

Optimum GAT Soybean.

Trial ID: 11-5B

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 4-1-11

Objectives: Evaluate GAT soybean programs for weed control in no-till early preplant and preplant applications.

Crop 1: GLXMA Soybean
 Planting Method: SEEDDED Planting Date: 6-3-11
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W	Code: HORPU	Hordeum pusillum Nutt.	barley, little
Pest 2 Type: W	Code: STEME	Stellaria media (L.) Vill.	chickweed, common
Pest 3 Type: W	Code: CAPBP	Capsella bursa-pastoris (L.) Med	shepherdspurse
Pest 4 Type: W	Code: AMBTR	Ambrosia trifida L.	ragweed, giant
Pest 5 Type: W	Code: AMBEL	Ambrosia artemisiifolia L.	ragweed, common
Pest 6 Type: W	Code: ERICA	Conyza canadensis (L.) Crong.	horseweed
Pest 7 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common
Pest 8 Type: W	Code: SETFA	Setaria faberi Herrm.	foxtail, giant

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 FT Tillage Type: NO-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2010

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 1.9 Texture: SILT LOAM
 pH: 6.8 Soil Name: WINFIELD
 CEC: 7 Fert. Level: P1: 119 LB/A, K: 315 LB/A

	Application Description		
	A	B	C
Application Date:	4-1-11	4-21-11	6-9-11
Time of Day:	9:00	9:00	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	28-56EPP	7-14PP	28-35DAP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	JRK
Air Temperature, Unit:	47 F	46 F	74 F
% Relative Humidity:	68	68	84
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH
Wind Direction:	NW	E	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	46 F	56 F	77 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	100	80	25

Crop stage at application: 1-4-11 NA NA VC
 Height Min, Max (inch): 0.5 1

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	Pest Stage At Each Application					
Application Date:	4-1-11	4-21-11	6-9-11			
Weed Code:	HORPU	HORPU	HORPU			
Stage Majority (leaves):	4	4	NA			
Stage Min, Max:	3 4	3 4				
Height Majority:	3 IN	5 IN				
Height Min, Max:	3 4	3 6				
Density, Unit:	0.1 FT2	0.1 FT2				
Weed Code:	STEME	STEME	STEME			
Stage Majority (leaves):	10+	10+	NA			
Stage Min, Max:	10+	10+				
Height Majority:	1 IN	5 IN				
Height Min, Max:	0 1	3 6				
Density, Unit:	0.1 FT2	0.1 FT2				
Weed Code:	CAPBP	CAPBP	CAPBP			
Stage Majority (leaves):	8	10+	NA			
Stage Min, Max:	6 10	10+				
Height Majority:	8 IN	8 IN				
Height Min, Max:	6 10	6 12				
Density, Unit:	0.1 FT2	0.1 FT2				
Weed Code:	AMBTR	AMBTR	AMBTR			
Stage Majority (leaves):	NA	NA	10			
Stage Min, Max:			2 20			
Height Majority:			4 IN			
Height Min, Max:			2 6			
Density, Unit:			0.01 FT2			
Weed Code:	AMBEL	AMBEL	AMBEL			
Stage Majority (leaves):			?			
Weed Code:	ERICA	ERICA	ERICA			
Stage Majority (leaves):			?			
Weed Code:	AMATA	AMATA	AMATA			
Stage Majority (leaves):			6			
Stage Min, Max:			coty 9			
Height Majority:			3 IN			
Height Min, Max:			0.5 5			
Density, Unit:			0.1 FT2			
Weed Code:	SETFA	SETFA	SETFA			
Stage Majority (leaves):			3			
Stage Min, Max:			1 6			
Height Majority:			2 IN			
Height Min, Max:			1 4			
Density, Unit:			0.5 FT2			

Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer		
Operating Pressure:	30 PSI	30 PSI	30 PSI		
Nozzle Type:	Flat fan	Flat fan	Flat fan		
Nozzle Size:	XR 8002	XR 8002	XR 8002		
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT		
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA		

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Pest Code	HORPU STEME CAPBP					
Crop Code	ZEAMD	ZEAMD	ZEAMD			
Rating Date	6-16-11	6-23-11	7-7-11	5-18-11	5-18-11	5-18-11
Rating Data Type	Injury	Injury	Injury	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	7 DA-C	14 DA-C	28 DA-C	0 DAPP	0 DAPP	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	0 c	0 c	0 b	99 a	99 a	99 a
1	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A						
1	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-56EPP	A						
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	28-56EPP	A						
1	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-56EPP	A						
1	DILIGENT	37.87	WG				4 oz/a	7-14PP	B						
1	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
1	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
1	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C						
1	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-35DAP	C						
2	DILIGENT	37.87	WG				4 oz/a	7-14PP	B	0 c	0 c	0 b	99 a	99 a	99 a
2	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
2	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
2	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B						
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B						
2	N-PAK AMS	100	SL	5	% v/v		5 % v/v	7-14PP	B						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C						
2	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-35DAP	C						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B	0 c	0 c	0 b	99 a	99 a	99 a
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B						
3	N-PAK AMS	100	SL	5	% v/v		5 % v/v	7-14PP	B						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C						
3	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-35DAP	C						
4	VALOR SX	51	WG	0.064	lb ai/a		2 oz/a	7-14PP	B	0 c	0 c	0 b	99 a	99 a	99 a
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B						
4	N-PAK AMS	100	SL	5	% v/v		5 % v/v	7-14PP	B						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C						
4	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-35DAP	C						
5	DILIGENT	37.87	WG				4 oz/a	7-14PP	B	2 c	0 c	0 b	99 a	99 a	99 a
5	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
5	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
5	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B						
5	N-PAK AMS	100	SL	5	% v/v		5 % v/v	7-14PP	B						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C						
5	SYNCHRONY XP	28.4	WG	0.0107	lb ai/a		0.6 oz/a	28-35DAP	C						
5	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-35DAP	C						
6	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	24 b	12 b	3 a	99 a	99 a	99 a
6	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A						
6	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-56EPP	A						
6	2,4-D LV 4	3.8	EC	0.95	lb ae/a		2 pt/a	28-56EPP	A						
6	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-56EPP	A						
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a		48 fl oz/a	7-14PP	B						
6	DILIGENT	37.87	WG				4 oz/a	7-14PP	B						
6	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
6	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
6	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C						
6	PREFIX	5.29	EC	1.32	lb ai/a		2 pt/a	28-35DAP	C						
6	N-PAK AMS	100	SL	5	% v/v		5 % v/v	28-35DAP	C						

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Crop Code	ZEAMD	ZEAMD	ZEAMD			
Rating Date	6-16-11	6-23-11	7-7-11	5-18-11	5-18-11	5-18-11
Rating Data Type	Injury	Injury	Injury	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	7 DA-C	14 DA-C	28 DA-C	0 DAPP	0 DAPP	0 DAPP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
7	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	27	ab	13	ab	2	ab	99	a	99	a	99	a
7	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A												
7	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A												
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A												
7	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A												
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A												
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B												
7	DILIGENT	37.87	WG			4	oz/a	7-14PP	B												
7	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B												
7	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B												
7	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B												
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B												
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C												
7	SYNCHRONY XP	28.4	WG	0.0133	lb ai/a	0.75	oz/a	28-35DAP	C												
7	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C												
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C												
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A	25	ab	15	a	0	b	99	a	99	a	99	a
8	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A												
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A												
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B												
8	BOUNDARY	6.5	EC	1.02	lb ai/a	1.25	pt/a	7-14PP	B												
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B												
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C												
8	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C												
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C												
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A	28	a	13	ab	0	b	99	a	99	a	99	a
9	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A												
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A												
9	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14PP	B												
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B												
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B												
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C												
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C												
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C												
10	NONTREATED									0	c	0	c	0	b	0	b	0	b	0	b
LSD (P=.05)										3.0		2.5		2.3		0.0		0.0		0.0	
Replicate F										0.609		2.739		0.000		0.000		0.000		0.000	
Replicate Prob(F)										0.5550		0.0915		1.0000		1.0000		1.0000		1.0000	
Treatment F										168.452		67.652		2.050		0.000		0.000		0.000	
Treatment Prob(F)										0.0001		0.0001		0.0932		1.0000		1.0000		1.0000	

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

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Pest Code	AMBTR	AMBTR	AMBTR	AMBEL	AMBEL	AMBEL
Crop Code						
Rating Date	5-18-11	6-9-11	7-7-11	5-18-11	6-9-11	7-7-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	0 DAPP	0 DA-C	28 DA-C	0 DAPP	0 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	AMBTR	AMBTR	AMBTR	AMBEL	AMBEL	AMBEL
1	CANOPY EX	29.5	WG			1	oz/a	28-56EPP	A	99 a	98 ab	97 a	99 a	99 a	98 ab
1	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A						
1	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A						
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	28-56EPP	A						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A						
1	DILIGENT	37.87	WG			4	oz/a	7-14PP	B						
1	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
1	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
1	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
2	DILIGENT	37.87	WG			4	oz/a	7-14PP	B	99 a	99 a	98 a	99 a	99 a	97 ab
2	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
2	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
2	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14PP	B						
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14PP	B						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14PP	B						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14PP	B	99 a	96 abc	96 a	99 a	92 c	99 a
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14PP	B						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14PP	B						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
4	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14PP	B	99 a	92 c	98 a	99 a	96 ab	96 b
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14PP	B						
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14PP	B						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14PP	B						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
5	DILIGENT	37.87	WG			4	oz/a	7-14PP	B	99 a	96 abc	97 a	99 a	99 a	98 ab
5	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
5	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
5	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7-14PP	B						
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7-14PP	B						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7-14PP	B						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
5	SYNCHRONY XP	28.4	WG	0.0107	lb ai/a	0.6	oz/a	28-35DAP	C						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
6	CANOPY EX	29.5	WG			1	oz/a	28-56EPP	A	99 a	99 a	99 a	99 a	99 a	99 a
6	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A						
6	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A						
6	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A						
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B						
6	DILIGENT	37.87	WG			4	oz/a	7-14PP	B						
6	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
6	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
6	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
6	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						

Optimum GAT Soybean.

Trial ID: 11-5B

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBEL	AMBEL	AMBEL
Crop Code						
Rating Date	5-18-11	6-9-11	7-7-11	5-18-11	6-9-11	7-7-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	0 DAPP	0 DA-C	28 DA-C	0 DAPP	0 DA-C	28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
7	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	99 a	98 ab	97 a	99 a	99 a	99 a
7	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A						
7	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A						
7	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A						
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B						
7	DILIGENT	37.87	WG			4	oz/a	7-14PP	B						
7	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B						
7	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B						
7	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B						
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
7	SYNCHRONY XP	28.4	WG	0.0133	lb ai/a	0.75	oz/a	28-35DAP	C						
7	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A	99 a	93 bc	95 a	99 a	95 bc	98 ab
8	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A						
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B						
8	BOUNDARY	6.5	EC	1.02	lb ai/a	1.25	pt/a	7-14PP	B						
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
8	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A	99 a	99 a	99 a	99 a	98 ab	98 ab
9	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A						
9	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14PP	B						
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B						
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C						
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C						
10	NONTREATED									0 b	0 d	0 b	0 b	0 d	0 c
LSD (P=.05)										0.0	5.6	4.4	0.0	3.8	2.2
Replicate F										0.000	0.089	0.156	0.000	3.332	0.142
Replicate Prob(F)										1.0000	0.9153	0.8567	1.0000	0.0588	0.8684
Treatment F										0.000	268.292	429.257	0.000	584.660	1758.648
Treatment Prob(F)										1.0000	0.0001	0.0001	1.0000	0.0001	0.0001

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

Optimum GAT Soybean.

Trial ID: 11-5B

Location: Belleville Res. Center

										ERICA	ERICA	ERICA	AMATA	AMATA	SETFA	SETFA
										5-18-11	6-9-11	7-7-11	6-9-11	7-7-11	6-9-11	7-7-11
										Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent
										0 DAPP	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	99 a	99 a	99 a	94 a	93 bc	96 a	92 bcd
1	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A							
1	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A							
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-56EPP	A							
1	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	28-56EPP	A							
1	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-56EPP	A							
1	DILIGENT	37.87	WG				4 oz/a	7-14PP	B							
1	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B							
1	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B							
1	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B							
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C							
1	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-35DAP	C							
2	DILIGENT	37.87	WG				4 oz/a	7-14PP	B	99 a	99 a	99 a	96 a	96 ab	92 ab	91 cd
2	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B							
2	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B							
2	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B							
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B							
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B							
2	N-PAK AMS	100	SL		5 % v/v		5 % v/v	7-14PP	B							
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C							
2	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-35DAP	C							
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B	99 a	97 b	99 b	0 c	93 bc	53 e	89 d
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B							
3	N-PAK AMS	100	SL		5 % v/v		5 % v/v	7-14PP	B							
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C							
3	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-35DAP	C							
4	VALOR SX	51	WG	0.064	lb ai/a		2 oz/a	7-14PP	B	99 a	99 a	99 a	90 a	90 c	63 de	89 d
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B							
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B							
4	N-PAK AMS	100	SL		5 % v/v		5 % v/v	7-14PP	B							
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C							
4	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-35DAP	C							
5	DILIGENT	37.87	WG				4 oz/a	7-14PP	B	99 a	99 a	99 a	96 a	95 abc	85 ab	95 abc
5	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B							
5	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B							
5	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B							
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	7-14PP	B							
5	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	7-14PP	B							
5	N-PAK AMS	100	SL		5 % v/v		5 % v/v	7-14PP	B							
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C							
5	SYNCHRONY XP	28.4	WG	0.0107	lb ai/a		0.6 oz/a	28-35DAP	C							
5	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-35DAP	C							
6	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	99 a	99 a	99 a	98 a	98 ab	96 a	96 ab
6	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A							
6	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A							
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-56EPP	A							
6	2,4-D LV 4	3.8	EC	0.95	lb ae/a		2 pt/a	28-56EPP	A							
6	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-56EPP	A							
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a		48 fl oz/a	7-14PP	B							
6	DILIGENT	37.87	WG				4 oz/a	7-14PP	B							
6	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B							
6	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B							
6	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B							
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v		0.25 % v/v	7-14PP	B							
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a		22 fl oz/a	28-35DAP	C							
6	PREFIX	5.29	EC	1.32	lb ai/a		2 pt/a	28-35DAP	C							
6	N-PAK AMS	100	SL		5 % v/v		5 % v/v	28-35DAP	C							

Optimum GAT Soybean.

Trial ID: 11-5B

Location: Belleville Res. Center

										ERICA	ERICA	ERICA	AMATA	AMATA	SETFA	SETFA		
Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval					5-18-11	6-9-11	7-7-11	6-9-11	7-7-11	6-9-11	7-7-11	
										Control	Control	Control	Control	Control	Control	Control	Control	
										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
										0 DAPP	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	28 DA-C	0 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code									
7	CANOPY EX	29.5	WG				1 oz/a	28-56EPP	A	99 a	99 a	99 a	92 a	99 a	96 a	97 ab		
7	CLASSIC	25	WG	0.0142	lb ai/a			28-56EPP	A									
7	EXPRESS	50	SG	0.00424	lb ai/a			28-56EPP	A									
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A									
7	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A									
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A									
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B									
7	DILIGENT	37.87	WG			4	oz/a	7-14PP	B									
7	CLASSIC	25	WG	0.0156	lb ai/a			7-14PP	B									
7	RESOLVE SG	25	SG	0.0156	lb ai/a			7-14PP	B									
7	VALOR SX	51	WG	0.0625	lb ai/a			7-14PP	B									
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B									
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C									
7	SYNCHRONY XP	28.4	WG	0.0133	lb ai/a	0.75	oz/a	28-35DAP	C									
7	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C									
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C									
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A	99 a	99 a	99 a	73 b	98 a	79 bc	97 a		
8	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A									
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A									
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B									
8	BOUNDARY	6.5	EC	1.02	lb ai/a	1.25	pt/a	7-14PP	B									
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B									
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C									
8	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C									
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C									
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-56EPP	A	99 a	99 a	99 a	97 a	97 ab	70 cd	97 ab		
9	2,4-D LV 4	3.8	EC	0.95	lb ae/a	2	pt/a	28-56EPP	A									
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-56EPP	A									
9	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	7-14PP	B									
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	48	fl oz/a	7-14PP	B									
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	7-14PP	B									
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	28-35DAP	C									
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	28-35DAP	C									
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	28-35DAP	C									
10	NONTREATED									0 b	0 c	0 c	0 c	0 d	0 f	0 e		
LSD (P=.05)										0.0	0.0	0.3	10.7	4.9	14.9	4.8		
Replicate F										0.000	0.000	1.000	2.841	0.127	4.059	3.611		
Replicate Prob(F)										1.0000	1.0000	0.3874	0.0847	0.8811	0.0351	0.0480		
Treatment F										0.000	0.000	88144.009	119.768	339.418	34.766	336.305		
Treatment Prob(F)										1.0000	1.0000	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: DuPont (155).
2. Ratings: CI at POST and at 7, 14, 28 DA-C. WC at planting, at POST and 28 DA-C.
3. Target April 1 for application A; Application C should be around 4-8 inch weeds for entire plot.
4. Planting was delayed three weeks until 6-3-11 due to wet soil conditions.
The at planting weed control rating was delayed in hopes of drier conditions, but had to be made prior to planting, see ratings on 5-18-11, 0 DAPP (days after planned planting).
5. Ratings at 0 DAPP were also 47 and 27 days after the 28-56EPP and 7-14PP applications, respectively.
Ratings at 0 DA-C were also 69 and 49 days after the 28-56EPP and 7-14PP applications, respectively.
Not possible to rate crop injury at 0 DA-C as the crop was planted late and just emerging.