

Ignite Burndown in Roundup Ready Soybean.

Trial ID: 10-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: 05-03-10

Objectives: Compare and contrast weed control programs in Roundup ready soybean using Ignite in the preplant burndown application.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDED Planting Date: 05-10-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: ERICA Conyza canadensis (L.) Crong. horseweed
 Pest Description: glyphosate-resistant marestail
 Pest 2 Type: W Code: HORPU Hordeum pusillum Nutt. barley, little
 Pest 3 Type: W Code: MEDLU Medicago lupulina L. medic, black
 Pest 4 Type: W Code: VERPG Veronica peregrina L. speedwell, purslane
 Pest 5 Type: W Code: AMASS Amaranthus species amaranthus species
 Pest 6 Type: W Code: GGGAN grasses, annual

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. GLXMA 2009

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	
Application Date:	05-03-10		05-27-10	
Time of Day:	11:30		11:30	
Application Method:	Spray		Spray	
Application Timing:	7DBP		4-6"W	
Application Placement:	BROFOL		BROFOL	
Applied By:	NVH		NVH	
Air Temperature, Unit:	78 F		88 F	
% Relative Humidity:	37		65	
Wind Velocity, Unit:	4 MPH	3 MPH		
Wind Direction:	S		NW	
Dew Presence (Y/N):	N		N	
Soil Temperature, Unit:	72 F		78 F	
Soil Moisture:	ABONOR		ABONOR	
% Cloud Cover:	5		10	
	05-03-10		05-27-10	
Crop stage at application:			V1	
Height Min, Max (inch):			3 6	

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	Pest Stage At Each Application			
Application Date:	05-03-10	05-27-10		
Weed Code:	ERICA	ERICA		
Stage Majority (leaves):	8	20		
Stage Min, Max:	3	32	8	50
Height Majority:	4	IN	5	IN
Height Min, Max:	1	12	1	14
Density, Unit:	3	FT2	1	FT2
Weed Code:	HORPU	HORPU		
Stage Majority (leaves):	20	NA		
Stage Min, Max:	12	30		
Height Majority:	18	IN		
Height Min, Max:	16	20		
Density, Unit:	0.3	FT2		
Weed Code:	MEDLU	MEDLU		
Stage Majority (leaves):	100	NA		
Stage Min, Max:	40	140		
Height Majority:	10	IN		
Height Min, Max:	8	16		
Density, Unit:	0.01	FT2		
Weed Code:	VERPG	VERPG		
Stage Majority (leaves):	100	NA		
Stage Min, Max:	20	200		
Height Majority:	8	IN		
Height Min, Max:	6	10		
Density, Unit:	1	FT2		
Weed Code:	AMASS	AMASS		
Stage Majority (leaves):	2	4		
Stage Min, Max:	COTY 4	COTY 8		
Height Majority:	1	IN	3	IN
Height Min, Max:	0.5	3	0.25	6
Density, Unit:	0.1	FT2	4	FT2
Weed Code:	GGGAN	GGGAN		
Stage Majority (leaves):	NA	6		
Stage Min, Max:		2	8	
Height Majority:		6	IN	
Height Min, Max:		3	10	
Density, Unit:		2	FT2	

Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002
Boom Length, Unit:	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code												ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
Crop Code												GLXMA	GLXMA	05-17-10	05-27-10
Rating Date												10-07-10	05-27-10	05-17-10	05-27-10
Rating Data Type												Yield	Injury	Control	Control
Rating Unit												bu/A	Percent	Percent	Percent
Rating Timing												24 DA-A	24 DA-A	11 DA-B	59 DA-A
Trt-Eval Interval												0 DA-B	14 DA-A	0 DA-B	35 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									7 b	0 b	0 g	0 g	0 f	0 g
2	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	48 a	0 b	91 d	83 ef	82 de	78 ef
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	50 a	0 b	97 ab	96 ab	95 ab	94 ab
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	A						
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	50 a	0 b	96 ab	93 abc	93 abc	91 a-d
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A						
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	50 a	0 b	98 ab	98 a	98 a	98 a
5	SENCOR	75	WG	0.375	lb ai/a	8	oz/a	7DBP	A						
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	51 a	0 b	95 bc	91 abc	90 a-d	88 a-e
6	ENVIVE	41.3	WG			3.5	oz/a	7DBP	A						
6	CLASSIC	25	WG	0.02	lb ai/a			7DBP	A						
6	HARMONY SG	50	SG	0.00643	lb ai/a			7DBP	A						
6	VALOR SX	51	WG	0.0635	lb ai/a			7DBP	A						
6	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
6	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
7	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	49 a	0 b	95 abc	92 abc	93 abc	92 abc
7	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7DBP	A						
7	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
7	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
8	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	49 a	0 b	91 d	88 cde	84 cde	83 cde
8	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	A						
8	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
8	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	A	43 a	0 b	83 e	76 f	76 e	71 f
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A						
9	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
9	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
10	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	43 a	0 b	95 bc	93 abc	93 abc	92 abc
10	VALOR XLT	40.3	WG			3	oz/a	7DBP	A						
10	VALOR SX	51	WG	0.056	lb ai/a			7DBP	A						
10	CLASSIC	25	WG	0.0194	lb ai/a			7DBP	A						
10	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
10	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
11	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	49 a	0 b	92 cd	89 b-e	88 bcd	85 b-e
11	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7DBP	A						
11	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
11	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	51 a	0 b	98 ab	98 a	97 ab	97 a
12	AUTHORITY MTZ	45	WG	0.45	lb ai/a	16	oz/a	7DBP	A						
12	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
12	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						

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										GLXMA		ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
Pest Code										10-07-10	05-27-10	05-17-10	05-27-10	06-07-10	07-01-10
Crop Code										Yield	Injury	Control	Control	Control	Control
Rating Date										bu/A	Percent	Percent	Percent	Percent	Percent
Rating Data Type															
Rating Unit															
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
13	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	47	a	2	a	96	ab
13	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	7DBP	A					90	bcd
13	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					89	a-d
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
13	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
14	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	45	a	0	b	95	abc
14	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	7DBP	A					91	abc
14	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					90	a-d
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
14	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
15	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	49	a	0	b	98	a
15	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A					98	a
15	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	7DBP	A					98	a
15	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A						
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
15	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	A	49	a	0	b	77	f
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	A					83	de
16	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					82	de
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B						
16	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B						
LSD (P=.05)										8.7	1.2	3.4	7.2	9.4	10.6
Replicate F										0.969	1.000	1.174	0.550	1.755	0.809
Replicate Prob(F)										0.3913	0.3798	0.3228	0.5829	0.1902	0.4547
Treatment F										12.605	1.000	408.980	87.515	51.755	40.229
Treatment Prob(F)										0.0001	0.4801	0.0001	0.0001	0.0001	0.0001

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

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Location: Young Res. Center

Pest Code		HORPU	MEDLU	MEDLU	VERPG
Crop Code					
Rating Date		05-17-10	05-17-10	05-27-10	05-17-10
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing				24 DA-A	
Trt-Eval Interval		14 DA-A	14 DA-A	0 DA-B	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 d	0 j	0 f	0 d
2	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	85 c	53 h	50 e	98 a
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	85 c	78 fg	57 e	99 a
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	A				
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	87 c	81 ef	73 d	98 ab
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A				
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	87 c	98 a	93 ab	99 a
5	SENCOR	75	WG	0.375	lb ai/a	8	oz/a	7DBP	A				
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	88 c	95 ab	97 a	99 a
6	ENVIVE	41.3	WG			3.5	oz/a	7DBP	A				
6	CLASSIC	25	WG	0.02	lb ai/a			7DBP	A				
6	HARMONY SG	50	SG	0.00643	lb ai/a			7DBP	A				
6	VALOR SX	51	WG	0.0635	lb ai/a			7DBP	A				
6	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
6	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
7	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	86 c	90 bcd	88 ab	99 a
7	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7DBP	A				
7	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
7	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
8	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	87 c	87 cde	87 abc	99 a
8	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	A				
8	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
8	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	A	99 a	92 abc	95 a	93 b
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A				
9	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
9	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
10	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	85 c	92 abc	92 ab	99 a
10	VALOR XLT	40.3	WG			3	oz/a	7DBP	A				
10	VALOR SX	51	WG	0.056	lb ai/a			7DBP	A				
10	CLASSIC	25	WG	0.0194	lb ai/a			7DBP	A				
10	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
10	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
11	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	87 c	83 def	72 d	99 a
11	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7DBP	A				
11	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
11	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	87 c	88 cde	87 abc	99 a
12	AUTHORITY MTZ	45	WG	0.45	lb ai/a	16	oz/a	7DBP	A				
12	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
12	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				

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Location: Young Res. Center

Pest Code	HORPU	MEDLU	MEDLU	VERPG
Crop Code				
Rating Date	05-17-10	05-17-10	05-27-10	05-17-10
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing			24 DA-A	
Trt-Eval Interval	14 DA-A	14 DA-A	0 DA-B	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
13	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	93 b	72 g	82 bcd	99 a
13	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	7DBP	A				
13	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
13	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
14	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	87 c	45 i	47 e	98 ab
14	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	7DBP	A				
14	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
14	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
15	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	85 c	77 fg	80 bcd	99 a
15	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A				
15	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	7DBP	A				
15	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
15	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	A	99 a	72 g	75 cd	87 c
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	A				
16	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B				
16	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B				
LSD (P=.05)										3.3	7.1	13.0	5.5
Replicate F										0.389	0.319	0.234	0.214
Replicate Prob(F)										0.6816	0.7295	0.7931	0.8088
Treatment F										402.571	102.188	30.824	167.821
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 in Roundup Ready Soybean.

Trial ID: 10-YRC-IgniteBD

Location: Young Res. Center

								AMASS	AMASS	AMASS	AMASS	GGGAN	GGGAN	GGGAN
Pest Code								05-17-10	05-27-10	06-07-10	07-01-10	05-27-10	06-07-10	07-01-10
Crop Code								Control	Control	Control	Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type								24 DA-A	24 DA-A	11 DA-B	59 DA-A	24 DA-A	11 DA-B	59 DA-A
Rating Unit								14 DA-A	0 DA-B	35 DA-A	35 DA-B	0 DA-B	35 DA-A	35 DA-B
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									0 f	0 d	0 c	0 c	0 c
2	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	0 f	0 d	72 ab	73 ab	40 d
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A				91 ab	90 ab
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
2	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
3	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	0 f	0 d	33 bc	33 bc	17 e
3	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	A				87 ab	87 ab
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
3	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
4	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	75 d	57 c	13 c	10 c	50 cd
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A				98 a	94 ab
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
4	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
5	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	80 d	62 bc	23 c	30 c	88 a
5	SENCOR	75	WG	0.375	lb ai/a	8	oz/a	7DBP	A				93 ab	88 ab
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
5	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
6	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	99 a	98 a	96 a	96 a	91 a
6	ENVIVE	41.3	WG			3.5	oz/a	7DBP	A				98 a	97 a
6	CLASSIC	25	WG	0.02	lb ai/a			7DBP	A					
6	HARMONY SG	50	SG	0.00643	lb ai/a			7DBP	A					
6	VALOR SX	51	WG	0.0635	lb ai/a			7DBP	A					
6	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
6	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
7	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	98 ab	97 a	94 a	92 a	83 ab
7	AUTHORITY FIRST	70	WG	0.14	lb ai/a	3.2	oz/a	7DBP	A				85 ab	81 ab
7	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
7	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
8	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	99 a	96 a	78 a	78 a	92 a
8	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	7DBP	A				97 ab	95 a
8	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
8	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	A	83 cd	72 b	0 c	0 c	77 ab
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A				98 a	89 ab
9	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
9	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
10	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	99 a	98 a	92 a	87 a	77 ab
10	VALOR XLT	40.3	WG			3	oz/a	7DBP	A				89 ab	88 ab
10	VALOR SX	51	WG	0.056	lb ai/a			7DBP	A					
10	CLASSIC	25	WG	0.0194	lb ai/a			7DBP	A					
10	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
10	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
11	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	95 ab	93 a	84 a	84 a	67 bc
11	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	7DBP	A				96 ab	94 ab
11	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
11	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
12	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	99 ab	97 a	88 a	88 a	78 ab
12	AUTHORITY MTZ	45	WG	0.45	lb ai/a	16	oz/a	7DBP	A				94 ab	90 ab
12	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
12	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					

Ignite Burndown in Roundup Ready Soybean.

Trial ID: 10-YRC-IgniteBD

Location: Young Res. Center

								AMASS	AMASS	AMASS	AMASS	GGGAN	GGGAN	GGGAN
Pest Code														
Crop Code														
Rating Date								05-17-10	05-27-10	06-07-10	07-01-10	05-27-10	06-07-10	07-01-10
Rating Data Type								Control	Control	Control	Control	Control	Control	Control
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing									24 DA-A	11 DA-B	59 DA-A	24 DA-A	11 DA-B	59 DA-A
Trt-Eval Interval								14 DA-A	0 DA-B	35 DA-A	35 DA-B	0 DA-B	35 DA-A	35 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
13	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	90 bc	87 a	90 a	82 a	90 a
13	OPTILL	68	WG	0.085	lb ai/a	2	oz/a	7DBP	A					93 ab
13	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					89 ab
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
13	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
14	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	0 f	10 d	32 bc	32 c	0 e
14	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	7DBP	A					81 b
14	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					79 b
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
14	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
15	IGNITE 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	7DBP	A	63 e	53 c	15 c	10 c	17 e
15	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	7DBP	A					95 ab
15	MSO (DESTINY)	100	SL	1	% v/v	1	% v/v	7DBP	A					93 ab
15	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
15	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	A	0 f	0 d	17 c	17 c	67 bc
16	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	A					98 a
16	AMS	100	SG	1	% w/w	8.5	lb/100 gal	7DBP	A					95 a
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"W	B					
16	AMS	100	SG	1	% w/w	8.5	lb/100 gal	4-6"W	B					
LSD (P=.05)								8.9	13.5	40.4	40.9	20.3	16.2	16.3
Replicate F								0.261	2.177	2.912	3.393	0.939	3.625	6.665
Replicate Prob(F)								0.7720	0.1309	0.0698	0.0469	0.4024	0.0389	0.0040
Treatment F								199.794	78.285	7.240	6.817	22.395	17.963	16.719
Treatment Prob(F)								0.0001	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: Bayer (MRA).
2. Ratings: CI at B application; WC and % ground cover by species at 14 and 35 DA-A and again at 0 and 35 DA-B.
3. Yield if possible.
4. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMASS = Amaranth species including AMATA (common waterhemp) and AMARE (redroot pigweed).
GGGAN = Annual grasses including 75% PANDI (fall panicum) and 25% DIGSA (large crabgrass).
5. Percent ground cover for ERICA-HR was 30, 30, and 30 at 14 DA-A, 0 DA-B, and 35 DA-A, respectively.
Percent ground cover for HORPU was 25 at 14 DA-A. HORPU was senescing naturally by 5-27-10.
Percent ground cover for MEDLU was 5, and 5 at 14 DA-A, and 0 DA-B, respectively. MEDLU was senescing naturally by 6-7-10.
Percent ground cover for VERPG was 25 at 14 DA-A.
Percent ground cover for AMASS was 20, 20, and 40 at 14 DA-A, 0 DA-B, and 35 DA-A, respectively.
Percent ground cover for GGGAN was 30, and 20 at 0 DA-B, and 35 DA-A, respectively.
6. Harvested 10-7-10, (2) 30 inch rows by 26.5 ft.