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Tomato, pepper, eggplant, and watermelon response to Eptam.

Trial ID: Veg12-08 Study Dir.: Wallace, Culpepper
 Location: Ponder Farm Investigator: Stanley Culpepper

Reps: 3 Plots: 3 by 100 feet
 Spray vol: 24 gal/ac Mix size: 1 liters (min 1.8771)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Grow Unit	Appl Stg	Amt to Measure	Plot No. By Rep		
									1	2	3
1	PicChlor 60 21 G LDPE Mulch No herbicide								101	201	301
2	PicChlor 60 21 G LDPE Mulch Eptam	7		L	2	PT/A	preplant A	10.42 ml/mx	102	208	307
3	PicChlor 60 21 G LDPE Mulch Eptam	7		L	3	PT/A	preplant A	15.62 ml/mx	103	204	306
4	PicChlor 60 21 G LDPE Mulch Eptam	7		L	4	PT/A	preplant A	20.83 ml/mx	104	203	302
5	PicChlor 60 21 G Blockade Mulch No herbicide								105	205	308
6	PicChlor 60 21 G Blockade Mulch Eptam	7		L	2	PT/A	preplant A	10.42 ml/mx	106	207	305
7	PicChlor 60 21 G Blockade Mulch Eptam	7		L	3	PT/A	preplant A	15.62 ml/mx	107	202	304
8	PicChlor 60 21 G Blockade Mulch Eptam	7		L	4	PT/A	preplant A	20.83 ml/mx	108	206	303

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
117.175	ml	Eptam	7	L	

- * 'Per area' calculations based on spray volume= 24 gal/ac, mix size= 1 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine pepper, tomato, eggplant and watermelon response to Eptam applied under LDPE and Blockade Mulch.

Nutsedge:

1. Nutsedge infestations were very light with less than 15 plants in any plot. However, there was a trend for little control when Eptam was applied under LDPE mulch compared to excellent control when under Blockade mulch.

Visual Crop Injury:

1. Bell pepper injury was severe (>80% at harvest) with Eptam applied under Blockade mulch. No injury was noted with Eptam at 2 pt/A under LDPE mulch. Eptam under LDPE mulch at 3 or 4 pt/A caused up to 12 and 17% injury, respectively.
2. Tomato and eggplant injury was severe (30 to 80% at harvest) with Eptam applied under Blockade mulch. No significant injury was noted with Eptam under LDPE mulch.

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3. Mid-season watermelon injury was severe (18 to 44%) with Eptam applied under Blockade mulch; however, watermelon tended to recover with less than 20% injury at harvest. No injury was noted with Eptam applied under LDPE mulch.

Plant heights (10 plants per plot measured; except for 7 plants in watermelon):

1. During early May, Eptam applied under LDPE mulch did not impact pepper growth. Eptam applied under Blockade mulch reduced pepper growth at least 96%.
2. During early May, Eptam applied under LDPE mulch did not impact tomato growth. Eptam applied at 2, 3, or 4 pt/A under Blockade mulch reduced heights 14, 28, and 54% respectively.
3. During early May, Eptam applied under LDPE mulch did not impact eggplant growth. Eptam applied at 2, 3, or 4 pt/A under Blockade mulch reduced heights 13, 35, and 43% respectively.
4. During later April, Eptam applied under LDPE mulch did not impact watermelon growth. Eptam applied at 2, 3, or 4 pt/A under Blockade mulch reduced runner lengths 24, 34, and 42% respectively.

Pepper Yield:

1. Jumbo and X-Large fruit were harvested once a week for three consecutive weeks.
2. Eptam applied under LDPE mulch did not reduce yields. Eptam applied at 2, 3, or 4 pt/A under blockade mulch reduced fruit number and weights at least 98%.

Tomato Yield:

1. Tomato fruit was harvested and graded seven times.
2. Eptam did not impact the number of fruit or their weights for any fruit size when applied under LDPE mulch. In contrast, all rates of Eptam under Blockade mulch reduced X-large and large fruit yields. Eptam at 3 or 4 pt/A under Blockade mulch also reduced medium fruit while 4 pt/A of Eptam under Blockade mulch also reduced small fruit production. When combining all fruit sizes and the seven harvests, Eptam at 2, 3, and 4 pt/A applied under Blockade mulch reduced fruit number produced by 45, 82, and 97%, respectively.

Eggplant Yield:

1. Eggplant were harvested nine times.
2. Eggplant yields were not impacted statistically. There was a clear trend for lower yields with Eptam at 4 pt/A applied under VIF mulch.

Watermelon Yield:

1. Watermelon was harvested three times.
2. Yields were not impacted by any treatment.

CONCLUSIONS:

1. Eggplant and watermelon have a greater ability to recover from Eptam injury than does tomato.
2. Pepper is more sensitive to Eptam than is tomato.
3. Eptam can be used under LDPE mulch for all of these crops in Georgia. The real question is how much weed control will actually be observed with Eptam under LDPE mulch?

GENERAL COMMENTS:

1. Pic Chlor 60 was applied over the trial area to remove nematodes and diseases.

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Tomato, pepper, eggplant, and watermelon response to Eptam.

Trial ID: Veg12-08
 Location: Ponder Farm

Study Dir.: Wallace, Culpepper
 Investigator: Stanley Culpepper

Weed Code	CYPES All	CYPES All	CPSAN Foliar C	CPSAN Foliar C	CPSAN Foliar C	CPSAN Foliar C	CPSAN Foliar C	LYPES Foliar C			
Crop Code			Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury			
Part Rated			%	%	%	%	%	%			
Rating Data Type	COUPLA	COUPLA	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury			
Rating Unit	NUMBER	NUMBER	%	%	%	%	%	%			
Rating Date	Apr-11-08	May-06-08	Apr-11-08	Apr-16-08	Apr-30-08	May-06-08	May-20-08	Apr-11-08			
Trt-Eval Interval	44 DA-A	69 DA-A	44 DA-A	49 DA-A	63 DA-A	69 DA-A	83 DA-A	44 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	1	2	4	5	6	7	8	9
1	PicChlor 60 21 G LDPE Mulch No herbicide			5 a	6 a	0 b	0 c	0 b	0 b	0 c	0 c
2	PicChlor 60 21 G LDPE Mulch Eptam	2	PT/A	4 a	6 a	3 b	0 c	1 b	8 b	0 c	0 c
3	PicChlor 60 21 G LDPE Mulch Eptam	3	PT/A	2 a	5 a	3 b	0 c	5 b	12 b	0 c	0 c
4	PicChlor 60 21 G LDPE Mulch Eptam	4	PT/A	5 a	4 a	7 b	0 c	9 b	17 b	7 c	0 c
5	PicChlor 60 21 G Blockade Mulch No herbicide			3 a	1 a	0 b	0 c	7 b	8 b	0 c	0 c
6	PicChlor 60 21 G Blockade Mulch Eptam	2	PT/A	0 a	1 a	40 a	38 b	95 a	90 a	80 b	27 b
7	PicChlor 60 21 G Blockade Mulch Eptam	3	PT/A	0 a	0 a	37 a	45 a	98 a	93 a	90 ab	37 a
8	PicChlor 60 21 G Blockade Mulch Eptam	4	PT/A	0 a	0 a	37 a	45 a	99 a	97 a	91 a	43 a
LSD (P=.05)				5.4	6.3	9.1	4.1	11.1	15.7	10.4	8.7
Standard Deviation				3.1	3.6	5.2	2.3	6.3	9.0	6.0	4.9
CV				130.1	119.55	32.69	14.63	16.2	22.13	17.83	37.05
Bartlett's X2				9.059	11.17	2.054	0.653	8.416	8.903	1.397	1.313
P(Bartlett's X2)				0.107	0.083	0.842	0.721	0.135	0.113	0.497	0.519

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

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Weed Code	LYPES	LYPES	LYPES	LYPES	SOLME	SOLME	SOLME	SOLME	
Crop Code	Foliar C	Foliar C	Foliar C	Foliar C	Foliar C	Foliar C	Foliar C	Foliar C	
Part Rated	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	
Rating Data Type	%	%	%	%	%	%	%	%	
Rating Unit	Apr-16-08	Apr-30-08	May-06-08	May-20-08	Apr-11-08	Apr-16-08	Apr-30-08	May-06-08	
Rating Date	49 DA-A	63 DA-A	69 DA-A	83 DA-A	44 DA-A	49 DA-A	63 DA-A	69 DA-A	
Trt-Eval Interval	ARM Action Codes								
Trt Treatment	Rate								
No. Name	Rate Unit	10	11	12	13	14	15	16	17
1 PicChlor 60 21 G LDPE Mulch No herbicide		0 c	0 d	0 d	0 d	0 b	0 c	0 c	0 c
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	0 c	3 d	3 d	3 d	0 b	2 c	2 c	3 c
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	0 c	2 d	7 d	0 d	3 b	0 c	3 c	3 c
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	0 c	2 d	5 d	3 d	0 b	0 c	2 c	0 c
5 PicChlor 60 21 G Blockade Mulch No herbicide		0 c	2 d	3 d	3 d	0 b	0 c	2 c	0 c
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	30 b	40 c	43 c	40 c	7 b	15 b	23 b	28 b
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	45 a	75 b	75 b	60 b	33 a	32 a	53 a	47 a
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	52 a	92 a	90 a	77 a	37 a	38 a	62 a	47 a
LSD (P=.05)		11.0	16.4	9.2	11.7	7.3	12.3	12.4	6.7
Standard Deviation		6.3	9.4	5.3	6.7	4.2	7.0	7.1	3.8
CV		39.66	34.92	18.62	28.68	41.55	64.59	38.63	23.93
Bartlett's X2		2.267	21.878	0.716	1.323	0.0	4.186	11.514	1.043
P(Bartlett's X2)		0.322	0.001*	0.982	0.933	1.00	0.242	0.074	0.903

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Weed Code	SOLME	CITLA	CITLA	CITLA	CITLA	CITLA	AVG10PLA	AVG10PLA	
Crop Code	Foliar C	Foliar C	Foliar C	Foliar C	Foliar C	Foliar C	CPSAN	CPSAN	
Part Rated	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Herb Injury	Plant C	Plant C	
Rating Data Type	%	%	%	%	%	%	Height	Height	
Rating Unit	CM	CM	CM	CM	CM	CM	CM	CM	
Rating Date	May-20-08	Apr-11-08	Apr-16-08	Apr-30-08	May-06-08	May-20-08	Apr-11-08	Apr-23-08	
Trt-Eval Interval	83 DA-A	44 DA-A	49 DA-A	63 DA-A	69 DA-A	83 DA-A	44 DA-A	56 DA-A	
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
1	PicChlor 60 21 G LDPE Mulch No herbicide	0 c	0 c	0 d	0 d	0 b	0 c	18 ab	21 a
2	PicChlor 60 21 G LDPE Mulch Eptam	7 c	0 c	2 d	0 d	3 b	0 c	18 a	22 a
3	PicChlor 60 21 G LDPE Mulch Eptam	7 c	0 c	0 d	1 d	5 b	0 c	18 a	22 a
4	PicChlor 60 21 G LDPE Mulch Eptam	3 c	7 c	0 d	0 d	8 b	0 c	18 a	22 a
5	PicChlor 60 21 G Blockade Mulch No herbicide	3 c	0 c	0 d	2 d	0 b	0 c	18 ab	21 a
6	PicChlor 60 21 G Blockade Mulch Eptam	33 b	23 b	18 c	12 c	22 a	10 b	16 bc	16 b
7	PicChlor 60 21 G Blockade Mulch Eptam	50 a	30 ab	28 b	21 b	25 a	7 b	15 c	14 c
8	PicChlor 60 21 G Blockade Mulch Eptam	57 a	37 a	43 a	29 a	33 a	17 a	15 c	13 c
LSD (P=.05)		9.1	9.3	8.9	4.3	12.5	4.7	1.5	1.6
Standard Deviation		5.2	5.3	5.1	2.4	7.1	2.7	0.9	0.9
CV		25.88	43.77	44.15	29.8	58.87	64.14	5.19	4.8
Bartlett's X2		0.0	1.313	2.659	3.767	2.251	0.0	4.194	6.732
P(Bartlett's X2)		0.001*	0.519	0.447	0.438	0.813	1.00	0.757	0.457

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Weed Code	AVG10PLA	AVG10PLA	AVG10PLA	AVG10PLA	AVG10PLA	AVG10PLA	AVG10PLA	AVG10PLA									
Crop Code	CPSAN	LYPES	LYPES	LYPES	SOLME	SOLME	SOLME	CITLA									
Part Rated	Plant C	Plant C	Plant C	Plant C	Plant C	Plant C	Plant C	Plant C									
Rating Data Type	Height	Height	Height	Height	Height	Height	Height	Height									
Rating Unit	CM	CM	CM	CM	CM	CM	CM	CM									
Rating Date	May-06-08	Apr-11-08	Apr-23-08	May-06-08	Apr-11-08	Apr-23-08	May-06-08	Apr-11-08									
Trt-Eval Interval	69 DA-A	44 DA-A	56 DA-A	69 DA-A	44 DA-A	56 DA-A	69 DA-A	44 DA-A									
ARM Action Codes																	
Trt No.	Treatment Name	Rate	Unit	27	28	29	30	31	32	33	34						
1	PicChlor 60 21 G LDPE Mulch No herbicide	34	a	19	ab	28	a	28	a	16	a	20	ab	51	a	18	ab
2	PicChlor 60 21 G LDPE Mulch Eptam	35	a	19	ab	29	a	29	a	15	ab	20	ab	51	a	22	a
			2 PT/A														
3	PicChlor 60 21 G LDPE Mulch Eptam	36	a	20	a	29	a	29	a	15	ab	20	ab	50	a	20	a
			3 PT/A														
4	PicChlor 60 21 G LDPE Mulch Eptam	35	a	19	ab	29	a	29	a	16	a	20	a	50	a	18	ab
			4 PT/A														
5	PicChlor 60 21 G Blockade Mulch No herbicide	34	a	19	ab	28	a	28	a	15	abc	19	abc	50	a	18	ab
6	PicChlor 60 21 G Blockade Mulch Eptam	2	b	16	bc	24	b	24	b	14	bc	18	bcd	43	b	14	bc
			2 PT/A														
7	PicChlor 60 21 G Blockade Mulch Eptam	1	b	14	cd	20	c	20	c	14	bc	17	cd	32	c	13	bc
			3 PT/A														
8	PicChlor 60 21 G Blockade Mulch Eptam	1	b	13	d	13	d	13	d	14	c	17	d	29	c	11	c
			4 PT/A														
LSD (P=.05)		2.9		2.8		2.2		2.2		1.1		1.8		6.2		5.5	
Standard Deviation		1.7		1.6		1.2		1.2		0.6		1.0		3.5		3.2	
CV		7.6		9.12		4.97		4.97		4.4		5.5		7.96		18.84	
Bartlett's X2		9.316		4.306		14.557		14.557		8.182		4.513		7.752		16.765	
P(Bartlett's X2)		0.231		0.744		0.042*		0.042*		0.317		0.719		0.355		0.019*	

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

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Weed Code	AVG10PLA	AVG10PLA	Harvest1	Harvest1	Harvest2	Harvest2	Harvest3	
Crop Code	CITLA	CITLA	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Part Rated	Plant C	Plant C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Rating Data Type	Height	WEITES	Jumbo/X-Lar	Jumbo/X-Lar	Jumbo/X-Lar	Jumbo/X-Lar	Jumbo/X-Lar	
Rating Unit	CM	lbs	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Date	Apr-23-08	Apr-29-08	Jun-10-08	Jun-10-08	Jun-17-08	Jun-17-08	Jul-01-08	
Trt-Eval Interval	56 DA-A	62 DA-A	104 DA-A	104 DA-A	111 DA-A	111 DA-A	125 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	35	36	38	39	40	41	
1 PicChlor 60 21 G LDPE Mulch No herbicide		51 a	5 a	130 a	49 a	87 ab	31 ab	14 ab
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	52 a	5 a	151 a	55 a	115 ab	41 ab	23 a
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	53 a	4 abc	136 a	53 a	127 a	45 a	17 ab
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	48 a	4 abc	142 a	51 a	125 a	43 a	24 a
5 PicChlor 60 21 G Blockade Mulch No herbicide		47 a	4 ab	166 a	61 a	72 b	27 b	19 ab
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	37 b	2 c	0 b	0 b	0 c	0 c	5 b
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	32 bc	3 bc	0 b	0 b	0 c	0 c	12 ab
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	28 c	2 c	0 b	0 b	1 c	0 c	4 b
LSD (P=.05)		5.9	1.6	40.7	12.1	43.2	15.0	15.1
Standard Deviation		3.4	0.9	23.3	6.9	24.7	8.6	8.6
CV		7.79	26.49	25.64	20.58	37.43	36.62	58.32
Bartlett's X2		7.754	3.582	14.488	12.436	15.542	20.096	1.777
P(Bartlett's X2)		0.355	0.827	0.013*	0.029*	0.008*	0.001*	0.971

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

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Weed Code	Harvest3	Har1-3	Har1-3	Harvest1	Harvest1	Harvest2	Harvest2								
Crop Code	CPSAN	CPSAN	CPSAN	LYPES	LYPES	LYPES	LYPES								
Part Rated	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C								
Rating Data Type	Jumbo/X-Lar	Jumbo/X-Lar	Jumbo/X-Lar	X-Large	X-Large	X-Large	X-Large								
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot								
Rating Date	Jul-01-08	Jul-01-08	Jul-01-08	May-26-08	May-26-08	Jun-05-08	Jun-05-08								
Trt-Eval Interval	125 DA-A	125 DA-A	125 DA-A	89 DA-A	89 DA-A	99 DA-A	99 DA-A								
ARM Action Codes		T21	T22												
Trt No.	Treatment Name	Rate	Unit	43	45	46	48	49	50	51					
1	PicChlor 60 21 G LDPE Mulch No herbicide	4	ab	231	b	85	b	18	a	8	a	27	ab	12	ab
2	PicChlor 60 21 G LDPE Mulch Eptam	7	a	290	a	104	a	22	a	9	a	41	a	19	a
												2	PT/A		
3	PicChlor 60 21 G LDPE Mulch Eptam	5	ab	279	ab	103	a	18	a	8	a	41	a	18	a
												3	PT/A		
4	PicChlor 60 21 G LDPE Mulch Eptam	8	a	291	a	102	a	22	a	9	a	34	ab	15	ab
												4	PT/A		
5	PicChlor 60 21 G Blockade Mulch No herbicide	6	ab	258	ab	93	ab	19	a	8	a	26	ab	11	ab
6	PicChlor 60 21 G Blockade Mulch Eptam	1	b	5	c	1	c	6	ab	2	ab	15	bc	7	bc
												2	PT/A		
7	PicChlor 60 21 G Blockade Mulch Eptam	3	ab	12	c	3	c	2	b	1	b	2	c	1	c
												3	PT/A		
8	PicChlor 60 21 G Blockade Mulch Eptam	1	b	5	c	1	c	1	b	0	b	0	c	0	c
												4	PT/A		
LSD (P=.05)		4.8		48.7		14.1		14.4		5.7		18.0		7.3	
Standard Deviation		2.7		27.8		8.1		8.2		3.2		10.3		4.2	
CV		60.77		16.23		13.1		61.45		59.38		44.08		39.83	
Bartlett's X2		3.609		13.502		14.204		13.026		14.678		10.625		9.19	
P(Bartlett's X2)		0.824		0.061		0.048*		0.071		0.04*		0.101		0.163	

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

Column 41: T21 = [C38]+[C40]+[C42]
 Column 42: T22 = [C39]+[C41]+[C43]

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Weed Code	Harvest2 LYPES	Harvest2 LYPES	Harvest2 LYPES	Harvest2 LYPES	Harvest2 LYPES	Harvest2 LYPES	Harvest3 LYPES	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	Large Yield	Large Yield	Med Yield	Med Yield	Sm Yield	Sm Yield	X-Large	
Rating Data Type	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Unit	Jun-05-08	Jun-05-08	Jun-05-08	Jun-05-08	Jun-05-08	Jun-05-08	Jun-10-08	
Rating Date	99 DA-A	99 DA-A	99 DA-A	99 DA-A	99 DA-A	99 DA-A	104 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	52	53	54	55	56	57	58
1 PicChlor 60 21 G LDPE Mulch No herbicide		10 ab	3 abc	6 a	2 a	5 ab	1 a	13 a
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	14 a	1 cde	5 ab	1 ab	1 b	0 a	12 a
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	14 a	3 a-d	5 ab	1 a	2 ab	0 a	8 ab
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	14 a	4 a	7 a	2 a	3 ab	1 a	8 ab
5 PicChlor 60 21 G Blockade Mulch No herbicide		15 a	4 ab	7 a	2 a	3 ab	1 a	8 ab
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	12 a	2 b-e	5 ab	1 ab	4 ab	1 a	2 bc
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	3 bc	1 de	6 a	1 ab	8 a	1 a	1 c
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	1 c	0 e	0 b	0 b	1 b	0 a	0 c
LSD (P=.05)		8.6	1.9	5.0	1.2	5.9	1.2	5.6
Standard Deviation		4.9	1.1	2.8	0.7	3.3	0.7	3.2
CV		47.21	48.96	57.45	54.91	99.14	104.34	48.63
Bartlett's X2		10.274	4.887	6.402	5.557	13.97	12.477	7.839
P(Bartlett's X2)		0.174	0.674	0.38	0.475	0.052	0.086	0.25

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

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Weed Code	Harvest3 LYPES	Harvest3 LYPES	Harvest3 LYPES	Harvest3 LYPES	Harvest3 LYPES	Harvest3 LYPES	Harvest3 LYPES	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	X-Large	Large Yield	Large Yield	Med Yield	Med Yield	Sm Yield	Sm Yield	
Rating Data Type	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	
Rating Unit	Jun-10-08	Jun-10-08	Jun-10-08	Jun-10-08	Jun-10-08	Jun-10-08	Jun-10-08	
Rating Date	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	59	60	61	62	63	64	65
1 PicChlor 60 21 G LDPE Mulch No herbicide		5 a	3 ab	1 ab	4 ab	1 ab	2 abc	0 bcd
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	5 ab	5 a	2 a	5 a	1 a	4 a	1 a
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	3 b	3 ab	1 ab	3 ab	1 ab	4 ab	1 ab
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	4 ab	4 ab	1 ab	3 ab	1 ab	1 bc	0 d
5 PicChlor 60 21 G Blockade Mulch No herbicide		4 ab	5 a	2 a	2 ab	0 ab	2 abc	0 cd
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	1 c	6 a	2 a	3 ab	1 ab	4 a	1 ab
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	0 c	0 b	0 b	1 ab	0 ab	4 ab	1 abc
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	0 c	1 b	0 b	0 b	0 b	0 c	0 d
LSD (P=.05)		2.1	3.1	1.0	3.3	0.9	2.4	0.3
Standard Deviation		1.2	1.8	0.6	1.9	0.5	1.4	0.2
CV		42.65	53.5	55.65	71.99	81.58	49.99	46.99
Bartlett's X2		8.451	6.708	9.696	6.565	10.507	5.484	5.153
P(Bartlett's X2)		0.207	0.46	0.206	0.476	0.162	0.36	0.524

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

University of Georgia

Weed Code	Harvest4 LYPES	Harvest4 LYPES	Harvest4 LYPES	Harvest4 LYPES	Harvest4 LYPES	Harvest4 LYPES	Harvest4 LYPES			
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C			
Part Rated	Jumbo Yield	Jumbo Yield	Large Yield	Large Yield	Med Yield	Med Yield	Sm Yield			
Rating Data Type	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Unit	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08			
Rating Date	110 DA-A	110 DA-A	110 DA-A	110 DA-A	110 DA-A	110 DA-A	110 DA-A			
Trt-Eval Interval	ARM Action Codes									
ARM Action Codes										
Trt No.	Treatment Name	Rate	Unit	66	67	68	69	70	71	72
1	PicChlor 60 21 G LDPE Mulch No herbicide			44 a	23 a	17 ab	6 b	6 a	1 ab	8 ab
2	PicChlor 60 21 G LDPE Mulch Eptam	2	PT/A	44 a	21 a	17 b	6 b	9 a	2 ab	10 a
3	PicChlor 60 21 G LDPE Mulch Eptam	3	PT/A	41 a	20 a	18 ab	7 ab	11 a	3 a	6 abc
4	PicChlor 60 21 G LDPE Mulch Eptam	4	PT/A	35 a	17 a	19 ab	7 ab	8 a	2 ab	8 ab
5	PicChlor 60 21 G Blockade Mulch No herbicide			42 a	21 a	24 a	9 a	10 a	3 ab	9 ab
6	PicChlor 60 21 G Blockade Mulch Eptam	2	PT/A	11 b	6 b	6 c	2 c	8 a	2 ab	13 a
7	PicChlor 60 21 G Blockade Mulch Eptam	3	PT/A	0 b	0 b	1 c	1 c	1 a	0 ab	2 bc
8	PicChlor 60 21 G Blockade Mulch Eptam	4	PT/A	0 b	0 b	0 c	0 c	0 a	0 b	0 c
LSD (P=.05)				13.2	6.2	6.2	2.2	10.5	2.7	6.7
Standard Deviation				7.5	3.5	3.5	1.3	6.0	1.6	3.8
CV				27.82	25.92	27.84	27.0	90.47	90.98	54.59
Bartlett's X2				8.357	10.347	9.181	6.798	11.984	15.618	3.192
P(Bartlett's X2)				0.213	0.111	0.164	0.34	0.062	0.016*	0.784

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

University of Georgia

Weed Code	Harvest4 LYPES	Harvest5 LYPES	Harvest5 LYPES	Harvest5 LYPES	Harvest5 LYPES	Harvest5 LYPES	Harvest5 LYPES	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	Sm Yield	X-Large	X-Large	Large Yield	Large Yield	Med Yield	Med Yield	
Rating Data Type	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	
Rating Unit	Jun-16-08	Jun-23-08	Jun-23-08	Jun-23-08	Jun-23-08	Jun-23-08	Jun-23-08	
Rating Date	110 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	117 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	73	74	75	76	77	78	79
1 PicChlor 60 21 G LDPE Mulch No herbicide	1 ab	84 a	46 a	25 a	9 a	23 a	7 a	
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	80 a	45 a	35 a	13 a	9 abc	2 ab	
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	86 a	47 a	27 a	10 a	13 abc	4 ab	
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	87 a	39 a	22 a	8 a	10 abc	3 ab	
5 PicChlor 60 21 G Blockade Mulch No herbicide	1 a	80 a	44 a	34 a	12 a	18 ab	5 ab	
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	29 b	17 b	4 b	1 b	5 bc	1 b	
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	4 b	3 b	1 b	0 b	0 c	0 b	
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	2 b	2 b	0 b	0 b	0 c	0 b	
LSD (P=.05)	0.9	27.3	21.2	17.6	6.7	13.8	4.9	
Standard Deviation	0.5	15.6	12.1	10.1	3.8	7.9	2.8	
CV	52.3	27.52	40.04	54.84	57.92	79.53	99.49	
Bartlett's X2	5.198	15.216	19.352	12.252	12.844	18.116	25.007	
P(Bartlett's X2)	0.519	0.033*	0.007*	0.057	0.046*	0.011*	0.001*	

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

University of Georgia

Weed Code	Harvest5 LYPES	Harvest5 LYPES	Harvest6 LYPES	Harvest6 LYPES	Harvest6 LYPES	Harvest6 LYPES	Harvest6 LYPES	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	Sm Yield	Sm Yield	X-Large	X-Large	Large Yield	Large Yield	Med Yield	
Rating Data Type	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Unit	Jun-23-08	Jun-23-08	Jun-27-08	Jun-27-08	Jun-27-08	Jun-27-08	Jun-27-08	
Rating Date	117 DA-A	117 DA-A	121 DA-A	121 DA-A	121 DA-A	121 DA-A	121 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	80	81	82	83	84	85	86
1 PicChlor 60 21 G LDPE Mulch No herbicide		6 bcd	1 abc	47 a	27 a	20 a	8 a	8 ab
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	6 bcd	1 abc	44 a	25 a	22 a	8 a	6 bcd
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	12 ab	2 a	53 a	31 a	23 a	9 a	14 a
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	7 bcd	1 ab	50 a	30 a	18 a	7 a	8 abc
5 PicChlor 60 21 G Blockade Mulch No herbicide		9 abc	1 a	45 a	26 a	17 a	7 a	12 ab
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	16 a	2 a	32 a	20 a	6 b	2 b	4 bcd
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	2 cd	0 bc	10 b	7 b	0 b	0 b	0 cd
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	0 d	0 c	1 b	1 b	0 b	0 b	0 d
LSD (P=.05)		7.3	0.9	19.6	12.0	8.5	3.2	7.1
Standard Deviation		4.2	0.5	11.2	6.8	4.9	1.8	4.1
CV		57.09	53.42	31.75	32.79	36.49	35.51	62.18
Bartlett's X2		12.058	6.527	18.247	16.985	7.884	7.003	12.786
P(Bartlett's X2)		0.061	0.367	0.011*	0.017*	0.247	0.321	0.047*

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

University of Georgia

Weed Code	Harvest6 LYPES	Harvest6 LYPES	Harvest6 LYPES	Harvest6 LYPES	Harvest7 LYPES	Harvest7 LYPES	Harvest7 LYPES	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	Med Yield	Sm Yield	Sm Yield	X-Large	X-Large	Large Yield	Large Yield	
Rating Data Type	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	
Rating Unit	Jun-27-08	Jun-27-08	Jun-27-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	
Rating Date	121 DA-A	121 DA-A	121 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	87	88	89	90	91	92	93
1 PicChlor 60 21 G LDPE Mulch No herbicide		2 abc	4 ab	1 ab	73 ab	39 ab	30 a	11 ab
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	2 bc	5 ab	1 ab	87 a	46 a	30 a	11 ab
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	4 a	6 a	1 a	92 a	50 a	29 a	13 a
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	2 abc	1 cd	0 c	76 a	46 a	22 ab	8 a-d
5 PicChlor 60 21 G Blockade Mulch No herbicide		3 ab	2 bcd	0 abc	68 ab	39 ab	23 ab	8 abc
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	1 bc	4 abc	1 abc	57 ab	33 ab	13 abc	4 bcd
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	0 c	2 bcd	0 bc	34 bc	23 bc	6 bc	2 cd
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	0 c	0 d	0 c	5 c	3 c	0 c	0 d
LSD (P=.05)		2.2	3.2	0.7	36.6	20.9	16.4	7.4
Standard Deviation		1.2	1.8	0.4	20.9	12.0	9.4	4.2
CV		65.56	60.26	72.85	33.91	34.31	48.7	59.31
Bartlett's X2		13.641	2.608	5.796	5.419	16.889	15.337	15.857
P(Bartlett's X2)		0.034*	0.76	0.446	0.491	0.018*	0.032*	0.026*

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

University of Georgia

Weed Code	Harvest7 LYPES	Harvest7 LYPES	Harvest7 LYPES	Harvest7 LYPES	Har1-7 LYPES	Har1-7 LYPES	Har1-7 LYPES	Har1-7 LYPES
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C				
Part Rated								
Rating Data Type	Med Yield	Med Yield	Sm Yield	Sm Yield	X-Large	X-Large	Large	Large
Rating Unit	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot
Rating Date	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08
Trt-Eval Interval	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A
ARM Action Codes					T1	T2	T3	T4
Trt Treatment								
Rate								
No. Name	94	95	96	97	99	100	101	102
1 PicChlor 60 21 G LDPE Mulch No herbicide	15 ab	4 ab	9 a	2 a	307 ab	160 a	105 a	37 a
2 PicChlor 60 21 G LDPE Mulch Eptam 2 PT/A	12 ab	3 ab	7 a	1 a	329 ab	170 a	123 a	41 a
3 PicChlor 60 21 G LDPE Mulch Eptam 3 PT/A	17 a	4 a	11 a	2 a	338 a	177 a	115 a	43 a
4 PicChlor 60 21 G LDPE Mulch Eptam 4 PT/A	13 ab	3 ab	5 a	1 a	312 ab	159 a	98 a	35 a
5 PicChlor 60 21 G Blockade Mulch No herbicide	10 abc	3 abc	5 a	1 a	288 b	152 a	118 a	42 a
6 PicChlor 60 21 G Blockade Mulch Eptam 2 PT/A	4 bc	1 bc	6 a	1 a	153 c	87 b	47 b	13 b
7 PicChlor 60 21 G Blockade Mulch Eptam 3 PT/A	1 c	0 c	2 a	0 a	54 d	34 c	11 bc	4 b
8 PicChlor 60 21 G Blockade Mulch Eptam 4 PT/A	0 c	0 c	0 a	0 a	10 d	6 c	2 c	0 b
LSD (P=.05)	9.6	2.8	12.0	2.3	45.3	30.8	38.3	14.7
Standard Deviation	5.5	1.6	6.9	1.3	25.9	17.6	21.9	8.4
CV	60.14	67.41	119.35	147.54	11.55	14.89	28.24	31.17
Bartlett's X2	16.69	16.371	7.97	11.436	14.205	13.508	16.473	15.583
P(Bartlett's X2)	0.02*	0.022*	0.24	0.076	0.048*	0.061	0.021*	0.029*

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

Column 93: T1 = [C48]+[C50]+[C58]+[C66]+[C74]+[C82]+[C90]

Column 94: T2 = [C49]+[C51]+[C59]+[C67]+[C75]+[C83]+[C91]

Column 95: T3 = [C52]+[C60]+[C68]+[C76]+[C84]+[C92]

Column 96: T4 = [C53]+[C61]+[C69]+[C77]+[C85]+[C93]

University of Georgia

Weed Code	Har1-7 LYPES	Har1-7 LYPES	Har1-7 LYPES	Har1-7 LYPES	Har1-7 LYPES	Har1-7 LYPES	Harvest1 SOLME	Harvest1 SOLME
Crop Code							FRUMAR C	FRUMAR C
Part Rated							YIELD	YIELD
Rating Data Type	Med	Med	Small	Small	All fruit	All fruit	#/plot	lb/plot
Rating Unit	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot
Rating Date	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	Jun-30-08	May-26-08	May-26-08
Trt-Eval Interval	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	124 DA-A	89 DA-A	89 DA-A
ARM Action Codes	T5	T6	T7	T8	T9	T10		
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit
1 PicChlor 60 21 G LDPE Mulch No herbicide	61 a	18 a	35 ab	6 a	509 a	221 a	10 a	14 a
2 PicChlor 60 21 G LDPE Mulch Eptam	46 ab	12 ab	33 ab	5 a	530 a	228 a	17 a	20 a
								2 PT/A
3 PicChlor 60 21 G LDPE Mulch Eptam	64 a	18 a	41 ab	6 a	558 a	244 a	12 a	18 a
								3 PT/A
4 PicChlor 60 21 G LDPE Mulch Eptam	50 ab	13 ab	26 ab	4 ab	486 a	211 a	12 a	18 a
								4 PT/A
5 PicChlor 60 21 G Blockade Mulch No herbicide	57 ab	16 ab	30 ab	5 a	494 a	214 a	11 a	16 a
6 PicChlor 60 21 G Blockade Mulch Eptam	29 bc	7 bc	48 a	7 a	277 b	114 b	13 a	18 a
								2 PT/A
7 PicChlor 60 21 G Blockade Mulch Eptam	9 c	2 c	19 bc	3 ab	93 c	43 c	15 a	21 a
								3 PT/A
8 PicChlor 60 21 G Blockade Mulch Eptam	1 c	0 c	1 c	0 b	13 c	7 c	10 a	14 a
								4 PT/A
LSD (P=.05)	28.2	8.2	22.2	3.7	98.2	41.2	8.3	9.0
Standard Deviation	16.1	4.7	12.7	2.1	56.1	23.5	4.7	5.2
CV	40.61	43.76	43.49	47.95	15.15	14.69	37.88	30.01
Bartlett's X2	7.289	16.903	9.357	11.925	19.236	15.723	3.18	3.085
P(Bartlett's X2)	0.295	0.018*	0.228	0.103	0.007*	0.028*	0.868	0.877

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

Column 97: T5 = [C54]+[C62]+[C70]+[C78]+[C86]+[C94]

Column 98: T6 = [C55]+[C63]+[C71]+[C79]+[C87]+[C95]

Column 99: T7 = [C56]+[C64]+[C72]+[C80]+[C88]+[C96]

Column 100: T8 = [C57]+[C65]+[C73]+[C81]+[C89]+[C97]

Column 101: T9 = [C99]+[C101]+[C103]+[C105]

Column 102: T10 = [C100]+[C102]+[C104]+[C106]

University of Georgia

Weed Code	Harvest2 SOLME	Harvest2 SOLME	Harvest3 SOLME	Harvest3 SOLME	Harvest4 SOLME	Harvest4 SOLME	Harvest5 SOLME	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	
Rating Data Type	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Unit	Jun-03-08	Jun-03-08	Jun-10-08	Jun-10-08	Jun-16-08	Jun-16-08	Jun-20-08	
Rating Date	97 DA-A	97 DA-A	104 DA-A	104 DA-A	110 DA-A	110 DA-A	114 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	113	114	115	116	117	118	119
1 PicChlor 60 21 G LDPE Mulch No herbicide		7 a	10 a	3 a	4 a	8 ab	11 ab	4 a
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	8 a	6 ab	6 a	8 a	6 ab	9 ab	6 a
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	8 a	11 a	6 a	8 a	8 ab	12 ab	6 a
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	7 ab	9 ab	5 a	7 a	7 ab	11 ab	4 a
5 PicChlor 60 21 G Blockade Mulch No herbicide		7 ab	10 ab	3 a	4 a	5 ab	8 ab	3 a
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	4 ab	5 ab	5 a	7 a	10 a	15 a	5 a
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	4 ab	5 ab	6 a	8 a	8 ab	12 ab	5 a
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	2 b	3 b	5 a	8 a	5 b	7 b	4 a
LSD (P=.05)		4.4	6.7	4.8	6.5	4.4	6.5	3.0
Standard Deviation		2.5	3.8	2.7	3.7	2.5	3.7	1.7
CV		42.53	53.15	56.38	56.46	35.63	34.71	37.99
Bartlett's X2		12.815	17.788	6.113	5.656	5.261	5.054	9.318
P(Bartlett's X2)		0.077	0.013*	0.527	0.58	0.628	0.653	0.231

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

University of Georgia

Weed Code	Harvest5 SOLME	Harvest6 SOLME	Harvest6 SOLME	Harvest7 SOLME	Harvest7 SOLME	Harvest8 SOLME	Harvest8 SOLME								
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C								
Part Rated															
Rating Data Type	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD								
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot								
Rating Date	Jun-20-08	Jun-23-08	Jun-23-08	Jul-02-08	Jul-02-08	Jul-07-08	Jul-07-08								
Trt-Eval Interval	114 DA-A	117 DA-A	117 DA-A	126 DA-A	126 DA-A	131 DA-A	131 DA-A								
ARM Action Codes															
Trt No.	Treatment Name	Rate	Unit	120	121	122	123	124	125	126					
1	PicChlor 60 21 G LDPE Mulch No herbicide	6	ab	4	a	6	a	28	a	35	ab	14	a	18	a
2	PicChlor 60 21 G LDPE Mulch Eptam	9	a	4	a	6	a	15	a	21	ab	10	a	14	a
		2	PT/A												
3	PicChlor 60 21 G LDPE Mulch Eptam	10	a	5	a	7	a	10	a	14	ab	12	a	16	a
		3	PT/A												
4	PicChlor 60 21 G LDPE Mulch Eptam	5	ab	3	a	4	a	32	a	44	a	4	a	5	a
		4	PT/A												
5	PicChlor 60 21 G Blockade Mulch No herbicide	4	b	3	a	4	a	24	a	33	ab	7	a	10	a
6	PicChlor 60 21 G Blockade Mulch Eptam	6	ab	3	a	5	a	18	a	25	ab	7	a	8	a
		2	PT/A												
7	PicChlor 60 21 G Blockade Mulch Eptam	8	ab	4	a	7	a	7	a	9	b	10	a	13	a
		3	PT/A												
8	PicChlor 60 21 G Blockade Mulch Eptam	7	ab	4	a	6	a	15	a	20	ab	7	a	7	a
		4	PT/A												
LSD (P=.05)		4.5		3.9		6.2		23.0		28.0		12.5		16.4	
Standard Deviation		2.6		2.2		3.5		13.1		16.0		7.1		9.4	
CV		38.18		60.36		62.41		70.76		64.14		79.88		82.94	
Bartlett's X2		10.255		5.841		6.849		13.548		9.963		6.984		8.596	
P(Bartlett's X2)		0.175		0.558		0.445		0.06		0.191		0.431		0.283	

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

University of Georgia

Weed Code	Harvest9	Harvest9	Har1-3	Har1-3	Har1-9	Har1-9	Harvest1	
Crop Code	SOLME	SOLME	SOLME	SOLME	SOLME	SOLME	CITLA	
Part Rated	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Rating Data Type	YIELD	YIELD	YIELD	YIELD	YIELD	YIELD	Yield 0-10	
Rating Unit	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Date	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08	Jun-16-08	
Trt-Eval Interval	135 DA-A	135 DA-A	135 DA-A	135 DA-A	135 DA-A	135 DA-A	110 DA-A	
ARM Action Codes			T23	T24	T11	T12		
Trt Treatment	Rate							
No. Name	Rate Unit	127	128	130	131	132	133	135
1 PicChlor 60 21 G LDPE Mulch No herbicide		5 a	5 a	20 b	28 ab	81 a	108 a	0 ab
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	5 a	7 a	32 a	34 ab	77 a	99 a	1 ab
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	4 a	5 a	27 ab	37 a	72 a	100 a	0 b
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	3 a	4 a	24 ab	33 ab	77 a	105 a	0 b
5 PicChlor 60 21 G Blockade Mulch No herbicide		3 a	3 a	20 b	29 ab	65 a	92 a	0 ab
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	3 a	4 a	22 b	30 ab	67 a	93 a	1 ab
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	3 a	4 a	25 ab	34 ab	62 a	86 a	0 ab
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	5 a	6 a	17 b	24 b	57 a	76 a	2 a
LSD (P=.05)		3.1	4.3	8.4	9.9	23.9	30.6	1.4
Standard Deviation		1.8	2.4	4.8	5.6	13.6	17.5	0.8
CV		46.07	53.61	20.48	18.25	19.55	18.44	145.95
Bartlett's X2		10.006	5.456	2.857	1.95	3.975	3.55	5.372
P(Bartlett's X2)		0.188	0.604	0.898	0.963	0.783	0.83	0.372

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

Column 121: T23 = [111]+[113]+[115]

Column 122: T24 = [112]+[114]+[116]

Column 123: T11 = [C111]+[C113]+[C115]+[C117]+[C119]+[C121]+[C123]+[C125]+[C127]

Column 124: T12 = [C112]+[C114]+[C116]+[C118]+[C120]+[C122]+[C124]+[C126]+[C128]

University of Georgia

Weed Code	Harvest1 CITLA	Harvest1 CITLA	Harvest1 CITLA	Harvest1 CITLA	Harvest1 CITLA	Harvest2 CITLA	Harvest2 CITLA	
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	
Part Rated	Yield 0-10	Yield 10-20	Yield 10-20	Yield >20	Yield >20	Yield 0-10	Yield 0-10	
Rating Data Type	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	
Rating Unit	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jul-03-08	Jul-03-08	
Rating Date	110 DA-A	110 DA-A	110 DA-A	110 DA-A	110 DA-A	127 DA-A	127 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	136	137	138	139	140	141	142
1 PicChlor 60 21 G LDPE Mulch No herbicide		2 ab	5 a	83 a	5 ab	119 a	0 a	0 a
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	7 ab	7 a	112 a	3 ab	75 a	0 a	0 a
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	0 b	9 a	141 a	4 ab	103 a	0 a	0 a
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	0 b	8 a	141 a	3 ab	69 a	0 a	0 a
5 PicChlor 60 21 G Blockade Mulch No herbicide		3 ab	8 a	122 a	7 a	88 a	0 a	0 a
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	8 ab	4 a	50 a	3 ab	64 a	0 a	0 a
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	3 ab	10 a	151 a	2 ab	46 a	0 a	0 a
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	15 a	4 a	53 a	1 b	42 a	0 a	3 a
LSD (P=.05)		13.0	6.5	97.5	4.9	78.2	0.4	3.6
Standard Deviation		7.4	3.7	55.7	2.8	44.6	0.2	2.0
CV		156.53	52.93	52.2	78.2	58.85	489.9	489.9
Bartlett's X2		7.109	5.233	4.85	15.411	9.265	0.0	0.0
P(Bartlett's X2)		0.213	0.632	0.678	0.031*	0.234	.	.

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

University of Georgia

Weed Code	Harvest2 CITLA	Harvest2 CITLA	Harvest2 CITLA	Harvest2 CITLA	Harvest3 CITLA	Harvest3 CITLA	Harvest3 CITLA
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C
Part Rated	Yield 10-20	Yield 10-20	Yield >20	Yield >20	Yield 0-10	Yield 0-10	Yield 10-20
Rating Data Type	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot
Rating Unit	Jul-03-08	Jul-03-08	Jul-03-08	Jul-03-08	Jul-11-08	Jul-11-08	Jul-11-08
Rating Date	127 DA-A	127 DA-A	127 DA-A	127 DA-A	135 DA-A	135 DA-A	135 DA-A
Trt-Eval Interval	ARM Action Codes						
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate Unit	143	144	145	146	147	148
1 PicChlor 60 21 G LDPE Mulch No herbicide		2 a	37 a	1 a	31 a	6 a	39 a
2 PicChlor 60 21 G LDPE Mulch Eptam	2 PT/A	4 a	59 a	0 a	0 a	6 a	44 a
3 PicChlor 60 21 G LDPE Mulch Eptam	3 PT/A	2 a	34 a	0 a	7 a	3 a	22 a
4 PicChlor 60 21 G LDPE Mulch Eptam	4 PT/A	1 a	11 a	0 a	0 a	5 a	33 a
5 PicChlor 60 21 G Blockade Mulch No herbicide		1 a	23 a	2 a	45 a	7 a	45 a
6 PicChlor 60 21 G Blockade Mulch Eptam	2 PT/A	1 a	15 a	0 a	9 a	11 a	73 a
7 PicChlor 60 21 G Blockade Mulch Eptam	3 PT/A	1 a	23 a	0 a	7 a	9 a	56 a
8 PicChlor 60 21 G Blockade Mulch Eptam	4 PT/A	1 a	16 a	0 a	0 a	10 a	58 a
LSD (P=.05)		3.2	52.5	1.8	41.1	7.9	45.8
Standard Deviation		1.8	30.0	1.0	23.5	4.5	26.2
CV		110.81	110.09	193.21	188.73	61.48	56.79
Bartlett's X2		10.989	17.249	9.096	9.982	15.676	13.403
P(Bartlett's X2)		0.089	0.016*	0.059	0.041*	0.028*	0.063

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

University of Georgia

Weed Code	Harvest3 CITLA	Harvest3 CITLA	Harvest3 CITLA	Har1-3 CITLA	Har1-3 CITLA	Har1-3 CITLA	Har1-3 CITLA
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C
Part Rated	Yield 10-20	Yield >20	Yield >20	Yield 0-10	Yield 0-10	Yield 10-20	Yield 10-20
Rating Data Type	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot
Rating Unit	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08
Rating Date	135 DA-A	135 DA-A	135 DA-A	135 DA-A	135 DA-A	135 DA-A	135 DA-A
Trt-Eval Interval				T13	T14	T15	T16
ARM Action Codes							
Trt Treatment							
Rate							
No. Name	150	151	152	154	155	156	157
Rate Unit							
1 PicChlor 60 21 G LDPE Mulch No herbicide	115 ab	2 a	41 a	6 a	40 a	16 a	235 a
2 PicChlor 60 21 G LDPE Mulch Eptam 2 PT/A	69 b	2 a	51 a	7 a	50 a	16 a	239 a
3 PicChlor 60 21 G LDPE Mulch Eptam 3 PT/A	86 ab	1 a	23 a	3 a	22 a	18 a	262 a
4 PicChlor 60 21 G LDPE Mulch Eptam 4 PT/A	99 ab	2 a	67 a	5 a	33 a	16 a	251 a
5 PicChlor 60 21 G Blockade Mulch No herbicide	110 ab	2 a	52 a	8 a	48 a	18 a	255 a
6 PicChlor 60 21 G Blockade Mulch Eptam 2 PT/A	166 a	2 a	57 a	12 a	81 a	17 a	231 a
7 PicChlor 60 21 G Blockade Mulch Eptam 3 PT/A	132 ab	3 a	70 a	9 a	59 a	21 a	306 a
8 PicChlor 60 21 G Blockade Mulch Eptam 4 PT/A	144 ab	1 a	25 a	12 a	76 a	15 a	213 a
LSD (P=.05)	81.8	2.3	66.0	8.5	53.9	9.8	143.4
Standard Deviation	46.7	1.3	37.7	4.9	30.8	5.6	81.9
CV	40.52	69.22	77.64	61.92	60.13	32.99	32.88
Bartlett's X2	10.69	3.832	9.741	15.21	12.876	6.77	6.254
P(Bartlett's X2)	0.153	0.699	0.204	0.033*	0.075	0.453	0.51

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

Column 143: T13 = [C135]+[C141]+[C147]

Column 144: T14 = [C136]+[C142]+[C148]

Column 145: T15 = [C137]+[C143]+[C149]

Column 146: T16 = [C138]+[C144]+[C150]

University of Georgia

Weed Code	Har1-3 CITLA	Har1-3 CITLA	Har1-3 CITLA	Har1-3 CITLA
Crop Code	FRUMAR C	FRUMAR C	FRUMAR C	FRUMAR C
Part Rated	Yield >20	Yield >20	All sizes	All sizes
Rating Data Type	#/plot	lb/plot	#/plot	lb/plot
Rating Unit	Jul-11-08	Jul-11-08	Jul-11-08	Jul-11-08
Rating Date	135 DA-A	135 DA-A	135 DA-A	135 DA-A
Trt-Eval Interval	T17	T18	T19	T20
ARM Action Codes				
Trt No.	Treatment Name	Rate	Unit	
		158		159
				161
				162
1	PicChlor 60 21 G LDPE Mulch No herbicide	8 ab		192 a
2	PicChlor 60 21 G LDPE Mulch Eptam 2 PT/A	5 b		126 ab
3	PicChlor 60 21 G LDPE Mulch Eptam 3 PT/A	5 b		133 ab
4	PicChlor 60 21 G LDPE Mulch Eptam 4 PT/A	6 b		137 ab
5	PicChlor 60 21 G Blockade Mulch No herbicide	11 a		185 a
6	PicChlor 60 21 G Blockade Mulch Eptam 2 PT/A	5 b		130 ab
7	PicChlor 60 21 G Blockade Mulch Eptam 3 PT/A	5 b		124 ab
8	PicChlor 60 21 G Blockade Mulch Eptam 4 PT/A	2 b		67 b
	LSD (P=.05)	5.1		82.5
	Standard Deviation	2.9		47.1
	CV	48.06		34.44
	Bartlett's X2	12.676		6.738
	P(Bartlett's X2)	0.08		0.457
				14.0
				8.0
				25.93
				19.152
				7.095
				0.008*
				0.419

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

Column 147: T17 = [C139]+[C145]+[C151]

Column 148: T18 = [C140]+[C146]+[C152]

Column 149: T19 = [C154]+[C156]+[C158]

Column 150: T20 = [C155]+[C157]+[C159]

University of Georgia

Tomato, pepper, eggplant, and watermelon response to Eptam.

Trial ID: Veg12-08
Location: Ponder FarmStudy Dir.: Wallace, Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Wallace/Culpepper **Title:** Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31795

Investigator: Stanley Culpepper **Title:** Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31795

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31795 **Initiation Date:** Feb-27-08
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

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

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:**Conclusions:**

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPES	yellow nutsedge	

Crop 1: CPSAN bell pepper **Variety:** Heritage
Planting Date: Mar-27-08 **Planting Method:** transplant
Rate: 1 12 in **Depth:** 2 in **Perennial Age:** _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** raised mulch bed
Soil Temperature: 75 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 2: LYPES tomato **Variety:** Bella Rosa
Planting Date: Mar-27-08 **Planting Method:** transplant
Rate: 1 20 in **Depth:** 2 in **Perennial Age:** _____
Row Spacing: 6 foot **Spacing Within Row:** 20 inch **Seed Bed:** raised mulch bed
Soil Temperature: 75 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 3: SOLME Eggplant **Variety:** Santana
Planting Date: Mar-27-08 **Planting Method:** transplant
Rate: 1 20 in **Depth:** 2 in **Perennial Age:** _____
Row Spacing: 6 foot **Spacing Within Row:** 20 inch **Seed Bed:** raised mulch bed
Soil Temperature: 75 F **Soil Moisture:** drip **Emergence Date:** _____

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Crop 4: CITLA watermelon **Variety:** Delight (seedless)
Planting Date: Mar-27-08 **Planting Method:** transplant
Rate: 1 24 in **Depth:** 2 in **Perennial Age:** ____
Row Spacing: 6 foot **Spacing Within Row:** 24 inch **Seed Bed:** raised mulch bed
Soil Temperature: 75 F **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 3 FT **Plot Length, Unit:** 100 FT **Reps:** 3
Site Type: Ponder Farm
Tillage Type: Conventional **Study Design:** FACTORIAL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 90 **Texture:** sandy loam
% Silt: 6 **Soil Name:** Tifton sandy loam
% Clay: 4 **Fert. Level:** _____
% OM: 1.1
pH: 6.4
CEC: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.						

Overall Moisture Conditions: drip irrigation

Closest Weather Station: Ponder Farm

Distance: 200 **Unit:** yd

APPLICATION DESCRIPTION

	A
Application Date:	Feb-27-08
Time of Day:	all day
Application Method:	broadcast
Application Timing:	Preplant
Applic. Placement:	un mulch
Air Temp., Unit:	70 F
% Relative Humidity:	40
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	60 F
Soil Moisture:	moist
% Cloud Cover:	20

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CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN preplant
Stage Scale:	not up
Height, Unit:	0 in
Crop 2 Code, Stage:	LYPES preplant
Stage Scale:	not up
Height, Unit:	0 in
Crop 3 Code, Stage:	SOLME preplant
Stage Scale:	not up
Height, Unit:	0 in
Crop 4 Code, Stage:	CITLA preplant
Stage Scale:	not up
Height, Unit:	0 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPES preplant
Stage Scale:	not up
Density, Unit:	see data

APPLICATION EQUIPMENT

	A
Appl. Equipment:	super bed
Operating Pressure:	24 psi
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	12 inch
Nozzles/Row:	6
Band Width, Unit:	
Boom Length, Unit:	5 feet
Boom Height, Unit:	12 in
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	24 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment