

LSU Northeast Research Station

IS REPLANTING CRUCIAL FOLLOWING AN OFF TARGET APPLICATION OF HARMONY EXTRA?

GENERAL TRIAL INFORMATION

Investigator: Donnie Miller
TRIAL LOCATION: ST JOSEPH, LA
Crop 1: GOSHI COTTON
Variety: DP164B2RF
Planting Date: 30/Apr/2008

SITE AND DESIGN

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 25 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

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

APPLICATION DESCRIPTION

A
Application Date: 26/May/2008
Time of Day: 3:00 PM
Application Method: SPRAY
Application Timing: EAPOCR
Applic. Placement: BROFOL
Air Temp., Unit: 89 F
% Relative Humidity: 52
Wind Velocity, Unit: 8.7 MPH
Dew Presence (Y/N): N
Water Hardness: N
Soil Temp., Unit: 94 F
% Cloud Cover: 30

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GOSHI 3-4 LF

APPLICATION EQUIPMENT

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

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Crop Code	GOSHI		GOSHI		GOSHI		GOSHI		GOSHI			
Part Rated												
Rating Data Type	INJURY	AVG CROP HT	INJURY	AVG CROP HT	AVG CROP HT	AVG CROP HT	AVG CROP HT	AVG NAWF	AVG CROP HT			
Rating Unit	%	CM	%	CM	CM	CM	CM	10/PLOT	CM			
Rating Date	9/Jun/2008	9/Jun/2008	23/Jun/2008	23/Jun/2008	17/Jul/2008	31/Jul/2008	31/Jul/2008	31/Jul/2008	21/Oct/2008			
Trt-Eval Interval	14 DA-A	14 DA-A	28 DA-A	28 DA-A	41 DAP	55 DAP	66 DA-A	148 DA-A				
ARM Action Codes												
# Subsamples, Dec.												
Trt	Treatment	Rate	Rate	Appl								
No.	Name	Unit	Unit	Code	1	2	3	4	5	6	7	8
1	HARMONY EXTRA 0			A					47.00	81.25		119.15 a
	REPLANT			A								
2	HARMONY EXTRA 0			A	0.00 d	24.80 a	5.00 d	57.30 a			4.10 a	131.65 a
	NO REPLANT			A								
3	HARMONY EXTRA 1/4 X	0.075 oz/a		A	63.75 a	15.60 c	81.25 a	25.95 d			4.93 a	104.10 a
	ROUNDUP POWERMAX	22 oz/a		A								
	NO REPLANT			A								
4	HARMONY EXTRA 1/8 X	0.0375 oz/a		A	60.00 a	17.15 bc	65.00 b	31.75 c			4.65 a	109.35 a
	ROUNDUP POWERMAX	22 oz/a		A								
	NO REPLANT			A								
5	HARMONY EXTRA 1/16 X	0.01875 oz/a		A	58.75 a	20.28 b	42.50 c	45.55 b			4.25 a	122.50 a
	ROUNDUP POWERMAX	22 oz/a		A								
	NO REPLANT			A								
6	HARMONY EXTRA 1/32 X	.009375 oz/a		A	48.75 b	18.78 b	32.50 c	45.43 b			4.73 a	125.80 a
	ROUNDUP POWERMAX	22 oz/a		A								
	NO REPLANT			A								
7	HARMONY EXTRA 1/64 X	.004687 oz/a		A	36.25 c	24.53 a	15.00 d	50.18 b			4.20 a	125.55 a
	ROUNDUP POWERMAX	22 oz/a		A								
	NO REPLANT			A								
LSD (P=.05)					8.736	3.154	10.588	5.545	.	.	0.969	17.827
Standard Deviation					5.798	2.093	7.027	3.680	.	.	0.643	11.999
CV					13.0	10.37	17.48	8.62	.	.	14.37	10.02
Grand Mean					44.58	20.19	40.21	42.69	47.0	81.25	4.48	119.73
Bartlett's X2					7.046	4.259	7.779	5.037	.	.	1.544	1.183
P(Bartlett's X2)					0.133	0.513	0.10	0.411	.	.	0.908	0.978
Replicate F					1.198	0.657	0.190	0.135			1.706	5.141
Replicate Prob(F)					0.3441	0.5910	0.9016	0.9375			0.2086	0.0096
Treatment F					68.554	13.210	68.679	40.465			1.089	2.652
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001			0.4061	0.0506

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.

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Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Part Rated						LINT	
Rating Data Type		YIELD	YIELD	SEEDCOTTON	LINT	FRACTION	LINT YIELD
Rating Unit		LB	LB/A	GRAMS	GRAMS	%	LB/A
Rating Date		10/Oct/2008	10/Oct/2008	17/Oct/2008	17/Oct/2008	17/Oct/2008	7/Nov/2008
Trt-Eval Interval		137 DA-A	137 DA-A	144 DA-A	144 DA-A	144 DA-A	165 DA-A
ARM Action Codes			TY1			T2	T3
# Subsamples, Dec.			1				

Trt Treatment	Rate	Rate Unit	Appl Code	9	10	11	12	13	14
1 HARMONY EXTRA 0 REPLANT			A	1.31 c	341.0 c	373.37 b	134.11 b	35.97 a	120.56 c
2 HARMONY EXTRA 0 NO REPLANT			A	7.31 a	1908.3 a	700.25 a	258.75 a	37.03 a	706.91 a
3 HARMONY EXTRA 1/4 X ROUNDUP POWERMAX NO REPLANT	0.075 oz/a	22 oz/a	A	2.59 c	677.9 c	579.42 ab	207.05 ab	35.31 a	242.03 c
4 HARMONY EXTRA 1/8 X ROUNDUP POWERMAX NO REPLANT	0.0375 oz/a	22 oz/a	A	4.50 b	1175.5 b	679.25 a	246.75 a	36.24 a	426.67 b
5 HARMONY EXTRA 1/16 X ROUNDUP POWERMAX NO REPLANT	0.01875 oz/a	22 oz/a	A	5.97 ab	1559.5 ab	765.25 a	276.75 a	36.15 a	564.82 ab
6 HARMONY EXTRA 1/32 X ROUNDUP POWERMAX NO REPLANT	.009375 oz/a	22 oz/a	A	6.18 a	1614.4 a	770.50 a	277.00 a	35.91 a	579.64 a
7 HARMONY EXTRA 1/64 X ROUNDUP POWERMAX NO REPLANT	.004687 oz/a	22 oz/a	A	6.71 a	1752.8 a	739.75 a	272.75 a	36.85 a	647.54 a
LSD (P=.05)				1.533	400.57	216.115	80.115	1.297	149.922
Standard Deviation				1.023	267.21	144.166	53.443	0.865	100.010
CV				20.72	20.72	21.9	22.36	2.39	21.29
Grand Mean				4.94	1289.93	658.26	239.02	36.21	469.74
Bartlett's X2				5.587	5.587	10.221	10.734	11.274	5.374
P(Bartlett's X2)				0.471	0.471	0.116	0.097	0.08	0.497
Replicate F				2.830	2.830	1.798	1.926	2.922	3.138
Replicate Prob(F)				0.0716	0.0716	0.1882	0.1661	0.0659	0.0545
Treatment F				19.259	19.259	3.858	3.847	1.824	18.970
Treatment Prob(F)				0.0001	0.0001	0.0143	0.0144	0.1574	0.0001

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.
Column 10: TY1 = 261.2294*[9]
Column 13: T2 = (100-[13])
Column 14: T3 = (([10]*[13])/100)