

University of Georgia

Cotton response to simulated Sandea carryover.

Trial ID: C38-06
Location: Attapulcus

Study Dir.: A. Stanley Culpepper
Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 25 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

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	4
1	Sandea	75	DF	DF	0.08	OZ/A	PPI	A	.04048 g/mx	101	203	302	405
2	Sandea	75	DF	DF	0.16	OZ/A	PPI	A	.08096 g/mx	102	201	304	401
3	Sandea	75	DF	DF	0.33	OZ/A	PPI	A	0.167 g/mx	103	202	305	402
4	Sandea	75	DF	DF	0.5	OZ/A	PPI	A	0.253 g/mx	104	205	303	404
5	None									105	204	301	403

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
0.677	g	Sandea	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.

Trial Comments

OBJECTIVE: Determine cotton response to Sandea applied preplant incorporated just prior to planting.

VISUAL COTTON RESPONSE:

1. Less than 10% stunting was noted with Sandea at 0.33 oz/A.
2. Cotton stunting from 0.5 oz/A of Sandea reached 15% at 27 DAT but cotton recovered by 39 DAT.

PALMER AMARANTH RESPONSE:

1. Sandea at 0.16 oz/A or higher provided excellent control of Palmer.

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Weed Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	AMAPA	AMAPA	AMAPA		
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
Rating Data Type	injury	injury	injury	injury	injury	control	control	control		
Rating Unit	%	%	%	%	%	%	%	%		
Rating Date	Jun-06-06	Jun-15-06	Jun-27-06	Aug-02-06	Aug-02-06	Jun-06-06	Jun-15-06	Oct-12-06		
Assessed By	SC	SC	AD	AD	SC	SC	SC	SC		
Trt-Eval Interval	18 DA-A	27 DA-A	39 DA-A	75 DA-A	75 DA-A	18 DA-A	27 DA-A	146 DA-A		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
			1	2	3	4	5	6		
1	Sandea	0.08 OZ/A	1 bc	5 b	0 a	0 a	0 a	83 b	81 b	71 b
2	Sandea	0.16 OZ/A	5 bc	6 b	0 a	0 a	0 a	93 ab	93 ab	92 a
3	Sandea	0.33 OZ/A	8 b	6 ab	0 a	0 a	0 a	98 a	96 a	93 a
4	Sandea	0.5 OZ/A	15 a	15 a	4 a	0 a	0 a	100 a	100 a	97 a
5	None		0 c	0 b	5 a	0 a	0 a	0 c	0 c	0 c
LSD (P=.05)			6.5	9.0	4.2	0.0	0.0	11.7	11.6	10.8
Standard Deviation			4.2	5.9	2.7	0.0	0.0	7.6	7.5	7.0
CV			74.14	93.64	160.02	0.0	0.0	10.18	10.19	9.94
Bartlett's X2			5.721	3.963	0.049	0.0	0.0	4.816	3.144	16.591
P(Bartlett's X2)			0.126	0.266	0.825	.	.	0.09	0.208	0.001*

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

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Location: Attapulgus Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: A. 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

TRIAL LOCATION

City: Attapulgus **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: _____ **Initiation Date:** May-19-06
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.	AMAPA	Palmer amaranth	

Crop 1: GOSHI cotton **Variety:** WR 485 BRFlex
Planting Date: May-19-06 **Planting Method:** conventional
Rate: 3 ft **Depth:** 0.5 in **Perennial Age:** _____
Row Spacing: 36 inch **Spacing Within Row:** 4 inch **Seed Bed:** flat
Soil Temperature: 80 F **Soil Moisture:** moist **Emergence Date:** May-24-06

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: Attapulgus research farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 84 % OM: 1.3 Texture: loamy sand
 % Silt: 8 pH: 6.0 Soil Name: _____
 % Clay: 8 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	May-19-06
Time of Day:	7 am
Application Method:	broadcast
Application Timing:	PPI
Applic. Placement:	on soil
Air Temp., Unit:	75 F
% Relative Humidity:	49
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	80 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAPA preplant
Stage Scale:	not up
Density, Unit:	30 ydsq

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APPLICATION EQUIPMENT

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

Trt No	Treatment Application Comment