

Influence of Tank-Mix Partners and Application Timings on Kixor Efficacy.

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

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Murphysboro IL 62966 USA
 Trial Status: FINAL Initiation Date: 4-20-11

Objectives: Evaluate tank-mix and timing options for improved horseweed control with Kixor.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDED Planting Date: 5-20-11
 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: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest Description: glyphosate-resistant waterhemp

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	B	C
Application Date:	4-20-11	4-29-11	6-10-11
Time of Day:	15:30	9:30	11:00
Application Method:	Spray	Spray	Spray
Application Timing:	ROSETTE	4-6"MT	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	LAH	LAH	JRK
Air Temperature, Unit:	55 F	64 F	85 F
% Relative Humidity:	42	52	64
Wind Velocity, Unit:	1 MPH	1 MPH	5 MPH
Wind Direction:	W	NE	N
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	61 F	59 F	79 F
Soil Moisture:	ABONOR	ABONOR	NORMAL
% Cloud Cover:	95	0	0

	20-4-11	29-4-11	10-6-11
Crop stage at application:	NA	NA	V2-V3
Height Min, Max (inch):		4	10

Pest Stage At Each Application

	4-20-11	4-29-11	6-10-11
Application Date:	4-20-11	4-29-11	6-10-11
Weed Code:	ERICA	ERICA	ERICA
Stage Majority (leaves):	8	12	15
Stage Min, Max:	4 22	4 22	8 20
Height Majority:	1.5 IN	5 IN	6 IN
Height Min, Max:	0.25 5	0.25 8	3 10
Density, Unit:	2 FT2	2 FT2	1 FT2
Weed Code:	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	NA	6
Stage Min, Max:			coty 12
Height Majority:			8 IN
Height Min, Max:			0.5 14
Density, Unit:			2 FT2

Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer
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:	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Influence of Tank-Mix Partners and Application Timings on Kixor Efficacy.

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

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA		ERICA-HR						
							Injury Percent	Injury Percent	4-26-11 Control Percent	Control Percent	Control Percent	Control Percent			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	42 DAT	63 DAT	6 DA-A	14 DAT	42 DAT	63 DAT
1	NONTREATED									0 a	0 a	0 f	0 c	0 d	0 e
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A	0 a	0 a	58 e	93 b	95 ab	88 abc
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	ROSETTE	A						
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	ROSETTE	A						
2	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
2	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	ROSETTE	A	0 a	0 a	82 c	97 a	92 bc	83 cd
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
3	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
3	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
3	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
4	SHARPEN	2.85	SC	0.0334	lb ai/a	1.5	fl oz/a	ROSETTE	A	0 a	0 a	86 c	98 a	91 bc	82 cd
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
4	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
4	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
4	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
5	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	ROSETTE	A	0 a	0 a	82 c	98 a	97 a	91 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
5	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
5	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
5	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
6	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	ROSETTE	A	0 a	0 a	83 c	99 a	95 abc	83 bcd
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	ROSETTE	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
6	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
6	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
6	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
7	VALOR XLT	40.3	WG			3	oz/a	ROSETTE	A	0 a	0 a	72 d	93 b	90 c	79 d
7	VALOR SX	51	WG	0.056	lb ai/a			ROSETTE	A						
7	CLASSIC	25	WG	0.0194	lb ai/a			ROSETTE	A						
7	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	ROSETTE	A						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
7	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
7	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
7	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	4-6"MT	B	0 a	0 a	96 a	98 a	97 a	87 abc
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	B						
8	MSO	100	SL	1	% v/v	1	% v/v	4-6"MT	B						
8	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"MT	B						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
8	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
9	SHARPEN	2.85	SC	0.0334	lb ai/a	1.5	fl oz/a	4-6"MT	B	0 a	0 a	93 ab	98 a	97 a	90 ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	B						
9	MSO	100	SL	1	% v/v	1	% v/v	4-6"MT	B						
9	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"MT	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
9	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						

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Pest Code		Crop Code		Rating Date		Rating Data Type		Rating Unit		Rating Timing		Trt-Eval Interval		GLXMA	GLXMA	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR		
														Injury	Injury	4-26-11	Control	Control	Control	Control	
														Percent	Percent	Control	Percent	Percent	Percent	Percent	Percent
														42 DAT	63 DAT	6 DA-A	14 DAT	42 DAT	63 DAT		
10	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	4-6"	MT	B		0 a	0 a	86 bc	98 a	97 a	88 abc				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"	MT	B											
10	MSO	100	SL	1	% v/v	1	% v/v	4-6"	MT	B											
10	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"	MT	B											
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST		C											
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST		C											
10	AMS	100	SG	2	% w/w	17	lb/100 gal	POST		C											
11	VALOR XLT	40.3	WG			3	oz/a	4-6"	MT	B		0 a	0 a	70 d	90 b	92 abc	90 ab				
11	VALOR SX	51	WG	0.056	lb ai/a			4-6"	MT	B											
11	CLASSIC	25	WG	0.0194	lb ai/a			4-6"	MT	B											
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	4-6"	MT	B											
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"	MT	B											
11	MSO	100	SL	1	% v/v	1	% v/v	4-6"	MT	B											
11	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"	MT	B											
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11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST		C											
11	AMS	100	SG	2	% w/w	17	lb/100 gal	POST		C											
LSD (P=.05)													0.0	0.0	6.4	3.1	5.0	7.3			
Replicate F													0.000	0.000	0.092	0.959	0.781	0.971			
Replicate Prob(F)													1.0000	1.0000	0.9125	0.4002	0.4716	0.3959			
Treatment F													0.000	0.000	149.855	784.648	282.258	112.446			
Treatment Prob(F)													1.0000	1.0000	0.0001	0.0001	0.0001	0.0001			

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

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Pest Code		Crop Code		Rating Date		Rating Data Type		Rating Unit		Rating Timing		Trt-Eval Interval		AMATA-HR	AMATA-HR
												Control	Control		
												Percent	Percent		
												42 DAT	63 DAT		
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 c		
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A			0 d	33 b		
2	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	ROSETTE	A						
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	ROSETTE	A						
2	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
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2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
2	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
3	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	ROSETTE	A			3 d	37 b		
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
3	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
3	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
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3	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
4	SHARPEN	2.85	SC	0.0334	lb ai/a	1.5	fl oz/a	ROSETTE	A			30 c	38 ab		
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
4	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
4	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
4	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
5	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	ROSETTE	A			27 c	35 b		
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
5	MSO	100	SL	1	% v/v	1	% v/v	ROSETTE	A						
5	AMS	100	SG	2	% w/w	17	lb/100 gal	ROSETTE	A						
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5	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
6	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	ROSETTE	A			33 bc	38 ab		
6	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	ROSETTE	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	ROSETTE	A						
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6	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
7	VALOR XLT	40.3	WG			3	oz/a	ROSETTE	A			43 ab	30 b		
7	VALOR SX	51	WG	0.056	lb ai/a			ROSETTE	A						
7	CLASSIC	25	WG	0.0194	lb ai/a			ROSETTE	A						
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7	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	4-6"MT	B			0 d	28 b		
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	B						
8	MSO	100	SL	1	% v/v	1	% v/v	4-6"MT	B						
8	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"MT	B						
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8	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						
9	SHARPEN	2.85	SC	0.0334	lb ai/a	1.5	fl oz/a	4-6"MT	B			0 d	32 b		
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	B						
9	MSO	100	SL	1	% v/v	1	% v/v	4-6"MT	B						
9	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"MT	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C						
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C						
9	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C						

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Pest Code		AMATA-HR	AMATA-HR
Crop Code			
Rating Date			
Rating Data Type		Control	Control
Rating Unit		Percent	Percent
Rating Timing			
Trt-Eval Interval		42 DAT	63 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
10	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a	4-6"MT	B	23	c
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	B		
10	MSO	100	SL	1	% v/v	1	% v/v	4-6"MT	B		
10	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"MT	B		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
10	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C		
10	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C		
11	VALOR XLT	40.3	WG			3	oz/a	4-6"MT	B	52	a
11	VALOR SX	51	WG	0.056	lb ai/a			4-6"MT	B		
11	CLASSIC	25	WG	0.0194	lb ai/a			4-6"MT	B		
11	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	4-6"MT	B		
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4-6"MT	B		
11	MSO	100	SL	1	% v/v	1	% v/v	4-6"MT	B		
11	AMS	100	SG	2	% w/w	17	lb/100 gal	4-6"MT	B		
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	POST	C		
11	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	POST	C		
11	AMS	100	SG	2	% w/w	17	lb/100 gal	POST	C		

LSD (P=.05)

10.8 12.1

Replicate F

1.144 0.468

Replicate Prob(F)

0.3384 0.6328

Treatment F

27.876 8.885

Treatment Prob(F)

0.0001 0.0001

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

Trial Comments

1. Protocol: BASF.
2. Ratings: CI 2-3, 6-8, and 10-12 WAT; WC 5-7 DAT and 2-3, 6-8, and 10-12 WAT.
3. Record percent residue cover over entire plot area at application.
 - At application A, 90% residue cover, mostly wheat.
 - At application A, ERICA was 90% rosette.
 - At application B, 90% residue cover, mostly wheat.
4. POST application after 6-8 week evaluation.
5. Plant soybeans at 14 DA-B.
6. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
7. DAT = Days after either the ROSETTE or 4-6"MT application.
 - Ratings at 14 days after the ROSETTE and 4-6"MT applications were on 5-4-11 and 5-13-11, respectively.
 - Ratings at 42 days after the ROSETTE and 4-6"MT applications were on 6-1-11 and 6-10-11, respectively and prior to the POST application.
 - Ratings at 63 days after the ROSETTE and 4-6"MT applications were on 6-22-11 and 7-1-11, respectively.
 - Ratings at 63 days after the ROSETTE and 4-6"MT applications were also 12 and 21 days after the POST application, respectively.
 - For ERICA-HR ratings at 42 and 63 DAT control decreased primarily due to new emergence with a slight decrease in control due to regrowth.
8. Not possible to rate crop injury at 14 DAT as crop had yet to be planted.
9. Not harvested.