

Winfield Solutions Burndown plus Residual Programs in No-Till Soybean.

Trial ID: 11-FagerS-WSprograms Location: Fager South

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 City State Zip Country: Murphysboro IL 62966 USA  
 Trial Status: FINAL Initiation Date: 5-20-11

Objectives: Evaluate the burndown and residual control from various preplant herbicide programs.

Crop 1: YACKR Arable land Variety: NON-CROP

Pest 1 Type: W Code: ERICA Conyza canadensis (L.) Crong. horseweed  
 Pest Description: glyphosate-resistant marestalk

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 2010

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

#### Application Description

A  
 Application Date: 5-20-11  
 Time of Day: 10:00  
 Application Method: Spray  
 Application Timing: 6-8"MT  
 Application Placement: BROFOL  
 Applied By: LAH  
 Air Temperature, Unit: 84 F  
 % Relative Humidity: 49  
 Wind Velocity, Unit: 2 MPH  
 Wind Direction: S  
 Dew Presence (Y/N): N  
 Soil Temperature, Unit: 67 F  
 Soil Moisture: NORMAL  
 % Cloud Cover: 40

20-5-11  
 Crop stage at application: NA

#### Pest Stage At Each Application

Application Date: 5-20-11  
 Weed Code: ERICA  
 Stage Majority (leaves): 25  
 Stage Min, Max: 7 55  
 Height Majority: 7 IN  
 Height Min, Max: 1 17  
 Density, Unit: 13 FT2

#### Application Equipment

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

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								ERICA-HR	ERICA-HR	ERICA-HR		
								5-25-11	6-10-11	7-1-11		
								Control	Control	Control		
								Percent	Percent	Percent		
								5 DA-A	21 DA-A	42 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	97 a	97 ab	97 a
1	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
1	NOBLE	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
1	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	6-8"MT	A			
2	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	97 a	97 ab	98 a
2	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
2	DESTINY HC	100	SL	0.5	pt/a	0.5	pt/a	6-8"MT	A			
2	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
3	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	95 a	97 ab	97 a
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
3	DESTINY HC	100	SL	1	pt/a	1	pt/a	6-8"MT	A			
3	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
4	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	98 a	98 a	98 a
4	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
4	E-99	6.01	SL	0.503	lb ae/a	0.67	pt/a	6-8"MT	A			
4	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
4	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
5	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	77 b	94 bcd	95 ab
5	DIMETRIC	75	WG	0.375	lb ai/a	8	oz/a	6-8"MT	A			
5	E-99	6.01	SL	0.503	lb ae/a	0.67	pt/a	6-8"MT	A			
5	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
5	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
6	DIMETRIC	75	WG	0.375	lb ai/a	8	oz/a	6-8"MT	A	68 c	94 cd	95 ab
6	E-99	6.01	SL	0.503	lb ae/a	0.67	pt/a	6-8"MT	A			
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
6	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
7	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A	98 a	98 a	98 a
7	E-99	6.01	SL	0.503	lb ae/a	0.67	pt/a	6-8"MT	A			
7	DESTINY HC	100	SL	1	pt/a	1	pt/a	6-8"MT	A			
7	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
8	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	97 a	97 abc	97 a
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
8	AGH 09008	3.5	SL	0.437	lb ae/a	1	pt/a	6-8"MT	A			
8	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
8	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
9	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	96 a	97 abc	96 ab
9	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
9	DIMETRIC	75	WG	0.375	lb ai/a	8	oz/a	6-8"MT	A			
9	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
9	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
10	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	97 a	97 ab	97 ab
10	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A			
10	DIMETRIC	75	WG	0.188	lb ai/a	4	oz/a	6-8"MT	A			
10	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
10	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
11	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	6-8"MT	A	98 a	98 a	98 a
11	DIMETRIC	75	WG	0.375	lb ai/a	8	oz/a	6-8"MT	A			
11	DESTINY HC	100	SL	1	pt/a	1	pt/a	6-8"MT	A			
11	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
12	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	80 b	93 d	94 b
12	DIMETRIC	75	WG	0.375	lb ai/a	8	oz/a	6-8"MT	A			
12	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
12	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
13	CORNERSTONE PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	6-8"MT	A	68 c	81 e	63 c
13	DIMETRIC	75	WG	0.188	lb ai/a	4	oz/a	6-8"MT	A			
13	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	6-8"MT	A			
13	AG 8034	100	SL	1	% v/v	1	% v/v	6-8"MT	A			
14	NONTREATED									0 d	0 f	0 d

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Pest Code	ERICA-HR								
Crop Code	ERICA-HR	ERICA-HR	ERICA-HR						
Rating Date	5-25-11	6-10-11	7-1-11						
Rating Data Type	Control	Control	Control						
Rating Unit	Percent	Percent	Percent						
Rating Timing									
Trt-Eval Interval	5 DA-A	21 DA-A	42 DA-A						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F			1.368		0.837			0.680
	Replicate Prob(F)			0.2722		0.4442			0.5154
	Treatment F			400.340		529.176			591.846
	Treatment Prob(F)			0.0001		0.0001			0.0001

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

Trial Comments

1. Protocol: Winfield Solutions.
2. Ratings: WC at 7-10, 21, and 42 DA-A.
3. Plant soybean anytime after first evaluation.
4. ERICA-HR = Herbicide-resistant marestail (glyphosate).
5. Not harvested (non-crop).