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Comparing methyl bromide alternatives for nutsedge control and pepper yield
during the fall of 2006.

Trial ID: Veg65-06

Protocol ID:

Location: Ponder

Study Director: Stanley Culpepper

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 30 feet

Spray vol: 25 gal/ac

Mix size: 3 liters (min 1.1732)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Growth Stage	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	By Rep 3
1	No fumigant LDPE 1 mil No herbicide									101	206	319
2	No fumigant LDPE 1 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		102	205	320
3	MIDAS 350 lb LDPE 1 mil No herbicide									103	216	326
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		104	215	325
5	MB 350 lb LDPE 1 mil No herbicide									105	202	323
6	MB 350 lb LDPE 1 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		106	201	324
7	DMDS 74 G LDPE 1 mil No herbicide									107	212	327
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		108	211	328
9	3 way LDPE 1 mil No herbicide									109	210	321
10	3 way LDPE 1 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		110	209	322
11	No fumigant Metalized 1.3 mil No herbicide									111	204	308
12	No fumigant Metalized 1.3 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		112	203	307
13	MIDAS 175 lb Metalized 1.3 mil No herbicide									113	224	313
14	MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		114	223	314

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Reps: 3

Plots: 6 by 30 feet

Spray vol: 25 gal/ac

Mix size: 3 liters (min 1.1732)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Growth Stage	Appl Code	Amt to Measure	Product	Plot No. By Rep		
										1	2	3
15	MB 175 lb Metalized 1.3 mil No herbicide									115	208	317
16	MB 175 lb Metalized 1.3 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		116	207	318
17	DMDS 56 G Metalized 1.3 mil No herbicide									117	226	305
18	DMDS 56 G Metalized 1.3 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		118	225	306
19	3 way Metalized 1.3 mil No herbicide									119	220	309
20	3 way Metalized 1.3 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		120	219	310
21	No fumigant VIF 1.5 mil No herbicide									121	230	329
22	No fumigant VIF 1.5 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		122	229	330
23	MIDAS 175 lb VIF 1.5 mil No herbicide									123	214	303
24	MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		124	213	304
25	MB 175 lb VIF 1.5 mil No herbicide									125	222	315
26	MB 175 lb VIF 1.5 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		126	221	316
27	DMDS 56 G VIF 1.5 mil No herbicide									127	218	301
28	DMDS 56 G VIF 1.5 mil Dual Magnum Command	7.62 3		L L	12 2	OZ/A PRE PT/A PRE	A A	11.25 ml/mx 30.0 ml/mx		128	217	302
29	3 way VIF 1.5 mil No herbicide									129	228	311

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Reps: 3 Plots: 6 by 30 feet
 Spray vol: 25 gal/ac Mix size: 3 liters (min 1.1732)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Growth Unit	Appl Code	Amt Product to Measure	Plot No. By Rep		
									1	2	3
30	3 way								130	227	312
	VIF 1.5 mil										
	Dual Magnum	7.62		L	12 OZ/A	PRE	A	11.25 ml/mx			
	Command	3		L	2 PT/A	PRE	A	30.0 ml/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
210.938	ml	Dual Magnum	7.62	L	
562.441	ml	Command	3	L	

- * 'Per area' calculations based on spray volume= 25 gal/ac, mix size= 3 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Compare MIDAS, DMDS and the 3-way to MB for nutsedge control and pepper response.

GAS EMISSIONS:

1. Gas penetrating the mulch was measured for several products. Chloropicrin gas emission was reduced when applied under VIF or metalized mulch at 5 hr after application by at least 75% when compared to LDPE mulch. Although not statistical, less emission was also measured at 1 hr, 20 hr and 44 hr after fumigating when chloropicrin was applied under metalized or VIF mulch as compared to LDPE mulch.
2. Lower use rates of MB and MIDAS was used under VIF and metalized mulch compared to LDPE mulch, thus differences in gas emission could be contributed to both rate and mulch type.
3. Gas emissions are extremely variable and sampling method must be improved.

PEPPER RESPONSE:

1. Less than 5% visual stunting was noted with the fumigant alone except with MIDAS and the 3-way applied under VIF mulch.
2. Stunting from the herbicide program was 5 to 10% regardless of fumigant program.
3. Pepper heights taken in late August showed little impact by herbicide or fumigant but mulch color did impact growth with smaller plants noted on the grey VIF mulch.

MULCH EFFECT ON SOIL TEMPERATURE:

1. Soil temperatures were taken just below the soil surface.
2. At 8 am in the morning, no differences in soil temperatures were noted.
3. By 2 pm in the afternoon, generally siver on top metalized mulch was 5 F cooler than the white on black LDPE mulch which was 5 degrees cooler than the grey VIF mulch.

VISUAL NUTSEDGE RESPONSE:

1. The herbicide program provided less than 50 percent control.
2. VIF and metalized mulch provided 30 to 50% suppression at 16 DAT but less than 24% by 36 DAT.
3. All fumigant programs provided excellent control at 73 d after fumigating. The only programs providing less than 90% control were the 3 way under LDPE mulch (87 to 89%) and DMDS without the herbicide system.

NUTSEDGE EMERGENCE THROUGH MULCH:

1. Compared to MB, only DMDS and the 3-way without herbicides were less effective than MB late in the season.
2. Also of interest, the metalized and VIF mulch do not tend to impact nutsedge penetration when compared to LDPE mulch for the 3 way but these mulches greatly improve control by DMDS.

OTHER WEEDS:

1. No difference in smallflower morningglory or pitted morningglory were noted.

PEPPER YIELDS:

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1. Yield differences among fumigant systems were primarily driven by mulch color. With hotter temperatures, lower yields were generally noted in the grey VIF mulch with cooler soil temperatures and generally higher yields noted in the metalized mulch.
2. The higher temperatures appeared to delay fruit set.

GENERAL COMMENTS:

1. July 19: fumigants were applied, beds were formed and mulch was laid. Soil and air reached 92 at 4 inches and 88 at 8 inches by early afternoon, moisture was ideal. MB, MIDAS, PIC, 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 and pepper was planted on August 4.
3. Plot size was actually 25 feet long with two rows per plot. The entire plot was used to make all measurements including harvest.

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Comparing methyl bromide alternatives for nutsedge control and pepper yield during the fall of 2006.

Trial ID: Veg65-06
Location: Ponder

Protocol ID:
Study Director: Stanley Culpepper
Investigator: Stanley Culpepper

Pest Code	Gas EMISSION	Gas EMISSION	Gas EMISSION	Gas EMISSION	CPSAN BVSO	CPSAN BVSO	MULCH8AM BVSO	MULCH2PM BVSO
Crop Code								
BBCH Scale								
Description								
Part Rated								2:00pm
Rating Date	Jul-19-06	Jul-19-06	Jul-20-06	Jul-22-06	Aug-15-06	Aug-24-06	Jul-26-06	Jul-28-06
Rating Data Type	top of plas	top of plas	top of plas	top of plas	stunting	stunt	Soil Temp F	Soil Temp F
Rating Unit	1 hr	5 hr	20 hr	44 hour	%	%	per plot	per plot
Assessed By					SC	AD		
Days After First/Last Applic.	0	0	1	3	27	36	7	9
Trt-Eval Interval	0 DA-A	0 DA-A	1 DA-A	3 DA-A	27 DA-A	36 DA-A	7 DA-A	7 DA-A
ARM Action Codes								
Trt No.	1	2	3	4	6	7	9	10
Treatment Name								
Rate								
Rate Unit								
1 No fumigant LDPE 1 mil No herbicide					0 k	0 b	80 j	97 d
2 No fumigant LDPE 1 mil Dual Magnum Command 12 OZ/A 2 PT/A					7 e-i	0 b	81 ij	97 d
3 MIDAS 350 lb LDPE 1 mil No herbicide	450 b	48 b	21 b	11 bc	2 jk	1 b	80 j	98 d
4 MIDAS 350 lb LDPE 1 mil Dual Magnum Command 12 OZ/A 2 PT/A					3 h-k	10 ab	80 j	99 cd
5 MB 350 lb LDPE 1 mil No herbicide	1017 a	520 a	433 a	31 b	0 k	0 b	80 j	99 cd
6 MB 350 lb LDPE 1 mil Dual Magnum Command 12 OZ/A 2 PT/A					5 f-j	0 b	81 j	98 d
7 DMDS 74 G LDPE 1 mil No herbicide					0 k	0 b	80 j	99 cd
8 DMDS 74 G LDPE 1 mil Dual Magnum Command 12 OZ/A 2 PT/A					6 e-j	0 b	80 j	98 d
9 3 way LDPE 1 mil No herbicide	10 c	22 b	19 b	6 c	0 k	0 b	80 j	99 cd
10 3 way LDPE 1 mil Dual Magnum Command 12 OZ/A 2 PT/A					6 e-j	2 b	80 j	98 d
11 No fumigant Metalized 1.3 mil No herbicide					2 ijk	1 b	82 a-g	93 e

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Pest Code	Gas EMISSION	Gas EMISSION	Gas EMISSION	Gas EMISSION	CPSAN BVSO	CPSAN BVSO	MULCH8AM BVSO	MULCH2PM BVSO		
Crop Code										
BBCH Scale										
Description										
Part Rated								2:00pm		
Rating Date	Jul-19-06	Jul-19-06	Jul-20-06	Jul-22-06	Aug-15-06	Aug-24-06	Jul-26-06	Jul-28-06		
Rating Data Type	top of plas	top of plas	top of plas	top of plas	stunting	stunt	Soil Temp F	Soil Temp F		
Rating Unit	1 hr	5 hr	20 hr	44 hour	%	%	per plot	per plot		
Assessed By					SC	AD				
Days After First/Last Applic.	0	0	1	3	27	36	7	9		
Trt-Eval Interval	0 DA-A	0 DA-A	1 DA-A	3 DA-A	27 DA-A	36 DA-A	7 DA-A	7 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		1	2	3	4	6	7	9		
12	No fumigant Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A				5 f-j	2 b	82 abc	92 e	
13	MIDAS 175 lb Metalized 1.3 mil No herbicide		43 c	39 b	38 b	28 b	0 k	0 b	82 a	94 e
14	MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A					6 e-j	0 b	82 ab	93 e
15	MB 175 lb Metalized 1.3 mil No herbicide		30 c	57 b	105 b	52 a	2 jk	0 b	82 a-h	94 e
16	MB 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A					5 g-k	0 b	82 a-h	93 e
17	DMDS 56 G Metalized 1.3 mil No herbicide						0 k	0 b	81 b-h	93 e
18	DMDS 56 G Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A					7 e-i	0 b	82 a-e	94 e
19	3 way Metalized 1.3 mil No herbicide		1 c	5 b	12 b	3 c	3 h-k	1 b	82 a-f	93 e
20	3 way Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A					11 de	1 b	82 a-d	94 e
21	No fumigant VIF 1.5 mil No herbicide						4 g-k	12 ab	81 b-h	103 ab
22	No fumigant VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A					11 de	13 ab	81 d-h	102 ab
23	MIDAS 175 lb VIF 1.5 mil No herbicide		25 c	33 b	30 b	13 bc	13 cd	7 b	81 e-h	103 ab

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Pest Code	Gas	Gas	Gas	Gas	CPSAN	CPSAN	MULCH8AM	MULCH2PM		
Crop Code	EMISSION	EMISSION	EMISSION	EMISSION	BVSO	BVSO	BVSO	BVSO		
BBCH Scale										
Description										
Part Rated								2:00pm		
Rating Date	Jul-19-06	Jul-19-06	Jul-20-06	Jul-22-06	Aug-15-06	Aug-24-06	Jul-26-06	Jul-28-06		
Rating Data Type	top of plas	top of plas	top of plas	top of plas	stunting	stunt	Soil Temp F	Soil Temp F		
Rating Unit	1 hr	5 hr	20 hr	44 hour	%	%	per plot	per plot		
Assessed By					SC	AD				
Days After First/Last Applic.	0	0	1	3	27	36	7	9		
Trt-Eval Interval	0 DA-A	0 DA-A	1 DA-A	3 DA-A	27 DA-A	36 DA-A	7 DA-A	7 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		1	2	3	4	6	7	9	10	
24	MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A				22 a	20 a	81 fgh	99 cd	
25	MB 175 lb VIF 1.5 mil No herbicide		30 c	38 b	73 b	21 bc	8 d-g	3 b	81 c-h	104 ab
26	MB 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A					17 bc	6 b	81 gh	102 bc
27	DMDS 56 G VIF 1.5 mil No herbicide						8 d-h	4 b	81 hi	103 ab
28	DMDS 56 G VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A					12 cd	8 ab	81 gh	105 a
29	3 way VIF 1.5 mil No herbicide		0 c	3 b	13 b	2 c	10 def	13 ab	81 d-h	104 ab
30	3 way VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A					18 ab	20 a	81 b-h	103 ab
LSD (P=.05)			262.1	143.7	123.1	18.3	4.4	10.8	0.4	2.5
Standard Deviation			151.4	83.0	71.1	10.6	2.7	6.6	0.3	1.5
CV			84.89	97.65	86.17	57.73	42.06	161.01	0.32	1.57
Bartlett's X2			85.018	83.506	53.806	24.757	20.733	46.33	27.618	24.684
P(Bartlett's X2)			0.001*	0.001*	0.001*	0.002*	0.537	0.001*	0.538	0.695

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

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Pest Code	MULCH8AM	MULCH2PM	MULCH1PM	MULCH1PM	CYPZZ	CYPZZ	CYPZZ	
Crop Code	MULCH8AM	MULCH2PM	MULCH1PM	MULCH1PM	CYPZZ	CYPZZ	CYPZZ	
BBCH Scale	BVSO	BVSO	BVSO	BVSO				
Description			On top of plastic	In plastic				
Part Rated	7:50am	2:00pm	1:00pm	1:00pm				
Rating Date	Aug-02-06	Aug-02-06	Aug-08-06	Aug-08-06	Aug-04-06	Aug-15-06	Aug-24-06	
Rating Data Type	Soil Temp F	Soil Temp F	Soil Temp F	Soil Temp F	control	control	control	
Rating Unit	per plot	per plot	per plot	per plot	%	%	%	
Assessed By					SC	SC	AD	
Days After First/Last Applic.	14	14	20	20	16	27	36	
Trt-Eval Interval	9 DA-A	14 DA-A	14 DA-A	20 DA-A	16 DA-A	27 DA-A	36 DA-A	
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
11			12	13	14	16	17	18
1	No fumigant LDPE 1 mil No herbicide	81 hij	98 f-j	101 a-d	95 f-j	0 f	0 g	0 e
2	No fumigant LDPE 1 mil Dual Magnum Command	81 e-j	99 e-i	101 a-d	96 f-j	43 cd	25 e	22 d
		12 OZ/A 2 PT/A						
3	MIDAS 350 lb LDPE 1 mil No herbicide	81 g-j	101 d-h	101 a-d	96 f-j	99 a	99 a	99 a
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	80 j	102 def	102 a-d	98 d-g	99 a	99 a	99 a
		12 OZ/A 2 PT/A						
5	MB 350 lb LDPE 1 mil No herbicide	81 ij	101 d-h	103 a-d	97 e-j	99 a	98 a	98 a
6	MB 350 lb LDPE 1 mil Dual Magnum Command	82 d-i	102 d-g	103 a-d	99 d-g	99 a	99 a	100 a
		12 OZ/A 2 PT/A						
7	DMDS 74 G LDPE 1 mil No herbicide	81 ij	102 d-g	100 a-d	101 b-e	98 a	93 a	87 b
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	81 hij	103 cde	104 a-d	99 c-f	99 a	97 a	96 ab
		12 OZ/A 2 PT/A						
9	3 way LDPE 1 mil No herbicide	81 ij	102 def	103 a-d	99 d-g	97 a	96 a	92 ab
10	3 way LDPE 1 mil Dual Magnum Command	81 f-j	101 d-h	105 abc	98 e-i	99 a	94 a	90 ab
		12 OZ/A 2 PT/A						
11	No fumigant Metalized 1.3 mil No herbicide	83 a-d	94 j	102 a-d	98 d-h	32 e	35 d	20 d
12	No fumigant Metalized 1.3 mil Dual Magnum Command	83 a-e	94 j	97 bcd	93 j	50 c	49 c	47 c
		12 OZ/A 2 PT/A						
13	MIDAS 175 lb Metalized 1.3 mil No herbicide	83 abc	96 ij	100 a-d	94 ij	99 a	98 a	99 a

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Pest Code	MULCH8AM	MULCH2PM	MULCH1PM	MULCH1PM	CYPZZ	CYPZZ	CYPZZ
Crop Code	MULCH8AM	MULCH2PM	MULCH1PM	MULCH1PM	CYPZZ	CYPZZ	CYPZZ
BBCH Scale	BVSO	BVSO	BVSO	BVSO			
Description			On top of plastic	In plastic			
Part Rated	7:50am	2:00pm	1:00pm	1:00pm			
Rating Date	Aug-02-06	Aug-02-06	Aug-08-06	Aug-08-06	Aug-04-06	Aug-15-06	Aug-24-06
Rating Data Type	Soil Temp F	Soil Temp F	Soil Temp F	Soil Temp F	control	control	control
Rating Unit	per plot	per plot	per plot	per plot	%	%	%
Assessed By					SC	SC	AD
Days After First/Last Applic.	14	14	20	20	16	27	36
Trt-Eval Interval	9 DA-A	14 DA-A	14 DA-A	20 DA-A	16 DA-A	27 DA-A	36 DA-A
ARM Action Codes							
Trt No.	11	12	13	14	16	17	18
Treatment Name							
Rate							
Rate Unit							
14 MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	83 a-d 12 OZ/A 2 PT/A	97 hij	97 cd	94 ij	99 a	99 a	100 a
15 MB 175 lb Metalized 1.3 mil No herbicide	82 a-f	96 ij	99 a-d	95 f-j	99 a	98 a	98 ab
16 MB 175 lb Metalized 1.3 mil Dual Magnum Command	83 a-d 12 OZ/A 2 PT/A	97 hij	100 a-d	94 g-j	99 a	98 a	100 a
17 DMDS 56 G Metalized 1.3 mil No herbicide	82 a-f	95 ij	97 bcd	94 g-j	99 a	99 a	100 a
18 DMDS 56 G Metalized 1.3 mil Dual Magnum Command	83 a-d 12 OZ/A 2 PT/A	97 g-j	99 bcd	94 hij	99 a	98 a	100 a
19 3 way Metalized 1.3 mil No herbicide	83 a	96 ij	97 d	95 g-j	99 a	97 a	98 ab
20 3 way Metalized 1.3 mil Dual Magnum Command	83 ab 12 OZ/A 2 PT/A	97 hij	98 bcd	95 f-j	99 a	99 a	96 ab
21 No fumigant VIF 1.5 mil No herbicide	82 a-g	105 bcd	107 a	104 ab	40 d	17 f	17 d
22 No fumigant VIF 1.5 mil Dual Magnum Command	82 b-h 12 OZ/A 2 PT/A	105 bcd	104 a-d	102 a-d	72 b	58 b	48 c
23 MIDAS 175 lb VIF 1.5 mil No herbicide	82 b-i	107 abc	102 a-d	105 a	99 a	99 a	100 a
24 MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	82 c-i 12 OZ/A 2 PT/A	108 ab	104 a-d	104 ab	99 a	99 a	100 a
25 MB 175 lb VIF 1.5 mil No herbicide	82 b-i	108 ab	100 a-d	105 ab	99 a	99 a	99 a

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Pest Code	MULCH8AM	MULCH2PM	MULCH1PM	MULCH1PM	CYPZZ	CYPZZ	CYPZZ
Crop Code	MULCH8AM	MULCH2PM	MULCH1PM	MULCH1PM	CYPZZ	CYPZZ	CYPZZ
BBCH Scale	BVSO	BVSO	BVSO	BVSO			
Description			On top of plastic	In plastic			
Part Rated	7:50am	2:00pm	1:00pm	1:00pm			
Rating Date	Aug-02-06	Aug-02-06	Aug-08-06	Aug-08-06	Aug-04-06	Aug-15-06	Aug-24-06
Rating Data Type	Soil Temp F	Soil Temp F	Soil Temp F	Soil Temp F	control	control	control
Rating Unit	per plot	per plot	per plot	per plot	%	%	%
Assessed By					SC	SC	AD
Days After First/Last Applic.	14	14	20	20	16	27	36
Trt-Eval Interval	9 DA-A	14 DA-A	14 DA-A	20 DA-A	16 DA-A	27 DA-A	36 DA-A
ARM Action Codes							
Trt No.	11	12	13	14	16	17	18
Treatment Name							
Rate							
Rate Unit							
26 MB 175 lb VIF 1.5 mil Dual Magnum Command	82 a-f 12 OZ/A 2 PT/A	109 ab	100 a-d	104 ab	99 a	99 a	100 a
27 DMDS 56 G VIF 1.5 mil No herbicide	82 a-g	110 a	105 ab	104 ab	99 a	99 a	100 a
28 DMDS 56 G VIF 1.5 mil Dual Magnum Command	82 a-g 12 OZ/A 2 PT/A	108 ab	103 a-d	105 a	99 a	99 a	100 a
29 3 way VIF 1.5 mil No herbicide	82 a-f	109 ab	101 a-d	105 a	99 a	98 a	98 ab
30 3 way VIF 1.5 mil Dual Magnum Command	82 c-i 12 OZ/A 2 PT/A	107 abc	102 a-d	103 abc	99 a	99 a	99 a
LSD (P=.05)	1.1	3.9	6.5	3.6	7.0	8.2	9.9
Standard Deviation	0.7	2.4	4.0	2.2	4.3	5.0	6.0
CV	0.81	2.34	3.9	2.22	4.91	5.96	7.24
Bartlett's X2	26.244	38.649	29.96	38.561	21.162	42.236	65.516
P(Bartlett's X2)	0.56	0.109	0.416	0.11	0.002*	0.001*	0.001*

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

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Pest Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CPYZZ	IAQTA		
Crop Code										
BBCH Scale										
Description										
Part Rated										
Rating Date	Sep-30-06	Jul-26-06	Aug-02-06	Aug-08-06	Aug-24-06	Sep-20-06	Oct-11-06	Aug-21-06		
Rating Data Type	control	#	#	#	#	#	#	#		
Rating Unit	%	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Assessed By	SC									
Days After First/Last Applic.	73	7	14	20	36	63	84	33		
Trt-Eval Interval	73 DA-A	7 DA-A	14 DA-A	20 DA-A	36 DA-A	63 DA-A	84 DA-A	33 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	19	21	22	23	24	25	26	27
		Rate Unit								
1	No fumigant LDPE 1 mil No herbicide		0 e	60 a	103 a	175 a	161 ab	126 a	91 b	0 b
2	No fumigant LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	35 c	52 ab	59 ab	135 a	127 bc	127 a	102 ab	0 b
3	MIDAS 350 lb LDPE 1 mil No herbicide		98 ab	0 d	0 c	0 c	0 e	3 c	0 g	0 b
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 a	1 d	0 c	1 c	2 e	4 c	2 efg	0 b
5	MB 350 lb LDPE 1 mil No herbicide		99 a	0 d	0 c	0 c	2 e	4 c	4 efg	0 b
6	MB 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 a	0 d	0 c	0 c	0 e	3 c	2 fg	0 b
7	DMDS 74 G LDPE 1 mil No herbicide		87 b	0 d	2 c	4 c	14 e	33 c	19 e	0 b
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	94 ab	0 d	0 c	1 c	3 e	5 c	2 efg	0 b
9	3 way LDPE 1 mil No herbicide		89 ab	0 d	2 c	2 c	5 e	11 c	17 ef	0 b
10	3 way LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	87 b	0 d	3 c	5 c	7 e	11 c	11 efg	0 b
11	No fumigant Metalized 1.3 mil No herbicide		22 d	31 bc	71 ab	77 b	119 cd	127 a	65 cd	0 b
12	No fumigant Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	40 c	31 bc	75 ab	49 bc	89 cd	80 b	55 d	0 b
13	MIDAS 175 lb Metalized 1.3 mil No herbicide		98 a	0 d	0 c	0 c	1 e	0 c	0 g	0 b

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Pest Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CPYZZ	IAQTA		
Crop Code										
BBCH Scale										
Description										
Part Rated										
Rating Date	Sep-30-06	Jul-26-06	Aug-02-06	Aug-08-06	Aug-24-06	Sep-20-06	Oct-11-06	Aug-21-06		
Rating Data Type	control	#	#	#	#	#	#	#		
Rating Unit	%	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Assessed By	SC									
Days After First/Last Applic.	73	7	14	20	36	63	84	33		
Trt-Eval Interval	73 DA-A	7 DA-A	14 DA-A	20 DA-A	36 DA-A	63 DA-A	84 DA-A	33 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	19	21	22	23	24	25	26	27
		Rate Unit								
14	MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	97 ab	0 d	0 c	0 c	0 e	1 c	1 fg	0 b
15	MB 175 lb Metalized 1.3 mil No herbicide		98 a	0 d	0 c	0 c	1 e	0 c	1 fg	0 b
16	MB 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 a	0 d	0 c	0 c	0 e	0 c	1 fg	0 b
17	DMDS 56 G Metalized 1.3 mil No herbicide		99 a	0 d	0 c	0 c	0 e	0 c	0 g	0 b
18	DMDS 56 G Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 a	0 d	0 c	0 c	0 e	0 c	0 g	0 b
19	3 way Metalized 1.3 mil No herbicide		95 ab	0 d	0 c	0 c	2 e	4 c	5 efg	0 b
20	3 way Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	95 ab	0 d	0 c	0 c	4 e	5 c	9 efg	0 b
21	No fumigant VIF 1.5 mil No herbicide		0 e	24 cd	65 ab	60 bc	183 a	116 a	109 a	0 b
22	No fumigant VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	37 c	9 cd	38 bc	35 bc	82 d	76 b	74 c	0 b
23	MIDAS 175 lb VIF 1.5 mil No herbicide		99 a	0 d	0 c	0 c	0 e	1 c	2 efg	0 b
24	MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 a	0 d	0 c	0 c	0 e	0 c	0 g	0 b
25	MB 175 lb VIF 1.5 mil No herbicide		99 a	0 d	0 c	0 c	1 e	1 c	2 efg	0 b

University of Georgia

Pest Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CPYZZ	IAQTA
Crop Code								
BBCH Scale								
Description								
Part Rated								
Rating Date	Sep-30-06	Jul-26-06	Aug-02-06	Aug-08-06	Aug-24-06	Sep-20-06	Oct-11-06	Aug-21-06
Rating Data Type	control	#	#	#	#	#	#	#
Rating Unit	%	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Assessed By	SC							
Days After First/Last Applic.	73	7	14	20	36	63	84	33
Trt-Eval Interval	73 DA-A	7 DA-A	14 DA-A	20 DA-A	36 DA-A	63 DA-A	84 DA-A	33 DA-A
ARM Action Codes								
Trt No.	19	21	22	23	24	25	26	27
Treatment Name								
Rate								
Unit								
26 MB 175 lb VIF 1.5 mil Dual Magnum Command	99 a	0 d	0 c	0 c	0 e	0 c	0 fg	0 b
12 OZ/A 2 PT/A								
27 DMDS 56 G VIF 1.5 mil No herbicide	95 ab	0 d	0 c	35 bc	0 e	3 c	2 efg	0 b
28 DMDS 56 G VIF 1.5 mil Dual Magnum Command	99 a	0 d	0 c	0 c	0 e	0 c	0 g	0 b
12 OZ/A 2 PT/A								
29 3 way VIF 1.5 mil No herbicide	89 ab	0 d	0 c	1 c	1 e	6 c	11 efg	4 a
30 3 way VIF 1.5 mil Dual Magnum Command	98 a	0 d	0 c	0 c	1 e	6 c	7 efg	0 b
12 OZ/A 2 PT/A								
LSD (P=.05)	8.9	20.3	40.4	54.0	40.1	35.2	13.8	2.0
Standard Deviation	5.4	12.4	24.7	33.1	24.5	21.5	8.4	1.2
CV	6.68	178.6	177.74	170.88	91.51	85.8	42.47	520.85
Bartlett's X2	25.626	20.527	33.142	123.182	142.285	102.521	61.338	42.343
P(Bartlett's X2)	0.06	0.002*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*

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

University of Georgia

Pest Code	IAQTA	IAQTA	IPOLA	IPOLA	IPOLA	plant 1 CSPAN	plant 2 CSPAN	plant 3 CSPAN			
Crop Code											
BBCH Scale											
Description											
Part Rated						right	right	right			
Rating Date	Aug-24-06	Aug-29-06	Aug-21-06	Aug-24-06	Aug-29-06	Aug-31-06	Aug-31-06	Aug-31-06			
Rating Data Type	#	#	#	#	#	ht	ht	ht			
Rating Unit	per plot	per plot	per plot	per plot	per plot	cm	cm	cm			
Assessed By											
Days After First/Last Applic.	36	41	33	36	41	43	43	43			
Trt-Eval Interval	36 DA-A	41 DA-A	33 DA-A	36 DA-A	41 DA-A	43 DA-A	43 DA-A	43 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	28	29	30	31	32	34	35	36
1	No fumigant LDPE 1 mil No herbicide			0 a	0 b	0 a	0 b	0 a	48 ab	47 abc	47 a-e
2	No fumigant LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	46 ab	44 abc	43 a-f
3	MIDAS 350 lb LDPE 1 mil No herbicide			0 a	1 ab	0 a	0 b	0 b	40 abc	39 abc	40 a-f
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	46 ab	44 abc	46 a-f
5	MB 350 lb LDPE 1 mil No herbicide			1 a	1 a	0 a	0 b	0 b	46 ab	50 a	48 a-e
6	MB 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	46 ab	45 abc	45 a-f
7	DMDS 74 G LDPE 1 mil No herbicide			1 a	0 ab	0 a	0 b	0 a	48 ab	49 ab	47 a-e
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	44 abc	44 abc	40 a-f
9	3 way LDPE 1 mil No herbicide			1 a	0 b	0 a	0 b	0 b	46 ab	47 abc	41 a-f
10	3 way LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	45 ab	45 abc	45 a-f
11	No fumigant Metalized 1.3 mil No herbicide			1 a	1 a	0 a	0 b	0 b	44 abc	32 bc	47 a-e
12	No fumigant Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	50 a	46 abc	50 abc
13	MIDAS 175 lb Metalized 1.3 mil No herbicide			0 a	1 ab	0 a	0 b	0 b	42 abc	47 abc	45 a-f

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Pest Code	IAQTA	IAQTA	IPOLA	IPOLA	IPOLA	plant 1 CSPAN	plant 2 CSPAN	plant 3 CSPAN			
Crop Code											
BBCH Scale											
Description											
Part Rated						right	right	right			
Rating Date	Aug-24-06	Aug-29-06	Aug-21-06	Aug-24-06	Aug-29-06	Aug-31-06	Aug-31-06	Aug-31-06			
Rating Data Type	#	#	#	#	#	ht	ht	ht			
Rating Unit	per plot	per plot	per plot	per plot	per plot	cm	cm	cm			
Assessed By											
Days After First/Last Applic.	36	41	33	36	41	43	43	43			
Trt-Eval Interval	36 DA-A	41 DA-A	33 DA-A	36 DA-A	41 DA-A	43 DA-A	43 DA-A	43 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	28	29	30	31	32	34	35	36
14	MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	49 a	51 a	48 a-e
15	MB 175 lb Metalized 1.3 mil No herbicide			0 a	0 ab	0 a	0 b	0 b	39 abc	38 abc	44 a-f
16	MB 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	45 ab	47 abc	50 ab
17	DMDS 56 G Metalized 1.3 mil No herbicide			0 a	0 b	0 a	0 b	0 b	48 ab	45 abc	51 a
18	DMDS 56 G Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	44 abc	47 abc	49 a-d
19	3 way Metalized 1.3 mil No herbicide			0 a	0 b	0 a	0 b	0 b	47 ab	44 abc	45 a-f
20	3 way Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	42 abc	44 abc	44 a-f
21	No fumigant VIF 1.5 mil No herbicide			1 a	1 ab	0 a	0 b	0 b	41 abc	40 abc	38 b-f
22	No fumigant VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	38 abc	44 abc	37 def
23	MIDAS 175 lb VIF 1.5 mil No herbicide			1 a	0 b	0 a	1 a	0 b	40 abc	39 abc	38 c-f
24	MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A		0 a	0 b	0 a	0 b	0 b	38 abc	36 abc	37 def
25	MB 175 lb VIF 1.5 mil No herbicide			1 a	0 b	0 a	1 b	0 b	37 abc	40 abc	40 a-f

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Pest Code	IAQTA	IAQTA	IPOLA	IPOLA	IPOLA	plant 1 CSPAN	plant 2 CSPAN	plant 3 CSPAN
Crop Code								
BBCH Scale								
Description								
Part Rated						right	right	right
Rating Date	Aug-24-06	Aug-29-06	Aug-21-06	Aug-24-06	Aug-29-06	Aug-31-06	Aug-31-06	Aug-31-06
Rating Data Type	#	#	#	#	#	ht	ht	ht
Rating Unit	per plot	per plot	per plot	per plot	per plot	cm	cm	cm
Assessed By								
Days After First/Last Applic.	36	41	33	36	41	43	43	43
Trt-Eval Interval	36 DA-A	41 DA-A	33 DA-A	36 DA-A	41 DA-A	43 DA-A	43 DA-A	43 DA-A
ARM Action Codes								
Trt No.	28	29	30	31	32	34	35	36
Treatment Name								
Rate								
Unit								
26 MB 175 lb VIF 1.5 mil Dual Magnum Command	0 a	0 b	0 a	0 b	0 b	35 bc	37 abc	40 a-f
Rate								
Unit								
27 DMDS 56 G VIF 1.5 mil No herbicide	1 a	0 b	0 a	0 b	0 b	39 abc	37 abc	37 def
28 DMDS 56 G VIF 1.5 mil Dual Magnum Command	0 a	0 b	0 a	0 b	0 b	41 abc	46 abc	36 ef
Rate								
Unit								
29 3 way VIF 1.5 mil No herbicide	0 a	0 b	0 a	0 b	0 b	39 abc	31 c	34 f
30 3 way VIF 1.5 mil Dual Magnum Command	0 a	0 b	0 a	0 b	0 b	31 c	37 abc	34 f
Rate								
Unit								
LSD (P=.05)	1.1	0.8	0.0	0.6	0.2	10.5	14.4	10.1
Standard Deviation	0.7	0.5	0.0	0.4	0.2	6.5	8.8	6.2
CV	240.93	307.97	0.0	271.36	676.58	15.11	20.59	14.48
Bartlett's X2	8.387	4.352	0.0	3.478	0.0	45.771	57.995	43.814
P(Bartlett's X2)	0.754	0.629	.	0.901	1.00	0.025*	0.001*	0.038*

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

University of Georgia

Pest Code	plant 4 CSPAN	plant 5 CSPAN	plant 6 CSPAN	plant 7 CSPAN	plant 8 CSPAN	plant 9 CSPAN	plant 10 CSPAN	Avg10pla CSPAN			
Crop Code											
BBCH Scale											
Description											
Part Rated	right	right	right	right	right	right	right	right			
Rating Date	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Assessed By											
Days After First/Last Applic.	43	43	43	43	43	43	43	43			
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	31 DA-A			
ARM Action Codes								T1			
Trt No.	Treatment Name	Rate	Unit	37	38	39	40	41	42	43	44
1	No fumigant LDPE 1 mil No herbicide			49 ab	49 a-d	45 a-f	46 a-f	48 a-d	54 a	49 ab	48 abc
2	No fumigant LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		43 a-e	42 a-f	46 a-e	38 b-f	45 a-g	44 a-d	50 ab	44 a-g
3	MIDAS 350 lb LDPE 1 mil No herbicide			47 a-d	50 a-d	52 ab	44 a-f	51 abc	49 a-d	53 a	46 a-e
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		45 a-d	47 a-e	51 ab	49 abc	41 a-g	48 a-d	47 abc	46 a-e
5	MB 350 lb LDPE 1 mil No herbicide			45 a-d	48 a-e	50 abc	45 a-f	51 abc	48 a-d	47 abc	48 abc
6	MB 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		47 abc	53 a	47 a-e	51 ab	47 a-f	51 ab	49 ab	48 abc
7	DMDS 74 G LDPE 1 mil No herbicide			47 a-d	44 a-f	49 a-d	48 a-d	49 a-d	46 a-d	47 abc	47 a-d
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		42 a-e	43 a-f	45 a-f	45 a-f	42 a-g	34 cd	48 abc	43 a-h
9	3 way LDPE 1 mil No herbicide			43 a-e	48 a-e	47 a-e	47 a-e	46 a-f	46 a-d	47 abc	46 a-e
10	3 way LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		48 abc	47 a-e	48 a-d	49 abc	46 a-f	46 a-d	50 ab	47 a-e
11	No fumigant Metalized 1.3 mil No herbicide			51 a	45 a-e	48 a-e	49 abc	51 abc	54 a	47 abc	47 a-e
12	No fumigant Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		47 a-d	49 a-e	46 a-e	51 ab	52 ab	48 a-d	44 a-d	48 abc
13	MIDAS 175 lb Metalized 1.3 mil No herbicide			47 abc	53 a	48 a-e	51 ab	50 abc	50 abc	53 a	49 abc

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Pest Code	plant 4 CSPAN	plant 5 CSPAN	plant 6 CSPAN	plant 7 CSPAN	plant 8 CSPAN	plant 9 CSPAN	plant 10 CSPAN	Avg10pla CSPAN
Crop Code								
BBCH Scale								
Description								
Part Rated	right	right	right	right	right	right	right	right
Rating Date	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Assessed By								
Days After First/Last Applic.	43	43	43	43	43	43	43	43
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	31 DA-A
ARM Action Codes								T1
Trt No.	37	38	39	40	41	42	43	44
Treatment Name								
Rate								
Unit								
14 MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	48 abc	53 a	50 abc	52 ab	47 a-d	47 a-d	47 abc	49 ab
15 MB 175 lb Metalized 1.3 mil No herbicide	47 a-d	53 a	50 abc	47 a-e	44 a-g	45 a-d	46 abc	45 a-f
16 MB 175 lb Metalized 1.3 mil Dual Magnum Command	46 a-d	51 abc	47 a-e	47 a-e	40 a-g	42 a-d	38 b-e	45 a-f
17 DMDS 56 G Metalized 1.3 mil No herbicide	48 abc	52 ab	51 ab	55 a	48 a-d	47 a-d	52 a	50 a
18 DMDS 56 G Metalized 1.3 mil Dual Magnum Command	48 abc	47 a-e	53 a	49 abc	53 a	51 ab	48 ab	49 abc
19 3 way Metalized 1.3 mil No herbicide	43 a-e	45 a-e	48 a-e	47 a-e	47 a-e	45 a-d	45 a-d	46 a-e
20 3 way Metalized 1.3 mil Dual Magnum Command	42 a-e	41 a-f	46 a-f	43 a-f	39 a-g	43 a-d	45 a-d	43 a-h
21 No fumigant VIF 1.5 mil No herbicide	45 a-d	46 a-e	46 a-e	40 b-f	37 c-g	37 bcd	45 a-d	41 a-h
22 No fumigant VIF 1.5 mil Dual Magnum Command	35 de	41 a-f	32 h	40 b-f	42 a-g	39 a-d	42 a-e	39 d-h
23 MIDAS 175 lb VIF 1.5 mil No herbicide	40 a-e	36 ef	40 d-h	32 f	31 g	33 d	34 de	36 gh
24 MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	36 cde	32 f	40 d-h	34 def	39 a-g	36 bcd	39 b-e	37 gh
25 MB 175 lb VIF 1.5 mil No herbicide	43 a-e	43 a-f	42 b-g	39 b-f	42 a-g	38 a-d	39 b-e	40 c-h

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Pest Code	plant 4 CSPAN	plant 5 CSPAN	plant 6 CSPAN	plant 7 CSPAN	plant 8 CSPAN	plant 9 CSPAN	plant 10 CSPAN	Avg10pla CSPAN
Crop Code								
BBCH Scale								
Description								
Part Rated	right	right	right	right	right	right	right	right
Rating Date	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06	Aug-31-06
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Assessed By								
Days After First/Last Applic.	43	43	43	43	43	43	43	43
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	31 DA-A
ARM Action Codes								T1
Trt No.	37	38	39	40	41	42	43	44
Treatment Name								
Rate								
Unit								
26 MB 175 lb VIF 1.5 mil Dual Magnum Command	42 a-e	40 b-f	38 e-h	40 b-f	39 b-g	38 a-d	36 cde	39 e-h
12 OZ/A 2 PT/A								
27 DMDS 56 G VIF 1.5 mil No herbicide	38 b-e	38 def	33 gh	36 c-f	33 fg	40 a-d	39 b-e	37 fgh
28 DMDS 56 G VIF 1.5 mil Dual Magnum Command	39 b-e	38 def	41 c-h	41 a-f	42 a-g	44 a-d	42 a-e	41 b-h
12 OZ/A 2 PT/A								
29 3 way VIF 1.5 mil No herbicide	36 cde	39 c-f	41 c-h	32 f	33 efg	38 a-d	38 b-e	36 gh
30 3 way VIF 1.5 mil Dual Magnum Command	33 e	39 c-f	36 fgh	33 ef	35 d-g	36 bcd	31 e	35 h
12 OZ/A 2 PT/A								
LSD (P=.05)	9.9	10.1	8.0	11.7	11.7	13.5	9.9	7.1
Standard Deviation	6.0	6.2	4.9	7.2	7.1	8.3	6.1	4.4
CV	13.82	13.7	10.81	16.36	16.36	18.89	13.65	9.99
Bartlett's X2	31.929	25.367	33.235	29.748	53.05	45.909	32.582	43.223
P(Bartlett's X2)	0.323	0.659	0.268	0.427	0.004*	0.024*	0.295	0.043*

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

Column 39: T1 = @AVG([C34],[C43])

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Pest Code	harv 1 CPSAN BVSO	harv 1 CPSAN BVSO	harv 2 CPSAN BVSO	harv 2 CPSAN BVSO	harv 3 CPSAN BVSO	harv 3 CPSAN BVSO	harv 4 CPSAN BVSO	
Crop Code								
BBCH Scale								
Description								
Part Rated	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	
Rating Date	Sep-29-06	Sep-29-06	Oct-04-06	Oct-04-06	Oct-11-06	Oct-11-06	Oct-18-06	
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb	#	
Assessed By	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	
Days After First/Last Applic.	72	72	77	77	84	84	91	
Trt-Eval Interval	72 DA-A	72 DA-A	77 DA-A	77 DA-A	84 DA-A	84 DA-A	91 DA-A	
ARM Action Codes								
Trt No.	46	47	48	49	50	51	52	
Treatment Name								
Rate								
Unit								
1	No fumigant LDPE 1 mil No herbicide	3 b-e	1 cd	21 e-j	8 e-j	12 d-g	5 de	17 d-i
2	No fumigant LDPE 1 mil Dual Magnum Command	1 de	0 cd	17 f-j	6 g-j	13 c-g	5 de	17 d-i
					12 OZ/A			
					2 PT/A			
3	MIDAS 350 lb LDPE 1 mil No herbicide	4 a-e	1 bcd	36 a-e	15 a-e	26 ab	12 abc	16 e-i
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	5 a-d	2 a-d	32 b-f	13 a-g	21 a-e	9 a-e	19 c-i
					12 OZ/A			
					2 PT/A			
5	MB 350 lb LDPE 1 mil No herbicide	8 a	3 ab	32 b-f	13 a-g	28 ab	13 ab	21 b-i
6	MB 350 lb LDPE 1 mil Dual Magnum Command	5 a-e	2 a-d	42 a-d	18 abc	22 a-d	10 a-d	21 b-i
					12 OZ/A			
					2 PT/A			
7	DMDS 74 G LDPE 1 mil No herbicide	8 a	4 a	41 a-d	18 abc	18 b-g	8 a-e	20 c-i
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	5 a-e	2 abc	33 b-f	14 a-f	19 b-g	8 a-e	19 c-i
					12 OZ/A			
					2 PT/A			
9	3 way LDPE 1 mil No herbicide	6 abc	2 a-d	38 a-e	16 a-d	21 a-d	8 a-e	22 a-g
10	3 way LDPE 1 mil Dual Magnum Command	6 ab	2 abc	34 b-f	14 a-f	23 a-d	9 a-d	24 a-f
					12 OZ/A			
					2 PT/A			
11	No fumigant Metalized 1.3 mil No herbicide	1 cde	0 cd	23 e-i	9 d-i	24 a-d	10 a-d	26 a-e
12	No fumigant Metalized 1.3 mil Dual Magnum Command	2 b-e	1 cd	31 c-g	12 a-g	24 a-d	9 a-d	19 c-i
					12 OZ/A			
					2 PT/A			
13	MIDAS 175 lb Metalized 1.3 mil No herbicide	4 a-e	1 cd	45 a-d	18 abc	23 a-d	10 a-d	28 a-d

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Pest Code	harv 1 CPSAN BVSO	harv 1 CPSAN BVSO	harv 2 CPSAN BVSO	harv 2 CPSAN BVSO	harv 3 CPSAN BVSO	harv 3 CPSAN BVSO	harv 4 CPSAN BVSO
Crop Code							
BBCH Scale							
Description							
Part Rated	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo
Rating Date	Sep-29-06	Sep-29-06	Oct-04-06	Oct-04-06	Oct-11-06	Oct-11-06	Oct-18-06
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb	#
Assessed By	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit
Days After First/Last Applic.	72	72	77	77	84	84	91
Trt-Eval Interval	72 DA-A	72 DA-A	77 DA-A	77 DA-A	84 DA-A	84 DA-A	91 DA-A
ARM Action Codes							
Trt No.	46	47	48	49	50	51	52
Treatment Name							
Rate							
Unit							
14 MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	4 a-e	1 bcd	42 a-d	17 abc	25 a-d	10 a-d	33 a
15 MB 175 lb Metalized 1.3 mil No herbicide	4 a-e	1 cd	44 a-d	17 abc	20 a-f	9 a-e	30 abc
16 MB 175 lb Metalized 1.3 mil Dual Magnum Command	5 a-e	2 a-d	46 abc	19 a	22 a-d	10 a-d	22 a-h
17 DMDS 56 G Metalized 1.3 mil No herbicide	2 b-e	0 cd	49 ab	19 ab	27 ab	12 abc	32 ab
18 DMDS 56 G Metalized 1.3 mil Dual Magnum Command	4 a-e	1 a-d	52 a	19 a	25 a-d	10 a-d	27 a-e
19 3 way Metalized 1.3 mil No herbicide	5 a-d	2 a-d	48 abc	19 a	33 a	13 a	21 b-i
20 3 way Metalized 1.3 mil Dual Magnum Command	6 a-d	2 a-d	40 a-d	16 a-d	28 ab	12 ab	21 b-i
21 No fumigant VIF 1.5 mil No herbicide	1 cde	0 cd	8 ij	3 ij	8 fg	3 e	11 ghi
22 No fumigant VIF 1.5 mil Dual Magnum Command	1 de	0 cd	5 j	1 j	8 efg	3 e	10 hi
23 MIDAS 175 lb VIF 1.5 mil No herbicide	1 de	0 cd	23 e-i	9 d-i	17 b-g	7 b-e	13 f-i
24 MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	0 e	0 d	15 g-j	6 g-j	7 g	3 e	11 ghi
25 MB 175 lb VIF 1.5 mil No herbicide	5 a-e	2 a-d	18 f-j	7 f-j	23 a-d	10 a-d	15 e-i

University of Georgia

Pest Code	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4						
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN						
BBCH Scale	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO						
Description													
Part Rated	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo	Jumbo						
Rating Date	Sep-29-06	Sep-29-06	Oct-04-06	Oct-04-06	Oct-11-06	Oct-11-06	Oct-18-06						
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot						
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb	#						
Assessed By	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit						
Days After First/Last Applic.	72	72	77	77	84	84	91						
Trt-Eval Interval	72 DA-A	72 DA-A	77 DA-A	77 DA-A	84 DA-A	84 DA-A	91 DA-A						
ARM Action Codes													
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate						
Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit						
46			47		48		49		50		51		52
26	MB 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	2 b-e	1 cd	19 f-j	8 e-j	20 a-g	8 a-e	10 hi				
27	DMDS 56 G VIF 1.5 mil No herbicide		2 b-e	1 cd	28 d-h	12 b-h	26 abc	11 a-d	9 i				
28	DMDS 56 G VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	4 a-e	1 cd	18 f-j	8 e-j	21 a-d	9 a-d	9 i				
29	3 way VIF 1.5 mil No herbicide		2 b-e	1 cd	28 d-h	11 c-h	20 a-g	8 a-e	13 f-i				
30	3 way VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	0 e	0 d	13 hij	5 hij	15 b-g	6 cde	20 c-i				
LSD (P=.05)	4.2	1.8	14.2	6.0	10.7	4.8	10.0						
Standard Deviation	2.6	1.1	8.7	3.7	6.5	2.9	6.1						
CV	72.25	88.97	28.38	30.04	31.68	33.83	31.9						
Bartlett's X2	31.004	50.857	43.121	46.892	27.069	25.955	44.418						
P(Bartlett's X2)	0.271	0.004*	0.044*	0.019*	0.568	0.628	0.033*						

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

University of Georgia

Pest Code	harv 4 CPSAN BVSO	harv 5 CPSAN BVSO	harv 5 CPSAN BVSO	harv 6 CPSAN BVSO	harv 6 CPSAN BVSO	harv 7 CPSAN BVSO	harv 7 CPSAN BVSO	
Crop Code								
BBCH Scale								
Description								
Part Rated	Jumbo					Jumbo	Jumbo	
Rating Date	Oct-18-06	Oct-26-06	Oct-26-06	Nov-02-06	Nov-02-06	Nov-13-06	Nov-13-06	
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	#	wt/lb	
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	per plot	per plot	
Assessed By	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	
Days After First/Last Applic.	91	99	99	106	106	117	117	
Trt-Eval Interval	91 DA-A	99 DA-A	99 DA-A	106 DA-A	106 DA-A	117 DA-A	117 DA-A	
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		53	54	55	56	57	58	
59								
1	No fumigant LDPE 1 mil No herbicide	7 c-i	11 b-f	5 b-f	7 e-h	3 fgh	10 bc	4 cd
2	No fumigant LDPE 1 mil Dual Magnum Command	7 d-i	11 c-f	4 b-f	7 e-h	3 fgh	13 abc	6 bcd
		12 OZ/A						
		2 PT/A						
3	MIDAS 350 lb LDPE 1 mil No herbicide	6 d-i	13 b-f	5 b-f	9 c-h	4 d-h	20 abc	8 abc
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	8 b-i	8 ef	3 ef	6 fgh	3 fgh	19 abc	8 a-d
		12 OZ/A						
		2 PT/A						
5	MB 350 lb LDPE 1 mil No herbicide	9 a-g	14 b-f	6 b-f	7 e-h	3 e-h	22 ab	9 abc
6	MB 350 lb LDPE 1 mil Dual Magnum Command	9 a-h	14 b-f	6 b-f	12 b-g	5 b-g	26 a	11 ab
		12 OZ/A						
		2 PT/A						
7	DMDS 74 G LDPE 1 mil No herbicide	9 a-g	10 def	4 c-f	7 e-h	3 e-h	17 abc	7 a-d
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	8 b-i	18 a-e	7 a-d	16 abc	6 abc	19 abc	8 a-d
		12 OZ/A						
		2 PT/A						
9	3 way LDPE 1 mil No herbicide	9 a-g	13 b-f	5 b-f	9 c-h	4 d-h	14 abc	6 a-d
10	3 way LDPE 1 mil Dual Magnum Command	10 a-f	14 b-f	6 b-f	11 b-g	4 b-g	20 abc	9 abc
		12 OZ/A						
		2 PT/A						
11	No fumigant Metalized 1.3 mil No herbicide	11 a-e	18 a-d	7 a-d	8 d-h	3 e-h	14 abc	6 bcd
12	No fumigant Metalized 1.3 mil Dual Magnum Command	8 c-i	10 c-f	4 def	7 e-h	3 e-h	14 abc	6 bcd
		12 OZ/A						
		2 PT/A						
13	MIDAS 175 lb Metalized 1.3 mil No herbicide	11 a-d	15 a-f	6 b-f	6 fgh	2 gh	23 ab	9 abc

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Pest Code	harv 4 CPSAN BVSO	harv 5 CPSAN BVSO	harv 5 CPSAN BVSO	harv 6 CPSAN BVSO	harv 6 CPSAN BVSO	harv 7 CPSAN BVSO	harv 7 CPSAN BVSO
Crop Code							
BBCH Scale							
Description							
Part Rated	Jumbo					Jumbo	Jumbo
Rating Date	Oct-18-06	Oct-26-06	Oct-26-06	Nov-02-06	Nov-02-06	Nov-13-06	Nov-13-06
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	#	wt/lb
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	per plot	per plot
Assessed By	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit
Days After First/Last Applic.	91	99	99	106	106	117	117
Trt-Eval Interval	91 DA-A	99 DA-A	99 DA-A	106 DA-A	106 DA-A	117 DA-A	117 DA-A
ARM Action Codes							
Trt No.	53	54	55	56	57	58	59
Treatment Name							
Rate							
Unit							
14 MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	13 a	17 a-e	5 b-f	10 c-g	4 b-g	16 abc	6 a-d
15 MB 175 lb Metalized 1.3 mil No herbicide	12 abc	20 abc	8 ab	9 c-h	4 d-h	18 abc	6 bcd
16 MB 175 lb Metalized 1.3 mil Dual Magnum Command	9 a-h	15 b-f	6 a-f	10 c-g	4 c-h	20 abc	9 abc
17 DMDS 56 G Metalized 1.3 mil No herbicide	13 ab	24 a	10 a	12 b-f	5 b-f	21 ab	9 abc
18 DMDS 56 G Metalized 1.3 mil Dual Magnum Command	11 a-e	15 b-f	6 b-f	11 b-g	4 b-g	20 abc	9 abc
19 3 way Metalized 1.3 mil No herbicide	8 a-i	12 b-f	5 b-f	11 b-g	5 b-g	24 a	10 ab
20 3 way Metalized 1.3 mil Dual Magnum Command	9 a-h	21 ab	8 abc	9 c-h	4 d-h	20 abc	8 a-d
21 No fumigant VIF 1.5 mil No herbicide	4 ghi	6 f	2 f	3 h	1 h	7 c	3 d
22 No fumigant VIF 1.5 mil Dual Magnum Command	4 hi	11 b-f	4 b-f	5 gh	2 gh	15 abc	6 a-d
23 MIDAS 175 lb VIF 1.5 mil No herbicide	5 f-i	12 b-f	5 b-f	15 a-d	6 a-d	19 abc	7 a-d
24 MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	4 ghi	18 a-d	7 a-d	19 a	8 a	26 a	12 a
25 MB 175 lb VIF 1.5 mil No herbicide	6 e-i	19 a-d	7 a-e	9 c-h	4 d-h	20 abc	8 a-d

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Pest Code	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7		
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN		
BBCH Scale	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO		
Description									
Part Rated	Jumbo					Jumbo	Jumbo		
Rating Date	Oct-18-06	Oct-26-06	Oct-26-06	Nov-02-06	Nov-02-06	Nov-13-06	Nov-13-06		
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	#	wt/lb		
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	per plot	per plot		
Assessed By	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit	Jumbo Fruit		
Days After First/Last Applic.	91	99	99	106	106	117	117		
Trt-Eval Interval	91 DA-A	99 DA-A	99 DA-A	106 DA-A	106 DA-A	117 DA-A	117 DA-A		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
53									
26	MB 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	4 hi	14 b-f	5 b-f	9 c-h	4 d-h	25 a	11 ab
27	DMDS 56 G VIF 1.5 mil No herbicide		3 i	17 a-e	6 a-e	14 a-e	5 a-e	20 abc	9 abc
28	DMDS 56 G VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	4 hi	13 b-f	5 b-f	12 b-g	5 b-g	24 a	11 ab
29	3 way VIF 1.5 mil No herbicide		5 f-i	18 a-d	7 a-e	11 b-g	5 b-g	22 ab	9 ab
30	3 way VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	8 b-i	12 b-f	5 b-f	17 ab	7 ab	21 ab	8 abc
LSD (P=.05)			4.4	7.9	3.2	5.7	2.2	11.0	4.5
Standard Deviation			2.7	4.9	2.0	3.5	1.3	6.7	2.8
CV			34.61	33.52	34.71	35.11	32.58	35.53	35.13
Bartlett's X2			42.544	22.73	25.209	33.519	34.534	35.035	27.391
P(Bartlett's X2)			0.05	0.789	0.667	0.257	0.22	0.203	0.551

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

University of Georgia

Pest Code	harv 7	harv 7	harv 7	harv 7	harv 7	harv 7	harv 7	harv 7	harv 7	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
BBCH Scale	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	
Description										
Part Rated	Large	Large	Small	Small	Cull	Cull	Jumbo	Jumbo	Jumbo	
Rating Date	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	
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	per plot	per plot	
Assessed By	Large Fruit	Large Fruit	Med Fruit	Med Fruit	Small Fruit	Small fruit	Jumbo fruit	Jumbo fruit	Jumbo fruit	
Days After First/Last Applic.	117	117	117	117	117	117	117	117	117	
Trt-Eval Interval	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	
ARM Action Codes							T2	T2	T3	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
Treatment Name	Rate	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
60										
61										
62										
63										
64										
65										
66										
67										
1	No fumigant LDPE 1 mil No herbicide	15 d	5 e	66 efg	8 e	21 bcd	3 de	36 h-k	14 g-j	
2	No fumigant LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	16 cd	6 b-e	71 d-g	10 cde	22 bcd	4 b-e	30 ijk	12 hij
3	MIDAS 350 lb LDPE 1 mil No herbicide		26 a-d	9 a-e	121 ab	20 a	30 abc	5 a-d	66 a-f	28 a-e
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	17 a-d	5 cde	93 a-g	16 a-d	21 bcd	4 b-e	58 b-h	24 b-g
5	MB 350 lb LDPE 1 mil No herbicide		25 a-d	9 a-e	90 a-g	14 a-e	29 abc	5 a-d	68 a-e	29 abc
6	MB 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	24 a-d	8 a-e	86 a-g	12 b-e	31 ab	6 abc	69 a-e	29 abc
7	DMDS 74 G LDPE 1 mil No herbicide		30 a	10 a-d	101 a-f	15 a-e	29 abc	5 a-e	67 a-e	29 abc
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	29 abc	10 ab	100 a-f	16 abc	37 a	7 a	57 b-h	24 a-g
9	3 way LDPE 1 mil No herbicide		30 a	11 a	94 a-g	15 a-d	36 a	6 ab	65 a-f	26 a-f
10	3 way LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A	30 ab	10 a-d	110 a-d	17 ab	26 a-d	5 a-e	63 a-g	25 a-f
11	No fumigant Metalized 1.3 mil No herbicide		16 bcd	5 de	73 d-g	10 cde	17 cd	3 de	48 d-i	19 d-i
12	No fumigant Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	25 a-d	9 a-e	87 a-g	12 a-e	21 bcd	4 b-e	56 b-h	22 b-g
13	MIDAS 175 lb Metalized 1.3 mil No herbicide		28 a-d	9 a-e	98 a-g	13 a-e	30 abc	5 a-d	72 abc	29 a-d

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Pest Code	harv 7 CPSAN	harv 7 CPSAN	harv 7 CPSAN	harv 7 CPSAN	harv 7 CPSAN	harv 7 CPSAN	harv1-3 CPSAN	harv1-3 CPSAN		
Crop Code	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO		
BBCH Scale										
Description										
Part Rated	Large	Large	Small	Small	Cull	Cull	Jumbo	Jumbo		
Rating Date	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06		
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	per plot		
Assessed By	Large Fruit	Large Fruit	Med Fruit	Med Fruit	Small Fruit	Small fruit	Jumbo fruit	Jumbo fruit		
Days After First/Last Applic.	117	117	117	117	117	117	117	117		
Trt-Eval Interval	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A		
ARM Action Codes							T2	T3		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		60	61	62	63	64	65	66		
14	MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	28 a-d	9 a-e	94 a-g	14 a-e	25 a-d	4 b-e	71 a-d	28 a-e
15	MB 175 lb Metalized 1.3 mil No herbicide		26 a-d	9 a-e	108 a-e	15 a-e	27 a-d	5 a-d	69 a-e	27 a-e
16	MB 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	30 a	10 abc	115 abc	15 a-e	28 a-d	4 b-e	73 abc	30 ab
17	DMDS 56 G Metalized 1.3 mil No herbicide		26 a-d	9 a-e	108 a-e	15 a-d	30 abc	6 abc	78 ab	31 ab
18	DMDS 56 G Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	30 ab	10 abc	106 a-e	15 a-d	18 bcd	3 b-e	82 a	31 ab
19	3 way Metalized 1.3 mil No herbicide		25 a-d	8 a-e	90 a-g	14 a-e	31 ab	5 a-d	86 a	34 a
20	3 way Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A	19 a-d	6 b-e	89 a-g	15 a-d	29 abc	5 a-d	74 ab	30 ab
21	No fumigant VIF 1.5 mil No herbicide		18 a-d	6 b-e	57 g	8 e	15 d	2 e	17 k	6 j
22	No fumigant VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	18 a-d	6 b-e	63 fg	9 de	17 cd	3 de	14 k	5 j
23	MIDAS 175 lb VIF 1.5 mil No herbicide		21 a-d	7 a-e	81 b-g	11 b-e	22 bcd	4 a-e	41 g-j	16 f-i
24	MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	21 a-d	7 a-e	68 d-g	9 de	28 a-d	5 a-e	22 jk	9 ij
25	MB 175 lb VIF 1.5 mil No herbicide		20 a-d	6 b-e	93 a-g	14 a-e	25 a-d	4 b-e	46 e-i	19 e-i

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Pest Code	harv 7	harv 7	harv 7	harv 7	harv 7	harv 7	harv1-3	harv1-3		
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN		
BBCH Scale	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO	BVSO		
Description										
Part Rated	Large	Large	Small	Small	Cull	Cull	Jumbo	Jumbo		
Rating Date	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06	Nov-13-06		
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	per plot		
Assessed By	Large Fruit	Large Fruit	Med Fruit	Med Fruit	Small Fruit	Small fruit	Jumbo fruit	Jumbo fruit		
Days After First/Last Applic.	117	117	117	117	117	117	117	117		
Trt-Eval Interval	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A		
ARM Action Codes							T2	T3		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
Trt No.	Treatment Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit		
60										
61										
62										
63										
64										
65										
66										
67										
26	MB 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	23 a-d	7 a-e	84 a-g	11 b-e	26 a-d	4 b-e	41 g-j	17 f-i
27	DMDS 56 G VIF 1.5 mil No herbicide		24 a-d	7 a-e	74 c-g	11 b-e	24 a-d	4 a-e	55 b-h	23 b-g
28	DMDS 56 G VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	16 bcd	6 b-e	74 c-g	10 b-e	18 bcd	4 b-e	43 f-j	18 e-i
29	3 way VIF 1.5 mil No herbicide		23 a-d	7 a-e	126 a	14 a-e	21 bcd	3 cde	50 c-i	20 c-h
30	3 way VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	22 a-d	7 a-e	110 a-d	14 a-e	29 abc	4 a-e	29 ijk	11 hij
LSD (P=.05)			11.3	3.7	34.3	6.0	10.9	2.3	19.5	8.5
Standard Deviation			6.9	2.3	21.0	3.7	6.7	1.4	11.9	5.2
CV			29.41	29.31	23.06	28.39	26.25	32.48	21.72	23.49
Bartlett's X2			35.431	30.667	16.408	43.251	33.396	28.748	39.845	33.198
P(Bartlett's X2)			0.191	0.381	0.971	0.043*	0.262	0.478	0.087	0.27

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

Column 60: T2 = [C46]+[C48]+[C50]

Column 61: T3 = [C47]+[C49]+[C51]

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Trt No.	Treatment Name	Rate	Unit	68	69
1	No fumigant LDPE 1 mil No herbicide			80 gh	33 hi
2	No fumigant LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		78 gh	32 hi
3	MIDAS 350 lb LDPE 1 mil No herbicide			124 b-f	51 a-g
4	MIDAS 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		110 c-g	46 b-h
5	MB 350 lb LDPE 1 mil No herbicide			132 a-f	56 a-f
6	MB 350 lb LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		141 a-d	59 a-d
7	DMDS 74 G LDPE 1 mil No herbicide			122 b-f	52 a-g
8	DMDS 74 G LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		128 a-f	53 a-g
9	3 way LDPE 1 mil No herbicide			123 b-f	51 a-g
10	3 way LDPE 1 mil Dual Magnum Command	12 OZ/A 2 PT/A		131 a-f	54 a-g
11	No fumigant Metalized 1.3 mil No herbicide			115 b-g	46 b-h
12	No fumigant Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		106 c-g	42 d-h
13	MIDAS 175 lb Metalized 1.3 mil No herbicide			144 abc	57 a-f

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Pest Code	harv1-7	harv1-7			
Crop Code	CPSAN	CPSAN			
BBCH Scale	BVSO	BVSO			
Description	Total Fruit	Total Fruit			
Part Rated					
Rating Date	Nov-13-06	Nov-13-06			
Rating Data Type	#	wt/lb			
Rating Unit	per plot	per plot			
Assessed By	Jumbo fruit	Jumbo fruit			
Days After First/Last Applic.	117	117			
Trt-Eval Interval	117 DA-A	117 DA-A			
ARM Action Codes	T4	T5			
Trt No.	Treatment Name	Rate	Unit	68	69
14	MIDAS 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		147 abc	58 a-e
15	MB 175 lb Metalized 1.3 mil No herbicide			145 abc	57 a-f
16	MB 175 lb Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		140 a-e	57 a-f
17	DMDS 56 G Metalized 1.3 mil No herbicide			168 a	67 a
18	DMDS 56 G Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		154 ab	61 abc
19	3 way Metalized 1.3 mil No herbicide			154 ab	62 ab
20	3 way Metalized 1.3 mil Dual Magnum Command	12 OZ/A 2 PT/A		145 abc	58 a-d
21	No fumigant VIF 1.5 mil No herbicide			45 h	17 i
22	No fumigant VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A		55 h	21 i
23	MIDAS 175 lb VIF 1.5 mil No herbicide			99 efg	40 fgh
24	MIDAS 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A		97 fg	40 e-h
25	MB 175 lb VIF 1.5 mil No herbicide			110 c-g	44 c-h

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Pest Code	harv1-7	harv1-7
Crop Code	CPSAN	CPSAN
BBCH Scale	BVSO	BVSO
Description	Total Fruit	Total Fruit
Part Rated		
Rating Date	Nov-13-06	Nov-13-06
Rating Data Type	#	wt/lb
Rating Unit	per plot	per plot
Assessed By	Jumbo fruit	Jumbo fruit
Days After First/Last Applic.	117	117
Trt-Eval Interval	117 DA-A	117 DA-A
ARM Action Codes	T4	T5
Trt No.		
Treatment Name		
Rate		
Rate Unit		
68		69
26 MB 175 lb VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 efg 40 e-h
27 DMDS 56 G VIF 1.5 mil No herbicide		114 b-g 47 b-h
28 DMDS 56 G VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	101 d-g 42 d-h
29 3 way VIF 1.5 mil No herbicide		114 b-g 46 b-h
30 3 way VIF 1.5 mil Dual Magnum Command	12 OZ/A 2 PT/A	99 efg 38 gh
LSD (P=.05)	34.5	14.4
Standard Deviation	21.1	8.8
CV	17.98	18.59
Bartlett's X2	26.503	22.489
P(Bartlett's X2)	0.598	0.799

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

Column 62: T4 = [C46]+[C48]+[C50]+[C52]+[C54]+[C56]+[C58]

Column 63: T5 = [C47]+[C49]+[C51]+[C53]+[C55]+[C57]+[C59]

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Comparing methyl bromide alternatives for nutsedge control and pepper yield during the fall of 2006.

Trial ID: Veg65-06
 Location: Ponder

Protocol ID:
 Study Director: Stanley Culpepper
 Investigator: Stanley Culpepper

General Trial Information

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794 **E-mail:** _____

Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794 **E-mail:** _____

Keywords:

Trial Location

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31794 **Initiation Date:** Jul-19-06
Country: USA **Planned Completion Date:** _____
 _ -Latitude of LL Corner °: _____ _ -Longitude of LL Corner °: _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Map Reference: _____
Directions:

Conducted Under GLP: _ **Official Trial Code:** _____
Conducted Under GEP: _ **Other Trial Code:** _____

	Guideline	Description
1.		

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: _____ **Country:** _____
Organization: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____ **E-mail:** _____

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Crop Description	
Crop 1: CPSAN Capsicum annuum	Bell pepper
Variety: Stilleto	Description: _____
BBCH Scale: BVSO	Planting Date: Aug-04-06
Planting Method: transplant	Rate, Unit: 1 12 inch
Depth, Unit: 1 in	Perennial Age, Unit: _____
Row Spacing, Unit: 15 inch	Spacing Within Row, Unit: 12 inch
Seed Bed: bedded/mulch	Soil Temperature, Unit: 104 F
Soil Moisture: drip	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	

Pest Description	
Pest 1 Type: W Code: CYPRO	yellow nutsedge
Common Name: Cyperus rotundus	
Description: _____	

Site and Design			
Plot Width, Unit: 6	FT	Site Type:	Research station
Plot Length, Unit: 30	FT	Tillage Type:	Conventional
Replications: 3		Study Design:	Factorial
% Slope: _____		Soil Drainage: _	_____

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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

Comment:

Field Prep./Maintenance:

Soil Description			
Description Name: _____			
% Sand: 94	% OM: 1.3	Texture:	sand
% Silt: 2	pH: 6.4	Soil Name:	Tifton sandy loam
% Clay: 4	CEC: _____	Fert. Level:	_____
Analyzed By: _____			

Additional Measured Elements		
Element	Quantity	Unit

Moisture Conditions		
Overall Moisture Conditions:	excellent, drip irrigation	
Closest Weather Station: _____	Distance: _____	Unit: _____

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	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Application Description

	A
Application Date:	Jul-19-06
Time of Day:	all day
Application Method:	in bed
Application Timing:	preplant
Application Placement:	in bed
Applied By:	
Air Temperature, Unit:	88 F
% Relative Humidity:	74
Wind Velocity, Unit:	2 mph
Wind Direction:	
Dew Presence (Y/N):	N
Water Hardness:	
Soil Temperature, Unit:	90 F
Soil Moisture:	moist
% Cloud Cover:	20
Next Rain Occurred On:	

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CPSAN BVSO
Stage Scale Used:	BBCH
Stage Majority, Percent:	not plan 100
Stage Minimum, Percent:	not plan 100
Stage Maximum, Percent:	not plan 100
Diameter, Unit:	0 in
Height, Unit:	0 in
Height Minimum, Maximum:	0 0

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	CYPRO W
Stage Majority, Percent:	not up 100
Stage Minimum, Percent:	not up 100
Stage Maximum, Percent:	not up 100
Diameter, Unit:	0 in
Height, Unit:	0 in
Height Minimum, Maximum:	0 0
Density, Unit:	0. .
Coverage, Unit:	0. .

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Application Equipment

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

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

Date By Deviations

Reasons: