		Watern	elon re	espon	se to S	Sandea	a, Reflex a	nd an	d Val	or ar	oplied under mulch.
Tri Loc	Inial ID: Veg13-05(melons) Study Dir.: Stanley Culpepper Study Dir.: Stanley Culpepper										
Rep: Spra	s: 3 ay vol: 14.8 ga	Pl al/ac	ots: 6 by Mix s	25 fee ize: 1 l	et iters (mi	n .578 [.]	76)	1			
Trt No.	Treatment Name	Form Fo Conc Ty	rm be Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot N 1	lo. By I 2	Rep 3	
1	Non-treated							101	204	305	
2	Sandea	75 DF	1	oz/a	PPIUP	А	0.506 g/mx	102	205	303	
3	Sandea	75 DF	1	oz/a	PRET	Α	0.506 g/mx	103	202	304	
4	Reflex	2 L	1.0	pt/a	PPIUP	Α	8.445 ml/mx	104	201	302	
5	Reflex	2 L	1	pt/a	PRET	Α	8.445 ml/mx	105	203	301	
6	Valor	51 WI)G 2	oz/a	PRET	А	1.012 g/mx	106	206	306	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
1.265	g	Sandea 75 DF	
21.113	ml	Reflex 2 L	
1.265	g	Valor 51 WDG	

* '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.

Trial Comments

OBJECTIVE: Evaluate Sandea, Reflex, and Valor applied under mulch prior to transplant.

Melon Response:

- 1. Visually at 21 DAP, Valor and Sandea stunted melons 13 to 15%. By 60 DAT, melons were still stunted at least 11%.
- 2. At 24 and 47 DAP, melon diameters were smaller when treated with Sandea or Valor as compared to the non-treated control.
- 3. Sandea applied PRE was more injurious than applied PPI which was likely a response to hot spots caused by the mulch layer.

Crowfootgrass Control:

- 1. The trial was maintained weed free but prior to a Select application grass control was rated.
- 2. Control was extremely variable. Sandea tended to provide the most suppression followed by Reflex and Valor.

CONCLUSIONS:

1. Sandea and Valor should not be applied under mulch.

Standardized Summary Page 2 of 7

University of Georgia

Waterme	lon respo	nse to Sa	ndea, Rei	Elex and a	and Valor	applied u	nder mul	ch.	
Trial ID: Veg13-05(melo Location: Ponder 5139	ons)	S Inv	tudy Dir. estigator	: Stanley : Stanley	Culpeppe Culpeppe	er er			
Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval ARM Action Codes # Subsamples, Dec.	watermel injury percent Apr-05-05 15 DA-A	watermel injury percent Apr-15-05 25 DA-A	watermel injury percent Apr-27-05 37 DA-A	watermel injury percent May-16-05 56 DA-A	watermel injury percent May-24-05 64 DA-A	DTTAE control percent May-16-05 56 DA-A	plant 1 watermel dt cm Apr-18-05 28 DA-A	plant 2 watermel dt cm Apr-18-05 28 DA-A	plant 3 watermel dt cm Apr-18-05 28 DA-A
Trt Treatment Rate No. Name Rate Unit	1	2	3	4	5	6	7	8	9
1 Non-treated	0	0	0	0	0	0	14	18	20
2 Sandea 1 oz/a	0	13	18	21	11	73	15	15	13
3 Sandea 1 oz/a	0	15	35	33	13	80	12	13	12
4 Reflex 1.0 pt/a	0	3	3	3	0	58	17	17	18
5 Reflex 1 pt/a	0	7	2	8	3	50	13	16	20
6 Valor 2 oz/a	0	14	33	33	18	47	15	12	13
LSD (P=.05) Standard Deviation CV	0.0 0.0 0.0	5.5 3.0 34.28	7.7 4.2 27.91	10.7 5.9 36.4	4.4 2.4 31.43	18.7 10.3 19.99	6.7 3.7 25.98	6.5 3.6 23.88	6.0 3.3 20.65

Means followed by same letter do not significantly differ (P=.05, LSD)

Weed Code	plant 4	plant 5	Avg5plan	plant 1	plant 2	plant 3	plant 4	plant 5
Crop Code	watermel							
Rating Data Type	dt							
Rating Unit	cm							
Rating Date	Apr-18-05	Apr-18-05	Apr-18-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	51 DA-A				
ARM Action Codes			T1					
# Subsamples, Dec.			1					
Trt Treatment Rate								
No. Name Rate Unit	10	11	12	13	14	15	16	17
1 Non-treated	20	18	17.7	88	81	78	85	89
2 Sandea 1 oz/a	12	16	14.1	64	64	61	65	72
3 Sandea 1 oz/a	13	13	12.6	57	59	52	68	34
4 Reflex 1.0 pt/a	16	19	17.3	73	66	74	83	79
5 Reflex 1 pt/a	21	20	18.0	65	81	88	80	67
6 Valor 2 oz/a	12	10	12.5	79	63	61	51	51
LSD (P=.05)	3.5	7.7	2.65	33.6	27.4	32.5	31.1	30.5
Standard Deviation	1.9	4.2	1.45	18.5	15.1	17.9	17.1	16.8
CV	12.29	26.49	9.46	25.99	21.81	26.01	23.68	25.67

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 12: T1 = @AVG([C7].[C11])

Wee Crop Rati Rati Rati Trt-E	ed Code o Code ng Data Type ng Unit ng Date Eval Interval	Avg5plan watermel dt cm May-11-05 51 DA-A		
ARN	Action Code	s		T2
# Sı	ibsamples, D	ec.		1
Trt	Treatment		Rate	
No.	Name	Rate	Unit	18
1	Non trooted			0/1
	Non-treated			04.1
2	Sandea	1	oz/a	65.3
2 3	Sandea Sandea	1	oz/a oz/a	65.3 53.9
1 2 3 4	Sandea Sandea Reflex	1 1 1.0	oz/a oz/a pt/a	65.3 53.9 75.1
1 2 3 4 5	Sandea Sandea Reflex Reflex	1 1 1.0 1	oz/a oz/a pt/a pt/a	65.3 53.9 75.1 76.4
1 2 3 4 5 6	Sandea Sandea Reflex Reflex Valor	1 1 1.0 1 2	oz/a oz/a pt/a pt/a oz/a	64.1 65.3 53.9 75.1 76.4 60.9
1 2 3 4 5 6 LSD	Sandea Sandea Reflex Reflex Valor (P=.05)	1 1.0 1 2	oz/a oz/a pt/a pt/a oz/a	65.3 53.9 75.1 76.4 60.9 10.85
2 3 4 5 6 LSD Star	Sandea Sandea Reflex Reflex Valor (P=.05) ndard Deviatio	1 1 1.0 1 2 0n	oz/a oz/a pt/a oz/a	65.3 53.9 75.1 76.4 60.9 10.85 5.97

Means followed by same letter do not significantly differ (P=.05, LSD) Column 18: T2 = @AVG([C13].[C17])

		, ,	
	Watermelon response	to Sandea, Reflex and and Valor app	lied under mulch.
Trial ID. Vegl	3-05(melong)	Study Dir · Stapley Gulpepper	
Logation: Dond	5 - 0.5 (metons)	Investigator: Stanley Culpepper	
	=1 3139	investigator: Stanley Curpepper	
	GENERAL TH	RIAL INFORMATION	
Study Director	: Stanley Culpepper	Title: Ext. Weed	Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed	Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
	TRIA	AL LOCATION	
City: T	уТу	Trial Status:	completed
State/Prov.: G	Α	Trial Reliability:	good
Postal Code: 3	1794	Initiation Date:	Mar-21-05
Country: U	SA	Planned Completion Date:	
E-Longitude of	LL Corner °:	N-Latitude of LL Corner °:	
Altitude of LL	Corner: Unit	Angle y-axis to North °:	
Directions:			
	COOPERA	ATOR/LANDOWNER	
Cooperator:		Country:	
Org:		Phone No:	
Address 1:		Fax No:	
Address 2:			
City:			
State/Prov:			
Postal Code: _			
Conducted Under	r GLP (Y/N): N	Conducted Under GEP (Y/N): N	
Guidelines:	Guideline I	Description:	
Objective:			
Conclusions:			

			CROP AND WEED DESCRIPTION
Weed	Code	Common Name	Scientific Name
1.	DTTAE	crowfootgrass	

Crop 1: CITLA watermelo Planting Date: Mar-24-05 Rate: 1 3 feet Row Spacing: 12 feet	Planting Method Depth: 1 in Spacing Within Row: 3	Variety: Milliona d: transplant Perennial Age: feet Seed Bed: fl	aire lat on 15"mulch
Soil Temperature: 75 F	Soil Moisture: drip	Emergence Date:	
	SITE AND DESIGN		
Plot Width, Unit: 6 F Site Type: research sta	T Plot Length, Unit:	25 FT Reps:	3
Tillage Type: 15 inch mulc	h Study Design:	RANDOMIZED COMPLETE	BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

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

					SOIL DESCRIPTION	N
%	Sand:	94	% OM:	1.1	Texture:	sand
%	silt:	2	pH:	6.4	Soil Name:	Tifton sandy loam
%	Clay:	4	CEC:		Fert. Level:	

ADDITIONAL M	IEASURED ELEMEN	TS
Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation Closest Weather Station: _____ Distance: ____ Unit: __

	A
Application Date:	Mar-21-05
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	PPI/PRE
Applic. Placement:	on soil
Air Temp., Unit:	76 F
% Relative Humidity:	64
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	67 F
Soil Moisture:	drip
% Cloud Cover:	90

APPLICATION DESCRIPTION

CROP STAGE AT EACH APPLICATION

	A	
Crop 1 Code, Stage:	CITLA PRE/PPI	
Stage Scale:	not plant	
Height, Unit:	0 in	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DTTAE PRE/PPI
Stage Scale:	not up
Density, Unit:	4 ydsq

Site Description Page 7 of 7

University of Georgia

	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