

LSU Northeast Research Station

DETERMINE THE EFFICACY OF MANA COTTON HERBICIDES ALONE AND IN TANKMIXES
WHEN APPLIED POST-DIRECTED.

GENERAL TRIAL INFORMATION

Study Director: MANA
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: 20 FT
Reps: 4
Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 50 % OM: 1
% Silt: 28 pH: 6.5
% Clay: 22 CEC: 12.8
Texture: SILT LOAM

APPLICATION DESCRIPTION

A
Application Date: 27/Jun/2008
Time of Day: 12:10 PM

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GOSHI 12-14 LF

APPLICATION EQUIPMENT

A
Appl. Equipment: CO2 BCPCCK
Operating Pressure: 23 PSI
Nozzle Type: TK
Nozzle Size: 2.5
Nozzle Spacing, Unit: 40
Nozzles/Row: 1
Ground Speed, Unit: 3.2 MPH
Carrier: WATER
Spray Volume, Unit: 15 GPA

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Weed Code	ELEIN	ECHCG	SEBEX	CASOB	AMARE	IPOHG	IPOLA		ELEIN	ECHCG	SEBEX	
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	%	%	%	%	%	
Rating Date	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	14/Jul/2008	14/Jul/2008	14/Jul/2008	
Trt-Eval Interval	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	17 DA-A	17 DA-A	17 DA-A	
ARM Action Codes												
# Subsamples, Dec.												
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
Appl Code	1	2	3	4	5	6	7	8	9	10	11	
1 COTTON PRO NIS	2 pt/a A	63.33 bc	61.67 b	100.00 a	46.67 efg	48.33 e	65.00 c	65.00 c	8.33 c-f	76.67 abc	66.67 bc	96.67 a
2 COTORAN NIS	2 pt/a A	68.33 abc	66.67 ab	100.00 a	46.67 efg	65.00 b-e	73.33 bc	73.33 bc	0.00 g	71.67 abc	75.00 abc	100.00 a
3 LINEX NIS	1.25 pt/a A	75.00 abc	73.33 ab	100.00 a	55.00 c-f	91.67 abc	90.00 ab	90.00 ab	13.33 bc	81.67 ab	78.33 abc	100.00 a
4 DIURON NIS	2 pt/a A	88.33 abc	93.33 a	100.00 a	60.00 b-f	93.33 ab	96.67 a	96.67 a	8.33 c-f	88.33 ab	93.33 a	100.00 a
5 PARALLEL PCS NIS	1.33 pt/a A	30.00 d	30.00 cd	16.67 c	20.00 h	13.33 f	16.67 d	16.67 d	0.00 g	78.33 abc	61.67 c	91.67 ab
6 COTORAN DIURON NIS	1 pt/a A	83.33 abc	75.00 ab	100.00 a	60.00 b-f	85.00 a-d	95.00 ab	95.00 ab	8.33 c-f	78.33 abc	76.67 abc	100.00 a
7 COTORAN DIURON NIS	1 pt/a A	91.67 a	95.00 a	100.00 a	75.00 ab	90.00 abc	95.00 ab	95.00 ab	8.33 c-f	91.67 a	93.33 a	100.00 a
8 COTORAN COTTON PRO NIS	1 pt/a A	61.67 c	60.00 bc	98.33 a	46.67 efg	63.33 cde	73.33 bc	73.33 bc	5.00 efg	60.00 c	60.00 c	83.33 b
9 COTORAN LINEX NIS	1 pt/a A	71.67 abc	71.67 ab	93.33 a	53.33 c-g	80.00 a-d	83.33 abc	83.33 abc	5.00 efg	76.67 abc	81.67 abc	98.33 a
10 LINEX DIURON NIS	1.5 pt/a A	86.67 abc	80.00 ab	100.00 a	45.00 fg	88.33 abc	90.00 ab	90.00 ab	15.00 b	80.00 abc	80.00 abc	100.00 a
11 LINEX DIURON NIS	0.8 pt/a A	83.33 abc	80.00 ab	100.00 a	61.67 b-e	93.33 ab	95.00 ab	95.00 ab	6.67 def	83.33 ab	81.67 abc	100.00 a
12 DIURON COTTON PRO NIS	1 pt/a A	85.00 abc	80.00 ab	100.00 a	68.33 bc	85.00 a-d	95.00 ab	95.00 ab	11.67 bcd	83.33 ab	80.00 abc	100.00 a
13 LINEX COTTON PRO NIS	0.8 pt/a A	71.67 abc	75.00 ab	100.00 a	51.67 d-g	86.67 a-d	95.00 ab	95.00 ab	10.00 b-e	70.00 bc	78.33 abc	100.00 a
14 PARALLEL PCS DIURON NIS	1 pt/a A	80.00 abc	75.00 ab	100.00 a	51.67 d-g	86.67 a-d	95.00 ab	95.00 ab	6.67 def	80.00 abc	80.00 abc	100.00 a
15 PARALLEL PCS DIURON NIS	1 pt/a A	88.33 abc	86.67 ab	100.00 a	73.33 ab	95.00 a	96.67 a	96.67 a	6.67 def	86.67 ab	90.00 ab	100.00 a
16 PARALLEL PCS COTTON PRO NIS	1.5 pt/a A	78.33 abc	70.00 ab	100.00 a	61.67 b-e	86.67 a-d	93.33 ab	93.33 ab	8.33 c-f	81.67 ab	73.33 abc	100.00 a
17 PARALLEL PCS COTORAN NIS	1 pt/a A	81.67 abc	76.67 ab	100.00 a	46.67 efg	58.33 de	93.33 ab	93.33 ab	3.33 fg	85.00 ab	75.00 abc	100.00 a
18 PARALLEL PCS LINEX NIS	1 pt/a A	88.33 abc	85.00 ab	100.00 a	53.33 c-g	88.33 abc	93.33 ab	93.33 ab	5.00 efg	83.33 ab	83.33 abc	100.00 a
19 AIM COC	0.8 pt/a A	86.67 abc	88.33 ab	70.00 b	50.00 efg	95.00 a	95.00 ab	95.00 ab	23.33 a	83.33 ab	88.33 ab	100.00 a
20 ENVOKE NIS	1 oz/a A	90.00 ab	86.67 ab	100.00 a	85.00 a	95.00 a	95.00 ab	95.00 ab	0.00 g	85.00 ab	90.00 ab	100.00 a
21 SUPREND NIS	0.25 oz/a A	90.00 ab	83.33 ab	100.00 a	66.67 bcd	93.33 ab	95.00 ab	95.00 ab	10.00 b-e	88.33 ab	83.33 abc	100.00 a
22 STAPLE LX NIS	1.01 lb/a A	91.67 a	86.67 ab	100.00 a	38.33 g	95.00 a	95.00 ab	95.00 ab	0.00 g	83.33 ab	85.00 abc	100.00 a
23 NONTREATED	2.6 oz/a A	0.00 e	0.00 d	0.00 c	0.00 i	0.00 f	0.00 d	0.00 d	0.00 g	0.00 d	0.00 d	0.00 c
LSD (P=.05)		26.790	31.195	18.762	15.114	28.714	21.998	21.998	5.933	20.675	26.121	10.274
Standard Deviation		16.235	18.904	11.370	9.159	17.401	13.331	13.331	3.596	12.529	15.830	6.226
CV		21.52	25.88	12.58	17.31	22.53	16.01	16.01	50.63	16.22	20.75	6.6
Grand Mean		75.43	73.04	90.36	52.9	77.25	83.26	83.26	7.1	77.25	76.3	94.35
Bartlett's X2		36.842	21.98	12.928	19.841	51.369	41.895	41.895	11.612	39.486	37.929	13.858
P(Bartlett's X2)		0.018*	0.342	0.005*	0.468	0.001*	0.001*	0.001*	0.77	0.009*	0.013*	0.003*

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Weed Code	ELEIN	ECHCG	SEBEX	CASOB	AMARE	IPOHG	IPOLA		ELEIN	ECHCG	SEBEX
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%	%	%	%
Rating Date	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	7/Jul/2008	14/Jul/2008	14/Jul/2008	14/Jul/2008
Trt-Eval Interval	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	17 DA-A	17 DA-A	17 DA-A
ARM Action Codes											
# Subsamples, Dec.											

Replicate F	0.606	1.481	1.012	2.932	1.642	1.070	1.070	10.874	4.171	2.277	0.785
Replicate Prob(F)	0.5499	0.2385	0.3719	0.0637	0.2053	0.3517	0.3517	0.0001	0.0219	0.1145	0.4624
Treatment F	5.255	3.679	16.618	11.290	6.592	10.766	10.766	7.279	6.301	4.239	33.860
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	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.

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Weed Code	CASOB	AMARE	IPOHG	IPOLA	ELEIN	ECHCG	SEBEX	CASOB	AMARE	IPOH			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%	%	%	%	%			
Rating Date	14/Jul/2008	14/Jul/2008	14/Jul/2008	14/Jul/2008	14/Jul/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008	8/Aug/2008		
Trt-Eval Interval	17 DA-A	17 DA-A	17 DA-A	17 DA-A	17 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A		
ARM Action Codes													
# Subsamples, Dec.													
Trt Treatment													
No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code	Appl Code		
	12	13	14	15	16	17	18	19	20	21	22		
1 COTTON PRO	2 pt/a	A	51.67 ef	50.00 c	86.67 abc	86.67 abc	7.67 bcd	100.00 a	86.67 ab	100.00 a	45.00 c-h	40.00 ef	88.33 a
NIS	0.25 % v/v	A											
2 COTORAN	2 pt/a	A	51.67 ef	98.33 a	95.00 a	95.00 a	0.00 e	100.00 a	78.33 ab	100.00 a	26.67 ghi	81.67 abc	100.00 a
NIS	0.25 % v/v	A											
3 LINEX	1.25 pt/a	A	65.00 a-e	93.33 a	91.67 ab	91.67 ab	6.00 bcd	93.33 a	75.00 ab	100.00 a	33.33 f-i	75.00 a-d	90.00 a
NIS	0.25 % v/v	A											
4 DIURON	2 pt/a	A	70.00 a-e	96.67 a	98.33 a	98.33 a	6.67 bcd	100.00 a	93.33 a	100.00 a	73.33 ab	95.00 a	98.33 a
NIS	0.25 % v/v	A											
5 PARALLEL PCS	1.33 pt/a	A	21.67 g	20.00 d	70.00 c	70.00 c	0.00 e	66.67 b	60.00 b	66.67 b	10.00 ij	20.00 fg	56.67 c
NIS	0.25 % v/v	A											
6 COTORAN	1 pt/a	A	70.00 a-e	83.33 ab	96.67 a	96.67 a	7.67 bcd	98.33 a	68.33 ab	100.00 a	68.33 abc	73.33 a-d	100.00 a
DIURON	1 pt/a	A											
NIS	0.25 % v/v	A											
7 COTORAN	1 pt/a	A	75.00 abc	88.33 ab	98.33 a	98.33 a	7.67 bcd	100.00 a	91.67 a	100.00 a	75.00 a	80.00 abc	58.33 bc
DIURON	1.5 pt/a	A											
NIS	0.25 % v/v	A											
8 COTORAN	1 pt/a	A	51.67 ef	66.67 bc	75.00 bc	75.00 bc	2.00 de	95.00 a	83.33 ab	100.00 a	61.67 a-d	56.67 cde	86.67 abc
COTTON PRO	0.8 pt/a	A											
NIS	0.25 % v/v	A											
9 COTORAN	1 pt/a	A	75.00 abc	76.67 ab	90.00 ab	90.00 ab	4.33 b-e	98.33 a	75.00 ab	98.33 a	60.00 a-e	80.00 abc	93.33 a
LINEX	1.5 pt/a	A											
NIS	0.25 % v/v	A											
10 LINEX	0.8 pt/a	A	56.67 c-f	91.67 a	90.00 ab	90.00 ab	10.00 ab	100.00 a	86.67 ab	100.00 a	23.33 hij	88.33 ab	81.67 abc
DIURON	0.8 pt/a	A											
NIS	0.25 % v/v	A											
11 LINEX	1.2 pt/a	A	65.00 a-e	95.00 a	96.67 a	96.67 a	7.67 bcd	100.00 a	75.00 ab	100.00 a	61.67 a-d	85.00 abc	81.67 abc
DIURON	1.2 pt/a	A											
NIS	0.25 % v/v	A											
12 DIURON	1 pt/a	A	71.67 a-d	85.00 ab	95.00 a	95.00 a	10.00 ab	100.00 a	81.67 ab	100.00 a	51.67 a-f	83.33 abc	95.00 a
COTTON PRO	0.8 pt/a	A											
NIS	0.25 % v/v	A											
13 LINEX	0.8 pt/a	A	56.67 c-f	93.33 a	93.33 a	93.33 a	6.67 bcd	95.00 a	73.33 ab	100.00 a	36.67 e-h	85.00 abc	100.00 a
COTTON PRO	0.8 pt/a	A											
NIS	0.25 % v/v	A											
14 PARALLEL PCS	1 pt/a	A	61.67 b-f	95.00 a	95.00 a	95.00 a	6.00 bcd	100.00 a	80.00 ab	100.00 a	45.00 c-h	75.00 a-d	88.33 a
DIURON	1 pt/a	A											
NIS	0.25 % v/v	A											
15 PARALLEL PCS	1 pt/a	A	76.67 ab	96.67 a	96.67 a	96.67 a	8.33 bc	100.00 a	85.00 ab	100.00 a	61.67 a-d	86.67 ab	96.67 a
DIURON	1.5 pt/a	A											
NIS	0.25 % v/v	A											
16 PARALLEL PCS	1 pt/a	A	61.67 b-f	81.67 ab	95.00 a	95.00 a	5.00 b-e	100.00 a	68.33 ab	100.00 a	50.00 b-g	65.00 b-e	95.00 a
COTTON PRO	0.8 pt/a	A											
NIS	0.25 % v/v	A											
17 PARALLEL PCS	1 pt/a	A	53.33 def	78.33 ab	95.00 a	95.00 a	3.33 cde	100.00 a	85.00 ab	100.00 a	38.33 d-h	48.33 def	98.33 a
COTORAN	1 pt/a	A											
NIS	0.25 % v/v	A											
18 PARALLEL PCS	1 pt/a	A	60.00 b-f	93.33 a	95.00 a	95.00 a	6.00 bcd	100.00 a	83.33 ab	100.00 a	40.00 d-h	90.00 ab	93.33 a
LINEX	0.8 pt/a	A											
NIS	0.25 % v/v	A											
19 AIM	1.5 oz/a	A	51.67 ef	96.67 a	95.00 a	95.00 a	15.00 a	100.00 a	90.00 a	66.67 b	21.67 hij	100.00 a	98.33 a
COC	1 % v/v	A											
20 ENVOKE	0.25 oz/a	A	83.33 a	95.00 a	95.00 a	95.00 a	0.00 e	95.00 a	78.33 ab	100.00 a	73.33 ab	96.67 a	100.00 a
NIS	0.25 % v/v	A											
21 SUPREND	1.01 lb/a	A	66.67 a-e	96.67 a	96.67 a	96.67 a	9.33 ab	100.00 a	85.00 ab	100.00 a	50.00 b-g	88.33 ab	100.00 a
NIS	0.25 % v/v	A											
22 STAPLE LX	2.6 oz/a	A	45.00 f	96.67 a	96.67 a	96.67 a	0.00 e	100.00 a	88.33 ab	100.00 a	31.67 f-i	100.00 a	100.00 a
NIS	0.25 % v/v	A											
23 NONTREATED			0.00 h	0.00 d	0.00 d	0.00 d	0.00 e	0.00 c	0.00 c	0.00 c	0.00 j	0.00 g	0.00 d
LSD (P=.05)			19.636	23.395	17.229	17.229	5.679	20.522	29.472	27.401	24.454	29.959	28.4
Standard Deviation			11.900	14.178	10.441	10.441	3.442	12.436	17.860	16.605	14.819	18.156	17.2
CV			20.4	17.45	11.79	11.79	61.2	13.36	23.19	17.92	32.83	24.66	19.
Grand Mean			58.33	81.23	88.55	88.55	5.62	93.12	77.03	92.68	45.14	73.62	86.
Bartlett's X2			25.047	52.019	45.608	45.608	3.974	27.423	35.942	9.376	34.274	21.946	35.6
P(Bartlett's X2)			0.20	0.001*	0.001*	0.001*	0.999	0.001*	0.022*	0.009*	0.034*	0.287	0.00
Replicate F			0.010	1.300	0.322	0.322	9.942	1.492	1.303	2.209	2.209	1.056	0.1
Replicate Prob(F)			0.9898	0.2829	0.7261	0.7261	0.0003	0.2360	0.2820	0.1219	0.1218	0.3564	0.82
Treatment F			7.014	9.657	11.587	11.587	3.974	8.946	3.277	5.437	5.747	5.867	5.0
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0004	0.0001	0.0001	0.0001	0.00

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Weed Code			IPOLA		ELEIN		ECHCG		SEBEX		CASOB		AMARE		IPOHG		IPOLA		GOSHI
Crop Code			GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI		GOSHI
Rating Data Type			CONTROL		INJURY		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		INJURY
Rating Unit			%		%		%		%		%		%		%		%		%
Rating Date			8/Aug/2008		8/Aug/2008		22/Aug/2008		22/Aug/2008		22/Aug/2008		22/Aug/2008		22/Aug/2008		22/Aug/2008		22/Aug/2008
Trt-Eval Interval			42 DA-A		42 DA-A		56 DA-A		56 DA-A		56 DA-A		56 DA-A		56 DA-A		56 DA-A		56 DA-A
ARM Action Codes																			
# Subsamples, Dec.																			
Trt Treatment																			
No. Name	Rate	Unit	Appl Code	23	24	25	26	27	28	29	30	31	32						
1 COTTON PRO	2 pt/a	A		88.33 a	0.00 a	90.00 a	73.33 a	100.00 a	43.33 a-e	31.67 fg	56.67 ab	56.67 ab	0.00 a						
NIS	0.25 % v/v	A																	
2 COTORAN	2 pt/a	A		100.00 a	0.00 a	90.00 a	76.67 a	100.00 a	33.33 b-f	85.00 abc	83.33 a	83.33 a	0.00 a						
NIS	0.25 % v/v	A																	
3 LINEX	1.25 pt/a	A		90.00 a	0.00 a	90.00 a	71.67 a	100.00 a	20.00 def	75.00 a-d	71.67 ab	71.67 ab	0.00 a						
NIS	0.25 % v/v	A																	
4 DIURON	2 pt/a	A		98.33 a	0.00 a	88.33 a	80.00 a	100.00 a	51.67 abc	93.33 ab	83.33 a	83.33 a	0.00 a						
NIS	0.25 % v/v	A																	
5 PARALLEL PCS	1.33 pt/a	A		56.67 b	0.00 a	60.00 b	56.67 a	66.67 ab	18.33 ef	36.67 efg	43.33 bc	43.33 bc	0.00 a						
NIS	0.25 % v/v	A																	
6 COTORAN	1 pt/a	A		100.00 a	0.00 a	90.00 a	65.00 a	100.00 a	58.33 ab	55.00 c-f	68.33 ab	68.33 ab	0.00 a						
DIURON	1 pt/a	A																	
NIS	0.25 % v/v	A																	
7 COTORAN	1 pt/a	A		88.33 a	0.00 a	91.67 a	83.33 a	100.00 a	66.67 a	80.00 a-d	81.67 a	81.67 a	0.00 a						
DIURON	1.5 pt/a	A																	
NIS	0.25 % v/v	A																	
8 COTORAN	1 pt/a	A		86.67 a	0.00 a	91.67 a	73.33 a	100.00 a	33.33 b-f	46.67 def	80.00 a	80.00 a	0.00 a						
COTTON PRO	0.8 pt/a	A																	
NIS	0.25 % v/v	A																	
9 COTORAN	1 pt/a	A		93.33 a	0.00 a	90.00 a	73.33 a	100.00 a	41.67 a-e	70.00 a-e	78.33 a	78.33 a	0.00 a						
LINEX	1.5 pt/a	A																	
NIS	0.25 % v/v	A																	
10 LINEX	0.8 pt/a	A		81.67 a	0.00 a	91.67 a	80.00 a	100.00 a	26.67 c-f	78.33 a-d	65.00 ab	65.00 ab	0.00 a						
DIURON	0.8 pt/a	A																	
NIS	0.25 % v/v	A																	
11 LINEX	1.2 pt/a	A		81.67 a	0.00 a	90.00 a	70.00 a	70.00 a	53.33 abc	81.67 a-d	66.67 ab	66.67 ab	0.00 a						
DIURON	1.2 pt/a	A																	
NIS	0.25 % v/v	A																	
12 DIURON	1 pt/a	A		95.00 a	0.00 a	90.00 a	83.33 a	100.00 a	43.33 a-e	71.67 a-e	76.67 a	76.67 a	0.00 a						
COTTON PRO	0.8 pt/a	A																	
NIS	0.25 % v/v	A																	
13 LINEX	0.8 pt/a	A		100.00 a	0.00 a	90.00 a	65.00 a	100.00 a	25.00 c-f	66.67 a-f	73.33 ab	73.33 ab	0.00 a						
COTTON PRO	0.8 pt/a	A																	
NIS	0.25 % v/v	A																	
14 PARALLEL PCS	1 pt/a	A		88.33 a	0.00 a	91.67 a	58.33 a	100.00 a	31.67 b-f	60.00 b-f	68.33 ab	68.33 ab	0.00 a						
DIURON	1 pt/a	A																	
NIS	0.25 % v/v	A																	
15 PARALLEL PCS	1 pt/a	A		96.67 a	0.00 a	91.67 a	75.00 a	100.00 a	51.67 abc	66.67 a-f	68.33 ab	68.33 ab	0.00 a						
DIURON	1.5 pt/a	A																	
NIS	0.25 % v/v	A																	
16 PARALLEL PCS	1 pt/a	A		95.00 a	0.00 a	90.00 a	66.67 a	100.00 a	60.00 ab	61.67 a-f	80.00 a	80.00 a	0.00 a						
COTTON PRO	0.8 pt/a	A																	
NIS	0.25 % v/v	A																	
17 PARALLEL PCS	1 pt/a	A		98.33 a	0.00 a	91.67 a	81.67 a	100.00 a	46.67 a-e	65.00 a-f	60.00 ab	60.00 ab	0.00 a						
COTORAN	1 pt/a	A																	
NIS	0.25 % v/v	A																	
18 PARALLEL PCS	1 pt/a	A		93.33 a	0.00 a	88.33 a	71.67 a	100.00 a	28.33 c-f	78.33 a-d	68.33 ab	68.33 ab	0.00 a						
LINEX	0.8 pt/a	A																	
NIS	0.25 % v/v	A																	
19 AIM	1.5 oz/a	A		98.33 a	0.00 a	93.33 a	83.33 a	100.00 a	20.00 def	95.00 ab	78.33 a	78.33 a	0.00 a						
COC	1 % v/v	A																	
20 ENVOKE	0.25 oz/a	A		100.00 a	0.00 a	90.00 a	75.00 a	100.00 a	48.33 a-d	91.67 ab	85.00 a	85.00 a	0.00 a						
NIS	0.25 % v/v	A																	
21 SUPREND	1.01 lb/a	A		100.00 a	0.00 a	90.00 a	73.33 a	100.00 a	43.33 a-e	86.67 abc	88.33 a	88.33 a	0.00 a						
NIS	0.25 % v/v	A																	
22 STAPLE LX	2.6 oz/a	A		100.00 a	0.00 a	86.67 a	61.67 a	100.00 a	21.67 def	96.67 a	81.67 a	81.67 a	0.00 a						
NIS	0.25 % v/v	A																	
23 NONTREATED				0.00 c	0.00 a	30.00 c	28.33 a	33.33 b	10.00 f	6.67 g	13.33 c	13.33 c	0.00 a						
LSD (P=.05)				24.034	0.000	26.084	36.379	33.835	28.370	36.504	31.716	31.716	0.000						
Standard Deviation				14.565	0.000	15.807	22.046	20.504	17.193	22.122	19.220	19.220	0.000						
CV				16.5	0.0	18.3	31.17	21.73	45.11	32.2	27.29	27.29	0.0						
Grand Mean				88.26	0.0	86.38	70.72	94.35	38.12	68.7	70.43	70.43	0.0						
Bartlett's X2				32.414	0.0	64.727	45.949	0.028	14.054	44.463	23.535	23.535	0.0						
P(Bartlett's X2)				0.006*	.	0.001*	0.001*	0.986	0.90	0.003*	0.372	0.372	.						
Replicate F				1.373	0.000	0.045	0.289	0.279	1.259	0.886	0.197	0.197	0.000						
Replicate Prob(F)				0.2639	1.0000	0.9561	0.7502	0.7577	0.2940	0.4194	0.8218	0.8218	1.0000						
Treatment F				6.573	0.000	2.315	0.893	1.856	2.384	3.008	2.152	2.152	0.000						
Treatment Prob(F)				0.0001	1.0000	0.0088	0.6031	0.0403	0.0070	0.0009	0.0152	0.0152	1.0000						

LSU Northeast Research Station

Weed Code		GOSHI	GOSHI
Crop Code		YIELD	YIELD
Rating Data Type		LB	LB/A
Rating Unit		16/Oct/2008	16/Oct/2008
Rating Date		111 DA-A	111 DA-A
Trt-Eval Interval			TY1
ARM Action Codes			1
# Subsamples, Dec.			

Trt	Treatment	Rate	Unit	Appl Code	33	34
1	COTTON PRO	2 pt/a	A		0.27 a	87.1 a
	NIS	0.25 % v/v	A			
2	COTORAN	2 pt/a	A		2.27 a	740.1 a
	NIS	0.25 % v/v	A			
3	LINEX	1.25 pt/a	A		1.50 a	489.8 a
	NIS	0.25 % v/v	A			
4	DIURON	2 pt/a	A		1.28 a	418.0 a
	NIS	0.25 % v/v	A			
5	PARALLEL PCS	1.33 pt/a	A		1.87 a	609.5 a
	NIS	0.25 % v/v	A			
6	COTORAN	1 pt/a	A		1.40 a	457.2 a
	DIURON	1 pt/a	A			
	NIS	0.25 % v/v	A			
7	COTORAN	1 pt/a	A		2.57 a	838.1 a
	DIURON	1.5 pt/a	A			
	NIS	0.25 % v/v	A			
8	COTORAN	1 pt/a	A		0.63 a	206.8 a
	COTTON PRO	0.8 pt/a	A			
	NIS	0.25 % v/v	A			
9	COTORAN	1 pt/a	A		1.21 a	396.2 a
	LINEX	1.5 pt/a	A			
	NIS	0.25 % v/v	A			
10	LINEX	0.8 pt/a	A		1.87 a	609.5 a
	DIURON	0.8 pt/a	A			
	NIS	0.25 % v/v	A			
11	LINEX	1.2 pt/a	A		1.30 a	424.5 a
	DIURON	1.2 pt/a	A			
	NIS	0.25 % v/v	A			
12	DIURON	1 pt/a	A		2.33 a	761.9 a
	COTTON PRO	0.8 pt/a	A			
	NIS	0.25 % v/v	A			
13	LINEX	0.8 pt/a	A		1.60 a	522.5 a
	COTTON PRO	0.8 pt/a	A			
	NIS	0.25 % v/v	A			
14	PARALLEL PCS	1 pt/a	A		0.87 a	283.0 a
	DIURON	1 pt/a	A			
	NIS	0.25 % v/v	A			
15	PARALLEL PCS	1 pt/a	A		1.29 a	420.1 a
	DIURON	1.5 pt/a	A			
	NIS	0.25 % v/v	A			
16	PARALLEL PCS	1 pt/a	A		1.09 a	354.8 a
	COTTON PRO	0.8 pt/a	A			
	NIS	0.25 % v/v	A			
17	PARALLEL PCS	1 pt/a	A		1.39 a	455.0 a
	COTORAN	1 pt/a	A			
	NIS	0.25 % v/v	A			
18	PARALLEL PCS	1 pt/a	A		0.99 a	324.4 a
	LINEX	0.8 pt/a	A			
	NIS	0.25 % v/v	A			
19	AIM	1.5 oz/a	A		0.83 a	272.1 a
	COC	1 % v/v	A			
20	ENVOKE	0.25 oz/a	A		1.20 a	391.8 a
	NIS	0.25 % v/v	A			
21	SUPREND	1.01 lb/a	A		1.50 a	489.8 a
	NIS	0.25 % v/v	A			
22	STAPLE LX	2.6 oz/a	A		1.17 a	381.0 a
	NIS	0.25 % v/v	A			
23	NONTREATED				1.04 a	339.6 a
LSD (P=.05)					1.246	406.85
Standard Deviation					0.755	246.55
CV					55.2	55.2
Grand Mean					1.37	446.65
Bartlett's X2					18.648	18.648
P(Bartlett's X2)					0.667	0.667
Replicate F					8.056	8.056
Replicate Prob(F)					0.0011	0.0011
Treatment F					1.553	1.553
Treatment Prob(F)					0.1085	0.1085