

University of Georgia

Tomato tolerance to metribuzin applied topically and directed.

Trial ID: Veg19-08

Study Dir.: Stanley Culpepper

Location: TVP

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .61734)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Form Unit	Rate	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
												1	2	3	4
1	Non-treated											101	203	304	405
2	Metribuzin NIS	75		DF	0.5	LB	A/A	POST	A	5.398 g/mx		102	206	302	401
				L	0.25	% V/V		POST	A	2.5 ml/mx					
3	Metribuzin NIS	75		DF	1.0	LB	A/A	POST	A	10.8 g/mx		103	204	306	402
				L	0.25	% V/V		POST	A	2.5 ml/mx					
4	Sencor NIS	75		DF	0.5	LB	A/A	POST	A	5.398 g/mx		104	205	301	403
				L	0.25	% V/V		POST	A	2.5 ml/mx					
5	Metribuzin NIS	75		DF	1.0	LB	A/A	PD	B	10.8 g/mx		105	201	305	406
				L	0.25	% V/V		PD	B	2.5 ml/mx					
6	Sencor NIS	75		DF	1.0	LB	A/A	PD	B	10.8 g/mx		106	202	303	404
				L	0.25	% V/V		PD	B	2.5 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
33.735	g	Metribuzin	75	DF	
15.623	ml	NIS		L	
20.241	g	Sencor	75	DF	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Determine tomato tolerance to metribuzin directed and applied topically.

VISUAL INJURY:

- No differences were noted when comparing formulations of metribuzin and Sencor.
- Directed applications of 1 lb ai/A and topical applications of 0.5 lb ai/A caused similar injury ranging from 13 to 17% at 7 DAT. Injury from 1 lb ai/A applied topically caused severe injury (28% at 7 DAT).
- Tomato recovered rapidly except for the 1 lb/ai topical application.

Tomato Heights:

- Crop heights of 10 consecutive plants per plot were made 27 DAT.
- Compared to the control, metribuzin at 1 lb ai/A applied topically reduced plant growth by 15%. No other treatment impacted plant height.

Tomato Yield:

- Tomato from the entire plot was harvested and graded five times.
- Tomato yield was not impacted by treatments.

GENERAL COMMENTS:

- A surfactant was added in mixture with each treatment to increase the potential for injury.
- Directed applications were made 33% up the plant.

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Tomato tolerance to metribuzin applied topically and directed.

Trial ID: Veg19-08

Study Dir.: Stanley Culpepper

Location: TVP

Investigator: Stanley Culpepper

Weed Code	LYPES	LYPES	LYPES	plant 1 LYPES	plant 2 LYPES	plant 3 LYPES	plant 4 LYPES	plant 5 LYPES			
Part Rated											
Rating Data Type	injury	injury	injury	ht	ht	ht	ht	ht			
Rating Unit	%	%	%	cm	cm	cm	cm	cm			
Rating Date	Apr-15-08	Apr-21-08	May-02-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08			
Crop Stage											
Assessed By	SC	SC	SC								
Trt-Eval Interval	7 DA-A	13 DA-A	24 DA-A								
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
1	Non-treated			0 c	0 c	0 b	64 a	69 a	64 ab	65 a	63 a
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V		13 b	9 b	3 b	61 a	64 a	65 ab	63 a	59 a
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V		28 a	25 a	11 a	46 a	59 a	58 b	57 a	57 a
4	Sencor NIS	0.5 LB A/A 0.25 % V/V		15 b	11 b	2 b	45 a	64 a	64 ab	60 a	64 a
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V		15 b	11 b	1 b	66 a	63 a	69 a	62 a	62 a
6	Sencor NIS	1.0 LB A/A 0.25 % V/V		17 b	10 b	0 b	52 a	50 a	64 ab	61 a	65 a
LSD (P=.05)				8.0	6.9	4.3	26.0	21.5	7.9	8.0	9.0
Standard Deviation				5.3	4.6	2.9	17.2	14.3	5.2	5.3	5.9
CV				36.45	42.66	107.02	31.04	23.38	8.15	8.72	9.68
Bartlett's X2				11.747	21.658	1.587	28.673	32.857	0.986	9.005	7.192
P(Bartlett's X2)				0.003*	0.001*	0.662	0.001*	0.001*	0.964	0.109	0.207

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

University of Georgia

Weed Code	plant 6 LYPES	plant 7 LYPES	plant 8 LYPES	plant 9 LYPES	plant av LYPES	harv 1 LYPES	harv 1 LYPES	harv 1 LYPES			
Crop Code											
Part Rated						fruit	fruit	fruit			
Rating Data Type	ht	ht	ht	ht	ht	#	lb	#			
Rating Unit	cm	cm	cm	cm	cm	per plot	per plot	per plot			
Rating Date	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-30-08	May-30-08	May-30-08			
Crop Stage						jumbo	jumbo	large			
Assessed By											
Trt-Eval Interval						27 DA-A					
ARM Action Codes						T1					
Trt No.	Treatment Name	Rate	Rate Unit	9	10	11	12	13	14	15	16
1	Non-treated			67 a	61 ab	66 a	65 a	65 a	25 a	12 a	6 a
2	Metribuzin NIS	0.5 0.25	LB A/A % V/V	60 ab	65 ab	61 ab	62 a	62 a	13 b	6 bc	6 a
3	Metribuzin NIS	1.0 0.25	LB A/A % V/V	57 b	58 b	54 b	52 b	55 b	12 b	5 c	6 a
4	Sencor NIS	0.5 0.25	LB A/A % V/V	63 ab	64 ab	64 a	61 a	61 a	24 ab	10 ab	7 a
5	Metribuzin NIS	1.0 0.25	LB A/A % V/V	64 ab	62 ab	64 a	63 a	64 a	26 a	12 a	7 a
6	Sencor NIS	1.0 0.25	LB A/A % V/V	65 ab	69 a	67 a	68 a	62 a	26 a	12 a	7 a
LSD (P=.05)				8.2	8.1	6.9	6.7	4.4	11.0	4.7	5.0
Standard Deviation				5.4	5.4	4.6	4.4	2.9	7.3	3.1	3.3
CV				8.7	8.55	7.3	7.17	4.76	35.03	32.31	52.08
Bartlett's X2				2.229	5.892	3.97	7.65	10.361	10.455	11.006	8.619
P(Bartlett's X2)				0.817	0.317	0.554	0.177	0.066	0.063	0.051	0.125

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

Column 13: T1 = @AVG([C4].[C12])

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Weed Code	harv 1	harv 1	harv 1	harv 1	harv 1	harv 2	harv 2	harv 2		
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Data Type	lb	#	lb	#	lb	#	lb	#		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	May-30-08	May-30-08	May-30-08	May-30-08	May-30-08	Jun-16-08	Jun-16-08	Jun-16-08		
Crop Stage	large	medium	medium	small	small	jumbo	jumbo	large		
Assessed By										
Trt-Eval Interval										
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
			17	18	19	20	21	22	23	24
1	Non-treated		2 a	5 a	1 a	2 a	0 a	24 a	14 a	5 a
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V	2 a	5 a	1 a	2 a	0 a	31 a	17 a	4 ab
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	2 a	5 a	1 a	2 a	0 a	28 a	15 a	4 ab
4	Sencor NIS	0.5 LB A/A 0.25 % V/V	2 a	3 a	1 a	3 a	1 a	30 a	17 a	5 a
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	3 a	5 a	1 a	2 a	0 a	37 a	20 a	4 ab
6	Sencor NIS	1.0 LB A/A 0.25 % V/V	2 a	3 a	1 a	3 a	1 a	22 a	12 a	2 b
LSD (P=.05)			1.8	4.0	1.0	2.6	0.4	14.4	8.1	2.5
Standard Deviation			1.2	2.7	0.7	1.7	0.3	9.6	5.4	1.7
CV			53.28	65.56	60.99	71.07	67.98	33.46	34.03	44.37
Bartlett's X2			11.883	14.959	7.843	3.296	4.706	10.418	8.066	7.449
P(Bartlett's X2)			0.036*	0.011*	0.165	0.654	0.453	0.064	0.153	0.189

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

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Weed Code	harv 2	harv 2	harv 2	harv 2	harv 2	harv 3	harv 3	harv 3		
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Data Type	lb	#	lb	#	lb	#	lb	#		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jun-16-08	Jun-24-08	Jun-24-08	Jun-24-08		
Crop Stage	large	medium	medium	small	small	jumbo	jumbo	large		
Assessed By										
Trt-Eval Interval										
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
			25	26	27	28	29	30	31	32
1	Non-treated		2 a	2 a	0 a	5 a	1 a	58 a	38 a	6 a
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V	1 ab	1 a	0 a	3 a	0 a	48 a	28 a	6 a
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	1 ab	2 a	0 a	2 a	0 a	41 a	24 a	7 a
4	Sencor NIS	0.5 LB A/A 0.25 % V/V	2 a	2 a	1 a	2 a	0 a	45 a	28 a	8 a
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	2 a	2 a	0 a	2 a	0 a	48 a	23 a	5 a
6	Sencor NIS	1.0 LB A/A 0.25 % V/V	1 b	1 a	0 a	2 a	0 a	50 a	30 a	4 a
LSD (P=.05)			0.8	2.4	0.6	3.8	0.5	18.7	14.3	4.4
Standard Deviation			0.5	1.6	0.4	2.6	0.3	12.4	9.5	2.9
CV			39.52	103.99	106.21	100.46	122.04	25.66	33.32	48.56
Bartlett's X2			9.051	7.353	6.932	6.355	10.313	2.834	2.911	10.991
P(Bartlett's X2)			0.107	0.196	0.226	0.273	0.067	0.726	0.714	0.052

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

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Weed Code	harv 3	harv 3	harv 3	harv 3	harv 3	harv 4	harv 4	harv 4		
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Data Type	lb	#	lb	#	lb	#	lb	#		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Jun-24-08	Jun-24-08	Jun-24-08	Jun-24-08	Jun-24-08	Jun-27-08	Jun-27-08	Jun-27-08		
Crop Stage	large	medium	medium	small	small	jumbo	jumbo	large		
Assessed By										
Trt-Eval Interval										
ARM Action Codes										
Trt No.	Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No.	Name	Unit	33	34	35	36	37	38		
39	40									
1	Non-treated		2 a	2 a	1 a	0 ab	0 a	29 ab	18 a	7 a
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V	2 a	3 a	1 a	4 a	0 a	30 ab	17 a	14 a
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	3 a	3 a	1 a	4 a	2 a	33 a	19 a	12 a
4	Sencor NIS	0.5 LB A/A 0.25 % V/V	3 a	3 a	1 a	0 ab	0 a	24 ab	14 a	7 a
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	2 a	1 a	0 a	1 ab	0 a	19 b	11 a	7 a
6	Sencor NIS	1.0 LB A/A 0.25 % V/V	2 a	1 a	0 a	0 b	0 a	30 ab	18 a	7 a
LSD (P=.05)			1.8	2.1	0.6	3.0	1.8	12.1	7.5	7.1
Standard Deviation			1.2	1.4	0.4	2.0	1.2	8.1	5.0	4.7
CV			52.98	71.15	76.83	144.39	294.1	29.32	30.98	53.44
Bartlett's X2			7.027	9.416	9.73	21.382	54.569	6.956	7.065	8.993
P(Bartlett's X2)			0.219	0.094	0.083	0.001*	0.001*	0.224	0.216	0.109

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

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Weed Code	harv 4	harv 4	harv 4	harv 4	harv 4	harv 5	harv 5	harv 5	harv 5		
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Data Type	lb	#	lb	#	lb	#	lb	#	lb		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Jun-27-08	Jun-27-08	Jun-27-08	Jun-27-08	Jun-27-08	Jul-02-08	Jul-02-08	Jul-02-08	Jul-02-08		
Crop Stage	large	medium	medium	small	small	jumbo	jumbo	large	large		
Assessed By											
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit									
			41	42	43	44	45	46	47	48	49
1	Non-treated		3 a	3 a	1 a	1 a	0 a	41 a	23 a	12 bc	4 bc
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V	5 a	5 a	2 a	2 a	0 a	45 a	25 a	23 ab	8 ab
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	4 a	5 a	1 a	0 a	0 a	53 a	29 a	25 a	10 a
4	Sencor NIS	0.5 LB A/A 0.25 % V/V	3 a	5 a	1 a	2 a	0 a	41 a	23 a	17 abc	6 abc
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	2 a	5 a	1 a	0 a	0 a	37 a	20 a	8 c	3 c
6	Sencor NIS	1.0 LB A/A 0.25 % V/V	3 a	2 a	0 a	0 a	0 a	54 a	32 a	7 c	2 c
LSD (P=.05)			2.8	6.5	1.8	2.8	0.5	25.6	15.0	10.6	3.8
Standard Deviation			1.8	4.3	1.2	1.9	0.3	17.0	10.0	7.0	2.5
CV			56.4	108.82	111.1	204.74	207.35	37.68	39.4	46.86	46.06
Bartlett's X2			7.157	1.71	1.408	11.265	14.551	0.723	1.038	8.129	8.591
P(Bartlett's X2)			0.209	0.888	0.923	0.024*	0.006*	0.982	0.959	0.149	0.127

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

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Weed Code	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 1-2 LYPES	harv 1-2 LYPES	harv 1-2 LYPES	harv 1-2 LYPES	harv 1-2 LYPES		
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Part Rated	#	lb	#	lb	#	lb	#	lb	#		
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Unit	Jul-02-08	Jul-02-08	Jul-02-08	Jul-02-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08		
Rating Date	medium	medium	small	small	jumbo	jumbo	large	large	medium		
Crop Stage											
Assessed By											
Trt-Eval Interval					T2	T3	T4	T5	T6		
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No.	Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
50	51	52	53	54	55	56	57	58			
1	Non-treated	6 a	2 a	2 a	0 a	48 ab	26 ab	11 a	4 a	6 a	
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V	7 a	2 a	2 a	0 a	44 ab	23 ab	9 a	3 a	6 a
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	9 a	2 a	2 a	0 a	40 b	20 b	9 a	3 a	6 a
4	Sencor NIS	0.5 LB A/A 0.25 % V/V	7 a	2 a	2 a	0 a	54 ab	27 ab	12 a	4 a	5 a
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V	4 a	1 a	2 a	0 a	63 a	32 a	11 a	4 a	6 a
6	Sencor NIS	1.0 LB A/A 0.25 % V/V	3 a	1 a	1 a	0 a	47 ab	24 ab	9 a	3 a	4 a
LSD (P=.05)		8.5	2.5	2.6	0.4	19.8	10.5	6.2	2.2	4.5	
Standard Deviation		5.7	1.6	1.7	0.3	13.1	6.9	4.1	1.5	3.0	
CV		96.47	104.14	98.05	106.13	26.61	27.32	40.53	40.71	53.2	
Bartlett's X2		12.658	14.842	1.24	1.728	5.176	6.208	10.778	10.083	4.748	
P(Bartlett's X2)		0.027*	0.011*	0.941	0.885	0.395	0.287	0.056	0.073	0.447	

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

Column 54: T2 = ([C14]+[C22])

Column 55: T3 = ([C15]+[C23])

Column 56: T4 = ([C16]+[C24])

Column 57: T5 = ([C17]+[C25])

Column 58: T6 = ([C18]+[C26])

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Weed Code	harv 1-2	harv 1-2	harv 1-2	harv 1-5	harv 1-5	harv 1-5	harv 1-5	harv 1-5	harv 1-5	harv 1-5		
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Data Type	lb	#	lb	#	lb	#	lb	#	lb	lb		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08		
Crop Stage	medium	small	small	jumbo	jumbo	large	large	medium	medium			
Assessed By												
Trt-Eval Interval												
ARM Action Codes	T7	T8	T9	T10	T11	T12	T13	T14	T15			
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No.	Name	Rate	Unit	59	60	61	62	63	64	65	66	67
1	Non-treated			2 a	7 a	1 a	176 a	104 a	36 ab	13 abc	17 a	5 a
2	Metribuzin NIS	0.5 LB A/A 0.25 % V/V		2 a	5 a	1 a	167 a	93 a	52 a	19 ab	21 a	6 a
3	Metribuzin NIS	1.0 LB A/A 0.25 % V/V		2 a	4 a	1 a	167 a	92 a	53 a	19 a	22 a	6 a
4	Sencor NIS	0.5 LB A/A 0.25 % V/V		2 a	5 a	1 a	164 a	92 a	43 ab	16 abc	20 a	5 a
5	Metribuzin NIS	1.0 LB A/A 0.25 % V/V		2 a	5 a	1 a	166 a	86 a	30 b	11 bc	16 a	4 a
6	Sencor NIS	1.0 LB A/A 0.25 % V/V		1 a	5 a	1 a	181 a	105 a	26 b	9 c	9 a	2 a
LSD (P=.05)				1.1	3.7	0.6	43.2	29.0	19.8	7.5	15.2	4.2
Standard Deviation				0.7	2.5	0.4	28.7	19.2	13.1	5.0	10.1	2.8
CV				47.29	49.4	54.38	16.86	20.18	32.81	34.04	58.03	59.14
Bartlett's X2				3.347	6.145	4.812	2.066	2.647	5.195	5.01	6.933	6.427
P(Bartlett's X2)				0.647	0.292	0.439	0.84	0.754	0.393	0.415	0.226	0.267

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

Column 59: T7 = ([C19]+[C27])

Column 60: T8 = ([C20]+[C28])

Column 61: T9 = ([C21]+[C29])

Column 62: T10 = ([C14]+[C22]+[C30]+[C38]+[C46])

Column 63: T11 = ([C15]+[C23]+[C31]+[C39]+[C47])

Column 64: T12 = ([C16]+[C24]+[C32]+[C40]+[C48])

Column 65: T13 = ([C17]+[C25]+[C33]+[C41]+[C49])

Column 66: T14 = ([C18]+[C26]+[C34]+[C42]+[C50])

Column 67: T15 = ([C19]+[C27]+[C35]+[C43]+[C51])

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Weed Code	harv 1-5	harv 1-5	All harv	All harv
Crop Code	LYPES	LYPES	LYPES	LYPES
Part Rated	fruit	fruit	fruit	fruit
Rating Data Type	#	lb	#	lb
Rating Unit	per plot	per plot	per plot	per plot
Rating Date	Oct-23-08	Oct-23-08	Oct-23-08	Oct-23-08
Crop Stage	small	small	all size	all size
Assessed By				
Trt-Eval Interval				
ARM Action Codes	T16	T17	T18	T19
Trt Treatment				
Rate				
No. Name	68	69	71	72
Rate Unit				
1 Non-treated	10 a	1 a	238 a	123 a
2 Metribuzin NIS	13 a	2 a	252 a	120 a
0.5 LB A/A 0.25 % V/V				
3 Metribuzin NIS	10 a	3 a	252 a	120 a
1.0 LB A/A 0.25 % V/V				
4 Sencor NIS	9 a	1 a	235 a	115 a
0.5 LB A/A 0.25 % V/V				
5 Metribuzin NIS	7 a	1 a	220 a	102 a
1.0 LB A/A 0.25 % V/V				
6 Sencor NIS	6 a	1 a	223 a	118 a
1.0 LB A/A 0.25 % V/V				
LSD (P=.05)	8.4	2.2	34.6	24.0
Standard Deviation	5.6	1.4	23.0	16.0
CV	61.45	94.97	9.72	13.74
Bartlett's X2	11.944	21.025	1.888	3.362
P(Bartlett's X2)	0.036*	0.001*	0.864	0.644

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

Column 68: T16 = ([C20]+[C28]+[C36]+[C44]+[C52])

Column 69: T17 = ([C21]+[C29]+[C37]+[C45]+[C53])

Column 70: T18 = [C62]+[C64]+[C66]+[C68]

Column 71: T19 = [C63]+[C65]+[C67]+[C69]

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

SOIL DESCRIPTION

% Sand: 90 % OM: 1.1 Texture: sand
 % Silt: 8 pH: 6.3 Soil Name: Tifton sandy loam
 % Clay: 2 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr-08-08	Apr-08-08
Time of Day:	6:00pm	6:00pm
Application Method:	broadcast	broadcast
Application Timing:	POST	PD
Applic. Placement:	overtop	directed
Air Temp., Unit:	76 F	76 F
% Relative Humidity:	45	45
Wind Velocity, Unit:	2 mph	2 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	94 F	94 F
Soil Moisture:	moist	moist
% Cloud Cover:	20	20

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES A	LYPES B
Stage Scale:	9 leaf	9 leaf
Height, Unit:	9 inch	9 inch

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	.	
Stage Scale:	.	
Density, Unit:	.	

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	12 inch
Nozzles/Row:	2	3
Band Width, Unit:		
Boom Length, Unit:	4.5 ft	
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment