

University of Georgia

Bareground transplant watermelon weed management systems with Alanap, Sandea, Strategy, Sinbar, Reflex and sulfentrazone.

Trial ID: Veg23-03

Study Dir.: Lewis/Jennings

Location: Crisp/Wilcox Co.

Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Lewis/Jennings

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: Crisp/Wilcox Co.

Trial Status: completed

State/Prov.: Georgia

Trial Reliability: excellent

Country: U.S.A.

Initiation Date: Apr-17-03

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAZZ	spinny amaranth	

Crop 1: CITLA watermelon

Variety: AU Producer

Planting Date: Apr-21-03

Planting Method: transplant

Rate: 1 4 feet

Depth: 1 in

Row Spacing: 12 feet Spacing Within Row: 4 feet Seed Bed: flat

Soil Temperature: 76 F Soil Moisture: moist

SITE AND DESIGN

Plot Width, Unit: 12 FT Plot Length, Unit: 30 FT Reps: 4

Site Type: on farm

Tillage Type: conventional

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 0. % OM: 0. Texture: .

% Silt: 0. pH: 0. Soil Name: .

% Clay: 0.

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Apr-17-03	Apr-21-03	May-02-03
Time of Day:	11:30am	3:15pm	11:30am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	BeforeT	After T	POST
Applic. Placement:	on soil	overtop	overtop
Air Temp., Unit:	78 F	85 F	78 F
% Relative Humidity:	50	40	53
Wind Velocity, Unit:	6 mph	5 mph	2 mph
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	76 F	80 F	80 F
Soil Moisture:	moist	moist	moist
% Cloud Cover:	5	5	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	CITLA PRETRANS	CITLA After T	CITLA POST
Stage Scale:	.	2-3lf	5 lf
Height, Unit:	0. .	3 inch	8 inch

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMAZZ PRE	AMAZZ PRE	AMAZZ POST
Stage Scale:	..	.	1 inch
Density, Unit:	30 ydsq

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	22	22	22
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch	18 inch
Nozzles/Row:	4	4	4
Boom Length, Unit:	4.5 feet	4.5 feet	4.5 feet
Boom Height, Unit:	15 inch	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph
Carrier:	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

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Bareground transplant watermelon weed management systems with Alanap, Sandea, Strategy, Sinbar, Reflex and sulfentrazone.

Trial ID: Veg23-03

Study Dir.: Lewis/Jennings

Location: Crisp/Wilcox Co.

Investigator: Stanley Culpepper

Weed Code	CITLA	CITLA	CITLA	AMAZZ	AMAZZ	in.melon	in.melon	in.melon
Crop Code	injury	injury	injury	control	control	CITLA	CITLA	CITLA
Rating Data Type	percent	percent	percent	percent	percent	<10lb	<10lb	<10lb
Rating Unit						wt/lb	wt/lb	wt/lb
Rating Date	May-02-03	May-02-03	May-27-03	May-27-03	Jul-13-03	Jul-17-03	Jul-17-03	Jul-17-03
ARM Action Codes								
Trt Treatment								
No. Name Rate Unit	1	2	3	4	5	7	8	9
1 Curbitt 1.5 pt/a	9.5	13.8	0.0	55.5	60.0	1.4	4.7	6.3
2 Strategy 3 pt/a	14.8	23.8	0.0	53.3	41.3	3.9	7.3	5.5
3 Strategy 3 pt/a	5.8	15.0	0.0	65.3	48.3	4.8	2.5	3.9
4 Sandea 0.75 oz/a	23.5	43.8	10.5	99.0	89.0	2.8	4.4	5.3
5 Strategy 3 pt/a	21.8	52.5	16.5	97.3	94.0	3.7	5.7	7.0
Sandea 0.75 oz/a								
6 Strategy 3 pt/a	6.3	38.8	0.0	73.0	75.8	4.1	7.0	5.4
Alanap 5 qt/a								
7 Strategy 3 pt/a	7.5	28.8	0.0	82.8	72.3	3.4	5.7	4.7
Alanap 5 qt/a								
8 Alanap 5 qt/a	20.0	50.0	12.5	99.8	95.0	2.9	3.2	5.3
Sandea 0.75 oz/a								
9 Alanap 5 qt/a	23.0	52.5	13.5	98.3	92.5	1.6	2.1	3.1
Sandea 0.75 oz/a								
Alanap 4 qt/a								
10 Strategy 3 pt/a	8.0	15.0	0.0	83.8	58.8	3.3	5.0	6.0
Alanap 5 qt/a								
Alanap 4 qt/a								
11 Alanap 5 qt/a	4.5	5.0	0.0	56.3	62.8	2.9	4.9	6.3
12 Alanap 5 qt/a	1.3	7.5	0.0	94.8	81.5	4.6	5.9	7.0
Alanap 5 qt/a								
Select 8 oz/a								
NIS 0.25 % v/v								
13 Reflex 1 pt/a	11.0	18.8	2.0	95.8	95.0	4.8	5.9	7.2
14 Sinbar 1.5 oz/a	5.0	7.5	0.0	46.5	69.8	2.6	4.2	5.8
15 Sinbar 3 oz/a	4.3	2.5	0.0	76.8	68.0	3.9	6.0	2.7
16 Sulfentrazone 0.175 lb ai/a	20.0	30.0	2.5	91.3	87.8	3.4	4.9	6.1
17 Sulfentrazone 0.225 lb ai/a	31.8	50.0	13.5	96.5	91.8	4.0	5.1	6.0
18 Non-treated	0.0	0.0	0.0	0.0	0.0	3.8	4.6	6.0
LSD (P=.05)	8.49	11.37	5.95	9.06	10.31	3.58	3.77	4.66
Standard Deviation	6.00	8.04	4.21	6.41	7.29	2.53	2.67	3.30
CV	49.6	31.82	106.66	8.44	10.22	74.12	54.17	59.8
Bartlett's X2	20.457	13.436	6.061	37.395	30.78	18.1	8.652	10.805
P(Bartlett's X2)	0.20	0.493	0.416	0.002*	0.009*	0.383	0.951	0.866

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

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Weed Code		in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon		
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA		
Rating Data Type		<10lb	<10lb	<10lb	<10lb	<10lb	<10lb	<10lb	<10lb	<10lb		
Rating Unit		wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb		
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03		
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	10	11	12	13	14	15	16	17	18
1	Curbit	1.5	pt/a	4.0	1.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
2	Strategy	3	pt/a	6.1	3.9	4.1	1.9	2.0	2.2	2.4	0.0	0.0
3	Strategy	3	pt/a	2.5	3.1	3.6	3.9	4.0	4.4	2.2	2.2	2.3
4	Sandea	0.75	oz/a	6.7	8.2	8.7	7.0	4.9	0.0	0.0	0.0	0.0
5	Strategy Sandea	3 0.75	pt/a oz/a	7.5	8.0	3.6	3.8	1.3	1.5	1.5	1.6	1.6
6	Strategy Alanap	3 5	pt/a qt/a	5.8	4.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
7	Strategy Alanap	3 5	pt/a qt/a	3.2	3.8	3.9	2.4	2.4	2.5	0.0	0.0	0.0
8	Alanap Sandea	5 0.75	qt/a oz/a	6.1	6.8	7.2	5.4	3.3	3.7	3.9	4.2	1.8
9	Alanap Sandea Alanap	5 0.75 4	qt/a oz/a qt/a	3.7	3.4	3.5	3.8	3.9	4.1	4.3	4.5	4.7
10	Strategy Alanap Alanap	3 5 4	pt/a qt/a qt/a	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Alanap	5	qt/a	7.4	5.9	3.5	1.8	2.0	2.1	2.3	0.0	0.0
12	Alanap Alanap Select NIS	5 5 8 0.25	qt/a qt/a oz/a % v/v	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Reflex	1	pt/a	8.1	9.0	7.8	5.9	5.9	6.3	4.0	4.1	4.1
14	Sinbar	1.5	oz/a	6.9	7.8	3.2	4.5	2.3	0.0	0.0	0.0	0.0
15	Sinbar	3	oz/a	3.3	4.1	4.3	4.7	2.4	2.4	0.0	0.0	0.0
16	Sulfentrazone	0.175	lb ai/a	4.8	5.7	6.8	7.0	2.5	0.0	0.0	0.0	0.0
17	Sulfentrazone	0.225	lb ai/a	4.6	5.3	6.2	4.1	1.9	2.0	2.3	0.0	0.0
18	Non-treated			6.4	6.8	5.0	6.2	4.9	0.0	0.0	0.0	0.0
LSD (P=.05)				4.77	5.04	5.90	5.97	5.94	5.12	4.75	4.05	3.88
Standard Deviation				3.37	3.56	4.17	4.22	4.20	3.62	3.36	2.86	2.75
CV				68.17	73.08	99.13	122.6	174.21	210.88	265.84	313.43	345.07
Bartlett's X2				8.007	9.58	7.493	2.284	3.833	3.083	2.975	2.832	3.558
P(Bartlett's X2)				0.949	0.845	0.943	1.00	0.993	0.961	0.887	0.586	0.469

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

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Weed Code		in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon		
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA		
Rating Data Type		<10lb	<10lb	<10lb	<10lb	<10lb	<10lb	<10lb	<10lb	<10lb		
Rating Unit		wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb	wt/lb		
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03		
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	19	20	21	22	23	24	25	26	27
1	Curbit	1.5	pt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	Strategy	3	pt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Strategy	3	pt/a	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Sandea	0.75	oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Strategy Sandea	3 0.75	pt/a oz/a	1.6	1.6	1.7	1.7	1.7	1.8	1.9	2.0	2.2
6	Strategy Alanap	3 5	pt/a qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Strategy Alanap	3 5	pt/a qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	Alanap Sandea	5 0.75	qt/a oz/a	2.0	2.2	2.2	2.2	2.3	2.3	0.0	0.0	0.0
9	Alanap Sandea Alanap	5 0.75 4	qt/a oz/a qt/a	4.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	Strategy Alanap Alanap	3 5 4	pt/a qt/a qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Alanap	5	qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Alanap Alanap Select NIS	5 5 8 0.25	qt/a qt/a oz/a % v/v	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Reflex	1	pt/a	4.2	4.5	4.7	5.0	0.0	0.0	0.0	0.0	0.0
14	Sinbar	1.5	oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	Sinbar	3	oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Sulfentrazone	0.175	lb ai/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Sulfentrazone	0.225	lb ai/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	Non-treated			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD (P=.05)				4.00	3.72	3.61	3.76	1.90	1.94	1.27	1.30	1.43
Standard Deviation				2.83	2.63	2.55	2.66	1.34	1.38	0.90	0.92	1.01
CV				343.93	444.48	537.09	540.81	611.47	611.2	848.53	848.53	848.53
Bartlett's X2				3.23	3.49	3.539	3.796	0.231	0.219	0.0	0.0	0.0
P(Bartlett's X2)				0.52	0.322	0.17	0.15	0.631	0.64	.	.	.

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

University of Georgia

Weed Code		total	total	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA
Rating Data Type		<10lb	<10lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb
Rating Unit		number	wt	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03
ARM Action Codes			T1							
Trt Treatment	Rate									
No. Name	Rate Unit	28	29	31	32	33	34	35	36	37
1 Curbit	1.5 pt/a	3.3	20.4	10.5	11.3	13.0	13.5	14.2	14.3	14.6
2 Strategy	3 pt/a	5.5	39.0	13.0	10.9	11.0	11.5	12.0	12.5	13.6
3 Strategy	3 pt/a	6.5	41.6	11.5	12.4	13.1	13.8	14.6	15.9	16.6
4 Sandea	0.75 oz/a	7.3	47.8	10.1	10.5	10.9	11.3	11.6	12.3	12.7
5 Strategy	3 pt/a	9.5	62.5	10.7	8.0	8.5	8.6	9.3	9.7	10.0
Sandea	0.75 oz/a									
6 Strategy	3 pt/a	4.3	29.3	10.8	11.7	12.4	13.3	13.7	14.4	15.1
Alanap	5 qt/a									
7 Strategy	3 pt/a	5.0	31.8	10.4	11.0	11.3	12.0	12.9	13.5	13.8
Alanap	5 qt/a									
8 Alanap	5 qt/a	10.5	66.5	10.7	11.0	11.5	12.0	12.8	13.2	14.0
Sandea	0.75 oz/a									
9 Alanap	5 qt/a	7.8	49.7	10.2	11.0	11.4	12.0	12.3	13.3	13.4
Sandea	0.75 oz/a									
Alanap	4 qt/a									
10 Strategy	3 pt/a	2.5	16.6	10.6	11.3	12.4	13.5	14.0	14.6	15.4
Alanap	5 qt/a									
Alanap	4 qt/a									
11 Alanap	5 qt/a	6.3	38.9	10.7	11.7	12.2	12.8	13.1	13.4	13.7
12 Alanap	5 qt/a	2.3	17.4	11.4	12.4	13.4	13.8	14.5	15.1	15.6
Alanap	5 qt/a									
Select	8 oz/a									
NIS	0.25 % v/v									
13 Reflex	1 pt/a	9.0	90.9	11.1	12.3	13.2	13.6	14.5	14.7	15.2
14 Sinbar	1.5 oz/a	6.3	37.2	10.7	11.5	11.8	12.1	13.3	13.5	14.4
15 Sinbar	3 oz/a	5.0	33.6	13.2	12.4	13.6	14.6	14.9	10.7	11.8
16 Sulfentrazone	0.175 lb ai/a	6.3	40.9	10.8	11.2	11.5	11.7	12.2	12.4	12.9
17 Sulfentrazone	0.225 lb ai/a	6.5	41.5	11.4	11.8	12.4	13.1	14.2	14.7	14.9
18 Non-treated		7.0	43.5	8.8	8.3	9.4	10.1	11.1	8.2	8.2
LSD (P=.05)		5.48	46.72	3.31	3.15	3.46	3.64	3.92	5.05	5.38
Standard Deviation		3.88	33.03	2.34	2.23	2.45	2.57	2.78	3.57	3.81
CV		63.17	79.43	21.46	20.03	20.73	20.78	21.29	27.24	27.9
Bartlett's X2		30.55	57.779	95.067	50.213	55.583	44.598	47.871	62.456	57.59
P(Bartlett's X2)		0.023*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*

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

Column 28: T1 =

[C7]+[C8]+[C9]+[C10]+[C11]+[C12]+[C13]+[C14]+[C15]+[C16]+[C17]+[C18]+[C19]+[C20]+[C21]+[C22]+[C23]+[C24]+[C25]+[C26]+[C27]

University of Georgia

Weed Code		in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon		
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA		
Rating Data Type		10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb		
Rating Unit		wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs		
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03		
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	38	39	40	41	42	43	44	45	46
1	Curbit	1.5	pt/a	15.0	15.3	16.1	16.4	11.7	12.1	12.2	13.0	8.4
2	Strategy	3	pt/a	13.8	14.8	15.4	16.3	17.7	13.6	4.1	4.2	4.2
3	Strategy	3	pt/a	17.0	18.0	8.5	9.0	4.4	4.4	4.5	4.5	4.7
4	Sandea	0.75	oz/a	13.3	14.4	14.5	15.2	15.7	11.3	11.9	12.6	12.8
5	Strategy Sandea	3 0.75	pt/a oz/a	10.4	10.7	11.3	11.6	12.5	12.6	12.8	13.0	11.4
6	Strategy Alanap	3 5	pt/a qt/a	15.6	16.5	17.3	18.1	18.9	9.1	9.3	4.9	0.0
7	Strategy Alanap	3 5	pt/a qt/a	14.2	14.8	15.9	16.3	12.4	12.6	8.2	8.6	9.2
8	Alanap Sandea	5 0.75	qt/a oz/a	14.5	14.9	15.4	16.1	11.8	12.3	12.5	12.8	13.0
9	Alanap Sandea Alanap	5 0.75 4	qt/a oz/a qt/a	9.6	9.9	10.2	10.7	10.8	11.5	11.7	12.5	8.2
10	Strategy Alanap Alanap	3 5 4	pt/a qt/a qt/a	16.3	16.5	16.9	17.8	13.5	13.9	9.1	9.2	9.3
11	Alanap	5	qt/a	14.4	11.0	11.3	11.8	12.4	12.5	13.8	9.2	4.6
12	Alanap Alanap Select NIS	5 5 8 0.25	qt/a qt/a oz/a % v/v	15.8	16.1	16.5	16.7	12.1	12.2	12.4	12.8	13.3
13	Reflex	1	pt/a	15.5	15.9	16.4	16.9	12.2	12.4	13.1	8.6	9.0
14	Sinbar	1.5	oz/a	14.9	16.2	12.4	13.0	13.2	13.4	14.1	14.2	4.8
15	Sinbar	3	oz/a	6.9	7.0	8.0	8.2	8.4	8.5	8.9	4.8	0.0
16	Sulfentrazone	0.175	lb ai/a	13.6	14.0	14.4	15.0	15.3	15.7	16.0	16.7	17.1
17	Sulfentrazone	0.225	lb ai/a	15.5	11.0	11.2	11.7	12.2	7.9	8.7	4.5	4.5
18	Non-treated			9.2	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD (P=.05)				5.62	6.63	7.45	7.79	10.11	11.57	11.88	12.22	11.87
Standard Deviation				3.97	4.69	5.27	5.51	7.15	8.18	8.40	8.64	8.39
CV				29.16	34.3	41.02	41.24	59.94	75.3	82.66	93.97	112.57
Bartlett's X2				56.689	56.688	51.791	49.629	23.008	6.782	7.007	6.371	6.523
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.001*	0.114	0.977	0.973	0.984	0.952

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

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Weed Code		in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon		
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA		
Rating Data Type		10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb		
Rating Unit		wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs		
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03		
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	47	48	49	50	51	52	53	54	55
1	Curbit	1.5	pt/a	9.0	9.1	9.8	9.8	0.0	0.0	0.0	0.0	0.0
2	Strategy	3	pt/a	4.3	4.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0
3	Strategy	3	pt/a	5.4	5.4	5.5	6.2	0.0	0.0	0.0	0.0	0.0
4	Sandea	0.75	oz/a	12.9	13.2	13.9	9.5	4.7	4.8	4.9	5.2	5.2
5	Strategy Sandea	3 0.75	pt/a oz/a	8.8	9.1	9.2	9.4	4.9	0.0	0.0	0.0	0.0
6	Strategy Alanap	3 5	pt/a qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	Strategy Alanap	3 5	pt/a qt/a	9.5	4.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0
8	Alanap Sandea	5 0.75	qt/a oz/a	8.5	8.8	8.9	9.4	4.9	4.9	0.0	0.0	0.0
9	Alanap Sandea Alanap	5 0.75 4	qt/a oz/a qt/a	8.6	9.0	9.6	4.8	4.9	0.0	0.0	0.0	0.0
10	Strategy Alanap Alanap	3 5 4	pt/a qt/a qt/a	4.7	4.8	4.8	4.9	0.0	0.0	0.0	0.0	0.0
11	Alanap	5	qt/a	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	Alanap Alanap Select NIS	5 5 8 0.25	qt/a qt/a oz/a % v/v	13.4	13.8	14.1	14.4	14.6	9.8	0.0	0.0	0.0
13	Reflex	1	pt/a	4.2	4.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
14	Sinbar	1.5	oz/a	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	Sinbar	3	oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Sulfentrazone	0.175	lb ai/a	12.9	8.3	8.7	8.7	8.9	9.0	4.4	5.0	0.0
17	Sulfentrazone	0.225	lb ai/a	4.7	4.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
18	Non-treated			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD (P=.05)				12.45	11.78	12.20	10.87	8.17	7.02	4.39	4.81	3.47
Standard Deviation				8.80	8.33	8.63	7.68	5.78	4.96	3.10	3.40	2.45
CV				136.73	150.61	150.29	180.09	243.2	313.42	606.71	605.97	848.53
Bartlett's X2				0.54	0.343	0.325	0.363	0.023	0.098	0.035	0.005	0.0
P(Bartlett's X2)				1.00	1.00	1.00	1.00	1.00	0.992	0.851	0.946	.

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

University of Georgia

Weed Code		total	total	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon		
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA		
Rating Data Type		10-20lb	10-20lb	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs		
Rating Unit		number	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs		
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03		
ARM Action Codes			T2									
Trt No.	Treatment Name	Rate	Unit	56	57	59	60	61	62	63	64	65
1	Curbit	1.5	pt/a	15.5	260.6	15.8	16.5	11.6	5.9	6.5	6.5	6.9
2	Strategy	3	pt/a	14.5	219.2	16.7	12.1	6.0	6.5	7.2	0.0	0.0
3	Strategy	3	pt/a	12.3	199.2	22.2	16.6	17.7	12.4	7.8	0.0	0.0
4	Sandea	0.75	oz/a	18.3	285.8	20.5	21.4	10.4	11.2	11.4	11.5	6.3
5	Strategy Sandea	3 0.75	pt/a oz/a	14.3	224.7	15.5	16.6	16.9	17.2	12.5	16.0	0.0
6	Strategy Alanap	3 5	pt/a qt/a	13.3	219.7	22.6	16.4	17.0	12.3	12.4	13.1	8.7
7	Strategy Alanap	3 5	pt/a qt/a	13.8	228.1	15.6	16.5	17.5	18.1	12.6	14.3	6.1
8	Alanap Sandea	5 0.75	qt/a oz/a	18.0	260.4	10.2	10.9	11.2	11.9	12.5	13.1	6.8
9	Alanap Sandea Alanap	5 0.75 4	qt/a oz/a qt/a	14.8	225.6	20.7	21.2	17.4	11.3	12.1	12.8	13.8
10	Strategy Alanap Alanap	3 5 4	pt/a qt/a qt/a	15.0	246.5	21.0	21.6	17.3	11.9	12.5	13.2	6.5
11	Alanap	5	qt/a	13.0	205.0	15.7	17.5	17.9	6.4	6.7	7.0	7.6
12	Alanap Alanap Select NIS	5 5 8 0.25	qt/a qt/a oz/a % v/v	19.0	305.9	21.3	16.6	17.4	18.2	19.9	21.4	14.6
13	Reflex	1	pt/a	16.0	240.0	20.6	20.8	21.9	23.1	24.0	18.1	18.5
14	Sinbar	1.5	oz/a	14.0	221.1	20.5	21.0	22.8	16.6	18.3	11.8	14.4
15	Sinbar	3	oz/a	11.5	159.8	20.8	21.2	21.9	22.9	17.5	11.8	11.9
16	Sulfentrazone	0.175	lb ai/a	19.8	292.2	20.5	21.2	22.2	23.7	24.4	12.8	13.1
17	Sulfentrazone	0.225	lb ai/a	13.3	205.6	21.0	21.7	22.4	17.7	18.0	18.9	11.7
18	Non-treated			7.0	82.4	13.0	14.1	2.8	3.3	3.7	4.0	4.0
LSD (P=.05)				6.86	105.77	9.69	12.49	14.03	16.36	17.68	18.82	18.36
Standard Deviation				4.85	74.79	6.85	8.83	9.92	11.57	12.50	13.31	12.98
CV				33.21	32.99	36.99	49.13	61.1	83.26	93.87	116.33	155.33
Bartlett's X2				12.331	12.791	125.442	96.673	45.335	25.456	17.834	2.323	2.457
P(Bartlett's X2)				0.78	0.75	0.001*	0.001*	0.001*	0.085	0.399	1.00	1.00

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

Column 55: T2 =

[C31]+[C32]+[C33]+[C34]+[C35]+[C36]+[C37]+[C38]+[C39]+[C40]+[C41]+[C42]+[C43]+[C44]+[C45]+[C46]+[C47]+[C48]+[C49]+[C50]+[C51]+[C42]+[C53]+[C54]+[C55]

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Weed Code		in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	in.melon	total		
Crop Code		CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA		
Rating Data Type		>20lbs	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs	>20lbs		
Rating Unit		wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	wt/lbs	number		
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03	Jul-17-03		
ARM Action Codes												
Trt No.	Treatment Name	Rate	Unit	66	67	68	69	70	71	72	73	74
1	Curbit	1.5	pt/a	6.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
2	Strategy	3	pt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
3	Strategy	3	pt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
4	Sandea	0.75	oz/a	6.3	6.3	6.6	6.7	0.0	0.0	0.0	0.0	5.3
5	Strategy Sandea	3 0.75	pt/a oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
6	Strategy Alanap	3 5	pt/a qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
7	Strategy Alanap	3 5	pt/a qt/a	6.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	4.5
8	Alanap Sandea	5 0.75	qt/a oz/a	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
9	Alanap Sandea Alanap	5 0.75 4	qt/a oz/a qt/a	6.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0	5.3
10	Strategy Alanap Alanap	3 5 4	pt/a qt/a qt/a	6.8	8.0	8.7	0.0	0.0	0.0	0.0	0.0	5.3
11	Alanap	5	qt/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
12	Alanap Alanap Select NIS	5 5 8 0.25	qt/a qt/a oz/a % v/v	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
13	Reflex	1	pt/a	19.3	19.6	20.1	20.4	20.7	14.2	14.9	15.3	11.8
14	Sinbar	1.5	oz/a	6.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
15	Sinbar	3	oz/a	11.9	12.8	14.0	6.4	7.5	7.9	0.0	0.0	8.0
16	Sulfentrazone	0.175	lb ai/a	13.3	13.7	7.9	7.9	0.0	0.0	0.0	0.0	7.5
17	Sulfentrazone	0.225	lb ai/a	6.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	6.3
18	Non-treated			4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	3.3
LSD (P=.05)				16.33	15.75	11.49	9.47	6.71	7.44	5.74	5.88	4.85
Standard Deviation				11.54	11.14	8.13	6.70	4.75	5.26	4.06	4.16	3.43
CV				188.56	199.2	256.14	291.22	303.43	429.44	490.25	490.79	66.87
Bartlett's X2				1.263	1.407	0.344	0.153	0.017	0.006	0.0	0.0	5.777
P(Bartlett's X2)				1.00	0.999	0.987	0.985	0.896	0.94	.	.	0.995

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

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Weed Code		total	TOTAL	TOTAL	
Crop Code		CITLA	CITLA	CITLA	
Rating Data Type		>20lbs	all	all	
Rating Unit		wt/lbs	number	wt/lbs	
Rating Date		Jul-17-03	Jul-17-03	Jul-17-03	
ARM Action Codes		T3	T4	T5	
Trt No.	Treatment Name	Rate	75	76	77
1	Curbit	1.5 pt/a	83.4	22.3	364.3
2	Strategy	3 pt/a	48.5	22.0	306.6
3	Strategy	3 pt/a	76.7	22.0	317.5
4	Sandea	0.75 oz/a	118.5	30.8	452.1
5	Strategy Sandea	3 pt/a 0.75 oz/a	94.6	27.8	381.8
6	Strategy Alanap	3 pt/a 5 qt/a	102.4	21.8	351.4
7	Strategy Alanap	3 pt/a 5 qt/a	114.1	23.3	373.9
8	Alanap Sandea	5 qt/a 0.75 oz/a	83.9	32.0	410.7
9	Alanap Sandea Alanap	5 qt/a 0.75 oz/a 4 qt/a	123.0	27.8	398.3
10	Strategy Alanap Alanap	3 pt/a 5 qt/a 4 qt/a	127.3	22.8	390.3
11	Alanap	5 qt/a	78.7	22.5	322.5
12	Alanap Alanap Select NIS	5 qt/a 5 qt/a 8 oz/a 0.25 % v/v	137.2	26.8	460.4
13	Reflex	1 pt/a	291.2	36.8	622.1
14	Sinbar	1.5 oz/a	139.8	26.3	398.0
15	Sinbar	3 oz/a	188.1	24.5	381.5
16	Sulfentrazone	0.175 lb ai/a	180.5	33.5	513.5
17	Sulfentrazone	0.225 lb ai/a	144.4	26.0	391.5
18	Non-treated		53.3	17.3	179.1
LSD (P=.05)			118.50	8.61	171.94
Standard Deviation			83.79	6.09	121.58
CV			69.02	23.52	31.2
Bartlett's X2			7.134	15.75	15.291
P(Bartlett's X2)			0.982	0.542	0.575

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

Column 72: T3 =

[59]+[60]+[61]+[62]+[63]+[64]+[65]+[66]+[67]+[68]+[69]+[70]+[71]+[72]+[73]

Column 73: T4 = [28]+[56]+[74]

Column 74: T5 = [29]+[57]+[75]

Trial Comments

GENERAL: Grasses were removed from the study with Select. A once over harvest was conducted.

OBJECTIVE: Determine watermelon tolerance and pigweed control to several broadleaf herbicides.

RESULTS:

Visual Injury (stunting):

- 1) Strategy applied prior to transplant was more injurious than applied after transplant at 2 WAT.
- 2) Greater than 20% injury was detected with all Sandea PRE treatments. No rain occurred between application and planting. A rain occurred the afternoon after planting.
- 3) At 5 WAT, most stunting was no longer visible except with the Sandea treatments and high rate of sulfentrazone (10-16%).

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Spinny amaranth control:

- 1) At 5 WAT, control by Sandea treatments, two applications of Alanap, Reflex and sulfentrazone were the only options providing adequate control of at least 89%.
- 2) By 12 WAT, greater than 80% control was only noted with Reflex, sulfentrazone, all Sandea treatments, and when sequential 5 qt Alanap applications were made.

Yields:

- 1) Yields were closely related to pigweed control but were also likely impacted by injury.
- 2) Greatest numerical yields were noted in the Reflex treatment.
- 3) Plots treated with Sandea, sequential Alanap treatments, and the low rate of sulfentrazone provided yields similar to Reflex. All other treatments provided less lower yields.