

## Influence of Preplant Growth Regulator Herbicide on Soybean Development.

Project Code: 07-10C-E180 Location: Belleville Research Center  
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA  
Trial Status: Final Updated: 1-23-08

**Objective:**

Evaluate the effect of various rates of 2,4-D and dicamba applied preplant to soybean.

Crop 1: GLXMA soybean Variety: See treatment list  
Planting Method: Seeded Planting Date: 5-22-07  
Rate: 75 lb/A Depth: 1.0 IN  
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 4  
Tillage Type: No-Till Study Design: SPLIT-BLOCK  
Previous Crop, Year: ZEAMX, 2006  
Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 2.3 pH: 6.9 CEC: 12  
Texture: Silt loam Fert. Level: P1: 94 LB/A, K: 304 LB/A

**APPLICATION DESCRIPTION****A**

Application Date: 5-21-07  
Time of Day: 11:00  
Application Method: Spray  
Application Timing: 1DBP  
Applic. Placement: BROFOL  
Air Temp., Unit: 78 F  
% Relative Humidity: 40  
Wind Velocity, Unit: 3-5 MPH  
Soil Moisture: NORMAL  
% Cloud Cover: 0

**CROP STAGE AT EACH APPLICATION****A**

Crop 1 Code, Stage: GLXMA NA  
Height, Unit: NA NA

**APPLICATION EQUIPMENT****A**

Appl. Equipment: CO2 sprayer  
Operating Pressure: 40 PSI  
Nozzle Type: Flat fan  
Nozzle Size: XR 8003  
Boom Length, Unit: 5 FT  
Spray Volume, Unit: 20 GPA

**NOTES:**

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA  
 Moisture Yield 90% Emrg Plants Plants  
 Percent bu/A DAP 000/A 000/A  
 10-20-07 10-20-07 6-18-07 10-12-07  
 28 DAP EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	AG4403RR								12.5	c-f	53	abc	9 fg 108.8 bcd 103.1 cd
1	2,4-D LV4	3.8	EC	0.25 lb ae/a	0.53	pt/a	1DBP A						
2	AG4403RR								12.2	ef	45	b-e	9 efg 140.6 b 114.1 abc
2	2,4-D LV4	3.8	EC	0.5 lb ae/a	1.05	pt/a	1DBP A						
3	AG4403RR								12.6	bcd	41	def	11 bcd 58.4 efg 55.2 ef
3	2,4-D LV4	3.8	EC	1.0 lb ae/a	2.1	pt/a	1DBP A						
4	AG4403RR								12.6	b-e	25	gh	12 abc 31.0 ghi 25.3 fgh
4	2,4-D LV4	3.8	EC	2.0 lb ae/a	4.2	pt/a	1DBP A						
5	AG4403RR								12.6	b-e	41	def	10 def 72.5 def 69.7 e
5	CLARITY	4	EC	0.125 lb ae/a	0.25	pt/a	1DBP A						
6	AG4403RR								12.1	f	33	fg	11 bcd 84.2 cde 67.5 e
6	CLARITY	4	EC	0.25 lb ae/a	0.5	pt/a	1DBP A						
7	AG4403RR								12.3	def	15	hij	11 bcd 16.6 hi 17.6 gh
7	CLARITY	4	EC	0.5 lb ae/a	1	pt/a	1DBP A						
8	AG4403RR								12.4	c-f	7	ij	12 ab 14.6 hi 11.1 gh
8	CLARITY	4	EC	1.0 lb ae/a	2	pt/a	1DBP A						
9	AG4403RR								12.2	ef	45	b-e	9 g 182.4 a 137.2 ab
9	NONTREATED												
10	DK4651								12.7	bc	54	ab	9 efg 119.4 bc 108.5 bc
10	2,4-D LV4	3.8	EC	0.25 lb ae/a	0.53	pt/a	1DBP A						
11	DK4651								12.6	b-e	51	a-d	10 def 92.0 cde 77.0 de
11	2,4-D LV4	3.8	EC	0.5 lb ae/a	1.05	pt/a	1DBP A						
12	DK4651								12.7	bcd	43	b-f	10 cde 72.5 def 66.2 e
12	2,4-D LV4	3.8	EC	1.0 lb ae/a	2.1	pt/a	1DBP A						
13	DK4651								12.8	bc	34	efg	13 a 40.7 fgh 33.7 fg
13	2,4-D LV4	3.8	EC	2.0 lb ae/a	4.2	pt/a	1DBP A						
14	DK4651								12.4	c-f	43	b-f	11 bcd 60.1 efg 71.7 e
14	CLARITY	4	EC	0.125 lb ae/a	0.25	pt/a	1DBP A						
15	DK4651								12.4	c-f	41	c-f	13 a 41.1 fgh 32.2 fg
15	CLARITY	4	EC	0.25 lb ae/a	0.5	pt/a	1DBP A						
16	DK4651								13.3	a	16	hi	11 bcd 20.6 hi 14.6 gh
16	CLARITY	4	EC	0.5 lb ae/a	1	pt/a	1DBP A						
17	DK4651								13.3	a	4	j	0.0 i 0.4 h
17	CLARITY	4	EC	1.0 lb ae/a	2	pt/a	1DBP A						
18	DK4651								13.0	ab	59	a	8 g 182.4 a 144.8 a
18	NONTREATED												
LSD (P=.05)									0.42		11.5		1.5 37.41 30.89
Replicate F									0.100		2.144		3.182 7.863 8.057
Replicate Prob(F)									0.9594		0.1102		0.0392 0.0003 0.0003
Treatment F									5.410		16.547		7.396 17.607 16.677
Treatment Prob(F)									0.0001		0.0001		0.0001 0.0001 0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	V Stage	V Stage	V Stage	V Stage	R Stage	R Stage
Rating Data Type	6-4-07	6-11-07	6-18-07	7-2-07	7-16-07	8-13-07
Rating Unit	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	84 DAP
Rating Date						
Trt-Eval Interval						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	AG4403RR									0.0 a	0.7 ab	3.0 a	5.0 a	2.3 ab	4.7 ab
1	2,4-D LV4	3.8	EC	0.25	lb ae/a	0.53	pt/a	1DBP	A						
2	AG4403RR									0.0 a	0.5 abc	3.0 a	5.0 a	2.5 a	4.5 ab
2	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A						
3	AG4403RR									0.0 a	0.5 abc	2.7 ab	4.3 bc	2.0 abc	4.3 abc
3	2,4-D LV4	3.8	EC	1.0	lb ae/a	2.1	pt/a	1DBP	A						
4	AG4403RR									-0.5 abc	0.0 c	2.0 c	4.0 cd	1.7 bcd	3.7 cd
4	2,4-D LV4	3.8	EC	2.0	lb ae/a	4.2	pt/a	1DBP	A						
5	AG4403RR									-0.3 ab	1.0 a	2.3 bc	4.3 bc	2.0 abc	4.0 bc
5	CLARITY	4	EC	0.125	lb ae/a	0.25	pt/a	1DBP	A						
6	AG4403RR									-1.0 c	0.5 abc	2.3 bc	4.3 bc	1.5 cd	3.8 c
6	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A						
7	AG4403RR									-1.0 c	1.0 a	2.0 c	3.5 de	1.0 d	4.0 bc
7	CLARITY	4	EC	0.5	lb ae/a	1	pt/a	1DBP	A						
8	AG4403RR									0.0 a	1.0 a	2.0 c	3.0 e	1.0 d	3.0 d
8	CLARITY	4	EC	1.0	lb ae/a	2	pt/a	1DBP	A						
9	AG4403RR									0.0 a	0.8 ab	3.0 a	5.0 a	2.5 a	5.0 a
9	NONTREATED														
10	DK4651									-0.3 ab	0.8 ab	3.0 a	5.0 a	2.3 abc	4.5 ab
10	2,4-D LV4	3.8	EC	0.25	lb ae/a	0.53	pt/a	1DBP	A						
11	DK4651									-0.3 ab	1.0 a	3.0 a	4.7 ab	2.0 abc	4.3 abc
11	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A						
12	DK4651									-0.3 ab	1.0 a	2.7 ab	4.3 bc	2.3 ab	4.3 abc
12	2,4-D LV4	3.8	EC	1.0	lb ae/a	2.1	pt/a	1DBP	A						
13	DK4651									-1.0 c	0.3 bc	2.3 bc	4.0 cd	2.0 abc	4.0 bc
13	2,4-D LV4	3.8	EC	2.0	lb ae/a	4.2	pt/a	1DBP	A						
14	DK4651									-0.7 bc	1.0 a	2.3 bc	4.3 bc	2.0 abc	4.0 bc
14	CLARITY	4	EC	0.125	lb ae/a	0.25	pt/a	1DBP	A						
15	DK4651									-1.0 c	0.5 abc	2.0 c	4.0 cd	1.5 cd	4.0 bc
15	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A						
16	DK4651									-1.0 c	1.0 a	2.0 c	4.0 cd	1.5 cd	4.0 bc
16	CLARITY	4	EC	0.5	lb ae/a	1	pt/a	1DBP	A						
17	DK4651														
17	CLARITY	4	EC	1.0	lb ae/a	2	pt/a	1DBP	A						
18	DK4651									0.0 a	1.0 a	3.0 a	5.0 a	2.5 a	4.8 a
18	NONTREATED														
LSD (P=.05)										0.50	0.67	0.53	0.66	0.78	0.73
Replicate F										1.443	0.539	0.790	1.253	1.251	1.589
Replicate Prob(F)										0.2513	0.6602	0.5097	0.3093	0.3102	0.2142
Treatment F										5.891	1.788	5.487	6.340	3.242	3.481
Treatment Prob(F)										0.0001	0.0961	0.0001	0.0001	0.0031	0.0019

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Injury	Injury	Injury	Injury	Injury	Injury
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-4-07	6-11-07	6-18-07	7-2-07	7-16-07	8-13-07
Rating Date	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	84 DAP
Trt-Eval Interval						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	AG4403RR									12	ef	17	fg	3	g
1	2,4-D LV4	3.8	EC	0.25	lb ae/a	0.53	pt/a	1DBP	A						
2	AG4403RR									28	e	20	ef	13	g
2	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A						
3	AG4403RR									68	c	80	a-d	72	d
3	2,4-D LV4	3.8	EC	1.0	lb ae/a	2.1	pt/a	1DBP	A						
4	AG4403RR									88	ab	88	abc	87	abc
4	2,4-D LV4	3.8	EC	2.0	lb ae/a	4.2	pt/a	1DBP	A						
5	AG4403RR									77	bc	83	a-d	78	cd
5	CLARITY	4	EC	0.125	lb ae/a	0.25	pt/a	1DBP	A						
6	AG4403RR									91	ab	76	bcd	81	bcd
6	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A						
7	AG4403RR									97	a	94	abc	95	a
7	CLARITY	4	EC	0.5	lb ae/a	1	pt/a	1DBP	A						
8	AG4403RR									98	a	97	a	98	a
8	CLARITY	4	EC	1.0	lb ae/a	2	pt/a	1DBP	A						
9	AG4403RR									0	f	0	g	0	g
9	NONTREATED														
10	DK4651									20	e	24	ef	8	g
10	2,4-D LV4	3.8	EC	0.25	lb ae/a	0.53	pt/a	1DBP	A						
11	DK4651									48	d	37	e	37	f
11	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A						
12	DK4651									67	c	75	cd	55	e
12	2,4-D LV4	3.8	EC	1.0	lb ae/a	2.1	pt/a	1DBP	A						
13	DK4651									87	ab	87	a-d	82	bcd
13	2,4-D LV4	3.8	EC	2.0	lb ae/a	4.2	pt/a	1DBP	A						
14	DK4651									73	bc	68	d	80	cd
14	CLARITY	4	EC	0.125	lb ae/a	0.25	pt/a	1DBP	A						
15	DK4651									90	ab	88	a-d	93	ab
15	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A						
16	DK4651									97	a	95	ab	96	a
16	CLARITY	4	EC	0.5	lb ae/a	1	pt/a	1DBP	A						
17	DK4651									99	a	99	a	99	a
17	CLARITY	4	EC	1.0	lb ae/a	2	pt/a	1DBP	A						
18	DK4651									0	f	0	g	0	g
18	NONTREATED														
LSD (P=.05)										17.3	19.8	12.9	16.1	20.0	20.8
Replicate F										2.772	2.389	3.688	3.266	3.456	2.958
Replicate Prob(F)										0.0543	0.0849	0.0198	0.0314	0.0255	0.0441
Treatment F										34.761	26.131	72.891	44.660	26.986	22.933
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-4-07	6-11-07	6-18-07	7-2-07	7-16-07	8-13-07	6-4-07	6-11-07	6-18-07	7-2-07	7-16-07	6-4-07	6-11-07	6-18-07	7-2-07	7-16-07	7-16-07
Rating Date	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	84 DAP	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	56 DAP
Trt-Eval Interval																	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code																																
1	AG4403RR								5	i	6	e	0	g	3	h	0	e	0	h	3	e	0	b	0	b	0	a	0	a										
1	2,4-D LV4	3.8	EC	0.25 lb ae/a	0.53	pt/a	1DBP	A																																
2	AG4403RR								20	h	5	e	5	fg	10	gh	8	e	3	gh	5	e	0	b	0	b	0	a	0	a										
2	2,4-D LV4	3.8	EC	0.5 lb ae/a	1.05	pt/a	1DBP	A																																
3	AG4403RR								40	ef	55	cd	57	cd	50	de	40	bcd	25	ef	12	de	0	b	0	b	0	a	0	a										
3	2,4-D LV4	3.8	EC	1.0 lb ae/a	2.1	pt/a	1DBP	A																																
4	AG4403RR								50	de	65	bcd	75	abc	75	ab	69	a	55	abc	13	de	0	b	0	b	0	a	0	a										
4	2,4-D LV4	3.8	EC	2.0 lb ae/a	4.2	pt/a	1DBP	A																																
5	AG4403RR								50	de	63	bcd	58	cd	53	cde	44	bc	35	cde	40	c	0	b	0	b	0	a	0	a										
5	CLARITY	4	EC	0.125 lb ae/a	0.25	pt/a	1DBP	A																																
6	AG4403RR								51	de	54	cd	63	c	63	bcd	59	ab	48	bcd	48	bc	0	b	0	b	0	a	0	a										
6	CLARITY	4	EC	0.25 lb ae/a	0.5	pt/a	1DBP	A																																
7	AG4403RR								70	ab	80	ab	70	abc	70	abc	70	a	60	ab	50	b	50	a	0	b	0	a	0	a										
7	CLARITY	4	EC	0.5 lb ae/a	1	pt/a	1DBP	A																																
8	AG4403RR								80	a	89	a	85	a	85	a	75	a	70	a	60	a	66	a	0	b	0	a	0	a										
8	CLARITY	4	EC	1.0 lb ae/a	2	pt/a	1DBP	A																																
9	AG4403RR								0	i	0	e	0	g	0	h	0	e	0	h	4	e	0	b	0	b	0	a	0	a										
9	NONTREATED																																							
10	DK4651								11	hi	8	e	1	g	7	gh	3	e	3	gh	5	e	0	b	0	b	0	a	0	a										
10	2,4-D LV4	3.8	EC	0.25 lb ae/a	0.53	pt/a	1DBP	A																																
11	DK4651								23	gh	18	e	22	ef	23	fg	18	de	13	fgh	8	de	0	b	0	b	0	a	0	a										
11	2,4-D LV4	3.8	EC	0.5 lb ae/a	1.05	pt/a	1DBP	A																																
12	DK4651								35	fg	55	cd	40	de	37	ef	32	cd	22	efg	17	d	0	b	0	b	0	a	0	a										
12	2,4-D LV4	3.8	EC	1.0 lb ae/a	2.1	pt/a	1DBP	A																																
13	DK4651								50	de	58	bcd	65	bc	63	bcd	62	ab	52	a-d	10	de	0	b	7	a	0	a	0	a										
13	2,4-D LV4	3.8	EC	2.0 lb ae/a	4.2	pt/a	1DBP	A																																
14	DK4651								53	cde	45	d	60	c	57	bcd	43	bc	33	def	47	bc	0	b	0	b	0	a	0	a										
14	CLARITY	4	EC	0.125 lb ae/a	0.25	pt/a	1DBP	A																																
15	DK4651								55	cd	63	bcd	75	abc	70	abc	70	a	58	ab	45	bc	0	b	0	b	0	a	0	a										
15	CLARITY	4	EC	0.25 lb ae/a	0.5	pt/a	1DBP	A																																
16	DK4651								65	bc	73	abc	83	ab	85	a	80	a	68	ab	50	b	0	b	0	b	0	a	0	a										
16	CLARITY	4	EC	0.5 lb ae/a	1	pt/a	1DBP	A																																
17	DK4651																																							
17	CLARITY	4	EC	1.0 lb ae/a	2	pt/a	1DBP	A																																
18	DK4651								0	i	0	e	0	g	0	h	0	e	0	h	4	e	0	b	0	b	0	a	0	a										
18	NONTREATED																																							
LSD (P=.05)									13.4	22.7	19.0	18.6	22.7	21.2	9.3	28.2	4.4	0.0	0.0																					
Replicate F									2.582	1.621	1.942	1.964	1.886	1.276	1.747	1.104	0.563	0.000	0.000																					
Replicate Prob(F)									0.0741	0.2077	0.1467	0.1432	0.1557	0.3026	0.1812	0.3647	0.6444	1.0000	1.0000																					
Treatment F									28.897	14.935	24.421	23.199	14.446	12.395	44.085	3.991	1.125	0.000	0.000																					
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0008	0.3819	1.0000	1.0000																					

Means followed by same letter do not significantly differ (P=.05, LSD)

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 Rating Unit  
 Rating Date  
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA  
 Malform Malform Malform Malform Malform Malform  
 Percent Percent Percent Percent Percent Percent  
 6-4-07 6-11-07 6-18-07 7-2-07 7-16-07 8-13-07  
 14 DAP 21 DAP 28 DAP 42 DAP 56 DAP 84 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	AG4403RR									7 d	12 gh	3 f	1 f	0 g	0 f
1	2,4-D LV4	3.8	EC	0.25	lb ae/a	0.53	pt/a	1DBP	A						
2	AG4403RR									10 d	18 fgh	10 ef	5 ef	0 g	0 f
2	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A						
3	AG4403RR									42 bc	45 cd	30 a-d	22 cd	7 efg	3 def
3	2,4-D LV4	3.8	EC	1.0	lb ae/a	2.1	pt/a	1DBP	A						
4	AG4403RR									45 bc	58 bc	23 d	18 d	10 ef	3 def
4	2,4-D LV4	3.8	EC	2.0	lb ae/a	4.2	pt/a	1DBP	A						
5	AG4403RR									50 ab	40 cde	35 abc	33 ab	18 bcd	7 cd
5	CLARITY	4	EC	0.125	lb ae/a	0.25	pt/a	1DBP	A						
6	AG4403RR									50 ab	45 cd	35 abc	34 ab	20 bc	9 c
6	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A						
7	AG4403RR									60 a	70 ab	30 a-d	40 a	25 b	15 b
7	CLARITY	4	EC	0.5	lb ae/a	1	pt/a	1DBP	A						
8	AG4403RR									60 a	83 a	35 abc	40 a	40 a	30 a
8	CLARITY	4	EC	1.0	lb ae/a	2	pt/a	1DBP	A						
9	AG4403RR									14 d	0 h	0 f	0 f	0 g	0 f
9	NONTREATED														
10	DK4651									16 d	18 fgh	6 f	5 f	1 g	0 f
10	2,4-D LV4	3.8	EC	0.25	lb ae/a	0.53	pt/a	1DBP	A						
11	DK4651									32 c	23 efg	20 de	13 de	7 efg	3 def
11	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A						
12	DK4651									37 bc	35 def	25 cd	18 d	3 fg	2 ef
12	2,4-D LV4	3.8	EC	1.0	lb ae/a	2.1	pt/a	1DBP	A						
13	DK4651									47 ab	47 cd	27 bcd	20 d	5 fg	2 ef
13	2,4-D LV4	3.8	EC	2.0	lb ae/a	4.2	pt/a	1DBP	A						
14	DK4651									60 a	40 cde	37 ab	30 bc	13 cde	5 cde
14	CLARITY	4	EC	0.125	lb ae/a	0.25	pt/a	1DBP	A						
15	DK4651									50 ab	55 bcd	40 a	33 ab	13 de	5 cde
15	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A						
16	DK4651									60 a	60 bc	30 a-d	38 ab	23 b	15 b
16	CLARITY	4	EC	0.5	lb ae/a	1	pt/a	1DBP	A						
17	DK4651									60 a	60 bc	30 a-d	38 ab	23 b	15 b
17	CLARITY	4	EC	1.0	lb ae/a	2	pt/a	1DBP	A						
18	DK4651									11 d	0 h	0 f	0 f	0 g	0 f
18	NONTREATED														
LSD (P=.05)										13.7	21.3	10.1	8.4	7.1	4.5
Replicate F										1.037	2.269	0.231	0.358	0.468	0.200
Replicate Prob(F)										0.3919	0.1032	0.8736	0.7840	0.7072	0.8953
Treatment F										17.118	10.396	15.467	25.663	21.224	25.846
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

## Trial Comments

1. Protocol: ISA (same as 06-6B).
2. Ratings: Date to 90% emergence; plant growth stage at 14, 21, and 28 DAP; soybean stunt, chlorosis, malformation and overall injury at 14, 21, and 28 DAP; soybean population at 28 DAP (stake counted area); injury evaluations to continue if injury persists beyond 28 DAP; grain yield and final soybean population at maturity (in the staked area).
3. Yield.

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4. Blanket application of Roundup W-Max (22 fl oz/A) + Dual II Magnum (1.33 pt/A) + Firstrate (0.6 oz/A) at 14 days before planned planting date.
5. Maintain the study weedfree with a POST application of Roundup W-Max or handweeding.
6. 90% Emrg = 90% emergence. DAP = Days after planting. V Stage = Soybean vegetative stage, -1 = VE, 0 = VC, 1-5 = V1-V5.  
R Stage = Soybean reproductive stage, 1-3 = R1-R3.  
Stunt = Soybean stunting. Chloro = Chlorosis. Malform = Malformation. Injury = Overall injury.  
000/A = Thousands per acre. EOS = End of Season.
7. Some plots were flooded and so removed from the data.
8. Harvested 10-20-07, (2) 30 inch rows by 27 ft.