

Ignite Burndown for Roundup Ready Soybean - 2.

Trial ID: 09-YRC-IgniteBD Location: Young Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Murphysboro IL 62966 USA
 Trial Status: FINAL Initiation Date: 05-18-09

Objectives: Evaluate Ignite applied alone and in combination with other herbicides
 for burndown control of glyphosate-resistant marestalk.

Crop 1: GLXMA Soybean Variety: AG 3905 Description: RR
 Planting Method: SEEDS Planting Date: 05-25-09
 Rate, Unit: 75 LB/A Depth, Unit: 1.25 IN
 Row Spacing, Unit: 30 IN
 Soil Moisture: ABOVE NORMAL

Pest 1 Type: W Code: ERICA Conyza canadensis (L.) Crong. horseweed
 Pest Description: glyphosate-resistant marestalk
 Pest 2 Type: W Code: AMASS Amaranthus species amaranthus species
 Pest 3 Type: W Code: MEDSS Medicago species medicago species

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 30 FT Tillage Type: NO-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2008

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

% OM: 2.1 Texture: VERY FINE SANDY LOAM
 pH: 5 Soil Name: ALVIN
 CEC: 9 Fert. Level: P1 133 LB/A, K 209 LB/A

Application Description

	A	B	C
Application Date:	05-18-09	06-20-09	07-06-09
Time of Day:	10:30	8:15	10:00
Application Method:	Spray	Spray	Spray
Application Timing:	7DBP6"W	4"W-1	4"W-2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	DKT	DKT	DKP
Air Temperature, Unit:	65 F	83 F	85 F
% Relative Humidity:	31	75	50
Wind Velocity, Unit:	6 MPH	2 MPH	2 MPH
Wind Direction:	NE	W	N
Dew Presence (Y/N):	N	Y	Y
Soil Temperature, Unit:	61 F	80 F	75 F
Soil Moisture:	ABONOR	ABONOR	ABONOR
% Cloud Cover:	5	0	5

	05-18-09	06-20-09	07-06-09
Crop stage at application:	NA	V3	V6
Height Min, Max (inch):		8 10	22 26

Pest Stage At Each Application

	05-18-09	06-20-09	07-06-09
Weed Code:	ERICA	ERICA	ERICA
Stage Majority (leaves):	10	18	14
Stage Min, Max:	3 26	8 52	6 40
Height Majority:	3 IN	8 IN	3 IN
Height Min, Max:	1 8	4 20	1 10
Density, Unit:	1 FT2	0.5 FT2	0.5 FT2
Weed Code:	AMASS	AMASS	AMASS
Stage Majority (leaves):	2	8	8
Stage Min, Max:	2 4	4 30	5 24
Height Majority:	0.5 IN	5 IN	4 IN
Height Min, Max:	0.25 1	2 22	2 18
Density, Unit:	0.01 FT2	1 FT2	0.2 FT2
Weed Code:	MEDSS	MEDSS	MEDSS
Stage Majority (leaves):	30	50	NA
Stage Min, Max:	20 60	20 80	
Height Majority:	2.5 IN	4 IN	
Height Min, Max:	1 6	3 8	
Density, Unit:	2 FT2	0.01 FT2	

Application 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:	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code
Crop Code
Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
11-06-09	11-06-09	06-20-09	06-22-09	08-10-09
Moisture	Yield	Injury	Injury	Injury
Percent	bu/A	Percent	Percent	Percent
		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	11.7	b	48	ab	0 a
10	VALOR XLT	40.3	WG			3	oz/a	7DBP6"W	A					0 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	11.4	b	46	ab	0 a
11	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	7DBP6"W	A					0 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	11.4	b	48	ab	0 a
12	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP6"W	A					0 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)

0.83 8.5 0.0 0.0 0.0

Replicate F

0.009 3.124 0.000 0.000 0.000

Replicate Prob(F)

0.9912 0.0640 1.0000 1.0000 1.0000

Treatment F

1.724 6.621 0.000 0.000 0.000

Treatment Prob(F)

0.1334 0.0001 1.0000 1.0000 1.0000

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

Ignite Burndown for Roundup Ready Soybean - 2.

Trial ID: 09-YRC-IgniteBD Location: Young Res. Center

										ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
Pest Code										06-01-09	06-20-09	06-22-09	08-10-09
Crop Code										Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent
Rating Data Type													
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 f	0 b
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	95 a	95 bcd	95 bcd	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	98 a	93 d	94 d	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 ab	99 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 a	99 ab	99 ab	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	97 abc	98 abc	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	98 a	93 d	93 d	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	40 b	60 e	60 e	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
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 - 2.

Trial ID: 09-YRC-IgniteBD Location: Young Res. Center

Pest Code	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
Crop Code				
Rating Date	06-01-09	06-20-09	06-22-09	08-10-09
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	97 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	98 a	95 cd	95 cd	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
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)										5.6	3.8	3.9	0.0
Replicate F										0.132	1.528	0.862	0.000
Replicate Prob(F)										0.8767	0.2401	0.4366	1.0000
Treatment F										274.292	498.672	482.931	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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

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Pest Code	AMASS	AMASS	AMASS	AMASS
Crop Code				
Rating Date	06-01-09	06-20-09	06-22-09	08-10-09
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 f	0 e	0 b
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	87 b	23 de	38 cd	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	97 a	25 cde	35 d	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	98 a	33 cd	45 bcd	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
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	40 bc	52 bc	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	85 b	17 e	30 d	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	97 a	22 de	33 d	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	50 b	60 b	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 - 2.

Trial ID: 09-YRC-IgniteBD Location: Young Res. Center

Pest Code	AMASS	AMASS	AMASS	AMASS
Crop Code				
Rating Date	06-01-09	06-20-09	06-22-09	08-10-09
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	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	97 a	17 e	30 d	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	53 b	60 b	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)										4.1	15.1	15.6	0.0
Replicate F										0.827	1.017	1.102	0.000
Replicate Prob(F)										0.4505	0.3781	0.3500	1.0000
Treatment F										409.797	37.001	28.550	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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

Ignite Burndown for Roundup Ready Soybean - 2.

Trial ID: 09-YRC-IgniteBD Location: Young Res. Center

Pest Code	MEDSS	MEDSS	MEDSS	MEDSS
Crop Code				
Rating Date	06-01-09	06-20-09	06-22-09	08-10-09
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 d	0 d	0 c
2	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	7DBP6"W	A	98 a	90 ab	90 ab	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	96 a	96 a	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	93 ab	94 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	98 a	98 a	98 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	96 a	97 a	98 b
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
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 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	47 b	33 c	35 c	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 - 2.

Trial ID: 09-YRC-IgniteBD Location: Young Res. Center

Pest Code	MEDSS	MEDSS	MEDSS	MEDSS
Crop Code				
Rating Date	06-01-09	06-20-09	06-22-09	08-10-09
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 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
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	86 b	86 b	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
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) 3.1 9.4 9.4 0.6

Replicate F	0.928	0.781	1.304	1.941
Replicate Prob(F)	0.4104	0.4703	0.2917	0.1673
Treatment F	860.645	97.605	96.687	18991.531
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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.
Ground cover percent on 5-18-09 at 7DBP6"W application were 10, 1, and 20 for ERICA, AMASS, and MEDSS, respectively.
Ground cover percent on 6-1-09 at 14 DA-A rating were 10, 5, and 30 for ERICA, AMASS, and MEDSS, respectively.
Ground cover percent on 6-20-09 at 4-6"W-1 application were 20, 25, and 30 for ERICA, AMASS, and MEDSS, respectively.
Ground cover percent on 6-20-09 at 0 DA-B rating were 20, 25, and 30 for ERICA, AMASS, and MEDSS, respectively.
Ground cover percent on 6-22-09 at 35 DA-A rating were 20, 25, and 30 for ERICA, AMASS, and MEDSS, respectively.
Ground cover percent on 7-6-09 at 4-6"W-2 application were 5, 2, and 0 for ERICA, AMASS, and MEDSS, respectively.
5. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMASS = Amaranth species including AMATA (common waterhemp) and AMARE (redroot pigweed).
6. Harvested 11-6-09, (2) 30 inch rows by 26.7 ft.