

LSU Northeast Research Station

TO DETERMINE CROP RESPONSE EFFECTS ON COTTON TO EARLY PREPLANT APPLICATIONS OF
RESOLVE FOR CORN THAT WAS NOT ABLE TO BE PLANTED OR STAND WAS LOST

GENERAL TRIAL INFORMATION

Study Director: DUPONT
Investigator: Donnie Miller
TRIAL LOCATION: ST. JOSEPH, LA
Crop 1: GOSHI COTTON
Variety: DP164B2RF
Planting Date: 1/May/2008

SITE AND DESIGN

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 25 FT
Reps: 4
Study Design: FACTORIAL

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

	A	B	C
Application Date:	3/Mar/2008	18/Mar/2008	3/Apr/2008
Time of Day:	9:45 AM	8:00 AM	10:05 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	EARPRE	EARPRE	EARPRE
Applic. Placement:	BROSOI	BROSOI	BROSOI
Air Temp., Unit:	68 F	74 F	76 F
% Relative Humidity:	77	75	74
Wind Velocity, Unit:	16.1 MPH	15.7 MPH	8.7 MPH
Dew Presence (Y/N):	N	N	N
Soil Temp., Unit:	60 F	67 F	69 F
Soil Moisture:	MOIST	MOIST	MOIST
% Cloud Cover:	90	100	40

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 BCPCCK	CO2 BCPCCK	CO2 BCPCCK
Operating Pressure:	34 psi	34 psi	34 psi
Nozzle Type:	DG	DG	DG
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2
Ground Speed, Unit:	3.2 MPH	3.2 MPH	3.2 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	INJURY	INJURY	INJURY	INJURY	INJURY	YIELD	YIELD
Rating Unit	%	%	%	%	%	LB	LB/A
Rating Date	15/May/2008	22/May/2008	29/May/2008	5/Jun/2008	11/Jun/2008	9/Oct/2008	9/Oct/2008
Crop Stage					PINHEAD		
Trt-Eval Interval	7 DAE	14 DAE	21 DAE	28 DAE	34 DAE		
ARM Action Codes							TY1
# Subsamples, Dec.							1
Trt Treatment							
Rate							
Unit							
Appl Code							
No. Name	1	2	3	4	5	6	7

TABLE OF R MEANS

Replicate 1	0.56	3.33	0.00	0.00	0.00	1.80	469.6
Replicate 2	1.11	3.33	0.00	0.00	0.00	2.14	559.0
Replicate 3	1.67	3.33	0.00	0.00	0.00	3.26	850.4
Replicate 4	1.11	3.33	0.00	0.00	0.00	2.88	752.3

TABLE OF A MEANS

1 RESOLVE	0 oz/a	0.42	0.00	0.00	0.00	2.86	746.2
2 RESOLVE	1 oz/a A	1.67	5.00	0.00	0.00	2.32	605.2
3 RESOLVE	2 oz/a A	1.25	5.00	0.00	0.00	2.38	622.2

TABLE OF B MEANS

1 60 DBP	0.83	3.33	0.00	0.00	0.00	2.97	775.9
2 45 DBP	1.25	3.33	0.00	0.00	0.00	2.65	693.1
3 30 DBP	1.25	3.33	0.00	0.00	0.00	1.93	504.6

TABLE OF AB MEANS

1 RESOLVE	0 oz/a	0.00	0.00	0.00	0.00	3.11	811.1
1 60 DBP							
2 RESOLVE	1 oz/a A	2.50	5.00	0.00	0.00	2.81	732.7
1 60 DBP							
3 RESOLVE	2 oz/a A	0.00	5.00	0.00	0.00	3.00	783.7
1 60 DBP							
1 RESOLVE	0 oz/a	1.25	0.00	0.00	0.00	2.97	774.5
2 45 DBP							
2 RESOLVE	1 oz/a A	1.25	5.00	0.00	0.00	2.22	579.9
2 45 DBP							
3 RESOLVE	2 oz/a A	1.25	5.00	0.00	0.00	2.78	724.9
2 45 DBP							
1 RESOLVE	0 oz/a	0.00	0.00	0.00	0.00	2.50	653.1
3 30 DBP							
2 RESOLVE	1 oz/a A	1.25	5.00	0.00	0.00	1.93	502.9
3 30 DBP							
3 RESOLVE	2 oz/a A	2.50	5.00	0.00	0.00	1.37	357.9
3 30 DBP							

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FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 15/May/2008 7 DAE						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	205.555556				
R	3	5.555556	1.851852	0.262	0.8518	2.59
A	2	9.722222	4.861111	0.689	0.5120	2.24
B	2	1.388889	0.694444	0.098	0.9067	2.24
AB	4	19.444444	4.861111	0.689	0.6070	3.88
ERROR	24	169.444444	7.060185			
FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 22/May/2008 14 DAE						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	200.000000				
R	3	0.000000	0.000000	0.000	0.0000	0.00
A	2	200.000000	100.000000	0.000	0.0000	0.00
B	2	0.000000	0.000000	0.000	0.0000	0.00
AB	4	0.000000	0.000000	0.000	0.0000	0.00
ERROR	24	0.000000	0.000000			
FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 29/May/2008 21 DAE						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	0.000000				
R	3	0.000000	0.000000	0.000	0.0000	0.00
A	2	0.000000	0.000000	0.000	0.0000	0.00
B	2	0.000000	0.000000	0.000	0.0000	0.00
AB	4	0.000000	0.000000	0.000	0.0000	0.00
ERROR	24	0.000000	0.000000			
FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 5/Jun/2008 28 DAE						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	0.000000				
R	3	0.000000	0.000000	0.000	0.0000	0.00
A	2	0.000000	0.000000	0.000	0.0000	0.00
B	2	0.000000	0.000000	0.000	0.0000	0.00
AB	4	0.000000	0.000000	0.000	0.0000	0.00
ERROR	24	0.000000	0.000000			
FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 11/Jun/2008 PINHEAD 34 DAE						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	0.000000				
R	3	0.000000	0.000000	0.000	0.0000	0.00
A	2	0.000000	0.000000	0.000	0.0000	0.00
B	2	0.000000	0.000000	0.000	0.0000	0.00
AB	4	0.000000	0.000000	0.000	0.0000	0.00
ERROR	24	0.000000	0.000000			
FACTORIAL/POOLED ERROR AOV For GOSHI YIELD LB 9/Oct/2008						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	40.933899				
R	3	12.029722	4.009907	5.297	0.0060	0.85
A	2	2.085800	1.042900	1.378	0.2714	0.73
B	2	6.796866	3.398433	4.489	0.0221	0.73
AB	4	1.852534	0.463133	0.612	0.6582	1.27
ERROR	24	18.168977	0.757041			
FACTORIAL/POOLED ERROR AOV For GOSHI YIELD LB/A 9/Oct/2008 TY1 1						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	35	2793362.034353				
R	3	820917.862280	273639.287427	5.297	0.0060	221.1
A	2	142336.612027	71168.306014	1.378	0.2714	191.5
B	2	463823.644757	231911.822378	4.489	0.0221	191.5
AB	4	126418.371904	31604.592976	0.612	0.6582	331.7
ERROR	24	1239865.543384	51661.064308			
Column 7: TY1 = 261.2294*[6]						