

# LSU Northeast Research Station

**EVALUATION OF WEED CONTROL IN ROUNDUP READY SOYBEAN WITH MON 3539 TANK MIX COMBINATIONS**

Trial ID: \_\_\_\_\_ 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
Application Date:	
Time of Day:	
Application Method:	
Application Timing:	
Applic. Placement:	
Air Temp., Unit:	
% Relative Humidity:	
Wind Velocity, Unit:	
Dew Presence (Y/N):	
Water Hardness:	
Soil Temp., Unit:	
Soil Moisture:	
% Cloud Cover:	

**WEED STAGE AT EACH APPLICATION**

	A
Weed 1 Code, Stage:	
Stage Scale:	
Density, Unit:	

**APPLICATION EQUIPMENT**

	A
Appl. Equipment:	
Operating Pressure:	
Nozzle Type:	
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

# LSU Northeast Research Station

Trial ID:

Study Dir.:

Location:

Investigator: Donnie Miller

Weed Code	ECHCG	SEBEX	CASOB	AMARE	IPOLA	IPOHG									
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA									
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL									
Rating Unit	%	%	%	%	%	%									
Rating Date	21/Jun/2005	21/Jun/2005	21/Jun/2005	21/Jun/2005	21/Jun/2005	21/Jun/2005									
Trt-Eval Interval	7 DAT	7 DAT	7 DAT	7 DAT	7 DAT	7 DAT									
ARM Action Codes															
# Subsamples, Dec.															
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6						
1	MON 3539	22	oz/a	70	a	65	cd	69	a	95	a	58	b	58	b
2	MON 3539	22	oz/a	70	a	76	bc	69	a	95	a	60	b	60	b
	CLASSIC	0.33	oz/a												
3	MON 3539	22	oz/a	71	a	60	d	65	a	95	a	58	b	58	b
	FIRSTRATE	0.3	oz/a												
4	MON 3539	22	oz/a	70	a	70	bcd	71	a	95	a	76	a	76	a
	RESOURCE	8	oz/a												
5	MON 3539	22	oz/a	73	a	91	a	74	a	95	a	86	a	86	a
	FLEXSTAR	8	oz/a												
6	MON 3539	22	oz/a	68	a	58	d	70	a	95	a	61	b	61	b
	HARMONY GT	0.083	oz/a												
7	MON 3539	22	oz/a	68	a	66	cd	73	a	95	a	79	a	79	a
	AIM	0.25	oz/a												
8	MON 3539	22	oz/a	73	a	80	b	74	a	95	a	90	a	90	a
	ET	2	oz/a												
9	MON 3539	22	oz/a	68	a	60	d	69	a	95	a	53	b	53	b
	FRONTROW	0.42	oz/a												
10	MON 3539	22	oz/a	54	b	76	bc	69	a	95	a	78	a	78	a
	BLAZER	8	oz/a												
11	MON 3539	22	oz/a	65	a	59	d	71	a	95	a	58	b	58	b
	SCEPTER	1.4	oz/a												
LSD (P=.05)				6.8		8.3		7.2		0.0		9.7		9.7	
Standard Deviation				4.7		5.7		5.0		0.0		6.7		6.7	
CV				6.9		8.3		7.14		0.0		9.81		9.81	
Grand Mean				67.95		69.2		70.23		95.0		68.64		68.64	
Bartlett's X2				15.57		8.052		17.263		0.0		6.518		6.518	
P(Bartlett's X2)				0.113		0.624		0.045*		.		0.687		0.687	
Replicate F				9.122		0.798		5.572		0.000		0.301		0.301	
Replicate Prob(F)				0.0002		0.5048		0.0037		1.0000		0.8244		0.8244	
Treatment F				5.014		13.877		1.084		0.000		15.602		15.602	
Treatment Prob(F)				0.0003		0.0001		0.4042		1.0000		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		ECHCG	SEBEX	CASOB	AMARE	IPOLA	
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	
Rating Date	21/Jun/2005	28/Jun/2005	28/Jun/2005	28/Jun/2005	28/Jun/2005	28/Jun/2005	
Trt-Eval Interval	7 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	
	7	8	9	10	11	12	
1 MON 3539	22 oz/a	1 c	84 a	70 c	70 b	95 a	68 c
2 MON 3539	22 oz/a	10 c	86 a	85 ab	71 ab	95 a	68 c
CLASSIC	0.33 oz/a						
3 MON 3539	22 oz/a	0 c	91 a	68 c	79 ab	95 a	71 c
FIRSTRATE	0.3 oz/a						
4 MON 3539	22 oz/a	24 b	86 a	70 c	75 ab	95 a	84 b
RESOURCE	8 oz/a						
5 MON 3539	22 oz/a	10 c	79 a	90 a	79 ab	95 a	95 a
FLEXSTAR	8 oz/a						
6 MON 3539	22 oz/a	5 c	86 a	70 c	78 ab	95 a	70 c
HARMONY GT	0.083 oz/a						
7 MON 3539	22 oz/a	13 c	83 a	69 c	76 ab	95 a	83 b
AIM	0.25 oz/a						
8 MON 3539	22 oz/a	41 a	80 a	78 bc	74 ab	95 a	91 a
ET	2 oz/a						
9 MON 3539	22 oz/a	5 c	86 a	71 c	73 ab	95 a	66 c
FRONTROW	0.42 oz/a						
10 MON 3539	22 oz/a	11 c	66 b	80 bc	74 ab	95 a	90 a
BLAZER	8 oz/a						
11 MON 3539	22 oz/a	1 c	84 a	70 c	81 a	95 a	69 c
SCEPTER	1.4 oz/a						
LSD (P=.05)	8.7	7.6	8.2	6.5	0.0	5.9	
Standard Deviation	6.0	5.3	5.7	4.5	0.0	4.1	
CV	54.79	6.4	7.59	5.97	0.0	5.23	
Grand Mean	11.02	82.84	74.55	75.34	95.0	77.61	
Bartlett's X2	11.092	10.144	5.288	7.262	0.0	4.866	
P(Bartlett's X2)	0.269	0.428	0.871	0.61	.	0.772	
Replicate F	5.249	1.802	1.325	2.051	0.000	2.517	
Replicate Prob(F)	0.0050	0.1682	0.2845	0.1279	1.0000	0.0770	
Treatment F	16.065	5.972	7.040	2.416	0.000	29.469	
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0302	1.0000	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	IPOHG	GLXMA	GLXMA	ECHCG	SORHA	SEBEX	CASOB	IPOLA
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	28/Jun/2005	28/Jun/2005	12/Jul/2005	12/Jul/2005	12/Jul/2005	12/Jul/2005	12/Jul/2005	12/Jul/2005
Trt-Eval Interval	14 DAT	14 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT	28 DAT
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
13								
14								
15								
16								
17								
18								
19								
1 MON 3539	22 oz/a	68 c	0 c	71 ab	95 a	53 b	74 bc	59 c
2 MON 3539	22 oz/a	68 c	0 c	69 ab	95 a	74 ab	75 abc	60 c
CLASSIC	0.33 oz/a							
3 MON 3539	22 oz/a	71 c	0 c	84 a	90 a	49 b	71 c	73 abc
FIRSTRATE	0.3 oz/a							
4 MON 3539	22 oz/a	84 b	25 b	69 ab	95 a	48 b	79 abc	86 ab
RESOURCE	8 oz/a							
5 MON 3539	22 oz/a	95 a	11 c	68 ab	95 a	85 a	84 ab	83 ab
FLEXSTAR	8 oz/a							
6 MON 3539	22 oz/a	70 c	0 c	59 bc	95 a	59 b	79 abc	71 bc
HARMONY GT	0.083 oz/a							
7 MON 3539	22 oz/a	83 b	14 c	69 ab	95 a	54 b	76 abc	74 abc
AIM	0.25 oz/a							
8 MON 3539	22 oz/a	91 a	49 a	59 bc	95 a	65 b	80 abc	88 ab
ET	2 oz/a							
9 MON 3539	22 oz/a	66 c	1 c	81 a	95 a	56 b	75 abc	60 c
FRONTROW	0.42 oz/a							
10 MON 3539	22 oz/a	90 a	11 c	48 c	95 a	60 b	73 bc	91 a
BLAZER	8 oz/a							
11 MON 3539	22 oz/a	69 c	0 c	66 ab	95 a	64 b	86 a	69 bc
SCEPTER	1.4 oz/a							
LSD (P=.05)	5.9	9.0	12.3	4.4	15.8	7.1	12.9	
Standard Deviation	4.1	6.3	8.5	3.0	11.0	4.9	8.9	
CV	5.23	61.97	12.64	3.19	18.14	6.38	12.11	
Grand Mean	77.61	10.11	67.39	94.55	60.45	77.39	73.86	
Bartlett's X2	4.866	8.321	11.501	0.0	12.709	6.591	13.618	
P(Bartlett's X2)	0.772	0.139	0.32	.	0.24	0.763	0.191	
Replicate F	2.517	2.252	8.238	1.000	4.724	1.017	0.995	
Replicate Prob(F)	0.0770	0.1027	0.0004	0.4064	0.0081	0.3989	0.4087	
Treatment F	29.469	23.627	5.660	1.000	4.140	3.559	6.823	
Treatment Prob(F)	0.0001	0.0001	0.0001	0.4654	0.0012	0.0034	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	IPOHG	AMARE		GLXMA	GLXMA	GLXMA			
Crop Code	GLXMA	GLXMA		GLXMA	GLXMA	GLXMA			
Rating Data Type	CONTROL	CONTROL		YIELD	MOISTURE	YIELD			
Rating Unit	%	%		LBS	%	BU/A			
Rating Date	12/Jul/2005	12/Jul/2005		13/Oct/2005	13/Oct/2005	13/Oct/2005			
Trt-Eval Interval	28 DAT	28 DAT							
ARM Action Codes						TY1			
# Subsamples, Dec.						1			
Trt No.	Treatment Name	Rate	Unit	20	21	22	23	24	25
1	MON 3539	22	oz/a	88 ab	95 a		1 a	5 a	5.3 a
2	MON 3539 CLASSIC	22 0.33	oz/a oz/a	89 ab	95 a		1 a	6 a	6.6 a
3	MON 3539 FIRSTRATE	22 0.3	oz/a oz/a	91 ab	95 a		1 a	4 a	2.7 a
4	MON 3539 RESOURCE	22 8	oz/a oz/a	95 a	95 a		0 a	3 a	2.2 a
5	MON 3539 FLEXSTAR	22 8	oz/a oz/a	94 a	95 a		1 a	5 a	5.6 a
6	MON 3539 HARMONY GT	22 0.083	oz/a oz/a	90 ab	95 a		0 a	3 a	1.8 a
7	MON 3539 AIM	22 0.25	oz/a oz/a	95 a	95 a		0 a	3 a	1.0 a
8	MON 3539 ET	22 2	oz/a oz/a	95 a	95 a		0 a	3 a	1.9 a
9	MON 3539 FRONTROW	22 0.42	oz/a oz/a	86 b	95 a		1 a	4 a	3.9 a
10	MON 3539 BLAZER	22 8	oz/a oz/a	95 a	95 a		0 a	3 a	1.0 a
11	MON 3539 SCEPTER	22 1.4	oz/a oz/a	90 ab	95 a		1 a	3 a	2.6 a
LSD (P=.05)				4.6	0.0	.	0.9	2.6	4.16
Standard Deviation				3.2	0.0	.	0.6	1.8	2.88
CV				3.49	0.0	.	93.92	49.62	91.24
Grand Mean				91.59	95.0	.	0.67	3.63	3.16
Bartlett's X2				4.28	0.0	.	24.992	63.866	23.494
P(Bartlett's X2)				0.639	.	.	0.005*	0.001*	0.009*
Replicate F				1.407	0.000		3.186	2.021	3.275
Replicate Prob(F)				0.2599	1.0000		0.0379	0.1322	0.0346
Treatment F				4.289	0.000		1.807	1.507	1.809
Treatment Prob(F)				0.0009	1.0000		0.1026	0.1855	0.1022

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

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Column 25: TY1 = 4.353823\*[23]\*(100-[24])/87