

LSU Northeast Research Station

TO DETERMINE THE EFFICACY OF INC-501 (THIDIAZURON) WHEN FOLIAR APPLIED TO COTTON FOR LEAF DEFOLIATION

Trial ID: PGRGOSHIDEF0701
Location: U.S.

Study Director:
Investigator: Donnie Miller

Crop Description

Crop 1: GOSHI Gossypium hirsutum American upland cotton
Variety: DP 164 B2RF Description:
BBCH Scale: BCOT Planting Date: 1/May/2007

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 20 FT
Replications: 4 Study Design: Randomized Complete Block

Soil Description

% Sand: 50 % OM: 0.5 Texture: SILT LOAM
% Silt: 28 pH: 6.8
% Clay: 22 CEC: 12.8

Moisture Conditions

Overall Moisture Conditions: SLIGHTLY WET
Closest Weather Station: Northeast Research Station

Date	Time	Amount	Unit	Type	Interval	Unit
1. 23/Sep/2007		0.72	IN	RAIN	1	DAY

Application Description

A
Application Date: 19/Sep/2007
Time of Day: 10:30 AM
Application Method: SPRAY
Application Timing: PREHAR
Application Placement: BROFOL
Applied By: MILLER, D.
Air Temperature, Unit: 83 F
% Relative Humidity: 47
Wind Velocity, Unit: 2.1 MPH
Dew Presence (Y/N): N
Water Hardness: N
Soil Temperature, Unit: 77 F
Soil Moisture: MOIST
% Cloud Cover: 0

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: GOSHI BCOT
Stage Scale Used: BBCH
Stage Majority, Percent: 65-70%OB

Application Equipment

A
Appl. Equipment: HIBOY
Operating Pressure: 42
Pressure Unit: PSI
Nozzle Type: HC
Nozzle Size: TXVS 12
Nozzle Spacing, Unit: 20 "
Nozzles/Row: 2
Band Width, Unit:
Boom Length, Unit:
Boom Height, Unit:
Ground Speed, Unit: 3.77 MPH
Incorporation Equip.:
Hours to Incorp.:
Incorp. Depth, Unit:
Carrier: WATER
Spray Volume: 15
Volume Unit: GPA
Spray pH:
Propellant:

LSU Northeast Research Station

TO DETERMINE THE EFFICACY OF INC-501 (THIDIAZURON) WHEN FOLIAR APPLIED TO
COTTON FOR LEAF DEFOLIATION

Trial ID: PGRGOSHIDEF0701

Study Director:

Location: U.S.

Investigator: Donnie Miller

Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
BBCH Scale		BCOT	BCOT	BCOT	BCOT	BCOT	BCOT
Description		DEFOLIATION	DESSICATION	DEFOLIATION	DESSICATION	DEFOLIATION	DESSICATION
Rating Date		26/Sep/2007	26/Sep/2007	3/Oct/2007	3/Oct/2007	10/Oct/2007	10/Oct/2007
Rating Unit		%	%	%	%	%	%
Days After Last Applic.		7	7	14	14	21	21
Trt-Eval Interval		7 DA-A	7 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A
Trt Treatment	Rate Appl						
No. Name	Rate Unit Code	1	2	3	4	5	6
01 INC-501	0.1 lb ai/a A	56.25 b	0.00 a	67.50 b	0.00 a	71.25 c	0.00 a
02 INC-501	0.2 lb ai/a A	65.00 a	0.00 a	81.25 a	0.00 a	82.50 ab	0.00 a
03 INC-501	0.10 lb ai/a A	65.00 a	0.00 a	78.75 a	0.00 a	78.75 b	0.00 a
PREP	1 lb ai/a A						
04 DROPP	0.2 lb ai/a A	66.25 a	0.00 a	83.75 a	0.00 a	86.25 a	0.00 a
05 UNTREATED		0.00 c	0.00 a	0.00 c	0.00 a	0.00 d	0.00 a
LSD (P=.05)		7.068	0.000	6.407	0.000	4.161	0.000
Standard Deviation		4.587	0.000	4.158	0.000	2.700	0.000
CV		9.08	0.0	6.68	0.0	4.24	0.0
Grand Mean		50.5	0.0	62.25	0.0	63.75	0.0
Bartlett's X2		0.822	0.0	0.543	0.0	1.804	0.0
P(Bartlett's X2)		0.844	.	0.909	.	0.614	.
Replicate F		2.931	0.000	5.277	0.000	2.000	0.000
Replicate Prob(F)		0.0769	1.0000	0.0149	1.0000	0.1678	1.0000
Treatment F		154.545	0.000	289.048	0.000	713.571	0.000
Treatment Prob(F)		0.0001	1.0000	0.0001	1.0000	0.0001	1.0000

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.