

No-Till Soybean Weed Control Studies

Southern Illinois University

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

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:** 05-21-09

Objectives: Evaluate Ignite applied alone and in combination with other herbicides for burndown control of tough to control weeds.

Crop 1: GLXMA Soybean

Variety: AG 4404

Description: RR/STS

Planting Method: SEEDED

Planting Date: 06-27-09

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: SETFA	Setaria faberi Herrm.	foxtail, giant
Pest 3 Type: W	Code: AMBTR	Ambrosia trifida L.	ragweed, giant
Pest 4 Type: W	Code: ERICA	Conyza canadensis (L.) Crong.	horseweed
Pest 5 Type: W	Code: AMBEL	Ambrosia artemisiifolia L.	ragweed, common
Pest 6 Type: W	Code: SENGL	Senecio glabellus Poir.	groundsel, cressleaf

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. GLXMA 2008

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 1.6

Texture: SILT LOAM

pH: 6.2

Soil Name: WINFIELD

CEC: 8

Fert. Level: P1: 83 LB/A, K: 396 LB/A

Application Description

	A	B	C
Application Date:	05-21-09	06-18-09	07-16-09
Time of Day:	12:30	7:45	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	7DBP6"W	4"W-1	4"W-2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	DKP	DKP	DKP
Air Temperature, Unit:	80 F	80 F	76 F
% Relative Humidity:	62	92	92
Wind Velocity, Unit:	5 MPH	1 MPH	1 MPH
Wind Direction:	S	NW	NE
Dew Presence (Y/N):	N	Y	Y
Soil Moisture:	NORMAL	ABONOR	ABONOR
% Cloud Cover:	50	50	60

	05-21-09	06-18-09	07-16-09
Crop stage at application:	NA	NA	V2
Height Min, Max (inch):			5 9

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

	Pest Stage At Each Application					
Application Date:	05-21-09		06-18-09		07-16-09	
Weed Code:	HORPU		HORPU		HORPU	
Stage Majority (leaves):	20		NA		NA	
Stage Min, Max:	15 30					
Height Majority:	15 IN					
Height Min, Max:	6 20					
Density, Unit:	4 FT2					
Weed Code:	SETFA		SETFA		SETFA	
Stage Majority (leaves):	NA		2		NA	
Stage Min, Max:			2 4			
Height Majority:			5 IN			
Height Min, Max:			2 10			
Density, Unit:			3 FT2			
Weed Code:	AMBTR		AMBTR		AMBTR	
Stage Majority (leaves):	6		6		5	
Stage Min, Max:	3 10		2 25		4 30	
Height Majority:	6 IN		5 IN		4 IN	
Height Min, Max:	2 9		2 18		4 36	
Density, Unit:	0.2 FT2		0.4 FT2		0.01 FT2	
Weed Code:	ERICA		ERICA		ERICA	
Stage Majority (leaves):	7		10		20	
Stage Min, Max:	7 10		7 10		10 20	
Height Majority:	2 IN		4 IN		4 IN	
Height Min, Max:	2 4		2 4		2 8	
Density, Unit:	0.01 FT2		0.01 FT2		0.01 FT2	
Weed Code:	AMBEL		AMBEL		AMBEL	
Stage Majority (leaves):	2		4		4	
Stage Min, Max:	2 4		2 4		2 6	
Height Majority:	2 IN		4 IN		4 IN	
Height Min, Max:	2 4		2 4		2 4	
Density, Unit:	0.01 FT2		0.01 FT2		0.01 FT2	
Weed Code:	SENGL		SENGL		SENGL	
Stage Majority (leaves):	30		NA		NA	
Stage Min, Max:	20 50					
Height Majority:	30 IN					
Height Min, Max:	12 48					
Density, Unit:	1 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	

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

										HORPU				SETFA	SETFA	SETFA
Pest Code										GLXMA	GLXMA	06-04-09	06-18-09	06-25-09	08-20-09	
Crop Code										11-05-09	11-05-09	Control	Control	Control	Control	
Rating Date										Moisture	Yield	Percent	Percent	Percent	Percent	
Rating Data Type										Percent	bu/A					
Rating Unit																
Rating Timing																
Trt-Eval Interval												14 DA-A	0 DA-B	35 DA-A	35 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NONTREATED										0 c	0 f	0 b	0 e	0 c	
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W A		11.9 b	43 ab	78 de	0 b	77 d	97 ab	
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W A		12.0 b	44 ab	80 cd	58 ab	92 abc	96 ab	
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W A		11.8 b	45 ab	80 cd	17 b	83 cd	89 b	
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP6"W A								
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W A		11.9 b	43 ab	75 e	66 ab	98 a	94 ab	
5	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W A								
5	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W A								
5	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W A								
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W A		12.4 a	42 ab	75 e	58 ab	93 abc	95 ab	
6	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W A								
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
7	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W A		11.9 b	42 ab	83 c	30 ab	87 bcd	95 ab	
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W A								
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W A		12.0 b	42 b	96 a	60 ab	96 ab	97 ab	
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W A		11.9 b	45 a	0 f	55 ab	87 bcd	99 a	
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W A								
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A								
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B								
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B								
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C								
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C								

Location: Belleville Res. Center

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

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code				
Rating Date	06-04-09	06-18-09	06-25-09	08-20-09
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	14 DA-A	0 DA-B	35 DA-A	35 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED										0 b	0 d	0 c
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	99 a	95 abc	95 ab	98 a
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	98 a	99 a	98 a	99 a
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	96 abc	98 a	93 ab
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP6"W	A				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	96 abc	98 a	98 a
5	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W	A				
5	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W	A				
5	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W	A				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	98 a	95 abc	95 ab	99 a
6	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
7	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	90 a	88 bc	86 b	96 ab
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A	90 a	88 bc	88 b	90 b
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A	93 a	97 ab	98 a	99 a
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W	A				
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code				
Rating Date	06-04-09	06-18-09	06-25-09	08-20-09
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	14 DA-A	0 DA-B	35 DA-A	35 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A	98 a	95 abc	94 ab	98 a
10	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W	A				
10	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W	A				
10	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W	A				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
11	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7DBP6"W	A	98 a	87 c	94 ab	94 ab
11	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	7DBP6"W	A				
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	96 a	93 abc	95 ab	99 a
12	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A				
12	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W	A				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
LSD (P=.05)										10.7	9.8	9.4	7.3
Replicate F										1.357	3.952	3.675	1.727
Replicate Prob(F)										0.2781	0.0342	0.0420	0.2011
Treatment F										59.131	66.965	73.103	126.443
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

Pest Code	ERICA	ERICA	ERICA	ERICA
Crop Code				
Rating Date	06-04-09	06-18-09	06-25-09	08-20-09
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	14 DA-A	0 DA-B	35 DA-A	35 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 c	0 c	0 c	0 c
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	98 ab	99 a	99 a	98 ab
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	97 ab	99 a	98 ab	99 ab
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	96 ab	98 ab	99 a
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP6"W	A				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 ab	99 a	99 a	99 a
5	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W	A				
5	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W	A				
5	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W	A				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a
6	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
7	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	99 ab	99 a	99 a	98 ab
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A	99 ab	99 a	98 ab	96 b
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W	A				
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B				
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C				
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C				

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

Pest Code	ERICA	ERICA	ERICA	ERICA
Crop Code				
Rating Date	06-04-09	06-18-09	06-25-09	08-20-09
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval	14 DA-A	0 DA-B	35 DA-A	35 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W A		96 b	99 a	98 ab	99 ab
10	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W A					
10	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W A					
10	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W A					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C					
11	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7DBP6"W A		96 ab	95 b	97 b	99 ab
11	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	7DBP6"W A					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C					
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W A		99 a	99 a	99 a	99 a
12	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W A					
12	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W A					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W A					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1 B					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1 B					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2 C					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2 C					
LSD (P=.05)										2.9	3.5	1.5	2.8
Replicate F										1.895	0.135	0.407	1.435
Replicate Prob(F)										0.1741	0.8742	0.6703	0.2596
Treatment F										818.900	561.506	2963.565	870.046
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

Pest Code	AMBEL	AMBEL	AMBEL	AMBEL	SENGL
Crop Code					
Rating Date	06-04-09	06-18-09	06-25-09	08-20-09	06-04-09
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	14 DA-A	0 DA-B	35 DA-A	35 DA-C	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED										0 c	0 b	0 c	0 b
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	99 a	99 a	98 b	99 a	99 a
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
2	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
3	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	99 a	99 ab	99 a	99 a
4	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP6"W	A					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
4	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
5	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W	A					
5	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W	A					
5	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W	A					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
6	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A					
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
6	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
7	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
7	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A	98 b	99 a	99 a	99 a	99 a
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
8	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W	A					
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
9	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					

Ignite Burndown for Roundup Ready Soybean - 1.

Trial ID: 09-1-ME40

Location: Belleville Res. Center

Pest Code	AMBEL	AMBEL	AMBEL	AMBEL	SENGL
Crop Code					
Rating Date	06-04-09	06-18-09	06-25-09	08-20-09	06-04-09
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing					
Trt-Eval Interval	14 DA-A	0 DA-B	35 DA-A	35 DA-C	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
10	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W	A					
10	VALOR SX	51	WG	0.056	lb ai/a			7DBP6"W	A					
10	CLASSIC	25	WG	0.0194	lb ai/a			7DBP6"W	A					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
10	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
11	GRAMOXONE INTEON	2	SL	0.625	lb ai/a	2.5	pt/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
11	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	7DBP6"W	A					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
11	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP6"W	A	99 a	99 a	99 a	99 a	99 a
12	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A					
12	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	7DBP6"W	A					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	7DBP6"W	A					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-1	B					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-1	B					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W-2	C					
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4"W-2	C					

LSD (P=.05)

1.1 0.0 1.1 0.0 0.0

Replicate F

1.000 0.000 1.536 0.000 0.000

Replicate Prob(F)

0.3840 1.0000 0.2374 1.0000 1.0000

Treatment F

5500.563 0.000 5405.073 0.000 0.000

Treatment Prob(F)

0.0001 1.0000 0.0001 1.0000 1.0000

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

Trial Comments

1. Protocol: Bayer (MRA) / BASF.
2. Ratings: CI at 0 DA-B; WC at 14+35 DA-A; prior to B, and 35 DA-C.
3. Yield if possible.
4. Estimate percent ground cover of each weed species at each application and evaluation timing. .
5. Planting was delayed due to wet field conditions.
Not possible to rate crop injury at 0 DA-B because crop could not yet be planted.
6. Percent ground cover on 5-21-09 at application A for HORPU, SETFA, AMBTR, ERICA, AMBEL, and SENGL was, 50, 0, 0.5, 0, 0, and 1, respectively.
Percent ground cover on 6-18-09 at application B for HORPU, SETFA, AMBTR, ERICA, AMBEL, and SENGL was, 0, 30, 20, 10, 20, and 0, respectively.
Percent ground cover on 6-25-09 at 35 DA-A for HORPU, SETFA, AMBTR, ERICA, AMBEL, and SENGL was, 0, 30, 20, 10, 20, and 0, respectively.
Percent ground cover on 7-16-09 at application C for HORPU, SETFA, AMBTR, ERICA, AMBEL, and SENGL was, 0, 30, 20, 10, 20, and 0, respectively.
Percent ground cover on 8-20-09 at 35 DA-C for HORPU, SETFA, AMBTR, ERICA, AMBEL, and SENGL was, 0, 30, 20, 10, 20, and 0, respectively.
7. Harvested 11-5-09, (2) 30 inch rows by 24 ft.