

LSU Northeast Research Station

EVALUATION OF WEED CONTROL IN ROUNUP READY SOYBEAN WITH SEQUENCE AND INSECTICIDE CO-APPLICATION

Trial ID: SJSB0407

Study Dir.:

Location:

Investigator: Donnie Miller

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 25 FT Reps: 4

Site Type: _____

Tillage Type: _____ Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

APPLICATION DESCRIPTION

	A	B
Application Date:	13/Jun/2004	26/Jun/2004
Time of Day:		
Application Method:	SPRAY	SPRAY
Application Timing:	POSPOS	POSPOS
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	92 F	79 F
% Relative Humidity:	94	76
Wind Velocity, Unit:	1 MPH	
Dew Presence (Y/N):		
Water Hardness:		
Soil Temp., Unit:	89 F	77 F
Soil Moisture:		
% Cloud Cover:	30	100

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ECHCG 2-3"	ECHCG 2-3"
Stage Scale:		
Density, Unit:		
Weed 2 Code, Stage:	SEBEX 2-3"	SEBEX 2-3"
Stage Scale:		
Density, Unit:		
Weed 3 Code, Stage:	SORHA 2-3"	SORHA 2-3"
Stage Scale:		
Density, Unit:		
Weed 4 Code, Stage:	IPOLA 2-3"	IPOLA 2-3"
Stage Scale:		
Density, Unit:		
Weed 5 Code, Stage:	IPOHG 2-3"	IPOHG 2-3"
Stage Scale:		
Density, Unit:		
Weed 6 Code, Stage:	AMARE 2-3"	AMARE 2-3"
Stage Scale:		
Density, Unit:		
Weed 7 Code, Stage:	CASOB 2-3"	CASOB 2-3"
Stage Scale:		
Density, Unit:		

LSU Northeast Research Station

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	TRACTOR	CO2 BCPCCK
Operating Pressure:	32 PSI	38 PSI
Nozzle Type:	AI	AI
Nozzle Size:	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	2	2
Band Width, Unit:		
Boom Length, Unit:		
Boom Height, Unit:		
Ground Speed, Unit:	3.2 MPH	3.2 MPH
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Spray pH:		
Propellant:		
Tank Mix (Y/N):		

LSU Northeast Research Station

Trial ID: SJSB0407			Study Dir.:						
Location:			Investigator: Donnie Miller						
Weed Code	ECHCG	SORHA	SEBEX	CASOB	IPOLA	IPOHG			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	16/Jun/2005	16/Jun/2005	16/Jun/2005	16/Jun/2005	16/Jun/2005	16/Jun/2005			
Trt-Eval Interval	7 DAIT	7 DAIT	7 DAIT	7 DAIT	7 DAIT	7 DAIT			
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6
1	SEQUENCE	2.5	pt/a	95 a	95 a	73 ab	95 a	80 ab	85 b
2	SEQUENCE	3.0	pt/a	95 a	95 a	79 a	95 a	79 ab	88 ab
3	SEQUENCE	4.0	pt/a	95 a	95 a	81 a	95 a	88 a	91 a
4	DUAL MAGNUM	1.0	pt/a	0 b	0 b	0 c	0 c	0 e	0 c
5	TOUCHDOWN TOTAL	1.5	pt/a	95 a	95 a	75 a	95 a	64 cd	84 b
6	SEQUENCE	2.5	pt/a	95 a	95 a	75 a	95 a	71 bcd	86 b
	KARATE W/ ZEON	0.025	lb ai/a						
7	SEQUENCE	2.5	pt/a	95 a	95 a	80 a	95 a	61 d	84 b
	CENTRIC	0.05	lb ai/a						
8	SEQUENCE	2.5	pt/a	94 a	95 a	78 a	95 a	66 cd	85 b
	SEVIN 4F	0.5	lb ai/a						
9	SEQUENCE	2.5	pt/a	95 a	95 a	76 a	95 a	75 bc	89 ab
	LARVIN	0.4	lb ai/a						
10	SEQUENCE	2.5	pt/a	95 a	95 a	73 ab	95 a	69 bcd	85 b
	LORSBAN 4 EC	0.5	lb ai/a						
11	TOUCHDOWN TOTAL	12	fl oz/a	93 a	95 a	64 b	86 b	65 cd	85 b
	TOUCHDOWN TOTAL	12	fl oz/a						
12	NONTREATED			0 b	0 b	0 c	0 c	0 e	0 c
LSD (P=.05)		1.6		0.0	0.0	7.6	4.9	8.7	3.7
Standard Deviation		1.1		0.0	0.0	5.3	3.4	6.0	2.6
CV		1.43		0.0	0.0	8.4	4.35	10.02	3.61
Grand Mean		78.85		79.17	62.71	78.44	59.79	71.77	
Bartlett's X2		0.061		0.0	3.029	0.0	5.217	4.953	
P(Bartlett's X2)		0.805		.	0.963	.	0.734	0.55	
Replicate F		0.407		0.000	8.845	1.000	0.019	2.355	
Replicate Prob(F)		0.7487		1.0000	0.0002	0.4051	0.9963	0.0898	
Treatment F		4246.630		0.000	126.772	463.763	93.285	672.981	
Treatment Prob(F)		0.0001		1.0000	0.0001	0.0001	0.0001	0.0001	

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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

LSU Northeast Research Station

Weed Code		AMARE	GLXMA	ECHCG	SORHA	SEBEX	CASOB
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type		CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		%	%	%	%	%	%
Rating Date		16/Jun/2005	16/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005
Trt-Eval Interval		7 DAIT	7 DAIT	14 DAIT	14 DAIT	14 DAIT	14 DAIT
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	7	8	9	10	11	12
1 SEQUENCE	2.5 pt/a	95 a	11 b	91 a	95 a	74 bc	95 a
2 SEQUENCE	3.0 pt/a	95 a	10 b	94 a	95 a	78 b	91 a
3 SEQUENCE	4.0 pt/a	95 a	18 a	95 a	94 a	89 a	95 a
4 DUAL MAGNUM	1.0 pt/a	0 b	10 b	0 b	0 b	0 d	0 b
5 TOUCHDOWN TOTAL	1.5 pt/a	95 a	0 c	94 a	95 a	75 bc	95 a
6 SEQUENCE	2.5 pt/a	95 a	6 b	94 a	95 a	78 b	95 a
KARATE W/ ZEON	0.025 lb ai/a						
7 SEQUENCE	2.5 pt/a	95 a	6 b	93 a	95 a	78 b	95 a
CENTRIC	0.05 lb ai/a						
8 SEQUENCE	2.5 pt/a	95 a	9 b	93 a	95 a	76 b	95 a
SEVIN 4F	0.5 lb ai/a						
9 SEQUENCE	2.5 pt/a	95 a	8 b	94 a	95 a	79 b	95 a
LARVIN	0.4 lb ai/a						
10 SEQUENCE	2.5 pt/a	95 a	5 bc	95 a	95 a	74 bc	95 a
LORSBAN 4 EC	0.5 lb ai/a						
11 TOUCHDOWN TOTAL	12 fl oz/a	95 a	0 c	93 a	95 a	65 c	95 a
TOUCHDOWN TOTAL	12 fl oz/a						
12 NONTREATED		0 b	0 c	0 b	0 b	0 d	0 b
LSD (P=.05)		0.0	4.0	4.0	1.0	7.7	3.1
Standard Deviation		0.0	2.8	2.8	0.7	5.4	2.2
CV		0.0	40.2	3.57	0.91	8.43	2.75
Grand Mean		79.17	6.88	77.81	79.06	63.65	78.85
Bartlett's X2		0.0	5.192	3.926	0.0	6.669	0.0
P(Bartlett's X2)		.	0.637	0.788	.	0.672	.
Replicate F		0.000	3.182	0.607	1.000	6.576	1.000
Replicate Prob(F)		1.0000	0.0366	0.6149	0.4051	0.0013	0.4051
Treatment F		0.000	14.355	685.270	10475.183	126.620	1158.657
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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LSU Northeast Research Station

Weed Code		IPOLA	IPOHG	AMARE		ECHCG	SORHA
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type		CONTROL	CONTROL	CONTROL	INJURY	CONTROL	CONTROL
Rating Unit		%	%	%	%	%	%
Rating Date		23/Jun/2005	23/Jun/2005	23/Jun/2005	23/Jun/2005	30/Jun/2005	30/Jun/2005
Trt-Eval Interval		14 DAIT	14 DAIT	14 DAIT	14 DAIT	21 DAIT	21 DAIT
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	13	14	15	16	17	18
1 SEQUENCE	2.5 pt/a	80 b	84 ab	95 a	13 abc	86 a	95 a
2 SEQUENCE	3.0 pt/a	80 b	84 ab	95 a	10 abc	88 a	90 a
3 SEQUENCE	4.0 pt/a	90 a	95 a	95 a	16 a	91 a	93 a
4 DUAL MAGNUM	1.0 pt/a	0 d	0 c	0 b	11 abc	0 b	0 b
5 TOUCHDOWN TOTAL	1.5 pt/a	75 bc	79 b	95 a	6 bcd	89 a	95 a
6 SEQUENCE	2.5 pt/a	78 bc	80 ab	95 a	14 ab	90 a	94 a
KARATE W/ ZEON	0.025 lb ai/a						
7 SEQUENCE	2.5 pt/a	75 bc	80 ab	95 a	13 abc	86 a	94 a
CENTRIC	0.05 lb ai/a						
8 SEQUENCE	2.5 pt/a	75 bc	78 b	95 a	11 abc	86 a	93 a
SEVIN 4F	0.5 lb ai/a						
9 SEQUENCE	2.5 pt/a	78 bc	83 ab	95 a	10 abc	88 a	93 a
LARVIN	0.4 lb ai/a						
10 SEQUENCE	2.5 pt/a	76 bc	83 ab	94 a	11 abc	91 a	93 a
LORSBAN 4 EC	0.5 lb ai/a						
11 TOUCHDOWN TOTAL	12 fl oz/a	68 c	68 b	95 a	4 cd	89 a	95 a
TOUCHDOWN TOTAL	12 fl oz/a						
12 NONTREATED		0 d	0 c	0 b	0 d	0 b	0 b
LSD (P=.05)		7.4	10.1	1.0	5.8	7.0	4.2
Standard Deviation		5.1	7.0	0.7	4.0	4.8	2.9
CV		7.95	10.3	0.91	40.49	6.58	3.78
Grand Mean		64.48	67.6	79.06	9.9	73.65	77.71
Bartlett's X2		8.026	7.402	0.0	18.629	9.739	3.339
P(Bartlett's X2)		0.532	0.494	.	0.029*	0.372	0.765
Replicate F		0.971	1.070	1.000	1.071	0.790	2.007
Replicate Prob(F)		0.4180	0.3750	0.4051	0.3748	0.5079	0.1320
Treatment F		142.074	85.366	10475.183	5.059	201.951	610.270
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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LSU Northeast Research Station

Weed Code		SEBEX	CASOB	IPOLA	IPOHG	AMARE	
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit		%	%	%	%	%	%
Rating Date		30/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005
Trt-Eval Interval		21 DAIT	21 DAIT	21 DAIT	21 DAIT	21 DAIT	21 DAIT
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	19	20	21	22	23	24
1 SEQUENCE	2.5 pt/a	73 b	95 a	81 bc	90 a	93 a	0 a
2 SEQUENCE	3.0 pt/a	76 b	94 a	89 ab	90 a	94 a	0 a
3 SEQUENCE	4.0 pt/a	90 a	94 a	91 a	95 a	95 a	0 a
4 DUAL MAGNUM	1.0 pt/a	0 c	0 b	0 d	0 b	0 b	0 a
5 TOUCHDOWN TOTAL	1.5 pt/a	76 b	95 a	74 c	90 a	95 a	0 a
6 SEQUENCE	2.5 pt/a	69 b	93 a	78 c	88 a	90 a	0 a
KARATE W/ ZEON	0.025 lb ai/a						
7 SEQUENCE	2.5 pt/a	75 b	95 a	80 bc	90 a	93 a	0 a
CENTRIC	0.05 lb ai/a						
8 SEQUENCE	2.5 pt/a	75 b	95 a	76 c	86 a	90 a	0 a
SEVIN 4F	0.5 lb ai/a						
9 SEQUENCE	2.5 pt/a	76 b	95 a	80 bc	86 a	91 a	0 a
LARVIN	0.4 lb ai/a						
10 SEQUENCE	2.5 pt/a	74 b	95 a	80 bc	89 a	91 a	0 a
LORSBAN 4 EC	0.5 lb ai/a						
11 TOUCHDOWN TOTAL	12 fl oz/a	66 b	90 a	73 c	89 a	95 a	0 a
TOUCHDOWN TOTAL	12 fl oz/a						
12 NONTREATED		0 c	0 b	0 d	0 b	0 b	0 a
LSD (P=.05)		9.8	3.7	7.2	6.0	5.9	0.0
Standard Deviation		6.8	2.5	5.0	4.1	4.1	0.0
CV		10.85	3.25	7.43	5.56	5.31	0.0
Grand Mean		62.5	78.31	66.77	74.38	77.19	0.0
Bartlett's X2		6.874	14.119	15.007	7.848	3.814	0.0
P(Bartlett's X2)		0.65	0.007*	0.059	0.346	0.702	.
Replicate F		5.228	2.530	1.092	1.664	3.006	0.000
Replicate Prob(F)		0.0046	0.0741	0.3661	0.1937	0.0442	1.0000
Treatment F		76.970	826.617	162.655	283.384	310.116	0.000
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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LSU Northeast Research Station

Weed Code	ECHCG	SORHA	IPOLA	IPOHG	CASOB	SEBEX			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%	%			
Rating Date	8/Jul/2005	8/Jul/2005	8/Jul/2005	8/Jul/2005	8/Jul/2005	8/Jul/2005			
Trt-Eval Interval	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B	14 DAT-B			
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate Unit	25	26	27	28	29	30
1	SEQUENCE	2.5	pt/a						
2	SEQUENCE	3.0	pt/a						
3	SEQUENCE	4.0	pt/a						
4	DUAL MAGNUM	1.0	pt/a						
5	TOUCHDOWN TOTAL	1.5	pt/a						
6	SEQUENCE	2.5	pt/a						
	KARATE W/ ZEON	0.025	lb ai/a						
7	SEQUENCE	2.5	pt/a						
	CENTRIC	0.05	lb ai/a						
8	SEQUENCE	2.5	pt/a						
	SEVIN 4F	0.5	lb ai/a						
9	SEQUENCE	2.5	pt/a						
	LARVIN	0.4	lb ai/a						
10	SEQUENCE	2.5	pt/a						
	LORSBAN 4 EC	0.5	lb ai/a						
11	TOUCHDOWN TOTAL	12	fl oz/a	89	95	75	93	91	64
	TOUCHDOWN TOTAL	12	fl oz/a						
12	NONTREATED								
LSD (P=.05)									
Standard Deviation									
CV									
Grand Mean		88.75		95.0		75.0		92.5	
Bartlett's X2									
P(Bartlett's X2)									
Replicate F									
Replicate Prob(F)									
Treatment F									
Treatment Prob(F)									

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LSU Northeast Research Station

Weed Code	AMARE	CYPES		ECHCG	SORHA	SEBEX
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	8/Jul/2005	8/Jul/2005	8/Jul/2005	15/Jul/2005	15/Jul/2005	15/Jul/2005
Trt-Eval Interval	14 DAT-B	14 DAT-B	14 DAT-B	21 DAT-B	21 DAT-B	21 DAT-B
ARM Action Codes						
# Subsamples, Dec.						
Trt Treatment						
No. Name	31	32	33	34	35	36
1 SEQUENCE	2.5 pt/a					
2 SEQUENCE	3.0 pt/a					
3 SEQUENCE	4.0 pt/a					
4 DUAL MAGNUM	1.0 pt/a					
5 TOUCHDOWN TOTAL	1.5 pt/a					
6 SEQUENCE	2.5 pt/a					
KARATE W/ ZEON	0.025 lb ai/a					
7 SEQUENCE	2.5 pt/a					
CENTRIC	0.05 lb ai/a					
8 SEQUENCE	2.5 pt/a					
SEVIN 4F	0.5 lb ai/a					
9 SEQUENCE	2.5 pt/a					
LARVIN	0.4 lb ai/a					
10 SEQUENCE	2.5 pt/a					
LORSBAN 4 EC	0.5 lb ai/a					
11 TOUCHDOWN TOTAL	12 fl oz/a	95	95	0	80	95
TOUCHDOWN TOTAL	12 fl oz/a					66
12 NONTREATED						
LSD (P=.05)	.	.	.	.	.	.
Standard Deviation	.	.	.	.	.	.
CV	.	.	.	.	.	.
Grand Mean	95.0	95.0	0.0	80.0	95.0	66.25
Bartlett's X2	.	.	.	.	.	.
P(Bartlett's X2)
Replicate F						
Replicate Prob(F)						
Treatment F						
Treatment Prob(F)						

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LSU Northeast Research Station

Weed Code	CASOB	IPOLA	IPOHG	AMARE			GLXMA			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA			GLXMA			
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL			INJURY			
Rating Unit	%	%	%	%			%			
Rating Date	15/Jul/2005	15/Jul/2005	15/Jul/2005	15/Jul/2005	15/Jul/2005	15/Jul/2005				
Trt-Eval Interval	21 DAT-B	21 DAT-B	21 DAT-B	21 DAT-B	21 DAT-B	21 DAT-B				
ARM Action Codes										
# Subsamples, Dec.							13/Oct/2005			
Trt No.	Treatment Name	Rate	Rate Unit							
				37	38	39	40	41	42	43
1	SEQUENCE	2.5	pt/a							5 a
2	SEQUENCE	3.0	pt/a							5 a
3	SEQUENCE	4.0	pt/a							5 a
4	DUAL MAGNUM	1.0	pt/a							1 b
5	TOUCHDOWN TOTAL	1.5	pt/a							4 a
6	SEQUENCE	2.5	pt/a							4 a
	KARATE W/ ZEON	0.025	lb ai/a							
7	SEQUENCE	2.5	pt/a							4 a
	CENTRIC	0.05	lb ai/a							
8	SEQUENCE	2.5	pt/a							4 a
	SEVIN 4F	0.5	lb ai/a							
9	SEQUENCE	2.5	pt/a							5 a
	LARVIN	0.4	lb ai/a							
10	SEQUENCE	2.5	pt/a							5 a
	LORSBAN 4 EC	0.5	lb ai/a							
11	TOUCHDOWN TOTAL	12	fl oz/a	76	78	83	95	0		5 a
	TOUCHDOWN TOTAL	12	fl oz/a							
12	NONTREATED									1 b
LSD (P=.05)										1.7
Standard Deviation										1.2
CV										29.4
Grand Mean	76.25	77.5	82.5	95.0	0.0					3.98
Bartlett's X2										14.119
P(Bartlett's X2)										0.226
Replicate F										18.686
Replicate Prob(F)										0.0001
Treatment F										7.212
Treatment Prob(F)										0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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LSU Northeast Research Station

Weed Code				
Crop Code			GLXMA	GLXMA
Rating Data Type			MOISTURE	YIELD
Rating Unit			%	BU/A
Rating Date			13/Oct/2005	13/Oct/2005
Trt-Eval Interval				
ARM Action Codes				TY2
# Subsamples, Dec.				1
Trt Treatment		Rate		
No. Name		Rate Unit	44	45
1 SEQUENCE		2.5 pt/a	12 a	20.7 a
2 SEQUENCE		3.0 pt/a	11 a	22.8 a
3 SEQUENCE		4.0 pt/a	13 a	21.7 a
4 DUAL MAGNUM		1.0 pt/a	4 b	3.2 b
5 TOUCHDOWN TOTAL		1.5 pt/a	12 a	18.7 a
6 SEQUENCE		2.5 pt/a	12 a	19.1 a
KARATE W/ ZEON		0.025 lb ai/a		
7 SEQUENCE		2.5 pt/a	14 a	15.2 a
CENTRIC		0.05 lb ai/a		
8 SEQUENCE		2.5 pt/a	13 a	18.5 a
SEVIN 4F		0.5 lb ai/a		
9 SEQUENCE		2.5 pt/a	12 a	21.2 a
LARVIN		0.4 lb ai/a		
10 SEQUENCE		2.5 pt/a	13 a	21.8 a
LORSBAN 4 EC		0.5 lb ai/a		
11 TOUCHDOWN TOTAL		12 fl oz/a	12 a	21.4 a
TOUCHDOWN TOTAL		12 fl oz/a		
12 NONTREATED			3 b	4.1 b
LSD (P=.05)			2.8	7.28
Standard Deviation			2.0	5.04
CV			18.16	29.0
Grand Mean			10.8	17.39
Bartlett's X2			27.289	13.225
P(Bartlett's X2)			0.004*	0.279
Replicate F			17.254	17.744
Replicate Prob(F)			0.0001	0.0001
Treatment F			13.517	7.120
Treatment Prob(F)			0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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Column 45: TY2 = 4.353823*[43]*(100-[44])/87