Roundup Ready and Liberty Link cotton response to several defoliants.

Trial ID: C16-05 Study Dir.: Stanley Culpepper Location: Ponder (5510) Investigator: Stanley Culpepper

Reps: 3 Plots: 12 by 22 feet

Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min 1.0186)

97.0	iy voi. 14.0 ga	,				nicio (iii						
		Form Conc						Amt Product to Measure	Plot N	o. By F 2	Rep 3	
IVO.	Name	COLIC	Type	Nate	Utill	Oig	Code	เบาพอสอนเอ			<u> </u>	
1	Non-treated								101	203	305	
2	Resource	0.86	EC	6	oz/a	defoliat	Α	4.751 ml/mx	102	206	301	
	PREP	6	L	1.3	pt/a	defoliat	Α	16.47 ml/mx				
	COC		L	1	pt/a	defoliat	Α	12.67 ml/mx				
3	Resource	0.86	EC	4	oz/a	defoliat	Α	3.167 ml/mx	103	202	306	
	Finish		L	1.3	pt/a	defoliat	Α	16.47 ml/mx				
	COC		L	1	pt/a	defoliat	Α	12.67 ml/mx				
4	Resource	0.86	EC	4	oz/a	defoliat	Α	3.167 ml/mx	104	201	304	
	PREP	6	L	1.3	pt/a	defoliat	Α	16.47 ml/mx				
	COC		L	1	pt/a	defoliat	Α	12.67 ml/mx				
5	Aim	2	EC	1	oz/a	defoliat	A	0.7918 ml/mx	105	204	302	
	Finish		L	1.3	pt/a	defoliat	Α	16.47 ml/mx				
	NIS		L	0.25	% v/v	defoliat	Α	3.75 ml/mx				
6	Finish		L	1.3	pt/a	defoliat	Α	16.47 ml/mx	106	205	303	
	Ginstar		L	6	oz/a	defoliat	Α	4.751 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
13.857	ml	Resource 0.86 EC	
41.170	ml	PREP 6 L	
47.503	ml	COC L	
61.754	ml	Finish L	
0.990	ml	Aim 2 EC	
4.687	ml	NIS L	
5.939	ml	Ginstar L	

- ' 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

Trial Comments

OBJECTIVE: Compare cotton cultivar response to several defoliants.

DEFOLIATION:

- 1. Conditions were extremely dry at harvest in addition to nematode damage causing erratic cotton heights.
- 2. Finish plus Ginstar was actually the quickest option. However, by 10 and 20 d after application percent defoliation was similar among several treatments
- 3. Resource at 6 oz + Prep was at least 13% more effective than Resource at 4 oz + Prep.
- 4. Resource treatments were more effective on Roundup Ready cotton as compared to Liberty Link cotton for the most part.

Roundup Ready and Liberty Link cotton response to several defoliants.

Trial ID: C16-05 Study Dir.: Stanley Culpepper Location: Ponder (5510) Investigator: Stanley Culpepper

Wee	ed Code		RR	LL	RR	LL	RR	LL
Crop	o Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
	ng Data Type		defoliation	defoliation	defoliation	defoliation	defoliation	defolation
	ng Unit		percent	•	•	•	•	
	ng Date		Sep-23-05	Sep-23-05	Sep-28-05	Sep-28-05		
Trt-E	val Interval		5 DA-A	5 DA-A	10 DA-A	10 DA-A	20 DA-A	20 DA-A
Trt	Treatment	Rate						
No.	Name	Rate Unit	1	2	3	4	5	6
1	Non-treated		0	0	12	10	13	23
2	Resource	6 oz/a	63	28	72	60	75	67
	PREP	1.3 pt/a						
	COC	1 pt/a						
3	Resource	4 oz/a	50	42	58	48	62	58
	Finish	1.3 pt/a						
	COC	1 pt/a						
4	Resource	4 oz/a	47	25	38	47	47	48
	PREP	1.3 pt/a						
	COC	1 pt/a						
5	Aim	1 oz/a	52	43	57	62	60	68
	Finish	1.3 pt/a						
	NIS	0.25 % v/v						
6	Finish	1.3 pt/a	81	83	67	83	77	78
	Ginstar	6 oz/a						
LSD	(P=.05)		12.3	16.4	10.2	17.0	19.8	13.6
Star	ndard Deviation	on	6.8	9.0	5.6	9.4	10.9	7.5
CV			13.91	24.41	11.08	18.12	19.58	13.05

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

Mar-03-06 (C16-05) Site Description Page 3 of 5

University of Georgia

		of deorgia	
	Roundup Ready and I	Liberty Link cotton response to several defoliants.	
Trial ID: C16-0	5	Study Dir.: Stanley Culpepper	
		Investigator: Stanley Culpepper	
Study Director.	Stanley Culpepper	RIAL INFORMATION Title: Ext. Weed Science	
	Univ. of Georgia	illie: Ext. Weed Science	
Postal Code:			
Postar code:	31/94		
Investigator:	Stanley Culpepper	Title: Ext. Weed Science	
	Univ. of Georgia	11010. HAC. Weed beliefed	
Postal Code:			
	52.77		
	TRI	AL LOCATION	
City: Ty	Ту	Trial Status: completed	
State/Prov.: GA		Trial Reliability: fair	
Postal Code: 31	794	Initiation Date: Sep-18-05	
Country: US.	A	Planned Completion Date:	
E-Longitude of	LL Corner °:	N-Latitude of LL Corner o:	
		t: Angle y-axis to North o:	
Directions:			
	COOPER	ATOR/LANDOWNER	
Cooperator:			
Org:		Phone No:	
		Fax No:	
Postal Code:			
		Conducted Under GEP (Y/N): N	
Guidelines:	Guideline	Description:	
Ob d a st d			
Objective:			
Conclusions:			
0011010101			
	CROP AND I	WEED DESCRIPTION	
Weed Code	Common Name	Scientific Name	
	COMMICIT HAME	DOTORDITE NAME	
1. .			
_	RR or LL cultivars	<u>-</u>	
	Apr-18-05	Planting Method: strip tillage	
Rate: 2 8	-		
		ithin Row: Seed Bed: flat	
Soil Temperature	e: 81 F Soil Moi	sture: moist Emergence Date: Apr-27-05	
	CTTT	AND DECTON	
Dlot Width Imit		AND DESIGN	
		t Length, Unit: 22 FT Reps: 3	
	onder farm research		
iiiiage Type: St	rrih riiraae	Study Design: RANDOMIZED COMPLETE BLOCK	
Trial Initiation	n Comments.		
illai imiciacioi	. Commerce.		

Previous Pesticides

Year

Previous Crops

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

SOIL DESCRIPTION

Texture:

% Sand: 94 % OM: 1.3 % Silt: 2 pH: 5.9 % Clay: 4 CEC: Soil Name: Tifton sandy loam

Fert. Level: _

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: dry

______ Distance: _____ Unit: __ Closest Weather Station:

APPLICATION DESCRIPTION

	A
Application Date:	Sep-18-05
Time of Day:	8 am
Application Method:	broadcast
Application Timing:	defoliat
Applic. Placement:	overtop
Air Temp., Unit:	81 F
% Relative Humidity:	64
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	81 F
Soil Moisture:	DRY
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI defoliat
Stage Scale:	58% open
Height, Unit:	36 inch

WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

		A
Appl. Equipment:	back	pack
Operating Pressure:	23	
Nozzle Type:	flat	fan
Nozzle Size:	11002	2
Nozzle Spacing, Unit:	18	inch
Nozzles/Row:	2	
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:	wateı	2
Spray Volume, Unit:	14.8	GPA
Spray pH:		·
Propellant:	CO2	
Tank Mix (Y/N):	Y	

Trt No	Treatment Application Comment