

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 4-23-14 Completion Date: 11-1-14	Trial Location City: Murphysboro Country: USA State/Prov.: Illinois IL Postal Code: 62966
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Objectives: Compare Authority product lines in combination with Sharpen for burndown and residual control of glyphosate-resistant marestail.
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Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop 1: GLXMA Glycine max Variety: AG3832 Description: RR2Y	Soybean BBCH Scale: BSOY Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Crop Description Planting Date: 5-6-14 Planting Method: SEEDED
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Pest 1 Type: W Code: TTTTT Common Name: weeds, generally Description: overall weed control	Pest 2 Type: W Code: ERICA Conyza canadensis (L.) Crong. Common Name: horseweed Description: glyphosate-resistant marestail	Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common Description: glyphosate-resistant waterhemp
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Treated Plot Width: 6.67 FT Treated Plot Length: 30 FT	Total Plot Width: 10 FT Total Plot Length: 30 FT	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block								
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2013</td> </tr> </tbody> </table>			No.	Previous Crop	Year	1.	GLXMA	2013
No.	Previous Crop	Year						
1.	GLXMA	2013						

<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A				

% OM: 1.87 pH: 5.5 CEC: 7.06	Texture: SIL silt loam Soil Name: Alvin	Soil Description									
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>172</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>446</td> <td>lb/A</td> </tr> </tbody> </table>			Element	Quantity	Unit	P1	172	lb/A	K	446	lb/A
Element	Quantity	Unit									
P1	172	lb/A									
K	446	lb/A									
Additional Measured Elements											

Overall Moisture Conditions: NORMAL Closest Weather Station: SOUTHERN IL AIRPORT (93810)	Moisture and Weather Conditions Distance, Unit: 3.5 MI
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Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-14	3.44	IN	RAIN	rain	4	DAY			
2.	4-1-14					7	DAY	37	70	F
3.	4-7-14	0.64	IN	RAIN	rain	2	DAY			
4.	4-8-14					7	DAY	42	76	F
5.	4-13-14	0.57	IN	RAIN	rain	2	DAY			
6.	4-15-14					7	DAY	31	77	F
7.	4-22-14					7	DAY	41	77	F
8.	4-24-14	1.13	IN	RAIN	rain	2	DAY			
9.	4-27-14	2.02	IN	RAIN	rain	2	DAY			
10.	4-29-14					7	DAY	39	84	F
11.	5-6-14					7	DAY	54	83	F
12.	5-8-14	1.25	IN	RAIN	rain	2	DAY			
13.	5-11-14	0.34	IN	RAIN	rain	1	DAY			
14.	5-13-14	2.53	IN	RAIN	rain	3	DAY			
15.	5-13-14					7	DAY	39	80	F
16.	5-20-14					7	DAY	46	85	F
17.	5-22-14	0.06	IN	RAIN	rain	1	DAY			
18.	5-25-14	0.07	IN	RAIN	rain	2	DAY			
19.	5-27-14					7	DAY	62	88	F
20.	5-30-14	0.09	IN	RAIN	rain	1	DAY			
21.	6-1-14	0.66	IN	RAIN	rain	2	DAY			
22.	6-3-14					7	DAY	64	88	F
23.	6-4-14	0.91	IN	RAIN	rain	1	DAY			
24.	6-7-14	0.32	IN	RAIN	rain	1	DAY			
25.	6-9-14	0.71	IN	RAIN	rain	2	DAY			
26.	6-10-14					7	DAY	51	91	F
27.	6-12-14	0.06	IN	RAIN	rain	1	DAY			
28.	6-17-14					7	DAY	69	93	F
29.	6-24-14	1.69	IN	RAIN	rain	1	DAY			
30.	6-24-14					7	DAY	67	92	F
31.	6-29-14	0.08	IN	RAIN	rain	1	DAY			
32.	7-1-14	0.81	IN	RAIN	rain	1	DAY			
33.	7-1-14					7	DAY	55	90	F
34.	7-8-14	0.15	IN	RAIN	rain	1	DAY			
35.	7-13-14	0.71	IN	RAIN	rain	2	DAY			
36.	7-15-14					7	DAY	54	85	F
37.	7-22-14					7	DAY	56	91	F
38.	7-23-14	0.16	IN	RAIN	rain	1	DAY			
39.	7-29-14					7	DAY	55	87	F
40.	8-5-14	0.13	IN	RAIN	rain	1	DAY			
41.	8-5-14					7	DAY	63	89	F
42.	8-7-14	1.95	IN	RAIN	rain	3	DAY			
43.	8-11-14	0.19	IN	RAIN	rain	1	DAY			
44.	8-12-14					7	DAY	56	84	F
45.	8-16-14	0.77	IN	RAIN	rain	2	DAY			
46.	8-19-14					7	DAY	66	93	F
47.	8-26-14					7	DAY	68	94	F
48.	8-28-14	0.02	IN	RAIN	rain	1	DAY			
49.	8-30-14	0.49	IN	RAIN	rain	1	DAY			
50.	9-2-14					7	DAY	50	93	F
51.	9-9-14					7	DAY	43	85	F
52.	9-10-14	1.96	IN	RAIN	rain	2	DAY			
53.	9-16-14					7	DAY	43	85	F
54.	9-21-14	0.07	IN	RAIN	rain	1	DAY			
55.	9-23-14					7	DAY	42	86	F
56.	9-30-14					7	DAY	35	86	F
57.	10-2-14	0.52	IN	RAIN	rain	2	DAY			
58.	10-6-14	0.08	IN	RAIN	rain	2	DAY			
59.	10-7-14					7	DAY	45	81	F
60.	10-9-14	0.66	IN	RAIN	rain	4	DAY			
61.	10-13-14	0.98	IN	RAIN	rain	3	DAY			
62.	10-14-14					7	DAY	35	76	F
63.	10-21-14					7	DAY	33	81	F
64.	10-28-14	0.55	IN	RAIN	rain	1	DAY			
65.	10-28-14					7	DAY	22	70	F
66.	11-4-14	0.84	IN	RAIN	rain	1	DAY			
67.	11-4-14					7	DAY	24	69	F

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
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Application Description

	A	B	C
Application Date:	4-23-14	5-29-14	5-29-14
Appl. Start Time:	19:00	19:00	19:00
Appl. Stop Time:	19:30	19:30	19:30
Application Method:	Spray	Spray	Spray
Application Timing:	14DBP	V2	2-4"W
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RJW	EAE	EAE
Air Temperature, Unit:	60 F	82 F	82 F
% Relative Humidity:	50	80	80
Wind Velocity, Unit:	2 MPH	2 MPH	2 MPH
Wind Direction:	W	S	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	67 F	80 F	80 F
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	35	50	50
Next Moisture Occurred On:	4-24-14	5-30-14	5-30-14
Time to Next Moisture, Unit:	23 HR	22 HR	22 HR

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:		V2	V2
Stage Minimum, Percent:		V2	V2
Stage Maximum, Percent:		V2	V2
Height, Unit:		5 IN	5 IN
Height Minimum, Maximum:		4 5	4 5

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	TTTTT W	TTTTT W	TTTTT W
Stage Majority, Percent:	NA	NA	NA
Pest 2 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	10	10	10
Stage Minimum, Percent:	2	4	4
Stage Maximum, Percent:	20	12	12
Height, Unit:	2 IN	3 IN	3 IN
Height Minimum, Maximum:	0.5 3	1 4	1 4
Density, Unit:	0.1 FT2	0.01 FT2	0.01 FT2
Pest 3 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	10	10
Stage Minimum, Percent:		16	16
Stage Maximum, Percent:		4	4
Height, Unit:		4 IN	4 IN
Height Minimum, Maximum:		1 6	1 6
Density, Unit:		10 FT2	10 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

Southern Illinois University

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA 11-1-14 Moisture Percent	GLXMA 11-1-14 Test wt lb/bu	GLXMA 11-1-14 Yield bu/A	GLXMA 6-13-14 Injury Percent 15 DA-B	GLXMA 6-28-14 Injury Percent 30 DA-B
Trt	Treatment No. Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	AUTHORITY MAXX SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	66 WG 2.85 SC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.248 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		6 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.6 a	57.2 a	46 ab 9 bcd 0 c
2	AUTHORITY XL SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	70 WG 2.85 SC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.263 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		6 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.9 a	57.0 abc	45 ab 14 abc 2 ab
3	VALOR XLT SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS COBRA ROUNDUP PMAX N-PAK AMS	40.3 WG 2.85 SC 4.5 SL 100 SL 100 SL 2 EC 4.5 SL 100 SL		0.101 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.156 lb ai/a 1.13 lb ae/a 2.5 % v/v		4 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 10 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.8 a	57.1 ab	44 b 14 ab 1 bc
4	AUTHORITY FIRST DF SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	70 WG 2.85 SC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.28 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		6.4 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.9 a	56.9 bc	50 ab 11 abc 1 bc
5	AUTHORITY ELITE SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	7 SC 2.85 SC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		1.53 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		28 fl oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.7 a	57.2 ab	48 ab 4 d 0 c
6	AUTHORITY MTZ SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	45 WG 2.85 SC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.394 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		14 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.6 a	57.2 a	49 ab 4 d 0 c
7	AUTHORITY ASSIST SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	4 SC 2.85 SC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.28 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		9 fl oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		15.0 a	57.0 abc	46 ab 12 abc 3 a

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing								GLXMA 11-1-14 Moisture Percent	GLXMA 11-1-14 Test wt lb/bu	GLXMA 11-1-14 Yield bu/A	GLXMA 6-13-14 Injury Percent 15 DA-B	GLXMA 6-28-14 Injury Percent 30 DA-B		
Trt-Eval Interval											15 DA-C	30 DA-C		
Trt	Treatment No. Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code					
8	AUTHORITY MAXX SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS ANTHEM ROUNDUP PMAX N-PAK AMS	66 WG 2.85 SC 4.5 SL 100 SL 100 SL 2.15 SE 4.5 SL 100 SL		0.248 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.101 lb ai/a 1.13 lb ae/a 2.5 % v/v		6 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 6 fl oz/a 32 fl oz/a 2.5 % v/v		14DBP A 14DBP A 14DBP A 14DBP A 14DBP A V2 B V2 B V2 B		14.5 a	57.2 a	46 ab	15 a	2 ab
9	AUTHORITY FIRST DF VERDICT ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	70 WG 5.57 EC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.28 lb ai/a 0.218 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		6.4 oz/a 5 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v		14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.7 a	57.2 a	50 ab	11 abc	2 abc
10	AUTHORITY MAXX SENCOR 2,4-D LV 4 ROUNDUP PMAX COC (PRIME OIL) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	66 WG 75 WG 3.8 EC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0.206 lb ai/a 0.234 lb ai/a 0.475 lb ae/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v		5 oz/a 5 oz/a 16 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v		14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C		14.7 a	57.1 ab	53 a	8 cd	0 c
11	NONTREATED									15.0 a	56.8 c	14 c	0	0
LSD (P=.05)								0.56	0.26	9.1	5.9	1.7		
Standard Deviation								0.39	0.18	6.3	4.1	1.2		
CV								2.64	0.32	14.18	40.09	132.51		
Replicate F								0.125	0.661	1.127	4.377	0.609		
Replicate Prob(F)								0.9443	0.5825	0.3537	0.0123	0.6147		
Treatment F								0.884	2.608	11.166	3.926	2.703		
Treatment Prob(F)								0.5578	0.0206	0.0001	0.0027	0.0220		

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	TTTTT	TTTTT	TTTTT	TTTTT	TTTTT	TTTTT
						5-8-14 Control Percent	5-23-14 Control Percent	6-13-14 Control Percent	6-22-14 Control Percent	6-28-14 Control Percent	7-28-14 Control Percent
						15 DA-A	30 DA-A	15 DA-C	60 DA-A	30 DA-C	60 DA-C
Trt-Eval Interval	Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
	1	AUTHORITY MAXX SHARPEN	66 WG		0.248 lb ai/a	6 oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		96 bcd
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		91 ab
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		86 bc
		MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		84 bc
		ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C		79 cd
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		
	2	AUTHORITY XL SHARPEN	70 WG		0.263 lb ai/a	6 oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		98 a
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		96 ab
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		94 a
		MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		93 ab
		ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C		92 ab
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		
	3	VALOR XLT SHARPEN	40.3 WG		0.101 lb ai/a	4 oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		97 abc
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		90 b
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		83 cd
		COBRA	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		75 cd
		ROUNDUP PMAX	2 EC		0.156 lb ai/a	10 fl oz/a			2-4"W C		66 de
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		
	4	AUTHORITY FIRST DF SHARPEN	70 WG		0.28 lb ai/a	6.4 oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		98 abc
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		95 ab
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		93 ab
		MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		92 ab
		ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C		92 ab
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		
	5	AUTHORITY ELITE SHARPEN	7 SC		1.53 lb ai/a	28 fl oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		96 cd
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		90 b
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		85 bc
		MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		81 c
		ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C		80 bc
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		
	6	AUTHORITY MTZ SHARPEN	45 WG		0.394 lb ai/a	14 oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		94 d
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		83 c
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		75 d
		MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		71 d
		ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C		66 e
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		
	7	AUTHORITY ASSIST SHARPEN	4 SC		0.28 lb ai/a	9 fl oz/a			14DBP A		99 a
		ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A		98 a
		MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A		96 ab
		N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A		95 a
		MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A		93 a
		ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C		92 a
		N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C		
			100 SL		2.5 % v/v	2.5 % v/v			2-4"W C		

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Southern Illinois University

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR
								5-8-14 Control Percent	5-23-14 Control Percent	6-13-14 Control Percent	6-22-14 Control Percent	6-28-14 Control Percent	7-28-14 Control Percent
								15 DA-A	30 DA-A	15 DA-C	24 DA-BC 60 DA-A	30 DA-B 30 DA-C	60 DA-B 60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	AUTHORITY MAXX SHARPEN	66 WG		0.248 lb ai/a	6 oz/a		14DBP A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						
2	AUTHORITY XL SHARPEN	70 WG		0.263 lb ai/a	6 oz/a		14DBP A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						
3	VALOR XLT SHARPEN	40.3 WG		0.101 lb ai/a	4 oz/a		14DBP A		99 a	99 a	99 a	98 a	97 abc
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	COBRA	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	2 EC		0.156 lb ai/a	10 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						
4	AUTHORITY FIRST DF SHARPEN	70 WG		0.28 lb ai/a	6.4 oz/a		14DBP A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						
5	AUTHORITY ELITE SHARPEN	7 SC		1.53 lb ai/a	28 fl oz/a		14DBP A		99 a	99 a	99 a	99 a	97 abc
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						
6	AUTHORITY MTZ SHARPEN	45 WG		0.394 lb ai/a	14 oz/a		14DBP A		99 a	99 a	99 a	99 a	95 c
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						
7	AUTHORITY ASSIST SHARPEN	4 SC		0.28 lb ai/a	9 fl oz/a		14DBP A		99 a	98 b	99 a	99 a	98 ab
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a		14DBP A						
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a		14DBP A						
	N-PAK AMS	100 SL		1 % v/v	1 % v/v		14DBP A						
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v		14DBP A						
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a		2-4"W C						
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W C						
		100 SL		2.5 % v/v	2.5 % v/v		2-4"W C						

Southern Illinois University

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							ERICA-HR 5-8-14 Control Percent 15 DA-A	ERICA-HR 5-23-14 Control Percent 30 DA-A	ERICA-HR 6-13-14 Control Percent 15 DA-B 15 DA-C	ERICA-HR 6-22-14 Control Percent 24 DA-BC 60 DA-A	ERICA-HR 6-28-14 Control Percent 30 DA-B 30 DA-C	ERICA-HR 7-28-14 Control Percent 60 DA-B 60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate Rate	Other Rate Rate	Unit Unit	Growth Stage	Appl Code		
8	AUTHORITY MAXX SHARPEN ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS ANTHEM ROUNDUP PMAX N-PAK AMS	66 WG 2.85 SC 4.5 SL 100 SL 100 SL 2.15 SE 4.5 SL 100 SL		0 248 lb ai/a 0.0223 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.101 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v v/v ai/a ae/a v/v	6 oz/a 1 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 6 fl oz/a 32 fl oz/a 2.5 % v/v		ai/a oz/a oz/a v/v v/v oz/a oz/a v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A V2 B V2 B V2 B			99 a 99 a 97 b 98 a 96 a 96 bc
9	AUTHORITY FIRST DF VERDICT ROUNDUP PMAX MSO (MSO ULTRA) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	70 WG 5.57 EC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0 28 lb ai/a 0.218 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v v/v ai/a ae/a v/v	6.4 oz/a 5 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v		ai/a oz/a oz/a v/v v/v oz/a oz/a v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C			99 a 99 a 99 a 99 a 99 a 99 a 99 a
10	AUTHORITY MAXX SENCOR 2,4-D LV 4 ROUNDUP PMAX COC (PRIME OIL) N-PAK AMS MARVEL ROUNDUP PMAX N-PAK AMS	66 WG 75 WG 3.8 EC 4.5 SL 100 SL 100 SL 3 SL 4.5 SL 100 SL		0 206 lb ai/a 0 234 lb ai/a 0.475 lb ae/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.17 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a ae/a v/v v/v ai/a ae/a v/v	5 oz/a 5 oz/a 16 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 7.25 fl oz/a 32 fl oz/a 2.5 % v/v		ai/a oz/a oz/a oz/a v/v v/v oz/a oz/a v/v	14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 14DBP A 2-4"W C 2-4"W C 2-4"W C			99 a 99 a 99 a 99 a 98 a 97 abc
11	NONTREATED											0 0 0 0 0 0
LSD (P=.05)												0.5 0.3 0.32
Standard Deviation												0.4 0.3 0.31
CV												1.4 1.0 0.99
Replicate F												1.7 1.2 1.17
Replicate Prob(F)												2.5 1.7 1.76
Treatment F												2.8 2.0 2.01
Treatment Prob(F)												1.000 0.4079 1.000 0.4635
												1.800 0.1710 2.520 0.0305
												1.547 0.2252 2.625 0.0253
												0.669 0.5782 0.868 0.5643
												2.423 0.0877 1.622 0.1590
												1.763 0.1779 2.424 0.0363

Southern Illinois University

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
							5-8-14 Control Percen	5-23-14 Control Percent	6-13-14 Control Percent	6-22-14 Control Percent	6-28-14 Control Percen	7-28-14 Control Percen
							15 DA-A	30 DA-A	15 DA-C	24 DA-BC	30 DA-C	60 DA-B
							60 DA-C					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	AUTHORITY MAXX SHARPEN	66 WG		0.248 lb ai/a	6 oz/a			14DBP A		99 a	95 cde	91 bc
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			86 bc	85 bc
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				79 cd
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				
2	AUTHORITY XL SHARPEN	70 WG		0.263 lb ai/a	6 oz/a			14DBP A		99 a	97 abc	96 ab
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			94 a	93 ab
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				92 ab
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				
3	VALOR XLT SHARPEN	40.3 WG		0.101 lb ai/a	4 oz/a			14DBP A		99 a	96 bcd	89 c
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			83 c	76 cd
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				68 d
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	COBRA	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	2 EC		0.156 lb ai/a	10 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				
4	AUTHORITY FIRST DF SHARPEN	70 WG		0.28 lb ai/a	6.4 oz/a			14DBP A		99 a	97 abc	95 ab
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			93 ab	92 ab
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				92 ab
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				
5	AUTHORITY ELITE SHARPEN	7 SC		1.53 lb ai/a	28 fl oz/a			14DBP A		99 a	95 de	91 bc
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			85 bc	83 c
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				81 bc
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				
6	AUTHORITY MTZ SHARPEN	45 WG		0.394 lb ai/a	14 oz/a			14DBP A		99 a	93 e	87 c
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			75 d	73 d
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				67 d
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				
7	AUTHORITY ASSIST SHARPEN	4 SC		0.28 lb ai/a	9 fl oz/a			14DBP A		99 a	98 a	96 ab
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a	1 fl oz/a			14DBP A			95 a	95 a
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a	32 fl oz/a			14DBP A				94 a
	N-PAK AMS	100 SL		1 % v/v	1 % v/v			14DBP A				
	MARVEL	100 SL		2.5 % v/v	2.5 % v/v			14DBP A				
	ROUNDUP PMAX	3 SL		0.17 lb ai/a	7.25 fl oz/a			2-4"W C				
	N-PAK AMS	4.5 SL		1.13 lb ae/a	32 fl oz/a			2-4"W C				
		100 SL		2.5 % v/v	2.5 % v/v			2-4"W C				

Southern Illinois University

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
							5-8-14 Control Percen	5-23-14 Control Percent	6-13-14 Control Percent	6-22-14 Control Percent	6-28-14 Control Percen	7-28-14 Control Percen
							15 DA-A	30 DA-A	15 DA-B	24 DA-BC	30 DA-C	60 DA-B
							15 DA-A	30 DA-A	15 DA-C	60 DA-A	30 DA-C	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Unit Unit	Growth Stage	Appl Code		
8	AUTHORITY MAXX SHARPEN	66 WG		0.248 lb ai/a		6 oz/a			14DBP A			
	ROUNDUP PMAX	2.85 SC		0.0223 lb ai/a		1 fl oz/a			14DBP A			
	MSO (MSO ULTRA)	4.5 SL		1.13 lb ae/a		32 fl oz/a			14DBP A			
	N-PAK AMS	100 SL		1 % v/v		1 % v/v			14DBP A			
	ANTHEM	100 SL		2.5 % v/v		2.5 % v/v			14DBP A			
	ROUNDUP PMAX	2.15 SE		0.101 lb ai/a		6 fl oz/a			V2 B			
	N-PAK AMS	4.5 SL		1.13 lb ae/a		32 fl oz/a			V2 B			
		100 SL		2.5 % v/v		2.5 % v/v			V2 B			
9	AUTHORITY FIRST DF	70 WG		0.28 lb ai/a		6.4 oz/a			14DBP A			
	VERDICT	5.57 EC		0.218 lb ai/a		5 fl oz/a			14DBP A			
	ROUNDUP PMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a			14DBP A			
	MSO (MSO ULTRA)	100 SL		1 % v/v		1 % v/v			14DBP A			
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v			14DBP A			
	MARVEL	3 SL		0.17 lb ai/a		7.25 fl oz/a			2-4"W C			
	ROUNDUP PMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a			2-4"W C			
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v			2-4"W C			
10	AUTHORITY MAXX	66 WG		0.206 lb ai/a		5 oz/a			14DBP A			
	SENCOR	75 WG		0.234 lb ai/a		5 oz/a			14DBP A			
	2,4-D LV 4	3.8 EC		0.475 lb ae/a		16 fl oz/a			14DBP A			
	ROUNDUP PMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a			14DBP A			
	COC (PRIME OIL)	100 SL		1 % v/v		1 % v/v			14DBP A			
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v			14DBP A			
	MARVEL	3 SL		0.17 lb ai/a		7.25 fl oz/a			2-4"W C			
	ROUNDUP PMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a			2-4"W C			
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v			2-4"W C			
11	NONTREATED											
LSD (P=.05)							0.0	2.0	5.8	7.9	8.8	12.2
Standard Deviation							0.0	1.4	4.0	5.4	6.1	8.4
CV							0.0	1.45	4.26	6.07	6.91	9.93
Replicate F							0.000	0.696	1.346	1.579	2.093	1.375
Replicate Prob(F)							1.0000	0.5624	0.2803	0.2175	0.1246	0.2715
Treatment F							0.000	4.501	3.358	6.405	7.293	5.951
Treatment Prob(F)							1.0000	0.0011	0.0070	0.0001	0.0001	0.0001

Authority Sharpen Combinations.

Trial ID: 14-FagerS-FMC-AuthSharpen Location: Murphysboro, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: FMC (Authority Sharpen Combinations SIU).
2. Ratings: CI 30 DA-A, 15 and 30 DA-B and DA-C;
WC 15, 30, and 60 DA-A, 15, 30, and 60 DA-B and DA-C.
3. Yield if possible.
4. TTTTTT = Weeds generally, overall weed control.
ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
5. Following the 14DBP application the first rainfall event was 3.15 inch over the next 5 days.
Following the V2 and 2-4"W applications the first rainfall event was 1.66 inch over the next 6 days.
6. Harvested 11-1-14, (2) 30 inch rows by 27 ft.