

Southern Illinois University

General Evaluation of Fall Herbicides in Corn.

Trial ID: 13-YRC-FP-GenFallCorn Location: Young Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 11-19-12 Completion Date: 6-26-13	Trial Location City: Murphysboro Country: USA State/Prov.: Illinois IL Postal Code: 62966
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Objectives:
Evaluate fall herbicide applications in combination with PRE applications in corn.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA	Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu
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Crop 1: ZEAMD Zea mays indentata Dent corn Variety: DKC 63-33 Description: SS RIB Planting Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN	Crop Description Planting Date: 5-1-13 Planting Method: SEEDED
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Pest 1 Type: W Code: ERICA - Conyza canadensis (L.) Crong. Common Name: horseweed Description: glyphosate-resistant marestail Pest 2 Type: W Code: LAMAM - Lamium amplexicaule L. Common Name: henbit Pest 3 Type: W Code: STEME - Stellaria media (L.) Vill. Common Name: chickweed, common Pest 4 Type: W Code: VERAR Veronica arvensis L. Common Name: speedwell, corn Pest 5 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common Description: glyphosate-resistant waterhemp	Pest Description
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Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Treated Plot Length: 25 FT Total Plot Length: 25 FT Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)
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No.	Previous Crop	Year
1.	ZEAMD	2012

Maintenance <table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A
No.	Maintenance Product Name			
1.	N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A			

% OM: 1.82 Texture: SIL silt loam pH: 6.2 Soil Name: Alvin CEC: 6.16	Soil Description
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Element	Quantity	Unit
P1	154	lb/A
K	264	lb/A

Overall Moisture Conditions: NORMAL Closest Weather Station: SOUTHERN IL AIRPORT (93810)	Moisture and Weather Conditions Distance, Unit: 3.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	10-1-12					7	DAY	36	80	F
2.	10-1-12	1.07	IN	RAIN	rain	5	DAY			
3.	10-8-12					7	DAY	32	79	F
4.	10-11-12	1.01	IN	RAIN	rain	4	DAY			
5.	10-15-12					7	DAY	45	79	F
6.	10-17-12	0.99	IN	RAIN	rain	4	DAY			
7.	10-22-12					7	DAY	34	81	F
8.	10-25-12	0.7	IN	RAIN	rain	2	DAY			
9.	10-29-12					7	DAY	28	62	F
10.	11-5-12					7	DAY	29	71	F
11.	11-5-12	0.09	IN	RAIN	rain	3	DAY			
12.	11-11-12	1.49	IN	RAIN	rain	2	DAY			
13.	11-12-12					7	DAY	24	62	F
14.	11-19-12					7	DAY	24	66	F
15.	11-22-12	0.11	IN	RAIN	rain	5	DAY			
16.	11-26-12					7	DAY	21	66	F
17.	12-3-12					7	DAY	31	68	F
18.	12-4-12	0.26	IN	RAIN	rain	4	DAY			
19.	12-9-12	1.09	IN	RAIN	rain	8	DAY			
20.	12-10-12					7	DAY	23	59	F
21.	12-17-12					7	DAY	19	63	F
22.	12-20-12	0.35	IN	RAIN	rain	4	DAY			
23.	12-24-12					7	DAY	8	47	F
24.	12-28-12	0.83	IN	RAIN	rain	6	DAY			
25.	12-31-12					7	DAY	13	40	F
26.	1-7-13					7	DAY	19	64	F
27.	1-10-13	0.57	IN	RAIN	rain	3	DAY			
28.	1-12-13	2.66	IN	RAIN	rain	2	DAY			
29.	1-14-13					7	DAY	22	55	F
30.	1-21-13					7	DAY	16	52	F
31.	1-28-13					7	DAY	13	70	F
32.	1-29-13	2.17	IN	RAIN	rain	4	DAY			
33.	2-4-13					7	DAY	27	66	F
34.	2-7-13	0.25	IN	RAIN	rain	5	DAY			
35.	2-10-13	0.54	IN	RAIN	rain	5	DAY			
36.	2-11-13					7	DAY	24	60	F
37.	2-18-13					7	DAY	23	57	F
38.	2-18-13	1.35	IN	RAIN	rain	4	DAY			
39.	2-25-13					7	DAY	25	54	F
40.	2-26-13	0.67	IN	RAIN	rain	4	DAY			
41.	3-1-13	0.2	IN	RAIN	rain	5	DAY			
42.	3-4-13					7	DAY	26	68	F
43.	3-10-13	0.49	IN	RAIN	rain	2	DAY			
44.	3-11-13					7	DAY	24	74	F
45.	3-17-13	2.87	IN	RAIN	rain	3	DAY			
46.	3-18-13					7	DAY	23	57	F
47.	3-24-13	0.34	IN	RAIN	rain	2	DAY			
48.	3-25-13					7	DAY	24	68	F
49.	3-30-13	0.54	IN	RAIN	rain	2	DAY			
50.	4-1-13					7	DAY	26	75	F
51.	4-8-13					7	DAY	32	81	F
52.	4-10-13	0.85	IN	RAIN	rain	2	DAY			
53.	4-15-13					7	DAY	32	83	F
54.	4-18-13	2.16	IN	RAIN	rain	1	DAY			
55.	4-22-13					7	DAY	32	72	F
56.	4-24-13	0.55	IN	RAIN	rain	2	DAY			
57.	4-27-13	0.37	IN	RAIN	rain	2	DAY			
58.	4-29-13					7	DAY	41	81	F

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59.	5-3-13	1.33	IN	RAIN	rain	3	DAY			
60.	5-5-13	0.75	IN	RAIN	rain	2	DAY			
61.	5-6-13					7	DAY	41	80	F
62.	5-10-13	0.17	IN	RAIN	rain	3	DAY			
63.	5-13-13					7	DAY	37	87	F
64.	5-16-13	0.23	IN	RAIN	rain	2	DAY			
65.	5-20-13					7	DAY	43	85	F
66.	5-21-13	0.91	IN	RAIN	rain	1	DAY			
67.	5-27-13					7	DAY	59	86	F
68.	5-31-13	0.7	IN	RAIN	rain	3	DAY			

Application Description

	A	B
Application Date:	11-19-12	5-1-13
Appl. Start Time:	9:30	16:15
Appl. Stop Time:	10:15	17:00
Application Method:	Spray	Spray
Application Timing:	FALL	PRE
Application Placement:	BROFOL	BROFOL
Applied By:	JRK	EJM
Air Temperature, Unit:	56 F	85 F
% Relative Humidity:	55	42
Wind Velocity, Unit:	0 MPH	5 MPH
Wind Direction:		SW
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	58 F	62 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	90	80
Next Moisture Occurred On:	11-22-12	5-2-13
Time to Next Moisture, Unit:	3 DAY	30 HR

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD	ZEAMD
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	NA

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	12	15
Stage Minimum, Percent:	6	6
Stage Maximum, Percent:	16	25
Height, Unit:	3 IN	5 IN
Height Minimum, Maximum:	2 4	4 8
Density, Unit:	1 FT2	20 FT2
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W
Stage Majority, Percent:	4	6
Stage Minimum, Percent:	2	4
Stage Maximum, Percent:	6	8
Height, Unit:	2 IN	8 IN
Height Minimum, Maximum:	1 3	6 10
Density, Unit:	0.5 FT2	4 FT2
Pest 3 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	6	20
Stage Minimum, Percent:	2	10
Stage Maximum, Percent:	10	40
Height, Unit:	2 IN	8 IN
Height Minimum, Maximum:	1 4	5 12
Density, Unit:	0.3 FT2	5 FT2
Pest 4 Code, Type, Scale:	VERAR W	VERAR W
Stage Majority, Percent:	NA	40
Stage Minimum, Percent:		20
Stage Maximum, Percent:		50+
Height, Unit:		3 IN
Height Minimum, Maximum:		1 4
Density, Unit:		1 FT2
Pest 5 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	2
Stage Minimum, Percent:		2
Stage Maximum, Percent:		2
Height, Unit:		0.5 IN
Height Minimum, Maximum:		0.25 1
Density, Unit:		20 FT2

Application Equipment

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

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Pest Code								ZEAMD	ZEAMD	
Crop Code								5-29-13	6-26-13	
Rating Date								Injury	Injury	
Rating Type								Percent	Percent	
Rating Unit										
Rating Timing										
Trt-Eval Interval								28 DAP	56 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a		FALL	A	0 a	0 a
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v		FALL	A		
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a		PRE	B		
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a		PRE	B		
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v		PRE	B		
2	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a		FALL	A	0 a	0 a
	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a		FALL	A		
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v		FALL	A		
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a		PRE	B		
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a		PRE	B		
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v		PRE	B		
3	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a		FALL	A	0 a	0 a
	BEANOIL	100	SL	0.5 % v/v	0.5 % v/v		FALL	A		
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a		PRE	B		
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a		PRE	B		
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v		PRE	B		
4	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a		FALL	A	0 a	0 a
	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a		FALL	A		
	BEANOIL	100	SL	0.5 % v/v	0.5 % v/v		FALL	A		
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a		PRE	B		
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a		PRE	B		
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v		PRE	B		
5	BASIS BLEND	30	WG	0.0234 lb ai/a	1.25 oz/a		FALL	A	0 a	0 a
	PRINCEP	4	SC	0.5 lb ai/a	1 pt/a		FALL	A		
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a		FALL	A		
	ABUNDIT EXTRA	3	SL	0.375 lb ae/a	16 fl oz/a		FALL	A		
	CINCH ATZ	5.5	SC	2.9 lb ai/a	2.1 qt/a		PRE	B		
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B		
6	BASIS BLEND	30	WG	0.0234 lb ai/a	1.25 oz/a		FALL	A	0 a	0 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a		FALL	A		
	ABUNDIT EXTRA	3	SL	0.375 lb ae/a	16 fl oz/a		FALL	A		
	CINCH ATZ	5.5	SC	2.9 lb ai/a	2.1 qt/a		PRE	B		
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B		
7	PRINCEP	4	SC	1 lb ai/a	32 fl oz/a		FALL	A	0 a	0 a
	TOUCHDOWN TOTAL	4.17	SL	0.78 lb ae/a	24 fl oz/a		FALL	A		
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a		FALL	A		
	AMS	100	SG	1 % w/w	8.5 lb/100 gal		FALL	A		
	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	B		
	GRAMOXONE 2 SL	2	SL	0.75 lb ai/a	48 fl oz/a		PRE	B		
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		PRE	B		
8	TOUCHDOWN TOTAL	4.17	SL	0.78 lb ae/a	24 fl oz/a		FALL	A	0 a	0 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a		FALL	A		
	AMS	100	SG	1 % w/w	8.5 lb/100 gal		FALL	A		
	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	B		
	GRAMOXONE 2 SL	2	SL	0.75 lb ai/a	48 fl oz/a		PRE	B		
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		PRE	B		
9	NONTREATED								0 a	0 a
LSD (P=.05)									0.0	0.0
Standard Deviation									0.0	0.0
CV									0.0	0.0
Replicate F									0.000	0.000
Replicate Prob(F)									1.0000	1.0000
Treatment F									0.000	0.000
Treatment Prob(F)									1.0000	1.0000

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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Trial ID: 13-YRC-FP-GenFallCorn Location: Young Res. Center Trial Year: 2013
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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	
									12-10-12 Control Percent	3-1-13 Control Percent	4-1-13 Control Percent	5-1-13 Control Percent	5-29-13 Control Percent	6-26-13 Control Percent	
									21 DA-A	102 DA-A	133 DA-A	0 DAP	28 DAP	56 DAP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	SIMAZAT 4L	4	SC	1.25	lb ai/a	2.5	pt/a	FALL	A	30 c	37 b	30 c	31 d	93 b	92 b
	BEANOIL	100	SL	0.25	% v/v	0.25	% v/v	FALL	A						
	TRIZMET II	5.5	SC	2.2	lb ai/a	1.6	qt/a	PRE	B						
	QUIK-QUAT	3	SL	0.75	lb ai/a	1	qt/a	PRE	B						
	BEANOIL	100	SL	0.25	% v/v	0.25	% v/v	PRE	B						
2	QUIK-QUAT	3	SL	0.75	lb ai/a	1	qt/a	FALL	A	73 ab	98 a	92 b	76 c	97 a	98 a
	SIMAZAT 4L	4	SC	1.25	lb ai/a	2.5	pt/a	FALL	A						
	BEANOIL	100	SL	0.25	% v/v	0.25	% v/v	FALL	A						
	TRIZMET II	5.5	SC	2.2	lb ai/a	1.6	qt/a	PRE	B						
	QUIK-QUAT	3	SL	0.75	lb ai/a	1	qt/a	PRE	B						
	BEANOIL	100	SL	0.25	% v/v	0.25	% v/v	PRE	B						
3	SIMAZAT 4L	4	SC	1.25	lb ai/a	2.5	pt/a	FALL	A	30 c	37 b	23 d	23 d	93 b	92 b
	BEANOIL	100	SL	0.5	% v/v	0.5	% v/v	FALL	A						
	TRIZMET II	5.5	SC	2.2	lb ai/a	1.6	qt/a	PRE	B						
	QUIK-QUAT	3	SL	0.75	lb ai/a	1	qt/a	PRE	B						
	BEANOIL	100	SL	0.25	% v/v	0.25	% v/v	PRE	B						
4	QUIK-QUAT	3	SL	0.75	lb ai/a	1	qt/a	FALL	A	73 ab	97 a	92 b	76 c	97 a	98 a
	SIMAZAT 4L	4	SC	1.25	lb ai/a	2.5	pt/a	FALL	A						
	BEANOIL	100	SL	0.5	% v/v	0.5	% v/v	FALL	A						
	TRIZMET II	5.5	SC	2.2	lb ai/a	1.6	qt/a	PRE	B						
	QUIK-QUAT	3	SL	0.75	lb ai/a	1	qt/a	PRE	B						
	BEANOIL	100	SL	0.25	% v/v	0.25	% v/v	PRE	B						
5	BASIS BLEND	30	WG	0.0234	lb ai/a	1.25	oz/a	FALL	A	77 a	99 a	99 a	94 a	98 a	98 a
	PRINCEP	4	SC	0.5	lb ai/a	1	pt/a	FALL	A						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FALL	A						
	ABUNDIT EXTRA	3	SL	0.375	lb ae/a	16	fl oz/a	FALL	A						
	CINCH ATZ	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	B						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE	B						
6	BASIS BLEND	30	WG	0.0234	lb ai/a	1.25	oz/a	FALL	A	72 b	99 a	98 a	88 ab	98 a	99 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FALL	A						
	ABUNDIT EXTRA	3	SL	0.375	lb ae/a	16	fl oz/a	FALL	A						
	CINCH ATZ	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	B						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE	B						
7	PRINCEP	4	SC	1	lb ai/a	32	fl oz/a	FALL	A	73 ab	99 a	99 a	96 a	99 a	99 a
	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	FALL	A						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FALL	A						
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A						
	LEXAR EZ	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	B						
	GRAMOXONE 2 SL	2	SL	0.75	lb ai/a	48	fl oz/a	PRE	B						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	PRE	B						
8	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	FALL	A	72 b	99 a	99 a	80 bc	99 a	99 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FALL	A						
	AMS	100	SG	1	% w/w	8.5	lb/100 gal	FALL	A						
	LEXAR EZ	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	B						
	GRAMOXONE 2 SL	2	SL	0.75	lb ai/a	48	fl oz/a	PRE	B						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	PRE	B						
9	NONTREATED									0 d	0 c	0 e	0 e	0 c	0 c
LSD (P=.05)									5.0	4.3	3.9	10.6	1.8	3.1	
Standard Deviation									2.9	2.5	2.2	6.1	1.0	1.8	
CV									5.2	3.4	3.18	9.81	1.18	2.07	
Replicate F									7.000	3.469	0.675	0.391	0.757	2.286	
Replicate Prob(F)									0.0065	0.0560	0.5232	0.6828	0.4853	0.1339	
Treatment F									283.750	707.987	973.375	97.560	3053.189	993.650	
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								LAMAM 12-10-12 Control Percent 21 DA-A	LAMAM 3-1-13 Control Percent 102 DA-A	LAMAM 4-1-13 Control Percent 133 DA-A	LAMAM 5-1-13 Control Percent 0 DAP
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code		
1	SIMAZAT 4L BEANOIL TRIZMET II QUIK-QUAT BEANOIL	4 100 5.5 3 100	SC SL SC SL SL	1.25 0.25 2.2 0.75 0.25	lb ai/a % v/v lb ai/a lb ai/a % v/v	2.5 0.25 1.6 1 0.25	pt/a % v/v qt/a qt/a % v/v	FALL FALL PRE PRE PRE	A A B B B	33 d	96 b
2	QUIK-QUAT SIMAZAT 4L BEANOIL TRIZMET II QUIK-QUAT BEANOIL	3 4 100 5.5 3 100	SL SC SL SC SL SL	0.75 1.25 0.25 2.2 0.75 0.25	lb ai/a lb ai/a % v/v lb ai/a lb ai/a % v/v	1 2.5 0.25 1.6 1 0.25	qt/a pt/a % v/v qt/a qt/a % v/v	FALL FALL FALL PRE PRE PRE	A A A B B B	80 abc	99 a
3	SIMAZAT 4L BEANOIL TRIZMET II QUIK-QUAT BEANOIL	4 100 5.5 3 100	SC SL SC SL SL	1.25 0.5 2.2 0.75 0.25	lb ai/a % v/v lb ai/a lb ai/a % v/v	2.5 0.5 1.6 1 0.25	pt/a % v/v qt/a qt/a % v/v	FALL FALL PRE PRE PRE	A A B B B	33 d	98 a
4	QUIK-QUAT SIMAZAT 4L BEANOIL TRIZMET II QUIK-QUAT BEANOIL	3 4 100 5.5 3 100	SL SC SL SC SL SL	0.75 1.25 0.5 2.2 0.75 0.25	lb ai/a lb ai/a % v/v lb ai/a lb ai/a % v/v	1 2.5 0.5 1.6 1 0.25	qt/a pt/a % v/v qt/a qt/a % v/v	FALL FALL FALL PRE PRE PRE	A A A B B B	85 a	99 a
5	BASIS BLEND PRINCEP 2,4-D LV 4 ABUNDIT EXTRA CINCH ATZ ABUNDIT EXTRA	30 4 3.8 3 5.5 3	WG SC EC SL SC SL	0.0234 0.5 0.475 0.375 2.9 0.75	lb ai/a lb ai/a lb ae/a lb ae/a lb ai/a lb ae/a	1.25 1 16 16 2.1 32	oz/a pt/a fl oz/a fl oz/a qt/a fl oz/a	FALL FALL FALL FALL PRE PRE	A A A A B B	75 bc	99 a
6	BASIS BLEND 2,4-D LV 4 ABUNDIT EXTRA CINCH ATZ ABUNDIT EXTRA	30 3.8 3 5.5 3	WG EC SL SC SL	0.0234 0.475 0.375 2.9 0.75	lb ai/a lb ae/a lb ae/a lb ai/a lb ae/a	1.25 16 16 2.1 32	oz/a fl oz/a fl oz/a qt/a fl oz/a	FALL FALL FALL PRE PRE	A A A B B	73 c	99 a
7	PRINCEP TOUCHDOWN TOTAL 2,4-D LV 4 AMS LEXAR EZ GRAMOXONE 2 SL NIS (ACTIVATOR 90)	4 4.17 3.8 100 3.7 2 100	SC SL EC SG SC SL SL	1 0.78 0.475 1 2.78 0.75 0.25	lb ai/a lb ae/a lb ae/a % w/w lb ai/a lb ai/a % v/v	32 24 16 8.5 3 48 0.25	fl oz/a fl oz/a fl oz/a lb/100 gal qt/a fl oz/a % v/v	FALL FALL FALL FALL PRE PRE PRE	A A A A B B B	85 a	99 a
8	TOUCHDOWN TOTAL 2,4-D LV 4 AMS LEXAR EZ GRAMOXONE 2 SL NIS (ACTIVATOR 90)	4.17 3.8 100 3.7 2 100	SL EC SG SC SL SL	0.78 0.475 1 2.78 0.75 0.25	lb ae/a lb ae/a % w/w lb ai/a lb ai/a % v/v	24 16 8.5 3 48 0.25	fl oz/a fl oz/a lb/100 gal qt/a fl oz/a % v/v	FALL FALL FALL PRE PRE PRE	A A A B B B	83 ab	99 a
9	NONTREATED									0 e	0 c
LSD (P=.05)								9.9	1.5	0.8	9.8
Standard Deviation								5.7	0.8	0.5	5.6
CV								9.36	0.96	0.55	6.64
Replicate F								1.480	1.474	2.080	0.732
Replicate Prob(F)								0.2571	0.2586	0.1574	0.4962
Treatment F								87.765	4606.869	13998.761	99.260
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001

Southern Illinois University

General Evaluation of Fall Herbicides in Corn.

Trial ID: 13-YRC-FP-GenFallCorn Location: Young Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								STEME 12-10-12 Control Percent	STEME 3-1-13 Control Percent	STEME 4-1-13 Control Percent	STEME 5-1-13 Control Percent	VERAR 5-1-13 Control Percent
								21 DA-A	102 DA-A	133 DA-A	0 DAP	0 DAP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a			FALL	A	33 c	96 b	96 a
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v			FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a			PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a			PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v			PRE	B			
2	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a			FALL	A	77 ab	99 a	96 a
	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a			FALL	A			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v			FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a			PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a			PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v			PRE	B			
3	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a			FALL	A	37 c	98 ab	97 a
	BEANOIL	100	SL	0.5 % v/v	0.5 % v/v			FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a			PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a			PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v			PRE	B			
4	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a			FALL	A	83 a	98 ab	96 a
	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a			FALL	A			
	BEANOIL	100	SL	0.5 % v/v	0.5 % v/v			FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a			PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a			PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v			PRE	B			
5	BASIS BLEND	30	WG	0.0234 lb ai/a	1.25 oz/a			FALL	A	72 b	99 a	48 b
	PRINCEP	4	SC	0.5 lb ai/a	1 pt/a			FALL	A			
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a			FALL	A			
	ABUNDIT EXTRA	3	SL	0.375 lb ae/a	16 fl oz/a			FALL	A			
	CINCH ATZ	5.5	SC	2.9 lb ai/a	2.1 qt/a			PRE	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a			PRE	B			
6	BASIS BLEND	30	WG	0.0234 lb ai/a	1.25 oz/a			FALL	A	73 b	99 a	22 c
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a			FALL	A			
	ABUNDIT EXTRA	3	SL	0.375 lb ae/a	16 fl oz/a			FALL	A			
	CINCH ATZ	5.5	SC	2.9 lb ai/a	2.1 qt/a			PRE	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a			PRE	B			
7	PRINCEP	4	SC	1 lb ai/a	32 fl oz/a			FALL	A	80 ab	99 a	96 a
	TOUCHDOWN TOTAL	4.17	SL	0.78 lb ae/a	24 fl oz/a			FALL	A			
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a			FALL	A			
	AMS	100	SG	1 % w/w	8.5 lb/100 gal			FALL	A			
	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a			PRE	B			
	GRAMOXONE 2 SL	2	SL	0.75 lb ai/a	48 fl oz/a			PRE	B			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			PRE	B			
8	TOUCHDOWN TOTAL	4.17	SL	0.78 lb ae/a	24 fl oz/a			FALL	A	73 b	98 ab	30 c
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a			FALL	A			
	AMS	100	SG	1 % w/w	8.5 lb/100 gal			FALL	A			
	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a			PRE	B			
	GRAMOXONE 2 SL	2	SL	0.75 lb ai/a	48 fl oz/a			PRE	B			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			PRE	B			
9	NONTREATED									0 d	0 c	0 d
LSD (P=.05)								9.2	2.1	1.2	4.7	13.2
Standard Deviation								5.3	1.2	0.7	2.7	7.6
CV								9.02	1.42	0.82	3.14	11.77
Replicate F								3.008	0.675	0.509	0.489	1.194
Replicate Prob(F)								0.0778	0.5232	0.6105	0.6219	0.3287
Treatment F								87.752	2098.506	6349.437	433.458	81.350
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Southern Illinois University

General Evaluation of Fall Herbicides in Corn.

Trial ID: 13-YRC-FP-GenFallCorn Location: Young Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								AMATA-HR	AMATA-HR	AMATA-HR
								5-1-13 Control Percent	5-29-13 Control Percent	6-26-13 Control Percent
								0 DAP	28 DAP	56 DAP
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a	FALL	A	63 b	68 d	40 d
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v	FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a	PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a	PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v	PRE	B			
2	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a	FALL	A	47 d	78 bc	68 b
	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a	FALL	A			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v	FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a	PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a	PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v	PRE	B			
3	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a	FALL	A	73 a	71 bcd	50 cd
	BEANOIL	100	SL	0.5 % v/v	0.5 % v/v	FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a	PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a	PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v	PRE	B			
4	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a	FALL	A	53 c	79 b	62 bc
	SIMAZAT 4L	4	SC	1.25 lb ai/a	2.5 pt/a	FALL	A			
	BEANOIL	100	SL	0.5 % v/v	0.5 % v/v	FALL	A			
	TRIZMET II	5.5	SC	2.2 lb ai/a	1.6 qt/a	PRE	B			
	QUIK-QUAT	3	SL	0.75 lb ai/a	1 qt/a	PRE	B			
	BEANOIL	100	SL	0.25 % v/v	0.25 % v/v	PRE	B			
5	BASIS BLEND	30	WG	0.0234 lb ai/a	1.25 oz/a	FALL	A	0 e	73 bcd	63 bc
	PRINCEP	4	SC	0.5 lb ai/a	1 pt/a	FALL	A			
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a	FALL	A			
	ABUNDIT EXTRA	3	SL	0.375 lb ae/a	16 fl oz/a	FALL	A			
	CINCH ATZ	5.5	SC	2.9 lb ai/a	2.1 qt/a	PRE	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a	PRE	B			
6	BASIS BLEND	30	WG	0.0234 lb ai/a	1.25 oz/a	FALL	A	0 e	70 cd	63 bc
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a	FALL	A			
	ABUNDIT EXTRA	3	SL	0.375 lb ae/a	16 fl oz/a	FALL	A			
	CINCH ATZ	5.5	SC	2.9 lb ai/a	2.1 qt/a	PRE	B			
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a	PRE	B			
7	PRINCEP	4	SC	1 lb ai/a	32 fl oz/a	FALL	A	0 e	99 a	97 a
	TOUCHDOWN TOTAL	4.17	SL	0.78 lb ae/a	24 fl oz/a	FALL	A			
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a	FALL	A			
	AMS	100	SG	1 % w/w	8.5 lb/100 gal	FALL	A			
	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a	PRE	B			
	GRAMOXONE 2 SL	2	SL	0.75 lb ai/a	48 fl oz/a	PRE	B			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	PRE	B			
8	TOUCHDOWN TOTAL	4.17	SL	0.78 lb ae/a	24 fl oz/a	FALL	A	0 e	97 a	94 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a	FALL	A			
	AMS	100	SG	1 % w/w	8.5 lb/100 gal	FALL	A			
	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a	PRE	B			
	GRAMOXONE 2 SL	2	SL	0.75 lb ai/a	48 fl oz/a	PRE	B			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	PRE	B			
9	NONTREATED							0 e	0 e	0 e
LSD (P=.05)								5.5	9.3	13.5
Standard Deviation								3.2	5.3	7.8
CV								12.0	7.58	13.1
Replicate F								2.884	4.124	1.735
Replicate Prob(F)								0.0852	0.0359	0.2081
Treatment F								308.465	86.610	41.130
Treatment Prob(F)								0.0001	0.0001	0.0001

General Evaluation of Fall Herbicides in Corn.

Trial ID: 13-YRC-FP-GenFallCorn Location: Young Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: Drexel, DuPont (MJW12-897), Syngenta.
2. WC 21 DA-A, March 1, April 1, at planting.
CI/WC at 28 and 56 DAP.
3. ERICA-HR = Herbicide-resistant marestail (glyphosate).
AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
4. Following the PRE application the first rainfall event, beginning 1 day later, was 2.08 inch over 4 days.
5. Not harvested.