

University of Georgia

**Snap bean, sweet corn, collard, squash, oat, wheat, ryegrass,
response to Sinbar and Reflex applied in the previous watermelon crop**

Trial ID: Veg25-07

Study Dir.: Davis, Culpepper

Location: Ponder farm

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 180 feet

Spray vol: 14.8 gal/ac

Mix size: 8 liters (min 4.1671)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
1	Sinbar	85		WP	3	OZ/A		A	12.14 g/mx	101	203	301
2	Sinbar	85		WP	6	OZ/A		A	24.29 g/mx	102	202	304
3	Non-treated									103	204	303
4	Reflex	2		L	2	PT/A		A	135.1 ml/mx	104	201	302

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
45.542	g	Sinbar	85	WP	
168.901	ml	Reflex	2	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 8 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine plant back interval for Sinbar or Reflex.

Watermelon:

- Treatments were applied prior to transplanting watermelon.
- No injury was noted throughout the season.

Sweet Corn:

- Sweet corn was planted nearly 6 months after application, visual injury from Reflex reached 27% Injury was primarily chlorosis.
- Corn heights (10 plants per plot) were not impacted by treatments at 3 WAT.

Squash:

- Squash was planted nearly 6 months after application, no visual injury was noted.
- Squash were not impacted by treatments at 3 WAT. However, by 5 and 6 WAT there was a trend for shorter squash (10 plants per plot) in plots treated with 6 oz of Sinbar per acre.
- A trend for less squash per plot caused lower weights per plot when following 6 oz of Sinbar.

Transplant Collard:

- Collard was planted nearly 6 months after application, Reflex caused up to 30% visual injury.
- Collard heights (10 plants per plot) were not impacted by treatments at 5 or 6 WAT.
- Collard stand and weight per plant were not impacted by treatments.

Snap Bean:

- Snap bean was planted nearly 6 months after application, visually injury was minimal by Sinbar.
- Snap bean heights (10 plants per plot) were not impacted by treatments at 6 WAT.
- Snap bean stand and weight per plant were not impacted by treatments.

Wheat, Oat, Ryegrass:

- Crops were planted 8 months after application, no injury was visually noted.
- When measuring 10 plants per plot, no treatment impacts on height were noted.
- When harvesting 1 meter of row, no treatment impacts were noted.

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Trial ID: Veg25-07

Study Dir.: Davis, Culpepper

Location: Ponder farm

Investigator: Stanley Culpepper

Weed Code	ZEAMS	ZEAMS	ZEAMS	CUUPE	CUUPE	BRSOA	BRSOA	PHSVN		
Crop Code										
Rating Data Type	injury	injury	injury	injury	injury	injury	injury	injury		
Rating Unit	%	%	%	%	%	%	%	%		
Rating Date	Aug-24-07	Sep-04-07	Sep-27-07	Aug-24-07	Sep-04-07	Sep-04-07	Sep-27-07	Sep-04-07		
Assessed By	SC	SC	SC	SC	SC	SC	SC	SC		
Trt-Eval Interval	151 DA-A	162 DA-A	185 DA-A	151 DA-A	162 DA-A	162 DA-A	185 DA-A	162 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
1	Sinbar	3 OZ/A	3 b	0 b	0 a	0 b	3 a	0 a	8 ab	2 a
2	Sinbar	6 OZ/A	3 b	0 b	0 a	13 a	12 a	0 a	5 b	3 a
3	Non-treated		0 b	0 b	0 a	0 b	0 a	0 a	8 ab	0 a
4	Reflex	2 PT/A	27 a	19 a	0 a	0 b	0 a	0 a	29 a	7 a
LSD (P=.05)			11.0	5.1	0.0	11.5	13.4	0.0	21.1	8.0
Standard Deviation			5.5	2.6	0.0	5.8	6.7	0.0	10.6	4.0
CV			66.33	53.09	0.0	173.21	179.16	0.0	83.0	137.02
Bartlett's X2			0.0	0.0	0.0	0.0	0.619	0.0	6.565	0.942
P(Bartlett's X2)			1.00	.	.	.	0.431	.	0.087	0.624

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

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Weed Code					plant 1	plant 2	plant 3	plant 4	
Crop Code	PHSVN	TRZAN	AVESA	LOLMG	ZEAMS	ZEAMS	ZEAMS	ZEAMS	
Rating Data Type	injury	injury	injury	injury	ht	ht	ht	ht	
Rating Unit	%	%	%	%	cm	cm	cm	cm	
Rating Date	Sep-27-07	Dec-01-07	Dec-01-07	Dec-01-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	
Assessed By	SC	SC	SC	SC					
Trt-Eval Interval	185 DA-A	250 DA-A	250 DA-A	250 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	
ARM Action Codes									
Trt No.	9	10	11	12	13	14	15	16	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	2 a	0 a	0 a	0 a	12 a	10 a	14 a	11 a
2 Sinbar	6 OZ/A	0 a	0 a	0 a	0 a	15 a	15 a	12 a	12 a
3 Non-treated		7 a	0 a	0 a	0 a	14 a	11 a	10 a	8 a
4 Reflex	2 PT/A	7 a	0 a	0 a	0 a	14 a	13 a	13 a	14 a
LSD (P=.05)	9.6	0.0	0.0	0.0	5.4	7.9	4.4	9.8	
Standard Deviation	4.8	0.0	0.0	0.0	2.7	3.9	2.2	4.9	
CV	127.66	0.0	0.0	0.0	19.46	31.65	17.86	43.43	
Bartlett's X2	0.942	0.0	0.0	0.0	0.327	1.231	1.543	1.758	
P(Bartlett's X2)	0.624	.	.	.	0.955	0.746	0.672	0.624	

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

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Weed Code	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	AVG10PLA	plant 1	
Crop Code	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	ZEAMS	CUUPE	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	
Assessed By									
Trt-Eval Interval	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	
ARM Action Codes							T1		
Trt No.	17	18	19	20	21	22	23	24	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	12 a	12 a	13 a	11 c	12 a	14 a	12 b	7 a
2 Sinbar	6 OZ/A	15 a	14 a	16 a	15 a	15 a	15 a	14 a	6 a
3 Non-treated		12 a	13 a	15 a	15 a	11 a	11 a	12 b	4 a
4 Reflex	2 PT/A	12 a	11 a	11 a	12 b	14 a	14 a	13 ab	5 a
LSD (P=.05)	4.4	5.4	6.4	1.1	5.9	5.3	2.0	2.5	
Standard Deviation	2.2	2.7	3.2	0.6	2.9	2.6	1.0	1.2	
CV	17.74	21.24	23.22	4.2	22.47	19.84	7.83	23.03	
Bartlett's X2	5.337	3.562	5.845	1.774	4.036	3.839	2.1	1.481	
P(Bartlett's X2)	0.149	0.313	0.119	0.621	0.258	0.279	0.552	0.687	

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

Column 23: T1 = @AVG([C13],[C22])

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Weed Code	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	Aug-23-07	
Assessed By									
Trt-Eval Interval	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	150 DA-A	
ARM Action Codes									
Trt No.	25	26	27	28	29	30	31	32	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	7 a	6 a	6 a	7 a	6 a	6 a	8 a	8 a
2 Sinbar	6 OZ/A	6 a	7 a	7 a	5 a	5 a	8 a	8 a	7 a
3 Non-treated		4 a	6 a	7 a	7 a	6 a	8 a	6 a	6 a
4 Reflex	2 PT/A	5 a	7 a	6 a	6 a	7 a	6 a	7 a	7 a
LSD (P=.05)	5.1	3.2	2.7	5.6	5.4	5.6	3.0	6.6	
Standard Deviation	2.6	1.6	1.3	2.8	2.7	2.8	1.5	3.3	
CV	46.85	23.81	20.94	44.94	43.66	40.61	20.8	47.89	
Bartlett's X2	3.998	6.529	7.362	4.779	3.917	2.701	5.404	10.463	
P(Bartlett's X2)	0.262	0.089	0.061	0.189	0.271	0.44	0.145	0.015*	

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

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Weed Code	plant 10	AVG10PLA	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Aug-23-07	Aug-23-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07
Assessed By								
Trt-Eval Interval	150 DA-A	150 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A
ARM Action Codes		T2						
Trt No.	33	34	35	36	37	38	39	40
Treatment Name								
Rate								
Unit								
1 Sinbar	3 OZ/A	5 a	7 a	8 a	11 a	9 a	13 a	13 a
2 Sinbar	6 OZ/A	5 a	6 a	8 a	9 a	9 a	8 a	10 a
3 Non-treated		4 a	6 a	7 a	10 a	11 a	12 a	9 a
4 Reflex	2 PT/A	2 a	6 a	11 a	8 a	15 a	17 a	11 a
LSD (P=.05)	7.1	2.5	7.0	7.6	12.2	9.4	8.5	5.6
Standard Deviation	3.6	1.2	3.5	3.8	6.1	4.7	4.3	2.8
CV	89.46	20.09	41.27	39.92	56.42	37.5	37.92	27.68
Bartlett's X2	4.702	0.672	0.578	0.211	7.777	7.979	0.74	5.478
P(Bartlett's X2)	0.195	0.88	0.901	0.976	0.051	0.046*	0.864	0.14

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

Column 34: T2 = @AVG([C24].[C33])

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Weed Code	plant 7 CUUPE	plant 8 CUUPE	plant 9 CUUPE	plant 10 CUUPE	AVG10PLA CUUPE	plant 1 CUUPE	plant 2 CUUPE	plant 3 CUUPE	
Crop Code	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-11-07	Sep-11-07	Sep-11-07	
Rating Date	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	169 DA-A	169 DA-A	169 DA-A	
Assessed By									
Trt-Eval Interval									
ARM Action Codes					T3				
Trt Treatment	Rate								
No. Name	Rate Unit	41	42	43	44	45	46	47	48
1 Sinbar	3 OZ/A	12 a	8 a	7 a	6 a	10 a	13 a	17 a	19 a
2 Sinbar	6 OZ/A	7 a	10 a	7 a	8 a	8 a	9 a	11 a	9 a
3 Non-treated		10 a	12 a	11 a	10 a	10 a	10 a	10 a	18 a
4 Reflex	2 PT/A	13 a	12 a	10 a	9 a	11 a	11 a	11 a	15 a
LSD (P=.05)		10.2	5.3	7.1	4.3	4.1	10.8	10.2	10.1
Standard Deviation		5.1	2.6	3.6	2.2	2.1	5.4	5.1	5.1
CV		48.67	25.35	40.51	25.74	20.45	49.61	41.82	33.13
Bartlett's X2		4.041	1.981	0.826	2.217	4.778	7.387	1.474	6.938
P(Bartlett's X2)		0.257	0.576	0.843	0.529	0.189	0.061	0.688	0.074

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

Column 45: T3 = @AVG([C35].[C44])

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Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	AVG10PLA	
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	
Assessed By									
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A	169 DA-A	169 DA-A	169 DA-A	169 DA-A	169 DA-A	
ARM Action Codes								T11	
Trt No.	49	50	51	52	53	54	55	56	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	14 a	19 a	19 a	14 a	9 a	10 a	10 a	14 a
2 Sinbar	6 OZ/A	7 a	9 a	9 a	7 a	9 a	7 a	7 a	8 a
3 Non-treated		12 a	9 a	11 a	9 a	14 a	12 a	12 a	12 a
4 Reflex	2 PT/A	17 a	15 a	17 a	16 a	13 a	16 a	16 a	15 a
LSD (P=.05)		14.1	14.6	14.7	12.3	9.0	11.2	11.2	7.3
Standard Deviation		7.1	7.3	7.4	6.2	4.5	5.6	5.6	3.7
CV		56.46	56.19	53.18	53.92	39.54	49.65	49.65	29.77
Bartlett's X2		4.766	8.307	6.171	6.289	0.595	1.623	1.623	12.862
P(Bartlett's X2)		0.19	0.04*	0.104	0.098	0.898	0.654	0.654	0.005*

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

Column 56: T11 = @AVG([C46].[C55])

University of Georgia

Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8
Crop Code	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07
Assessed By								
Trt-Eval Interval	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A
ARM Action Codes								
Trt No.	57	58	59	60	61	62	63	64
Treatment Name								
Rate								
Unit								
1 Sinbar	3 OZ/A	4 a	4 ab	3 a	4 a	5 a	4 a	4 a
2 Sinbar	6 OZ/A	4 a	5 ab	5 a	5 a	3 b	6 a	6 a
3 Non-treated		4 a	2 b	4 a	3 a	3 b	4 a	4 a
4 Reflex	2 PT/A	6 a	6 a	6 a	6 a	5 a	6 a	5 a
LSD (P=.05)	3.9	3.4	3.5	3.7	1.8	3.9	4.1	3.6
Standard Deviation	2.0	1.7	1.7	1.9	0.9	2.0	2.0	1.8
CV	43.03	39.8	40.16	40.66	22.44	40.11	43.59	46.42
Bartlett's X2	3.765	0.0	4.142	0.308	1.556	2.742	2.524	3.57
P(Bartlett's X2)	0.288	0.001*	0.247	0.857	0.212	0.433	0.471	0.312

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

University of Georgia

Weed Code	plant 9	plant 10	AVG10PLA	plant 1	plant 2	plant 3	plant 4	plant 5
Crop Code	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-07-07	Sep-07-07	Sep-07-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	165 DA-A	165 DA-A	165 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A
ARM Action Codes			T4					
Trt No.	65	66	67	68	69	70	71	72
Treatment Name								
Rate								
Unit								
1 Sinbar	3 OZ/A	5 a	5 a	4 a	13 a	12 a	12 a	13 a
2 Sinbar	6 OZ/A	5 a	3 a	5 a	11 a	11 a	13 a	12 a
3 Non-treated		5 a	4 a	4 a	8 a	10 a	9 a	10 a
4 Reflex	2 PT/A	4 a	5 a	5 a	13 a	13 a	13 a	14 a
LSD (P=.05)	3.1	3.1	2.0	7.1	5.9	8.5	5.1	6.1
Standard Deviation	1.5	1.6	1.0	3.6	3.0	4.3	2.5	3.1
CV	31.6	35.2	22.39	31.05	25.54	36.51	20.54	23.52
Bartlett's X2	2.294	0.184	1.787	1.198	1.232	1.13	0.195	1.609
P(Bartlett's X2)	0.514	0.98	0.618	0.753	0.745	0.77	0.978	0.657

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

Column 67: T4 = @AVG([C57].[C66])

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Weed Code	plant 6	plant 7	plant 8	plant 9	plant 10	AVG10PLA	plant 1	plant 2
Crop Code	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	BRSOA	PHSVN	PHSVN
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-07-07	Sep-07-07
Assessed By								
Trt-Eval Interval	178 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	165 DA-A	165 DA-A
ARM Action Codes						T5		
Trt Treatment								
No. Name Rate Unit	73	74	75	76	77	78	79	80
1 Sinbar 3 OZ/A	12 a	13 a	13 ab	13 a	14 ab	13 a	5 a	5 a
2 Sinbar 6 OZ/A	14 a	14 a	16 a	15 a	15 a	13 a	6 a	6 a
3 Non-treated	10 a	10 a	9 b	10 a	11 b	10 a	5 a	4 a
4 Reflex 2 PT/A	13 a	14 a	13 ab	14 a	11 b	14 a	5 a	6 a
LSD (P=.05)	7.7	6.8	6.0	5.3	3.1	5.1	1.8	2.5
Standard Deviation	3.8	3.4	3.0	2.7	1.5	2.6	0.9	1.3
CV	30.87	26.44	23.84	20.55	12.06	20.63	16.8	22.54
Bartlett's X2	5.57	1.619	4.387	6.028	3.84	5.512	2.974	6.702
P(Bartlett's X2)	0.135	0.655	0.223	0.11	0.279	0.138	0.396	0.082

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

Column 78: T5 = @AVG([C68].[C77])

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Weed Code	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	
Crop Code	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	Sep-07-07	
Assessed By									
Trt-Eval Interval	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	165 DA-A	
ARM Action Codes									
Trt No.	81	82	83	84	85	86	87	88	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	5 a	6 a	6 a	5 a	7 a	6 a	8 a	7 a
2 Sinbar	6 OZ/A	6 a	4 a	6 a	6 a	6 a	6 a	6 a	5 a
3 Non-treated		5 a	6 a	6 a	6 a	7 a	6 a	5 a	6 a
4 Reflex	2 PT/A	6 a	6 a	6 a	7 a	6 a	7 a	6 a	5 a
LSD (P=.05)	2.3	4.1	2.4	2.6	2.8	3.1	3.2	3.6	
Standard Deviation	1.2	2.0	1.2	1.3	1.4	1.6	1.6	1.8	
CV	21.88	37.56	20.6	23.01	21.58	25.55	25.24	30.86	
Bartlett's X2	0.528	1.412	1.501	5.047	2.2	2.568	0.908	3.464	
P(Bartlett's X2)	0.768	0.703	0.682	0.168	0.532	0.463	0.824	0.325	

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

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Weed Code	AVG10PLA	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	PHSVN	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-07-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	
Assessed By									
Trt-Eval Interval	165 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	178 DA-A	
ARM Action Codes	T6								
Trt No.	89	90	91	92	93	94	95	96	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	6 a	9 a	8 a	9 a	7 a	11 ab	10 a	13 a
2 Sinbar	6 OZ/A	6 a	12 a	10 a	12 a	10 a	9 b	8 a	12 a
3 Non-treated		6 a	12 a	11 a	11 a	12 a	11 ab	9 a	11 a
4 Reflex	2 PT/A	6 a	9 a	10 a	9 a	12 a	12 a	10 a	11 a
LSD (P=.05)	1.4	3.8	6.9	5.6	5.6	2.8	4.0	5.1	
Standard Deviation	0.7	1.9	3.4	2.8	2.8	1.4	2.0	2.6	
CV	11.81	18.83	35.24	26.77	27.4	12.59	21.35	21.93	
Bartlett's X2	0.746	4.443	1.625	2.255	0.342	1.672	2.585	3.558	
P(Bartlett's X2)	0.862	0.217	0.654	0.521	0.952	0.643	0.46	0.313	

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

Column 89: T6 = @AVG([C79].[C88])

University of Georgia

Weed Code	plant 8	plant 9	plant 10	AVG10PLA	biomass	biomass	biomass	biomass	
Crop Code	PHSVN	PHSVN	PHSVN	PHSVN	CUUPE	CUUPE	CUUPE	BRSOA	
Rating Data Type	ht	ht	ht	ht	#	wt/g	wt/g	#	
Rating Unit	cm	cm	cm	cm	per plot	per plot	perplant	per plot	
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-11-07	Sep-11-07	Sep-11-07	Oct-08-07	
Assessed By									
Trt-Eval Interval	178 DA-A	178 DA-A	178 DA-A	178 DA-A	169 DA-A	169 DA-A	169 DA-A	196 DA-A	
ARM Action Codes				T7					
Trt Treatment	Rate								
No. Name	Rate Unit	97	98	99	100	101	102	103	104
1 Sinbar	3 OZ/A	13 a	12 a	10 a	10 a	17 a	537 ab	47 a	93 a
2 Sinbar	6 OZ/A	11 a	11 a	9 a	10 a	12 a	202 b	18 a	139 a
3 Non-treated		12 a	11 a	11 a	11 a	14 a	611 ab	42 a	110 a
4 Reflex	2 PT/A	9 a	10 a	12 a	10 a	16 a	853 a	52 a	103 a
LSD (P=.05)		7.7	4.1	4.9	1.2	5.1	551.7	34.4	71.1
Standard Deviation		3.9	2.1	2.4	0.6	2.6	276.1	17.2	35.6
CV		33.77	18.46	23.09	5.77	17.32	50.13	43.16	32.01
Bartlett's X2		2.688	3.689	0.897	1.469	5.952	4.613	4.431	2.931
P(Bartlett's X2)		0.442	0.297	0.826	0.689	0.114	0.202	0.219	0.402

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

Column 100: T7 = @AVG([C90].[C99])

University of Georgia

Weed Code	biomass	biomass	biomass	plant 1	plant 2	plant 3	plant 4	plant 5
Crop Code	BRSOA	PHSVN	PHSVN	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Rating Data Type	wt/g	#	wt/g	ht	ht	ht	ht	ht
Rating Unit	per plot	per plot	per plot	cm	cm	cm	cm	cm
Rating Date	Oct-08-07	Oct-08-07	Oct-08-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07
Assessed By								
Trt-Eval Interval	196 DA-A	196 DA-A	196 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	105	106	107	108	109	110	111
1 Sinbar	3 OZ/A	3 a	30 a	0 a	7 a	8 a	7 a	6 a
2 Sinbar	6 OZ/A	5 a	29 a	0 a	7 a	7 a	7 a	7 a
3 Non-treated		2 a	30 a	0 a	8 a	8 a	9 a	9 a
4 Reflex	2 PT/A	3 a	23 a	0 a	8 a	8 a	8 a	7 a
LSD (P=.05)		2.5	22.2	0.3	3.4	4.3	2.5	3.9
Standard Deviation		1.2	11.1	0.1	1.7	2.1	1.2	1.9
CV		39.01	39.89	38.31	22.04	27.46	16.3	26.41
Bartlett's X2		12.347	5.237	2.886	2.182	2.506	1.501	2.374
P(Bartlett's X2)		0.006*	0.155	0.41	0.536	0.474	0.682	0.498
								0.536

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

University of Georgia

Weed Code	plant 6	plant 7	plant 8	plant 9	plant 10	plant av	plant 1	plant 2
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	AVESA	AVESA
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07
Assessed By								
Trt-Eval Interval	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A
ARM Action Codes						T8		
Trt Treatment	Rate							
No. Name	Rate Unit	113	114	115	116	117	118	119
1 Sinbar	3 OZ/A	8 a	7 a	6 b	8 a	8 a	7 a	6 a
2 Sinbar	6 OZ/A	7 a	8 a	8 ab	7 a	7 a	7 a	8 a
3 Non-treated		7 a	8 a	8 ab	7 a	8 a	8 a	9 a
4 Reflex	2 PT/A	8 a	7 a	9 a	7 a	8 a	8 a	9 a
LSD (P=.05)		3.0	2.1	2.1	2.1	2.4	1.4	3.8
Standard Deviation		1.5	1.1	1.1	1.0	1.2	0.7	1.9
CV		20.25	14.23	13.62	14.03	15.49	9.42	24.1
Bartlett's X2		2.538	0.801	2.379	2.391	1.774	1.64	6.977
P(Bartlett's X2)		0.468	0.849	0.498	0.495	0.621	0.65	0.073

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

Column 118: T8 = @AVG([C108].[C117])

University of Georgia

Weed Code	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	
Crop Code	AVESA	AVESA	AVESA	AVESA	AVESA	AVESA	AVESA	AVESA	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	
Assessed By									
Trt-Eval Interval	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	
ARM Action Codes									
Trt No.	121	122	123	124	125	126	127	128	
Treatment Name									
Rate									
Unit									
1 Sinbar	3 OZ/A	7 a	6 a	7 a	7 b	6 a	6 a	6 b	7 a
2 Sinbar	6 OZ/A	7 a	5 a	7 a	7 b	7 a	7 a	7 ab	7 a
3 Non-treated		7 a	7 a	7 a	7 b	8 a	7 a	7 ab	7 a
4 Reflex	2 PT/A	8 a	7 a	7 a	10 a	8 a	9 a	9 a	9 a
LSD (P=.05)	4.9	2.4	2.4	2.5	4.1	2.7	2.8	2.5	
Standard Deviation	2.4	1.2	1.2	1.3	2.0	1.4	1.4	1.3	
CV	34.58	18.79	17.54	16.78	28.39	18.74	19.32	16.24	
Bartlett's X2	12.307	1.215	0.345	1.481	1.099	1.865	0.828	1.481	
P(Bartlett's X2)	0.006*	0.749	0.951	0.687	0.777	0.601	0.843	0.687	

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

University of Georgia

Weed Code	plant av	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7
Crop Code	AVESA	LOLMG	LOLMG	LOLMG	LOLMG	LOLMG	LOLMG	LOLMG
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07
Assessed By								
Trt-Eval Interval	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A	259 DA-A
ARM Action Codes	T9							
Trt Treatment	Rate							
No. Name	Rate Unit	129	130	131	132	133	134	135
1 Sinbar	3 OZ/A	6 b	11 a	8 a	8 a	9 ab	10 a	8 a
2 Sinbar	6 OZ/A	7 ab	8 b	8 a	8 a	8 ab	8 a	8 a
3 Non-treated		7 ab	7 b	7 a	8 a	7 b	9 a	8 a
4 Reflex	2 PT/A	8 a	11 a	10 a	10 a	11 a	10 a	10 a
LSD (P=.05)		1.7	2.3	3.3	2.8	3.5	4.8	2.6
Standard Deviation		0.8	1.2	1.6	1.4	1.7	2.4	1.3
CV		11.59	12.84	19.6	15.97	20.38	25.97	15.65
Bartlett's X2		2.918	0.603	3.067	3.946	5.5	3.449	0.345
P(Bartlett's X2)		0.404	0.896	0.381	0.267	0.139	0.327	0.951

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

Column 129: T9 = @AVG([C119].[C128])

University of Georgia

Weed Code	plant 8	plant 9	plant 10	plant av	biomass	biomass	biomass	
Crop Code	LOLMG	LOLMG	LOLMG	LOLMG	TRZAW	AVESA	LOLMG	
Rating Data Type	ht	ht	ht	ht	wt/kg	wt/kg	wt/kg	
Rating Unit	cm	cm	cm	cm	1 meter	1 meter	1 meter	
Rating Date	Dec-10-07	Dec-10-07	Dec-10-07	Dec-10-07	Jan-22-08	Jan-22-08	Jan-22-08	
Assessed By								
Trt-Eval Interval	259 DA-A	259 DA-A	259 DA-A	259 DA-A	302 DA-A	302 DA-A	302 DA-A	
ARM Action Codes				T10				
Trt Treatment	Rate							
No. Name	Rate Unit	137	138	139	140	141	142	143
1 Sinbar	3 OZ/A	9 ab	9 a	8 a	9 ab	0 a	0 a	0 a
2 Sinbar	6 OZ/A	8 b	8 a	8 a	8 b	0 a	0 a	0 a
3 Non-treated		7 b	9 a	9 a	8 b	0 a	0 a	0 a
4 Reflex	2 PT/A	11 a	8 a	8 a	10 a	0 a	0 a	0 a
LSD (P=.05)		3.0	2.6	2.2	1.5	0.0	0.1	0.1
Standard Deviation		1.5	1.3	1.1	0.8	0.0	0.0	0.0
CV		17.19	16.03	13.15	8.82	35.62	50.12	46.05
Bartlett's X2		1.909	0.345	2.335	3.333	3.43	4.046	0.938
P(Bartlett's X2)		0.592	0.951	0.506	0.343	0.33	0.257	0.816

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

Column 140: T10 = @AVG([C130].[C139])

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Snap bean, sweet corn, collard, squash, oat, wheat, ryegrass,
 response to Sinbar and Reflex applied in the previous watermelon crop

Trial ID: Veg25-07 Study Dir.: Davis, Culpepper
 Location: Ponder farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Davis, Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy **Trial Status:** In progress
State/Prov.: GA **Trial Reliability:** completed
Postal Code: 31795 **Initiation Date:** Mar-26-07
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.	.		

Crop 1: ZEAMS Sweet Corn **Variety:** SuperSweet numbered
Planting Date: Aug-01-07 **Planting Method:** seeded
Rate: 2 4 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 4 inch **Seed Bed:** bareground
Soil Temperature: 90 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 2: PHSVN BEAN, SNAP **Variety:** .
Planting Date: Aug-01-07 **Planting Method:** seeded
Rate: 2 4 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 4 inch **Seed Bed:** bareground
Soil Temperature: 90 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 3: CUUPE Squash **Variety:** Prelude II
Planting Date: Aug-01-07 **Planting Method:** seeded
Rate: 2 2 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 2 inch **Seed Bed:** bareground
Soil Temperature: 90 F **Soil Moisture:** drip **Emergence Date:** _____

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Crop 4: BRSOA Collard **Variety:** Top Bunch
Planting Date: Aug-01-07 **Planting Method:** seeded
Rate: 2 2 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 2 inch **Seed Bed:** bareground
Soil Temperature: 90 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 5: LOLMG RYEGRASS, ANNUAL **Variety:** Wrens
Planting Date: Nov-20-07 **Planting Method:** seeded
Rate: 1 2 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 2 inch **Seed Bed:** bareground
Soil Temperature: 78 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 6: TRZAW WHEAT, WINTER **Variety:** Pioneer 26R24
Planting Date: Nov-20-07 **Planting Method:** seeded
Rate: 1 2 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 2 inch **Seed Bed:** bareground
Soil Temperature: 78 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 7: AVESA OAT, COMMON **Variety:** Coker 227
Planting Date: Nov-20-07 **Planting Method:** seeded
Rate: 1 2 inch **Depth:** 1 in **Perennial Age:** ____ ____
Row Spacing: 12 inch **Spacing Within Row:** 2 inch **Seed Bed:** bareground
Soil Temperature: 78 F **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 180 FT **Reps:** 3
Site Type: Ponder Farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

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: 94 **% OM:** 6.4 **Texture:** Sand
% Silt: 2 **pH:** 1.3 **Soil Name:** Tifton Sandy loam
% Clay: 4 **CEC:** _____ **Fert. Level:** _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.						

Overall Moisture Conditions: irrigated
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

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APPLICATION DESCRIPTION

	A
Application Date:	Mar-26-07
Time of Day:	12
Application Method:	broadcast
Application Timing:	PRE
Applic. Placement:	on soil
Air Temp., Unit:	74 F
% Relative Humidity:	43
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	71 F
Soil Moisture:	moist
% Cloud Cover:	25

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ZEAMS preplant
Stage Scale:	not plant
Height, Unit:	0 inch
Crop 2 Code, Stage:	PHSVN preplant
Stage Scale:	not plant
Height, Unit:	0 inch
Crop 3 Code, Stage:	CUUPE preplant
Stage Scale:	not plant
Height, Unit:	0 inch
Crop 4 Code, Stage:	BRSOA preplant
Stage Scale:	not plant
Height, Unit:	0 inch
Crop 5 Code, Stage:	LOLMG preplant
Stage Scale:	not plant
Height, Unit:	0 inch
Crop 6 Code, Stage:	TRZAW preplant
Stage Scale:	not plant
Height, Unit:	0 inch
Crop 7 Code, Stage:	AVESA preplant
Stage Scale:	not plant
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

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

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	4
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment