

Interaction of Soil Residual Herbicides and Preplant Growth Regulator Herbicides on Soybean Development.

Project Code: 06-5C-N160 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:** 12-1-06

Objective:

Evaluate the interaction of 2,4-D or dicamba with soil residual herbicides on soybean growth and development.

Crop 1: GLXMA soybean **Variety:** Asgrow 4403 RR
Planting Method: Seeded **Planting Date:** 5-23-06
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:** Randomized complete block
Previous Crop, Year: ZEAMX, 2005
Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name: Weir **% OM:** 1.5 **pH:** 6.5 **CEC:** 7
Texture: Silt loam **Fert. Level:** P1: 74 LB/A, K: 243 LB/A

APPLICATION DESCRIPTION

A
Application Date: 5-22-06
Time of Day: 12:30
Application Method: Spray
Application Timing: 1DBP
Applic. Placement: BROS0I
Air Temp., Unit: 70 F
% Relative Humidity: 48
Wind Velocity, Unit: 5-6 MPH
Soil Moisture: NORMAL

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: 8003
Boom Length, Unit: 5 FT
Spray Volume, Unit: 20 GPA

NOTES:

Interaction of Soil Residual Herbicides and Preplant Growth Regulator Herbicides on Soybean Development.

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Weed Code	SIU	SIU	U of I	SIU	SIU	SIU	SIU	SIU	SIU	SIU
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	Moisture	Yield	Yield	V Stage	V Stage	V Stage	V Stage	V Stage	R Stage	R Stage
Rating Unit	Percent	bu/A	bu/A							
Rating Date	10-21-06	10-21-06	10-23-06	6-6-06	6-13-06	6-20-06	7-4-06	7-18-06	8-15-06	
Trt-Eval Interval				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	SIU	SIU	U of I	SIU	SIU	SIU	SIU	SIU	SIU
1	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	13.2	33	66	0.0	2.0	2.0	5.0	2.0	5.0
2	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	13.3	18	56	0.0	1.0	2.0	4.0	1.0	4.0
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	13.2	37	66	0.0	2.0	2.8	5.0	2.0	5.0
4	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	13.0	37	67	0.0	2.0	2.5	5.0	2.0	5.0
5	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	12.9	26	63	0.0	2.0	2.0	4.5	2.0	5.0
6	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	13.3	34	65	0.0	2.0	2.0	5.0	2.0	5.0
6	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A									
7	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	13.1	32	66	0.0	2.0	2.0	5.0	2.0	5.0
7	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A									
8	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	13.0	20	61	0.0	1.8	2.0	4.0	1.0	4.0
8	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A									
9	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	13.5	19	54	0.0	1.0	2.0	4.0	1.0	4.0
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A									
10	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	13.2	23	53	0.0	1.0	2.0	4.0	1.0	4.0
10	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A									
11	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	12.9	7	51	0.0	1.0	1.5	3.3	0.0	3.8
11	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A									
12	NONTREATED									13.1	36	66	0.0	2.0	2.5	5.0	2.0	5.0
LSD (P=.05)										0.61	5.4	5.3	0.00	0.21	0.48	0.33	0.00	0.21
Replicate F										1.348	0.417	8.478	0.000	1.000	0.186	0.407	0.000	1.000
Replicate Prob(F)										0.2757	0.7417	0.0003	1.0000	0.4051	0.9049	0.7487	1.0000	0.4051
Treatment F										0.722	25.313	10.233	0.000	44.636	3.847	28.852	0.000	57.000
Treatment Prob(F)										0.7100	0.0001	0.0001	1.0000	0.0001	0.0013	0.0001	1.0000	0.0001

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Weed Code	SIU	SIU	SIU	SIU	SIU	SIU
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	Stunt	Stunt	Stunt	Stunt	Stunt	Stunt
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-6-06	6-13-06	6-20-06	7-4-06	7-18-06	8-15-06
Trt-Eval Interval	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	26	18	14	8	3	0
1	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	26	18	14	8	3	0
2	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	85	84	83	76	55	39
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	0	8	4	1	0	0
4	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	0	3	3	1	0	0
5	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	3	15	15	20	28	20
6	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	40	30	21	9	3	0
6	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A						
7	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	35	29	21	10	6	5
7	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A						
8	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	45	39	40	41	49	41
8	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A						
9	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	88	88	81	74	56	40
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A						
10	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	90	89	86	80	51	43
10	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A						
11	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	93	94	95	91	86	76
11	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A						
12	NONTREATED									0	0	0	0	0	0
LSD (P=.05)										10.5	10.1	7.0	6.7	6.4	6.6
Replicate F										2.884	0.432	1.275	0.599	0.308	1.644
Replicate Prob(F)										0.0504	0.7312	0.2991	0.6201	0.8192	0.1982
Treatment F										110.027	109.288	232.633	237.985	184.782	124.494
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code	SIU	SIU	SIU	SIU	SIU	SIU
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	Chloro	Chloro	Chloro	Chloro	Chloro	Chloro
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-6-06	6-13-06	6-20-06	7-4-06	7-18-06	8-15-06
Trt-Eval Interval	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	SIU 14 DAP	SIU 21 DAP	SIU 28 DAP	SIU 42 DAP	SIU 56 DAP	SIU 84 DAP
1	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	13	10	4	0	0
2	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	0	13	15	9	0	0
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	0	0	0	0	0	0
4	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	0	0	1	0	0	0
5	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	0	3	8	14	0	0
6	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	10	8	5	0	0
6	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A						
7	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	8	6	4	0	0
7	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A						
8	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	11	20	16	0	0
8	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A						
9	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	0	26	21	11	0	0
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A						
10	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	0	30	25	10	0	0
10	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A						
11	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	0	34	30	18	0	0
11	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A						
12	NONTREATED									0	0	0	0	0	0
LSD (P=.05)										0.0	9.6	8.6	6.0	0.0	0.0
Replicate F										0.000	0.043	0.924	0.239	0.000	0.000
Replicate Prob(F)										1.0000	0.9877	0.4398	0.8684	1.0000	1.0000
Treatment F										0.000	12.800	11.729	9.196	0.000	0.000
Treatment Prob(F)										1.0000	0.0001	0.0001	0.0001	1.0000	1.0000

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Weed Code	SIU	SIU	SIU	SIU	SIU	SIU
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	Malform	Malform	Malform	Malform	Malform	Malform
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-6-06	6-13-06	6-20-06	7-4-06	7-18-06	8-15-06
Trt-Eval Interval	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	SIU 14 DAP	SIU 21 DAP	SIU 28 DAP	SIU 42 DAP	SIU 56 DAP	SIU 84 DAP
1	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	36	21	19	10	5	0
2	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A		71	71	61	44	0
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	3	3	3	0	0	0
4	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	3	3	3	0	0	0
5	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	3	1	0	0	0	0
6	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	46	25	16	9	0	0
6	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A						
7	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	43	16	10	8	0	0
7	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A						
8	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	45	23	21	14	5	0
8	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A						
9	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A		81	80	71	51	0
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A						
10	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A		78	76	71	48	0
10	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A						
11	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A		86	85	84	79	0
11	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A						
12	NONTREATED									0	0	0	0	0	0
LSD (P=.05)										7.4	10.9	10.4	9.9	5.6	0.0
Replicate F										0.041	0.232	0.252	1.381	0.579	0.000
Replicate Prob(F)										0.9886	0.8731	0.8593	0.2659	0.6330	1.0000
Treatment F										75.561	84.230	94.492	96.409	204.294	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA	SIU GLXMA		
						Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Plants 000/A	Plants 000/A			
						6-6-06	6-13-06	6-20-06	7-4-06	7-18-06	8-15-06	6-20-06	10-4-06				
						14 DAP	21 DAP	28 DAP	42 DAP	56 DAP	84 DAP	28 DAP	EOS				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	38	33	25	13	4	0	110.8	100.1
2	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	85	87	85	76	58	41	60.4	50.4
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	1	10	5	1	0	0	146.6	124.0
4	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	1	4	4	1	0	0	137.3	122.7
5	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	1	16	16	20	28	21	136.0	122.0
6	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	54	38	29	14	3	0	115.4	98.2
6	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A								
7	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	50	36	28	14	6	5	109.4	92.2
7	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A								
8	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	59	43	43	43	49	41	105.5	92.2
8	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A								
9	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	88	92	86	75	59	39	74.9	66.3
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A								
10	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	90	91	89	81	54	41	40.5	42.4
10	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A								
11	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	93	95	95	93	88	78	35.8	21.2
11	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A								
12	NONTREATED									0	0	0	0	0	0	131.3	102.8
LSD (P=.05)										8.9	11.3	9.5	8.2	6.7	6.7	21.23	16.93
Replicate F						2.315	0.906	1.956	0.128	0.667	0.791	0.563	0.912				
Replicate Prob(F)						0.0939	0.4487	0.1398	0.9429	0.5786	0.5077	0.6432	0.4457				
Treatment F						150.848	86.015	122.967	155.523	179.368	120.163	27.192	33.160				
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001				

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Weed Code	U of I	U of I	U of I
Crop Code	GLXMA	GLXMA	GLXMA
Rating Data Type	Injury	Injury	Injury
Rating Unit	Percent	Percent	Percent
Rating Date	6-20-06	6-27-06	7-3-06
Tri-Eval Interval	15 DAT	22 DAT	28 DAT

Tri	Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	U of I 6-20-06	U of I 6-27-06	U of I 7-3-06
1	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	0	3
2	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	35	41	50
3	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	0	0	4
4	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	0	0	0
5	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	0	0	3
6	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	0	3
6	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	0	0	3
7	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	3	8
7	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	0	3	8
8	2,4-D LV4	3.8	EC	0.5	lb ae/a	1.05	pt/a	1DBP	A	0	4	6
8	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	0	4	6
9	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	21	33	31
9	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	1DBP	A	21	33	31
10	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	28	44	53
10	VALOR	51	WG	0.0638	lb ai/a	2	oz/a	1DBP	A	28	44	53
11	CLARITY	4	EC	0.25	lb ae/a	0.5	pt/a	1DBP	A	26	43	50
11	CANOPY	75	WG	0.28	lb ai/a	6	oz/a	1DBP	A	26	43	50
12	NONTREATED									0	0	1
LSD (P=.05)										8.6	9.5	11.1
Replicate F										1.665	1.624	2.791
Replicate Prob(F)										0.1934	0.2025	0.0557
Treatment F										21.433	35.418	31.855
Treatment Prob(F)										0.0001	0.0001	0.0001

Trial Comments

1. Protocol: ISA.
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; injury evaluations to continue if injury persists beyond 28 DAP; grain yield and final soybean population at maturity.
3. Yield.
4. Blanket application of Roundup W-Max (22 floz/A) at 14 days before planned planting date.
5. Maintain the study weedfree with POST applications of Roundup W-Max (22 floz/A on 6-8-06) or handweeding.
6. DAP = Days after planting. V Stage = Soybean vegetative stage, 0 = VC, 1-5 = V1-V5.
 R Stage = Soybean reproductive stage, 1-5 = R1-R5, 0 = V4-V5.
 Stunt = Soybean stunting. Chloro = Chlorosis. Malform = Malformation. Injury = Overall injury.
 000/A = Thousands per acre. EOS = End of Season.
 Study was conducted at multiple locations. SIU = Southern Illinois University. U of I = University of Illinois.
 Plant counts on 10-4-06 at SIU were not counted in the same meter of row as on 6-20-06.
7. At 14 DAP it was not possible to rate soybean malformation in all plots as plants in some plots had yet to unfurl any leaves.
8. Harvested (SIU) 10-21-06, (2) 30 inch rows by 27 ft.