after fumigating.
3. Mulch had no impact on nutsedge emergence counts after 14 d of fumigating.

CUCUMBER YIELD:

1. Fumigant option did not statistically impact the first three harvest. However for harvest 4 and 5, differences were noted with less yield in the non-treated or in the 74 G of DMDS plots.
2. When adding all 7 harvest dates, yield was similar to MB with only the 38 G of DMDS which suggest plant back interval played a key role in yield with increasing rates of DMDS + Pic.
3. When adding all harvest dates, 11% less yield was noted when cucumber was transplanted 14 d after fumigating when compared to planting on day 16 (2 d after the holes were poked in the mulch).

CONCLUSIONS:

1. For nutsedge control, DMDS should be applied at 74 G in the spring crop.
2. With the Pic in the DMDS mixture, we need to further evaluate plant back intervals and crop tolerance in a weed free environment.
3. We need to begin evaluating weeds, other than nutsedge, and their response to DMDS mixtures.

GENERAL COMMENTS:

1. All fumigant treatments applied 8 inches deep with a super bedder plastic layer.
2. LDPE mulch was black on black 1.25 mil; metalized mulch was silver on black 1.3 mil.

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Nutsedge and cucumber response to DMDS under LDPE and metalized smooth mulch.

Trial ID: Veg25-06

Study Dir.: Stanley Culpepper

Location: Ponder (5160)

Investigator: Stanley Culpepper

Weed Code	cucumber	cucumber	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO		
Crop Code	cucumber	cucumber							
Rating Data Type	stunting	stunting	control	control	control	control	ct		
Rating Unit	%	%	%	%	%	%	#		
Rating Date	Mar-21-06	Apr-23-06	Mar-21-06	Apr-07-06	Apr-23-06	May-16-06	Mar-08-06		
Crop Stage	Stanley	Stanley	Stanley	Stanley	Stanley	Amy	Stanley		
Trt-Eval Interval	27 DA-A	60 DA-A	27 DA-A	44 DA-A	60 DA-A	83 DA-A	14 DA-A		
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			1	2	3	4	5		
			6	7					
1	DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)		2 bc	3 cd	88 b	87 d	84 cd	50 f	0 d
2	DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)		2 bc	7 cd	91 ab	88 d	77 d	53 f	0 d
3	DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)		3 bc	5 cd	92 ab	87 d	83 cd	55 f	1 d
4	DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)		2 bc	5 cd	93 ab	87 d	83 cd	57 f	1 d
5	DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)		0 c	0 d	95 ab	97 abc	93 ab	80 cd	0 d
6	DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 c	3 cd	96 ab	95 abc	93 ab	85 bc	0 d
7	DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)		11 bc	10 bcd	100 a	99 ab	95 ab	83 bcd	0 d
8	DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)		6 bc	17 bc	100 a	94 bc	92 ab	75 d	0 d
9	DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)		0 c	0 d	93 ab	93 cd	90 bc	67 e	0 d
10	DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 c	0 d	93 ab	93 cd	90 bc	82 cd	0 d
11	DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)		15 b	12 bcd	100 a	100 a	99 a	82 cd	0 d
12	DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)		9 bc	12 bcd	100 a	99 ab	99 a	86 bc	0 d
13	DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)		2 c	0 d	99 ab	100 a	100 a	95 a	0 d
14	DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)		3 bc	0 d	100 a	99 ab	100 a	92 ab	0 d

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Weed Code	cucumber	cucumber	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO
Crop Code	stunting	stunting	control	control	control	control	ct
Rating Data Type	%	%	%	%	%	%	#
Rating Unit	Mar-21-06	Apr-23-06	Mar-21-06	Apr-07-06	Apr-23-06	May-16-06	Mar-08-06
Rating Date	Stanley	Stanley	Stanley	Stanley	Stanley	Amy	Stanley
Crop Stage	27 DA-A	60 DA-A	27 DA-A	44 DA-A	60 DA-A	83 DA-A	14 DA-A
Trt-Eval Interval	ARM Action Codes						
ARM Action Codes	# Subsamples, Dec.						
# Subsamples, Dec.	Trt Treatment						
Trt No.	Rate	Rate	Rate	Rate	Rate	Rate	Rate
Treatment Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit
	1	2	3	4	5	6	7
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	42 a	37 a	100 a	99 ab	99 a	92 ab	0 d
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	8 bc	22 b	100 a	100 a	100 a	92 ab	0 d
17 None LDPE 1.25 mil 14 d (when poke hole)	0 c	3 cd	0 d	0 e	0 e	0 g	13 b
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	0 c	2 d	0 d	0 e	0 e	0 g	16 a
19 None Met. Smooth 1 mil 14 d (when poke hole)	5 bc	5 cd	14 c	0 e	0 e	0 g	3 c
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	5 bc	5 cd	14 c	0 e	0 e	0 g	4 c
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	2 bc	0 d	100 a	100 a	100 a	100 a	0 d
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	1 c	0 d	100 a	100 a	100 a	100 a	0 d
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	4 bc	5 cd	100 a	100 a	100 a	100 a	0 d
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	2 bc	8 cd	100 a	100 a	100 a	100 a	0 d
LSD (P=.05)	10.7	11.3	9.8	4.8	7.5	8.0	2.2
Standard Deviation	6.5	6.8	6.0	2.9	4.6	4.8	1.4
CV	123.94	102.17	7.27	3.67	5.83	7.12	86.09
Bartlett's X2	41.072	24.15	14.908	9.191	20.868	7.686	4.959
P(Bartlett's X2)	0.001*	0.044*	0.135	0.687	0.076	0.936	0.421

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	plant 2	plant 3	plant 4
Crop Code				cucumber	cucumber	cucumber	cucumber
Rating Data Type	ct	ct	ct	runnerlengt	runnerlengt	runnerlengt	runnerlengt
Rating Unit	#	#	#	cm	cm	cm	cm
Rating Date	Mar-22-06	Apr-04-06	May-16-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06
Crop Stage	Amy	Amy	Amy				
Trt-Eval Interval	28 DA-A	41 DA-A	83 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	8	9	10	11	12	13	14
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)	5 b	12 d	24 bc	8 abc	8 ab	9 a	10 a
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)	4 bc	11 de	27 b	7 a-d	7 a-d	7 a-d	8 a-e
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)	6 b	8 def	30 b	8 ab	9 a	7 abc	8 a-d
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)	2 bc	6 e-h	25 bc	6 a-d	7 a-d	7 a-e	6 def
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)	1 bc	3 fgh	7 ef	7 a-d	9 a	7 abc	7 c-f
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)	2 bc	4 fgh	10 def	8 ab	8 abc	7 abc	8 a-e
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)	0 c	1 h	12 c-f	5 cde	8 a-d	5 cde	7 b-f
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 c	3 fgh	20 b-e	7 a-d	6 b-e	7 a-e	7 c-f
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)	4 bc	8 def	23 bcd	7 a-d	8 ab	7 abc	8 a-e
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)	4 bc	7 d-g	18 b-e	8 ab	8 ab	8 ab	8 a-d
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)	0 c	2 fgh	7 ef	4 de	6 cde	4 e	6 ef
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 c	1 gh	8 ef	6 a-d	6 cde	6 b-e	7 b-f
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)	0 c	1 h	6 ef	7 a-d	8 abc	7 abc	9 abc
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)	0 c	2 fgh	6 ef	8 ab	8 ab	7 a-d	8 a-d
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	0 c	1 h	6 ef	2 e	5 e	4 de	3 g
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 c	0 h	3 f	7 a-d	6 b-e	4 e	5 f

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Weed Code	CYPRO	CYPRO	CYPRO	plant 1	plant 2	plant 3	plant 4
Crop Code				cucumber	cucumber	cucumber	cucumber
Rating Data Type	ct	ct	ct	runnerlengt	runnerlengt	runnerlengt	runnerlengt
Rating Unit	#	#	#	cm	cm	cm	cm
Rating Date	Mar-22-06	Apr-04-06	May-16-06	Mar-28-06	Mar-28-06	Mar-28-06	Mar-28-06
Crop Stage	Amy	Amy	Amy				
Trt-Eval Interval	28 DA-A	41 DA-A	83 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
17 None LDPE 1.25 mil 14 d (when poke hole)	20 a	28 c	47 a	7 a-d	8 abc	8 ab	8 a-e
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	19 a	34 ab	45 a	9 a	7 a-d	8 ab	8 a-e
19 None Met. Smooth 1 mil 14 d (when poke hole)	17 a	31 bc	49 a	6 a-d	7 a-d	6 b-e	8 a-e
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	20 a	38 a	53 a	5 bcd	6 de	7 a-e	7 b-f
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	0 c	0 h	0 f	7 a-d	8 a-d	7 a-d	7 b-f
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	0 c	0 h	0 f	7 a-d	8 abc	8 ab	8 a-e
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	0 c	0 h	0 f	8 ab	8 abc	7 a-d	9 ab
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	2 bc	0 h	0 f	7 a-d	7 a-d	7 a-e	7 b-f
LSD (P=.05)	4.1	5.6	12.1	2.6	1.9	2.4	1.9
Standard Deviation	2.5	3.4	7.3	1.6	1.2	1.5	1.1
CV	57.35	40.57	41.14	23.27	15.73	21.87	15.6
Bartlett's X2	13.335	37.084	34.804	16.338	18.163	30.239	21.339
P(Bartlett's X2)	0.345	0.008*	0.015*	0.799	0.577	0.087	0.438

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

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Weed Code	plant 5 cucumber	plant 6 cucumber	plant 7 cucumber	plant 8 cucumber	plant 9 cucumber	plant 10 cucumber	plant av cucumber
Crop Code	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
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	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
Crop Stage							
Trt-Eval Interval							T1
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
Rate Unit	15	16	17	18	19	20	21
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)	7 a-d	9 ab	7 ab	8 a-d	7 a-d	8 a-d	8 a
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)	7 abc	8 abc	8 ab	7 b-e	7 a-d	8 a-d	7 a-d
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)	7 abc	7 bcd	6 ab	8 a-e	6 cd	8 abc	8 abc
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)	7 abc	8 a-d	8 ab	7 a-e	7 a-d	7 a-d	7 a-d
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)	7 a-d	10 a	7 ab	9 a	9 a	9 a	8 a
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)	8 ab	7 bcd	6 abc	8 a-e	7 a-d	8 a-d	7 a-d
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)	4 d	7 cde	3 cd	6 cde	5 d	7 bcd	6 ef
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)	7 a-d	7 cde	7 ab	6 cde	6 cd	7 bcd	7 b-e
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)	7 a-d	8 abc	8 a	8 a-e	7 a-d	9 abc	8 ab
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)	8 abc	8 abc	8 ab	8 a-e	8 a-d	7 a-d	8 ab
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)	5 cd	5 e	3 de	6 de	3 e	5 de	5 f
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)	7 a-d	7 cde	6 abc	6 ef	6 cd	5 de	6 de
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)	9 a	8 abc	9 a	9 abc	7 bcd	9 ab	8 a
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)	8 ab	8 abc	8 a	8 a-e	8 abc	8 a-d	8 ab
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	2 e	2 f	1 e	4 f	1 e	3 e	3 g
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	4 d	6 de	5 bcd	6 cde	7 a-d	6 cd	6 ef

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Weed Code	plant 5 cucumber	plant 6 cucumber	plant 7 cucumber	plant 8 cucumber	plant 9 cucumber	plant 10 cucumber	plant av cucumber
Crop Code	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
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	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
Crop Stage							
Trt-Eval Interval							T1
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name	15	16	17	18	19	20	21
Rate							
Rate Unit							
17 None LDPE 1.25 mil 14 d (when poke hole)	7 abc	8 a-d	7 ab	8 a-e	7 bcd	9 abc	8 abc
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	7 a-d	7 b-e	7 ab	8 a-d	7 a-d	7 a-d	8 abc
19 None Met. Smooth 1 mil 14 d (when poke hole)	7 abc	8 a-d	6 ab	7 a-e	7 bcd	7 a-d	7 a-e
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	7 abc	6 de	6 abc	6 ef	7 a-d	6 cd	6 cde
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	8 abc	8 abc	7 ab	9 abc	8 a-d	7 a-d	8 ab
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	8 ab	8 a-d	8 a	7 a-e	8 a-d	8 abc	8 ab
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	6 bcd	9 abc	6 abc	9 ab	8 abc	8 abc	8 ab
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	7 abc	7 bcd	8 a	8 a-e	9 ab	7 a-d	7 a-d
LSD (P=.05)	2.2	1.9	2.4	2.0	2.2	2.0	1.2
Standard Deviation	1.3	1.1	1.4	1.2	1.3	1.2	0.7
CV	20.13	15.78	22.4	16.74	19.6	16.53	10.21
Bartlett's X2	11.601	16.594	21.279	9.528	11.173	27.187	27.276
P(Bartlett's X2)	0.95	0.785	0.442	0.994	0.959	0.204	0.244

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	plant 2 cucumber	plant 3 cucumber	plant 4 cucumber	plant 5 cucumber	plant 6 cucumber	plant 7 cucumber
Crop Code	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06
Crop Stage	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate	22	23	24	25	26	27	28
Rate Unit							
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)	59 ab	59 a-e	70 a	61 a-d	62 ab	72 abc	68 abc
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)	58 ab	60 a-e	57 abc	64 abc	60 ab	63 a-d	50 a-d
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)	65 ab	53 a-e	64 abc	62 a-d	46 bc	64 a-d	60 a-d
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)	52 abc	66 a-d	55 abc	65 abc	63 ab	49 c-g	63 a-d
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)	65 ab	58 a-e	64 abc	71 ab	65 ab	80 a	76 a
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)	63 ab	60 a-e	60 abc	63 a-d	69 ab	63 a-d	69 ab
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)	55 abc	55 a-e	58 abc	61 a-d	51 b	33 efg	35 de
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)	52 abc	50 b-e	50 abc	47 bcd	52 b	49 c-g	42 b-e
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)	71 a	70 ab	67 abc	72 ab	61 ab	79 ab	75 a
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)	62 ab	71 ab	64 abc	70 ab	64 ab	68 a-d	70 ab
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)	47 abc	57 a-e	43 bc	56 a-d	50 b	27 g	52 a-d
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)	52 abc	48 b-e	42 c	37 de	55 ab	43 d-g	43 b-e
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)	64 ab	75 a	68 ab	75 a	80 a	70 a-d	73 a
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)	68 ab	66 a-d	69 a	71 ab	67 ab	72 abc	69 ab
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	30 c	45 cde	20 d	18 e	24 c	29 fg	18 e
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	44 bc	41 e	44 bc	39 cde	47 bc	50 c-g	40 cde

University of Georgia

Weed Code	plant 1 cucumber	plant 2 cucumber	plant 3 cucumber	plant 4 cucumber	plant 5 cucumber	plant 6 cucumber	plant 7 cucumber
Crop Code	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt	runnerlengt
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06
Crop Stage	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A	50 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name	22	23	24	25	26	27	28
Rate							
Rate Unit							
17 None LDPE 1.25 mil 14 d (when poke hole)	56 ab	64 a-e	68 ab	51 a-d	65 ab	71 abc	42 b-e
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	66 ab	59 a-e	63 abc	57 a-d	54 ab	51 b-g	58 a-d
19 None Met. Smooth 1 mil 14 d (when poke hole)	51 abc	60 a-e	60 abc	69 ab	53 b	65 a-d	59 a-d
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	49 abc	43 de	56 abc	51 a-d	47 bc	44 c-g	48 a-d
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	69 ab	67 abc	70 a	71 ab	74 ab	79 ab	75 a
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	64 ab	65 a-e	68 ab	62 a-d	67 ab	60 a-e	56 a-d
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	68 ab	75 a	57 abc	69 ab	58 ab	56 a-f	66 abc
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	64 ab	58 a-e	65 abc	61 a-d	64 ab	57 a-e	54 a-d
LSD (P=.05)	21.9	19.7	20.8	21.8	22.6	23.4	23.8
Standard Deviation	13.2	11.9	12.6	13.2	13.7	14.2	14.4
CV	22.8	20.08	21.59	22.31	23.52	24.41	25.48
Bartlett's X2	25.31	32.62	21.714	40.843	36.618	33.618	42.099
P(Bartlett's X2)	0.335	0.088	0.538	0.012*	0.036*	0.071	0.009*

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

University of Georgia

Weed Code	plant 8 cucumber runnerlengt	plant 9 cucumber runnerlengt	plant 10 cucumber runnerlengt	plant av cucumber runnerlengt	harv 1 cucumber fruit #	harv 1 cucumber fruit wt/lb	harv 1 cucumber cull #
Crop Code							
Rating Data Type							
Rating Unit	cm	cm	cm	cm			
Rating Date	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-21-06	Apr-21-06	Apr-21-06
Crop Stage							
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	58 DA-A	58 DA-A	58 DA-A
ARM Action Codes				T2			
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	29	30	31	32	33	34	35
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)	67 ab	71 ab	61 abc	65 abc	2 a	1 a	0 b
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)	64 ab	66 a-e	70 ab	61 a-e	0 a	0 a	0 b
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)	56 abc	32 f	63 abc	57 b-f	2 a	1 a	0 b
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)	53 abc	60 a-e	58 abc	58 a-f	1 a	0 a	0 b
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)	65 ab	73 a	78 a	69 ab	2 a	1 a	0 b
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)	63 abc	70 abc	69 ab	65 abc	3 a	1 a	0 b
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)	59 abc	59 a-e	47 a-d	51 c-f	1 a	0 a	0 b
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)	48 bcd	55 a-e	61 abc	51 c-f	0 a	0 a	0 b
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)	66 ab	54 a-e	65 abc	68 ab	2 a	1 a	0 a
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)	71 ab	71 ab	55 a-d	67 ab	1 a	0 a	0 b
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)	38 cd	49 c-f	48 a-d	47 ef	0 a	0 a	0 b
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)	49 bcd	51 b-e	37 cd	46 f	1 a	0 a	0 b
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)	77 a	72 ab	70 ab	72 a	2 a	1 a	0 b
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)	65 ab	67 a-d	61 abc	68 ab	1 a	0 a	0 b
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	27 d	10 g	26 d	25 g	0 a	0 a	0 b
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	50 bcd	48 def	53 a-d	46 f	0 a	0 a	0 b

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Weed Code	plant 8 cucumber	plant 9 cucumber	plant 10 cucumber	plant av cucumber	harv 1 cucumber	harv 1 cucumber	harv 1 cucumber
Rating Data Type	runnerlengt	runnerlengt	runnerlengt	runnerlengt	fruit	fruit	cull
Rating Unit	cm	cm	cm	cm	#	wt/lb	#
Rating Date	Apr-13-06	Apr-13-06	Apr-13-06	Apr-13-06	Apr-21-06	Apr-21-06	Apr-21-06
Crop Stage	50 DA-A	50 DA-A	50 DA-A	50 DA-A	58 DA-A	58 DA-A	58 DA-A
Trt-Eval Interval	50 DA-A	50 DA-A	50 DA-A	50 DA-A	58 DA-A	58 DA-A	58 DA-A
ARM Action Codes				T2			
# Subsamples, Dec.							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit
17 None LDPE 1.25 mil 14 d (when poke hole)	70 ab	61 a-e	63 abc	61 a-e	0 a	0 a	0 b
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	60 abc	64 a-e	55 a-d	59 a-f	3 a	1 a	0 b
19 None Met. Smooth 1 mil 14 d (when poke hole)	61 abc	65 a-e	38 bcd	58 a-f	3 a	1 a	0 b
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	59 abc	45 ef	46 a-d	49 def	0 a	0 a	0 b
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	69 ab	63 a-e	66 abc	70 ab	3 a	1 a	0 b
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	55 abc	58 a-e	62 abc	62 a-d	3 a	1 a	0 b
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	69 ab	67 a-d	69 ab	65 abc	3 a	1 a	0 b
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	65 ab	61 a-e	61 abc	61 a-e	2 a	0 a	0 b
LSD (P=.05)	21.6	17.4	26.4	12.5	3.0	1.2	0.2
Standard Deviation	13.1	10.6	16.0	7.6	1.8	0.7	0.1
CV	22.04	18.21	27.82	13.04	117.73	131.47	848.53
Bartlett's X2	33.119	45.569	33.738	34.686	29.667	36.847	0.0
P(Bartlett's X2)	0.079	0.003*	0.069	0.056	0.056	0.008*	.

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	harv 1 cucumber	harv2 cucumber	harv2 cucumber	harv2 cucumber	harv2 cucumber	harv 3 cucumber	harv 3 cucumber	harv 3 cucumber
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber
Rating Data Type	cull	fruit	fruit	cull	cull	fruit	fruit	cull
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Date	Apr-21-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-28-06	Apr-28-06	Apr-28-06
Crop Stage								
Trt-Eval Interval	58 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	65 DA-A	65 DA-A	65 DA-A
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment								
No. Name								
Rate								
Rate Unit								
	36	37	38	39	40	41	42	43
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)	0 b	5 a	3 ab	1 a	0 a	10 abc	5 a-d	0 a
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	7 a	3 a	0 b	0 ab	12 abc	6 a-d	0 a
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)	0 b	7 a	3 ab	1 a	0 ab	17 a	9 a	0 a
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	5 a	2 abc	0 b	0 b	11 abc	5 a-d	0 a
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)	0 b	5 a	3 ab	0 b	0 b	11 abc	6 a-d	0 a
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	5 a	2 ab	0 b	0 b	11 abc	5 a-d	0 a
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)	0 b	3 ab	1 abc	0 b	0 b	17 a	8 ab	0 a
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	4 ab	2 abc	0 b	0 b	12 abc	5 a-d	0 a
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)	0 a	5 ab	2 abc	0 ab	0 ab	11 abc	5 a-d	0 a
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	4 ab	2 ab	0 ab	0 ab	13 abc	6 a-d	0 a
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)	0 b	4 ab	2 abc	0 b	0 b	14 abc	6 a-d	0 a
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	3 ab	1 abc	0 b	0 b	14 abc	6 a-d	0 a
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)	0 b	5 ab	2 abc	0 b	0 b	16 ab	8 abc	0 a
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	5 a	3 ab	0 b	0 b	11 abc	6 a-d	0 a
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	0 b	2 ab	1 bc	0 b	0 b	9 bc	4 cd	0 a
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	0 b	0 c	0 b	0 b	15 abc	7 a-d	0 a

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Weed Code	harv 1	harv2	harv2	harv2	harv2	harv 3	harv 3	harv 3
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber
Rating Data Type	cull	fruit	fruit	cull	cull	fruit	fruit	cull
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Date	Apr-21-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-24-06	Apr-28-06	Apr-28-06	Apr-28-06
Crop Stage								
Trt-Eval Interval	58 DA-A	61 DA-A	61 DA-A	61 DA-A	61 DA-A	65 DA-A	65 DA-A	65 DA-A
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment								
No. Name								
Rate								
Rate Unit								
36	37	38	39	40	41	42	43	
17 None LDPE 1.25 mil 14 d (when poke hole)	0 b	5 a	2 abc	0 b	0 b	7 c	3 d	0 a
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	4 ab	2 abc	0 b	0 b	7 c	4 bcd	0 a
19 None Met. Smooth 1 mil 14 d (when poke hole)	0 b	4 ab	2 abc	0 b	0 b	13 abc	6 a-d	0 a
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	4 ab	2 abc	0 b	0 b	10 abc	5 a-d	0 a
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	0 b	4 ab	2 abc	0 b	0 b	14 abc	7 a-d	1 a
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	5 ab	2 abc	0 b	0 b	14 abc	7 a-d	0 a
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	0 b	7 a	3 a	0 b	0 b	13 abc	8 ab	0 a
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	5 ab	2 abc	0 b	0 b	12 abc	7 a-d	0 a
LSD (P=.05)	0.1	4.0	1.9	0.4	0.2	6.5	3.4	0.7
Standard Deviation	0.0	2.4	1.2	0.2	0.1	3.9	2.0	0.4
CV	848.53	55.06	56.33	270.27	319.11	32.09	33.91	291.8
Bartlett's X2	0.0	18.793	15.934	0.0	0.395	20.792	16.375	2.266
P(Bartlett's X2)	.	0.658	0.819	1.00	0.983	0.534	0.839	0.972

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

University of Georgia

Weed Code	harv 3	harv4	harv4	harv4	harv4	harv 5	harv 5	
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	
Rating Data Type	cull	fruit	fruit	cull	cull	fruit	fruit	
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Date	Apr-28-06	May-01-06	May-01-06	May-01-06	May-01-06	May-03-06	May-03-06	
Crop Stage								
Trt-Eval Interval	65 DA-A	68 DA-A	68 DA-A	68 DA-A	68 DA-A	70 DA-A	70 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	44	45	46	47	48	49	50
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)		0 a	7 ab	4 a-d	0 a	0 a	7 ab	4 ab
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 a	3 b	2 cd	0 a	0 a	6 ab	3 ab
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)		0 a	6 ab	4 a-d	0 a	0 a	8 ab	4 ab
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 a	5 ab	2 bcd	0 a	0 a	10 a	5 a
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)		0 a	6 ab	3 bcd	0 a	0 a	8 ab	4 ab
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 a	8 ab	4 a-d	0 a	0 a	7 ab	3 ab
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)		0 a	4 ab	3 bcd	0 a	0 a	8 ab	5 a
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 a	4 ab	2 bcd	0 a	0 a	7 ab	4 ab
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)		0 a	10 a	5 ab	0 a	0 a	6 ab	3 ab
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 a	10 a	5 abc	0 a	0 a	5 ab	3 ab
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)		0 a	6 ab	3 a-d	0 a	0 a	7 ab	3 ab
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 a	7 ab	4 a-d	0 a	0 a	3 ab	2 ab
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)		0 a	10 a	5 ab	0 a	0 a	5 ab	2 ab
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 a	6 ab	4 a-d	0 a	0 a	5 ab	2 ab
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)		0 a	5 ab	2 bcd	1 a	0 a	2 b	1 b
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 a	8 ab	4 a-d	0 a	0 a	4 ab	2 ab

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Weed Code	harv 3	harv4	harv4	harv4	harv4	harv 5	harv 5	
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	
Rating Data Type	cull	fruit	fruit	cull	cull	fruit	fruit	
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Date	Apr-28-06	May-01-06	May-01-06	May-01-06	May-01-06	May-03-06	May-03-06	
Crop Stage								
Trt-Eval Interval	65 DA-A	68 DA-A	68 DA-A	68 DA-A	68 DA-A	70 DA-A	70 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	44	45	46	47	48	49	50
17 None LDPE 1.25 mil 14 d (when poke hole)	0 a	3 b	1 d	0 a	0 a	9 a	5 a	
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	0 a	3 b	1 d	0 a	0 a	6 ab	3 ab	
19 None Met. Smooth 1 mil 14 d (when poke hole)	0 a	7 ab	3 a-d	0 a	0 a	6 ab	3 ab	
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	0 a	3 b	1 d	0 a	0 a	4 ab	1 ab	
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	0 a	5 ab	3 bcd	0 a	0 a	10 a	5 a	
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	0 a	8 ab	4 a-d	0 a	0 a	5 ab	2 ab	
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	0 a	10 a	6 a	0 a	0 a	5 ab	2 ab	
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	0 a	7 ab	4 a-d	0 a	0 a	8 ab	4 ab	
LSD (P=.05)	0.3	5.0	2.7	0.6	0.2	5.7	3.0	
Standard Deviation	0.2	3.0	1.6	0.3	0.1	3.4	1.8	
CV	299.75	48.35	48.36	405.4	403.0	54.25	57.84	
Bartlett's X2	3.786	23.985	40.55	1.865	1.789	17.251	17.29	
P(Bartlett's X2)	0.876	0.348	0.013*	0.761	0.775	0.797	0.795	

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

University of Georgia

Weed Code	harv 5	harv 5	harv 6	harv 6	harv 6	harv 6	harv 7	
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	
Rating Data Type	cull	cull	fruit	fruit	cull	cull	fruit	
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Date	May-03-06	May-03-06	May-05-06	May-05-06	May-05-06	May-05-06	May-08-06	
Crop Stage								
Trt-Eval Interval	70 DA-A	70 DA-A	72 DA-A	72 DA-A	72 DA-A	72 DA-A	75 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	51	52	53	54	55	56	57
1 DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)		1 b	0 b	10 a	3 a	0 a	0 a	8 ab
2 DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 b	0 b	10 a	4 a	0 a	0 a	8 ab
3 DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)		0 b	0 b	8 a	3 a	0 a	0 a	10 a
4 DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)		1 b	0 b	9 a	3 a	0 a	0 a	6 ab
5 DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)		0 b	0 b	9 a	4 a	0 a	0 a	7 ab
6 DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)		0 b	0 b	6 a	3 a	0 a	0 a	6 ab
7 DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)		0 b	0 b	5 a	2 a	0 a	0 a	8 ab
8 DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 b	0 b	6 a	2 a	0 a	0 a	9 ab
9 DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)		1 b	0 b	5 a	3 a	0 a	0 a	8 ab
10 DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)		1 b	0 b	5 a	2 a	0 a	0 a	6 ab
11 DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)		0 b	0 b	6 a	3 a	0 a	0 a	9 ab
12 DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 b	0 b	4 a	1 a	0 a	0 a	10 a
13 DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)		1 b	0 b	8 a	3 a	0 a	0 a	8 ab
14 DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)		1 b	0 b	7 a	2 a	0 a	0 a	8 ab
15 DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)		0 b	0 b	6 a	3 a	0 a	0 a	8 ab
16 DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)		0 b	0 b	6 a	2 a	0 a	0 a	6 ab

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Weed Code	harv 5	harv 5	harv 6	harv 6	harv 6	harv 6	harv 7
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber
Rating Data Type	cull	cull	fruit	fruit	cull	cull	fruit
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Date	May-03-06	May-03-06	May-05-06	May-05-06	May-05-06	May-05-06	May-08-06
Crop Stage							
Trt-Eval Interval	70 DA-A	70 DA-A	72 DA-A	72 DA-A	72 DA-A	72 DA-A	75 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	51	52	53	54	55	56	57
17 None LDPE 1.25 mil 14 d (when poke hole)	0 b	0 b	7 a	3 a	0 a	0 a	4 b
18 None LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	0 b	9 a	3 a	0 a	0 a	5 ab
19 None Met. Smooth 1 mil 14 d (when poke hole)	1 b	0 b	7 a	3 a	0 a	0 a	5 ab
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	0 b	4 a	1 a	0 a	0 a	8 ab
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)	3 a	1 a	9 a	3 a	0 a	0 a	6 ab
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)	0 b	0 b	10 a	3 a	0 a	0 a	7 ab
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)	1 b	0 b	8 a	3 a	0 a	0 a	10 a
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)	0 b	0 b	13 a	4 a	0 a	0 a	6 ab
LSD (P=.05)	1.0	0.4	7.0	2.3	0.0	0.0	4.6
Standard Deviation	0.6	0.3	4.2	1.4	0.0	0.0	2.8
CV	136.5	159.75	56.73	51.83	0.0	0.0	38.35
Bartlett's X2	8.051	17.813	24.261	26.309	0.0	0.0	20.742
P(Bartlett's X2)	0.781	0.165	0.334	0.286	.	.	0.597

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

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Weed Code	harv 7 cucumber	harv 7 cucumber	harv 7 cucumber	Harv1-7 cucumber	Har1-7 cucumber	
Crop Code	fruit	cull	cull	fruit	fruit	
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	
Rating Date	May-08-06	May-08-06	May-08-06			
Crop Stage						
Trt-Eval Interval	75 DA-A	75 DA-A	75 DA-A			
ARM Action Codes				T3	T4	
# Subsamples, Dec.				1		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	
		58	59	60	61	
		62				
1	DMDS 38 G LDPE 1.25 mil 14 d (when poke hole)	4 ab	0 a	0 a	49.7 a-e	23 a-d
2	DMDS 38 G LDPE 1.25 mil 16 d (2 d after poke hole)	4 ab	0 a	0 a	47.0 a-f	22 b-e
3	DMDS 38 G Met. Smooth 1 mil 14 d (when poke hole)	5 ab	0 a	0 a	58.3 a	28 ab
4	DMDS 38 G Met. Smooth 1 mil 16 d (2 d after poke hole)	3 b	1 a	0 a	47.3 a-e	21 c-f
5	DMDS 50 G LDPE 1.25 mil 14 d (when poke hole)	3 ab	1 a	1 a	47.7 a-e	23 a-d
6	DMDS 50 G LDPE 1.25 mil 16 d (2 d after poke hole)	3 ab	1 a	0 a	45.7 a-g	22 b-e
7	DMDS 50 G Met. Smooth 1 mil 14 d (when poke hole)	4 ab	0 a	0 a	46.7 a-f	23 a-e
8	DMDS 50 G Met. Smooth 1 mil 16 d (2 d after poke hole)	4 ab	0 a	0 a	42.0 b-g	20 c-f
9	DMDS 62 G LDPE 1.25 mil 14 d (when poke hole)	4 ab	0 a	0 a	47.0 a-f	23 a-e
10	DMDS 62 G LDPE 1.25 mil 16 d (2 d after poke hole)	3 b	1 a	0 a	43.7 b-g	20 c-f
11	DMDS 62 G Met. Smooth 1 mil 14 d (when poke hole)	4 ab	0 a	0 a	45.7 a-g	21 cde
12	DMDS 62 G Met. Smooth 1 mil 16 d (2 d after poke hole)	5 ab	0 a	0 a	42.7 b-g	19 c-f
13	DMDS 74 G LDPE 1.25 mil 14 d (when poke hole)	4 ab	1 a	0 a	54.0 ab	24 abc
14	DMDS 74 G LDPE 1.25 mil 16 d (2 d after poke hole)	4 ab	1 a	1 a	43.3 b-g	21 cde
15	DMDS 74 G Met. Smooth 1 mil 14 d (when poke hole)	4 ab	0 a	0 a	32.0 g	15 f
16	DMDS 74 G Met. Smooth 1 mil 16 d (2 d after poke hole)	3 b	1 a	0 a	39.0 c-g	17 def

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Weed Code	harv 7	harv 7	harv 7	Harv1-7	Har1-7	
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	
Rating Data Type	fruit	cull	cull	fruit	fruit	
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	
Rating Date	May-08-06	May-08-06	May-08-06			
Crop Stage						
Trt-Eval Interval	75 DA-A	75 DA-A	75 DA-A			
ARM Action Codes				T3	T4	
# Subsamples, Dec.				1		
Trt Treatment	Rate					
No. Name	Rate Unit	58	59	60	61	62
17 None LDPE 1.25 mil 14 d (when poke hole)		2 b	0 a	0 a	36.3 efg	16 ef
18 None LDPE 1.25 mil 16 d (2 d after poke hole)		2 b	0 a	0 a	37.0 d-g	17 def
19 None Met. Smooth 1 mil 14 d (when poke hole)		2 b	0 a	0 a	45.0 a-g	20 c-f
20 None Met. Smooth 1 mil 16 d (2 d after poke hole)		4 ab	1 a	0 a	32.7 fg	15 f
21 MB 350 LDPE 1.25 mil 14 d (when poke hole)		3 ab	0 a	0 a	51.3 a-d	24 abc
22 MB 350 LDPE 1.25 mil 16 d (2 d after poke hole)		3 ab	1 a	0 a	51.3 a-d	23 a-d
23 MB 350 Met. Smooth 1 mil 14 d (when poke hole)		6 a	0 a	0 a	55.0 ab	29 a
24 MB 350 Met. Smooth 1 mil 16 d (2 d after poke hole)		3 ab	1 a	1 a	52.0 abc	24 a-d
LSD (P=.05)		2.2	1.4	0.7	12.13	5.6
Standard Deviation		1.3	0.8	0.4	7.35	3.4
CV		38.59	165.72	173.86	16.15	15.82
Bartlett's X2		16.593	14.252	20.111	40.003	49.672
P(Bartlett's X2)		0.829	0.713	0.327	0.015*	0.001*

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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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: 6.5 Soil Name: Tifton sandy loam
 % Clay: 4 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	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
Applic. Placement:	8"deep
Air Temp., Unit:	70 F
% Relative Humidity:	44
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	64 F
Soil Moisture:	moist, 14%
% Cloud Cover:	25

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

Trt No	Treatment Application Comment