

LSU Northeast Research Station

Glufosinate and insecticide/mepiquat chloride co-application effects on growth and yield of Liberty Link cotton

GENERAL TRIAL INFORMATION

Investigator: Donnie Miller
TRIAL LOCATION: WINNSBORO, LA
Crop 1: GOSHI COTTON
Variety: FM1735LL
Planting Date: 7/May/2008

SITE AND DESIGN

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

APPLICATION DESCRIPTION

	A	B
Application Date:	23/Jun/2008	7/Jul/2008
Time of Day:	1:30 PM	11:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	LAPOCR	LAPOCR
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	91 F	92 F
% Relative Humidity:	32	54
Wind Velocity, Unit:	3.6 MPH	4.5 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	N	N
Soil Temp., Unit:	84 F	84 F
Soil Moisture:	DRY	MOIST
% Cloud Cover:	15	60

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GOSHI 11-12NODE	GOSHI 14-16NODE

APPLICATION EQUIPMENT

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

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 30/Jun/2008 7 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	333.125000				
R	2	2.150000	1.075000	0.439	0.6465	0.70
A	1	0.675000	0.675000	0.275	0.6012	0.50
B	9	9.541667	1.060185	0.433	0.9136	1.11
AB	9	13.741667	1.526852	0.623	0.7741	1.57
C	1	91.875000	91.875000	37.484	0.0001	0.50
AC	1	0.675000	0.675000	0.275	0.6012	0.70
BC	9	9.541667	1.060185	0.433	0.9136	1.57
ABC	9	13.741667	1.526852	0.623	0.7741	2.21
ERROR	78	191.183333	2.451068			

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 7/Jul/2008 14 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	0.000000				
R	2	0.000000	0.000000	0.000	0.0000	0.00
A	1	0.000000	0.000000	0.000	0.0000	0.00
B	9	0.000000	0.000000	0.000	0.0000	0.00
AB	9	0.000000	0.000000	0.000	0.0000	0.00
C	1	0.000000	0.000000	0.000	0.0000	0.00
AC	1	0.000000	0.000000	0.000	0.0000	0.00
BC	9	0.000000	0.000000	0.000	0.0000	0.00
ABC	9	0.000000	0.000000	0.000	0.0000	0.00
ERROR	78	0.000000	0.000000			

FACTORIAL/POOLED ERROR AOV For GOSHI AVG CROP HT CM 7/Jul/2008 14 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	119900.455649				
R	2	310.065525	155.032763	5.058	0.0086	2.48
A	1	1095.051991	1095.051991	35.727	0.0001	1.75
B	9	136.227102	15.136345	0.494	0.8745	3.91
AB	9	126.290309	14.032257	0.458	0.8983	5.54
C	1	114484.503668	114484.503668	3735.146	0.0001	1.75
AC	1	1095.051991	1095.051991	35.727	0.0001	2.48
BC	9	136.227102	15.136345	0.494	0.8745	5.54
ABC	9	126.290309	14.032257	0.458	0.8983	7.83
ERROR	78	2390.747652	30.650611			

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 14/Jul/2008 7 DA-B						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	104.325000				
R	2	4.200000	2.100000	2.416	0.0959	0.42
A	1	1.875000	1.875000	2.157	0.1459	0.29
B	9	6.075000	0.675000	0.777	0.6384	0.66
AB	9	1.875000	0.208333	0.240	0.9875	0.93
C	1	12.675000	12.675000	14.582	0.0003	0.29
AC	1	1.875000	1.875000	2.157	0.1459	0.42
BC	9	6.075000	0.675000	0.777	0.6384	0.93
ABC	9	1.875000	0.208333	0.240	0.9875	1.32
ERROR	78	67.800000	0.869231			

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 21/Jul/2008 14 DA-B 28 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	17.700000				
R	2	0.600000	0.300000	2.053	0.1353	0.17
A	1	0.300000	0.300000	2.053	0.1559	0.12
B	9	1.200000	0.133333	0.912	0.5191	0.27
AB	9	1.200000	0.133333	0.912	0.5191	0.38
C	1	0.300000	0.300000	2.053	0.1559	0.12
AC	1	0.300000	0.300000	2.053	0.1559	0.17
BC	9	1.200000	0.133333	0.912	0.5191	0.38
ABC	9	1.200000	0.133333	0.912	0.5191	0.54
ERROR	78	11.400000	0.146154			

FACTORIAL/POOLED ERROR AOV For GOSHI AVG CROP HT CM 21/Jul/2008 14 DA-B 28 DA-A						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	14367.852216				
R	2	2751.782893	1375.891446	15.622	0.0001	4.20
A	1	1760.268164	1760.268164	19.987	0.0001	2.97
B	9	569.227884	63.247543	0.718	0.6908	6.64
AB	9	671.175324	74.575036	0.847	0.5758	9.38
C	1	167.561026	167.561026	1.903	0.1717	2.97
AC	1	704.705496	704.705496	8.002	0.0059	4.20
BC	9	359.372966	39.930330	0.453	0.9011	9.38
ABC	9	514.174966	57.130552	0.649	0.7520	13.27
ERROR	78	6869.583498	88.071583			

FACTORIAL/POOLED ERROR AOV For GOSHI INJURY % 4/Aug/2008 28 DA-B

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	0.000000				
R	2	0.000000	0.000000	0.000	0.0000	0.00
A	1	0.000000	0.000000	0.000	0.0000	0.00
B	9	0.000000	0.000000	0.000	0.0000	0.00
AB	9	0.000000	0.000000	0.000	0.0000	0.00
C	1	0.000000	0.000000	0.000	0.0000	0.00
AC	1	0.000000	0.000000	0.000	0.0000	0.00
BC	9	0.000000	0.000000	0.000	0.0000	0.00
ABC	9	0.000000	0.000000	0.000	0.0000	0.00
ERROR	78	0.000000	0.000000			

FACTORIAL/POOLED ERROR AOV For GOSHI AVG CROP HT CM 4/Aug/2008 28 DA-B

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	160950.483846				
R	2	874.698406	437.349203	9.418	0.0002	3.05
A	1	15.265336	15.265336	0.329	0.5681	2.15
B	9	175.433676	19.492631	0.420	0.9209	4.82
AB	9	254.474605	28.274956	0.609	0.7859	6.81
C	1	155563.210032	155563.210032	3349.853	0.0001	2.15
AC	1	15.265336	15.265336	0.329	0.5681	3.05
BC	9	175.433676	19.492631	0.420	0.9209	6.81
ABC	9	254.474605	28.274956	0.609	0.7859	9.64
ERROR	78	3622.228175	46.438823			

FACTORIAL/POOLED ERROR AOV For GOSHI YIELD LB 30/Sep/2008

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	214.302471				
R	2	43.388042	21.694021	16.734	0.0001	0.51
A	1	0.513521	0.513521	0.396	0.5309	0.36
B	9	29.309346	3.256594	2.512	0.0140	0.81
AB	9	6.267521	0.696391	0.537	0.8431	1.14
C	1	3.250511	3.250511	2.507	0.1174	0.36
AC	1	0.196021	0.196021	0.151	0.6984	0.51
BC	9	15.998854	1.777650	1.371	0.2156	1.14
ABC	9	14.261692	1.584632	1.222	0.2937	1.61
ERROR	78	101.116965	1.296371			

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Crop Code	GOSHI		GOSHI		GOSHI	
Part Rated	YIELD		SEEDCOTTON		LINT FRACTION	
Rating Data Type	LB/A	GRAMS	GRAMS	%	LINT	YIELD
Rating Unit					LB/A	
Rating Date	30/Sep/2008	6/Oct/2008	6/Oct/2008	6/Oct/2008	7/Nov/2008	

Trt-Eval Interval	TY1			T3		T4		
ARM Action Codes	1							
# Subsamples, Dec.								
Trt Treatment								
No. Name	Rate	Unit	Appl Code	10	11	12	13	14

TABLE OF R MEANS

Replicate 1	1515.8	818.45	323.60	39.51	598.29
Replicate 2	1241.8	727.21	285.04	39.06	486.40
Replicate 3	1144.8	641.95	254.66	39.54	453.09
Replicate 4

TABLE OF A MEANS

1 IGNITE	29 oz/a	A	1317.9	713.10	284.03	39.68	523.33
2 IGNITE	29 oz/a	A	1283.7	745.31	291.51	39.06	501.86
2 STANCE	3 oz/a	A					

TABLE OF B MEANS

1 ACEPHATE	0.5 lb ai/a	A	1269.1	753.83	300.00	39.75	504.57
2 BAYTHROID XL	0.033 lb ai/a	A	1419.3	863.75	341.17	39.52	560.65
3 BIDRIN	0.4 lb ai/a	A	1454.2	780.33	307.67	39.52	572.85
4 CENTRIC	0.047 lb ai/a	A	1249.5	728.50	286.83	39.35	492.49
5 DIMETHOATE	0.25 lb ai/a	A	1325.7	776.17	308.42	39.70	526.55
6 DIAMOND	9 oz/a	A	1380.2	694.92	266.79	38.13	528.12
7 CARBINE	0.088 lb ai/a	A	1432.4	735.58	289.00	39.27	562.52
8 ZEPHYR	5 oz/a	A	1245.2	713.08	283.50	39.72	494.18
9 OBERON	5 oz/a	A	1238.7	706.75	279.75	39.49	490.14
10 VYDATE C-LV	0.4 lb ai/a	A	993.8	539.13	214.54	39.28	393.86

TABLE OF C MEANS

1 MATCH HEAD SQUARE		A	1343.8	739.86	289.88	39.08	525.92
2 FIRST FLOWER		B	1257.8	718.55	285.66	39.67	499.26

TABLE OF AB MEANS

1 IGNITE	29 oz/a	A	1284.4	821.50	330.17	40.10	516.25
1 ACEPHATE	0.5 lb ai/a	A					
2 IGNITE	29 oz/a	A	1253.9	686.17	269.83	39.39	492.89
2 STANCE	3 oz/a	A					
1 ACEPHATE	0.5 lb ai/a	A					
1 IGNITE	29 oz/a	A	1536.9	871.00	346.50	39.81	611.16
2 BAYTHROID XL	0.033 lb ai/a	A					
2 IGNITE	29 oz/a	A	1301.8	856.50	335.83	39.22	510.14
2 STANCE	3 oz/a	A					
2 BAYTHROID XL	0.033 lb ai/a	A					
1 IGNITE	29 oz/a	A	1367.1	743.00	294.00	39.68	539.26
3 BIDRIN	0.4 lb ai/a	A					
2 IGNITE	29 oz/a	A	1541.3	817.67	321.33	39.36	606.43
2 STANCE	3 oz/a	A					
3 BIDRIN	0.4 lb ai/a	A					
1 IGNITE	29 oz/a	A	1284.4	757.00	300.83	39.69	511.03
4 CENTRIC	0.047 lb ai/a	A					
2 IGNITE	29 oz/a	A	1214.7	700.00	272.83	39.00	473.95
2 STANCE	3 oz/a	A					
4 CENTRIC	0.047 lb ai/a	A					
1 IGNITE	29 oz/a	A	1354.0	803.00	325.00	40.40	547.38
5 DIMETHOATE	0.25 lb ai/a	A					
2 IGNITE	29 oz/a	A	1297.4	749.33	291.83	39.00	505.72
2 STANCE	3 oz/a	A					
5 DIMETHOATE	0.25 lb ai/a	A					
1 IGNITE	29 oz/a	A	1362.7	619.17	237.42	37.96	519.11
6 DIAMOND	9 oz/a	A					
2 IGNITE	29 oz/a	A	1397.6	770.67	296.17	38.31	537.13
2 STANCE	3 oz/a	A					
6 DIAMOND	9 oz/a	A					
1 IGNITE	29 oz/a	A	1528.2	699.67	277.50	39.64	604.81
7 CARBINE	0.088 lb ai/a	A					
2 IGNITE	29 oz/a	A	1336.6	771.50	300.50	38.90	520.22
2 STANCE	3 oz/a	A					
7 CARBINE	0.088 lb ai/a	A					
1 IGNITE	29 oz/a	A	1188.6	640.83	256.33	39.93	474.87
8 ZEPHYR	5 oz/a	A					

LSU Northeast Research Station

Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Part Rated				LINT	
Rating Data Type	YIELD	SEEDCOTTON	LINT	FRACTION	LINT YIELD
Rating Unit	LB/A	GRAMS	GRAMS	%	LB/A
Rating Date	30/Sep/2008	6/Oct/2008	6/Oct/2008	6/Oct/2008	7/Nov/2008

Trt-Eval Interval					
ARM Action Codes	TY1			T3	T4
# Subsamples, Dec.	1				

Trt Treatment	Rate	Unit	Appl Code	10	11	12	13	14
No. Name	Rate	Unit	Code					
2 IGNITE	29 oz/a	A		1301.8	785.33	310.67	39.51	513.50
2 STANCE	3 oz/a	A						
8 ZEPHYR	5 oz/a	A						
1 IGNITE	29 oz/a	A		1232.1	628.83	252.50	39.91	493.46
9 OBERON	5 oz/a	A						
2 IGNITE	29 oz/a	A		1245.2	784.67	307.00	39.07	486.83
2 STANCE	3 oz/a	A						
9 OBERON	5 oz/a	A						
1 IGNITE	29 oz/a	A		1040.6	547.00	220.00	39.71	415.98
10 VYDATE C-LV	0.4 lb ai/a	A						
2 IGNITE	29 oz/a	A		947.0	531.25	209.08	38.86	371.75
2 STANCE	3 oz/a	A						
10 VYDATE C-LV	0.4 lb ai/a	A						

TABLE OF AC MEANS

1 IGNITE	29 oz/a	A		1371.5	723.27	286.33	39.35	541.24
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1316.2	756.45	293.42	38.81	510.61
2 STANCE	3 oz/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1264.4	702.93	281.72	40.02	505.43
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1251.3	734.17	289.60	39.32	493.10
2 STANCE	3 oz/a	A						
2 FIRST FLOWER		B						

TABLE OF BC MEANS

1 ACEPHATE	0.5 lb ai/a	A		1123.3	673.83	265.67	39.39	442.61
1 MATCH HEAD SQUARE		A						
2 BAYTHROID XL	0.033 lb ai/a	A		1506.4	888.83	348.33	39.19	591.29
1 MATCH HEAD SQUARE		A						
3 BIDRIN	0.4 lb ai/a	A		1654.5	807.50	315.17	39.06	645.24
1 MATCH HEAD SQUARE		A						
4 CENTRIC	0.047 lb ai/a	A		1367.1	806.67	316.33	39.15	536.69
1 MATCH HEAD SQUARE		A						
5 DIMETHOATE	0.25 lb ai/a	A		1415.0	838.33	331.83	39.57	560.51
1 MATCH HEAD SQUARE		A						
6 DIAMOND	9 oz/a	A		1362.7	732.17	283.17	38.17	525.12
1 MATCH HEAD SQUARE		A						
7 CARBINE	0.088 lb ai/a	A		1349.7	656.67	252.17	38.46	519.15
1 MATCH HEAD SQUARE		A						
8 ZEPHYR	5 oz/a	A		1314.9	678.83	265.17	39.12	513.34
1 MATCH HEAD SQUARE		A						
9 OBERON	5 oz/a	A		1280.0	723.17	288.33	39.69	509.58
1 MATCH HEAD SQUARE		A						
10 VYDATE C-LV	0.4 lb ai/a	A		1064.5	592.58	232.58	38.99	415.72
1 MATCH HEAD SQUARE		A						
1 ACEPHATE	0.5 lb ai/a	A		1415.0	833.83	334.33	40.11	566.53
2 FIRST FLOWER		B						
2 BAYTHROID XL	0.033 lb ai/a	A		1332.3	838.67	334.00	39.84	530.01
2 FIRST FLOWER		B						
3 BIDRIN	0.4 lb ai/a	A		1253.9	753.17	300.17	39.98	500.46
2 FIRST FLOWER		B						
4 CENTRIC	0.047 lb ai/a	A		1132.0	650.33	257.33	39.54	448.29
2 FIRST FLOWER		B						
5 DIMETHOATE	0.25 lb ai/a	A		1236.5	714.00	285.00	39.83	492.60
2 FIRST FLOWER		B						
6 DIAMOND	9 oz/a	A		1397.6	657.67	250.42	38.09	531.12
2 FIRST FLOWER		B						
7 CARBINE	0.088 lb ai/a	A		1515.1	814.50	325.83	40.08	605.88
2 FIRST FLOWER		B						
8 ZEPHYR	5 oz/a	A		1175.5	747.33	301.83	40.32	475.02
2 FIRST FLOWER		B						
9 OBERON	5 oz/a	A		1197.3	690.33	271.17	39.29	470.71
2 FIRST FLOWER		B						
10 VYDATE C-LV	0.4 lb ai/a	A		923.0	485.67	196.50	39.57	372.01
2 FIRST FLOWER		B						

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Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Part Rated				LINT	
Rating Data Type	YIELD	SEEDCOTTON	LINT	FRACTION	LINT YIELD
Rating Unit	LB/A	GRAMS	GRAMS	%	LB/A
Rating Date	30/Sep/2008	6/Oct/2008	6/Oct/2008	6/Oct/2008	7/Nov/2008

Trt-Eval Interval					
ARM Action Codes	TY1			T3	T4
# Subsamples, Dec.	1				

Trt Treatment								
No. Name	Rate	Unit	Appl Code	10	11	12	13	14

TABLE OF ABC MEANS

1 IGNITE	29 oz/a	A		1071.0	736.67	293.00	39.67	426.26
1 ACEPHATE	0.5 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1175.5	611.00	238.33	39.10	458.95
2 STANCE	3 oz/a	A						
1 ACEPHATE	0.5 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1610.9	875.00	346.67	39.62	638.66
2 BAYTHROID XL	0.033 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1401.9	902.67	350.00	38.75	543.91
2 STANCE	3 oz/a	A						
2 BAYTHROID XL	0.033 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1698.0	787.00	310.00	39.40	666.72
3 BIDRIN	0.4 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1610.9	828.00	320.33	38.72	623.76
2 STANCE	3 oz/a	A						
3 BIDRIN	0.4 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1454.2	880.67	351.00	39.87	580.31
4 CENTRIC	0.047 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1280.0	732.67	281.67	38.43	493.07
2 STANCE	3 oz/a	A						
4 CENTRIC	0.047 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1480.3	865.33	351.00	40.60	600.58
5 DIMETHOATE	0.25 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1349.7	811.33	312.67	38.55	520.45
2 STANCE	3 oz/a	A						
5 DIMETHOATE	0.25 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1184.2	598.33	228.33	37.36	448.43
6 DIAMOND	9 oz/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1541.3	866.00	338.00	38.98	601.81
2 STANCE	3 oz/a	A						
6 DIAMOND	9 oz/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1489.0	645.67	249.00	38.60	575.30
7 CARBINE	0.088 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1210.4	667.67	255.33	38.32	463.00
2 STANCE	3 oz/a	A						
7 CARBINE	0.088 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1158.1	541.00	215.00	39.61	459.60
8 ZEPHYR	5 oz/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1471.6	816.67	315.33	38.63	567.09
2 STANCE	3 oz/a	A						
8 ZEPHYR	5 oz/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1393.2	724.33	294.67	40.34	563.15
9 OBERON	5 oz/a	A						
1 MATCH HEAD SQUARE		A						
2 IGNITE	29 oz/a	A		1166.8	722.00	282.00	39.04	456.00
2 STANCE	3 oz/a	A						
9 OBERON	5 oz/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1175.5	578.67	224.67	38.45	453.34
10 VYDATE C-LV	0.4 lb ai/a	A						
1 MATCH HEAD SQUARE		A						

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Crop Code	GOSHI		GOSHI	GOSHI	GOSHI	GOSHI		
Part Rated	GOSHI		GOSHI	GOSHI	GOSHI	GOSHI		
Rating Data Type	YIELD	SEEDCOTTON	LINT	FRACTION	LINT	YIELD		
Rating Unit	LB/A	GRAMS	GRAMS	%		LB/A		
Rating Date	30/Sep/2008	6/Oct/2008	6/Oct/2008	6/Oct/2008	7/Nov/2008			
Trt-Eval Interval	TY1			T3	T4			
ARM Action Codes	1							
# Subsamples, Dec.								
Trt Treatment								
No. Name	Rate	Rate Unit	Appl Code	10	11	12	13	14
2 IGNITE	29 oz/a	A		953.5	606.50	240.50	39.54	378.09
2 STANCE	3 oz/a	A						
10 VYDATE C-LV	0.4 lb ai/a	A						
1 MATCH HEAD SQUARE		A						
1 IGNITE	29 oz/a	A		1497.7	906.33	367.33	40.53	606.24
1 ACEPHATE	0.5 lb ai/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1332.3	761.33	301.33	39.68	526.83
2 STANCE	3 oz/a	A						
1 ACEPHATE	0.5 lb ai/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1462.9	867.00	346.33	40.00	583.65
2 BAYTHROID XL	0.033 lb ai/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1201.7	810.33	321.67	39.69	476.38
2 STANCE	3 oz/a	A						
2 BAYTHROID XL	0.033 lb ai/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1036.2	699.00	278.00	39.96	411.81
3 BIDRIN	0.4 lb ai/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1471.6	807.33	322.33	39.99	589.11
2 STANCE	3 oz/a	A						
3 BIDRIN	0.4 lb ai/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1114.6	633.33	250.67	39.51	441.74
4 CENTRIC	0.047 lb ai/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1149.4	667.33	264.00	39.57	454.83
2 STANCE	3 oz/a	A						
4 CENTRIC	0.047 lb ai/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1227.8	740.67	299.00	40.21	494.19
5 DIMETHOATE	0.25 lb ai/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1245.2	687.33	271.00	39.45	491.00
2 STANCE	3 oz/a	A						
5 DIMETHOATE	0.25 lb ai/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1541.3	640.00	246.50	38.55	589.78
6 DIAMOND	9 oz/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1253.9	675.33	254.33	37.64	472.46
2 STANCE	3 oz/a	A						
6 DIAMOND	9 oz/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1567.4	753.67	306.00	40.69	634.33
7 CARBINE	0.088 lb ai/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1462.9	875.33	345.67	39.47	577.44
2 STANCE	3 oz/a	A						
7 CARBINE	0.088 lb ai/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1219.1	740.67	297.67	40.26	490.14
8 ZEPHYR	5 oz/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1132.0	754.00	306.00	40.39	459.91
2 STANCE	3 oz/a	A						
8 ZEPHYR	5 oz/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		1071.0	533.33	210.33	39.48	423.76
9 OBERON	5 oz/a	A						
2 FIRST FLOWER		B						
2 IGNITE	29 oz/a	A		1323.6	847.33	332.00	39.10	517.66
2 STANCE	3 oz/a	A						
9 OBERON	5 oz/a	A						
2 FIRST FLOWER		B						
1 IGNITE	29 oz/a	A		905.6	515.33	215.33	40.96	378.63
10 VYDATE C-LV	0.4 lb ai/a	A						
2 FIRST FLOWER		B						

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Crop Code	GOSHI		GOSHI		GOSHI		GOSHI		
Part Rated	GOSHI		GOSHI		GOSHI		GOSHI		
Rating Data Type	YIELD	SEEDCOTTON	LINT	FRACTION	LINT	YIELD			
Rating Unit	LB/A	GRAMS	GRAMS	%		LB/A			
Rating Date	30/Sep/2008	6/Oct/2008	6/Oct/2008	6/Oct/2008	7/Nov/2008				
Trt-Eval Interval	TY1				T3	T4			
ARM Action Codes	1								
# Subsamples, Dec.									
Trt Treatment									
No.	Name	Rate	Unit	Appl Code	10	11	12	13	14
2	IGNITE	29	oz/a	A	940.4	456.00	177.67	38.18	365.40
2	STANCE	3	oz/a	A					
10	VYDATE C-LV	0.4	lb ai/a	A					
2	FIRST FLOWER			B					

FACTORIAL/POOLED ERROR AOV For GOSHI YIELD LB/A 30/Sep/2008 TY1 1						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	14624172.178495				
R	2	2960834.446256	1480417.223128	16.734	0.0001	133.0
A	1	35043.083570	35043.083570	0.396	0.5309	94.1
B	9	2000093.061797	222232.562422	2.512	0.0140	210.3
AB	9	427700.782343	47522.309149	0.537	0.8431	297.4
C	1	221818.191805	221818.191805	2.507	0.1174	94.1
AC	1	13376.619563	13376.619563	0.151	0.6984	133.0
BC	9	1091774.557380	121308.284153	1.371	0.2156	297.4
ABC	9	973228.932953	108136.548106	1.222	0.2937	420.6
ERROR	78	6900302.502827	88465.416703			

FACTORIAL/POOLED ERROR AOV For GOSHI SEEDCOTTON GRAMS 6/Oct/2008						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	3928502.247917				
R	2	623283.004167	311641.502083	14.433	0.0001	65.72
A	1	31121.302083	31121.302083	1.441	0.2336	46.47
B	9	739677.935417	82186.437269	3.806	0.0005	103.91
AB	9	280141.302083	31126.811343	1.442	0.1852	146.94
C	1	13621.352083	13621.352083	0.631	0.4295	46.47
AC	1	28.518750	28.518750	0.001	0.9711	65.72
BC	9	342270.918750	38030.102083	1.761	0.0893	146.94
ABC	9	214126.418750	23791.824306	1.102	0.3715	207.81
ERROR	78	1684231.495833	21592.711485			

FACTORIAL/POOLED ERROR AOV For GOSHI LINT GRAMS 6/Oct/2008						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	644520.966667				
R	2	95494.479167	47747.239583	13.063	0.0001	27.04
A	1	1680.008333	1680.008333	0.460	0.4998	19.12
B	9	116524.341667	12947.149074	3.542	0.0010	42.75
AB	9	47541.366667	5282.374074	1.445	0.1837	60.46
C	1	533.408333	533.408333	0.146	0.7035	19.12
AC	1	4.800000	4.800000	0.001	0.9712	27.04
BC	9	60247.800000	6694.200000	1.831	0.0756	60.46
ABC	9	37391.575000	4154.619444	1.137	0.3477	85.50
ERROR	78	285103.187500	3655.169071			

FACTORIAL/POOLED ERROR AOV For GOSHI LINT FRACTION % 6/Oct/2008 T3						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	177.566913				
R	2	5.889568	2.944784	2.574	0.0827	0.48
A	1	11.587868	11.587868	10.128	0.0021	0.34
B	9	23.802968	2.644774	2.312	0.0232	0.76
AB	9	5.419834	0.602204	0.526	0.8512	1.07
C	1	10.323729	10.323729	9.023	0.0036	0.34
AC	1	0.175894	0.175894	0.154	0.6961	0.48
BC	9	9.408865	1.045429	0.914	0.5179	1.07
ABC	9	21.717231	2.413026	2.109	0.0384	1.51
ERROR	78	89.240955	1.144115			

FACTORIAL/POOLED ERROR AOV For GOSHI LINT YIELD LB/A 7/Nov/2008 T4						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F	Prob(F)	LSD (.05)
Total	119	2309356.435170				
R	2	462804.608705	231402.304352	16.264	0.0001	53.34
A	1	13833.218844	13833.218844	0.972	0.3272	37.72
B	9	291317.388244	32368.598694	2.275	0.0254	84.34
AB	9	74205.174364	8245.019374	0.580	0.8100	119.28
C	1	21322.761727	21322.761727	1.499	0.2246	37.72
AC	1	2510.998178	2510.998178	0.176	0.6756	53.34
BC	9	173520.827834	19280.091982	1.355	0.2232	119.28
ABC	9	160091.697339	17787.966371	1.250	0.2776	168.69
ERROR	78	1109749.759936	14227.561025			

Column 10: TY1 = 261.2294*[9]

Column 13: T3 = (100-[13])

Column 14: T4 = ((([10]*[13])/100)