

Southern Illinois University

Bayer One-Pass Weed Control Programs in Corn.

Trial ID: 12-2A-W80

Location: Belleville Res. Center

Investigator: Bryan Young

General Trial Information	
Study Director: Bryan Young	Investigator: Bryan Young Title: Professor
Trial Status: F - one-year/final	Initiation Date: 5-16-12
Trial Location	
City: Belleville	State/Prov.: IL
Postal Code: 62221	Country: USA

Objectives:
Evaluate the performance of Corvus, Balance Flexx and Capreno as components of one-pass weed control programs in corn.

Personnel	
Study Director: Bryan Young	Investigator: Bryan Young Title: Professor
Affiliation: Southern Illinois University	Address: 1205 Lincoln Drive - AG 176 - MC 4415
Location: Carbondale IL	Postal Code: 62901
Phone No.: 618-453-7679	Mobile No.: 618-713-6471
E-mail: bgyoung@siu.edu	

Crop Description	
Crop 1: ZEAMD Zea mays indentata Dent corn	Description: RR2/LL
Variety: DKC 61-06	Planting Date: 5-16-12
BBCH Scale: BCOR	Rate, Unit: 28000 S/A
Planting Method: SEEDED Seeded	
Depth, Unit: 1.5 IN	
Row Spacing, Unit: 30 IN	

Pest Description	
Pest 1 Type: W Code: SETFA - Setaria faberi Herrm.	Common Name: foxtail, giant
Pest 2 Type: W Code: AMBTR - Ambrosia trifida L.	Common Name: ragweed, giant
Pest 3 Type: W Code: ABUTH - Abutilon theophrasti Medik.	Common Name: velvetleaf
Pest 4 Type: W Code: AMATA - Amaranthus rudis Sauer	Common Name: waterhemp, common

Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 28 FT	
Plot Area, Unit: 280 FT2	Tillage Type: REDTIL reduced-till
Replications: 3	Study Design: RACOBL Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

Maintenance	
No.	Maintenance Treatment Name
1.	N 150 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Description	
% OM: 1.6	Texture: SIL SILT LOAM
pH: 5.9	Soil Name: PIERRON
CEC: 6	

Additional Measured Elements		
Element	Quantity	Unit
P1	41	LB/A
K	257	LB/A

Moisture and Weather Conditions	
Overall Moisture Conditions:	BELNOR below normal
Closest Weather Station: ICN - Belleville IL	Distance, Unit: 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-24-12					7	DAY	42.6	74.3	F
2.	4-29-12	3.06	IN	RAIN	rain					
3.	4-30-12	0.66	IN	RAIN	rain					
4.	5-1-12	0.13	IN	RAIN	rain					
5.	5-1-12					7	DAY	33.5	76	F
6.	5-4-12	0.25	IN	RAIN	rain					
7.	5-7-12	0.29	IN	RAIN	rain					
8.	5-8-12					7	DAY	47.5	87.8	F
9.	5-15-12					7	DAY	37.7	81.3	F
10.	5-21-12	0.18	IN	RAIN	rain					
11.	5-22-12					7	DAY	47.6	82.3	F
12.	5-29-12					7	DAY	48.1	90	F
13.	5-30-12	0.07	IN	RAIN	rain					
14.	5-31-12	0.21	IN	RAIN	rain					
15.	6-5-12					7	DAY	50.2	90.1	F
16.	6-11-12	0.75	IN	RAIN	rain					
17.	6-12-12					7	DAY	52.4	93.6	F
18.	6-17-12	0.36	IN	RAIN	rain					
19.	6-19-12					7	DAY	56.3	94	F
20.	6-26-12					7	DAY	51.8	105.4	F
21.	7-3-12					7	DAY	68.9	104.7	F
22.	7-8-12	0.28	IN	RAIN	rain					
23.	7-10-12					7	DAY	63.4	95	F
24.	7-17-12					7	DAY	61	102.2	F
25.	7-24-12					7	DAY	61	103	F
26.	7-29-12	0.15	IN	RAIN	rain					
27.	7-31-12					7	DAY	60.2	99.1	F
28.	8-5-12	0.18	IN	RAIN	rain					
29.	8-7-12					7	DAY	50.2	99.8	F
30.	8-13-12	0.88	IN	RAIN	rain					
31.	8-14-12					7	DAY	51	95.6	F
32.	8-17-12	1.19	IN	RAIN	rain					
33.	8-21-12					7	DAY	54.7	94.2	F
34.	8-26-12	0.04	IN	RAIN	rain					
35.	8-27-12	1.66	IN	RAIN	rain					
36.	8-31-12	0.11	IN	RAIN	rain					

Application Description

	A	B
Application Date:	5-17-12	5-29-12
Time of Day:	14:15	16:45
Application Method:	Spray	Spray
Application Timing:	PRE	V2
Application Placement:	BROFOL	BROFOL
Applied By:	RJW	JRK
Air Temperature, Unit:	79 F	88 F
% Relative Humidity:	29	31
Wind Velocity, Unit:	6 MPH	2 MPH
Wind Direction:	E	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	61 F	68 F
Soil Moisture:	BELNOR	BELNOR
% Cloud Cover:	30	0
Next Rain Occurred On:	5-21-12	5-31-12

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V3
Stage Minimum, Percent:		V2
Stage Maximum, Percent:		V3
Height, Unit:		6 IN
Height Minimum, Maximum:		4 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W DESC	SETFA W DESC
Stage Majority, Percent:	NA	2
Stage Minimum, Percent:		1
Stage Maximum, Percent:		3
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 3
Density, Unit:		0.1 FT2
Pest 2 Code, Type, Scale:	AMBTR W DESC	AMBTR W DESC
Stage Majority, Percent:	NA	2
Stage Minimum, Percent:		Coty
Stage Maximum, Percent:		4
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		0.1 FT2
Pest 3 Code, Type, Scale:	ABUTH W DESC	ABUTH W DESC
Stage Majority, Percent:	NA	2
Stage Minimum, Percent:		Coty
Stage Maximum, Percent:		4
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 2
Density, Unit:		0.01 FT2
Pest 4 Code, Type, Scale:	AMATA W DESC	AMATA W DESC
Stage Majority, Percent:	NA	2
Stage Minimum, Percent:		Coty
Stage Maximum, Percent:		4
Height, Unit:		2 IN
Height Minimum, Maximum:		0.5 3
Density, Unit:		0.3 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:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 10-9-12 Moisture Percent	ZEAMD 10-9-12 Test wt. lb/bu	ZEAMD 10-9-12 Yield bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Code	
1	NONTREATED								17.1 a 57.2 a 30 e
2	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	17.7 a 56.9 a 89 ab
3	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.25 lb ae/a	5.6 fl oz/a 0.5 pt/a		PRE PRE	A A	16.1 a 57.4 a 60 cd
4	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.5 lb ae/a	5.6 fl oz/a 1 pt/a		PRE PRE	A A	16.9 a 57.1 a 68 bcd
5	BALANCE FLEXX AATREX	2 4	SC SC	0.094 lb ai/a 1.5 lb ai/a	6 fl oz/a 1.5 qt/a		PRE PRE	A A	16.3 a 57.3 a 59 cd
6	BALANCE FLEXX HARNES AATREX	2 7 4	SC EC SC	0.094 lb ai/a 1.97 lb ai/a 1.5 lb ai/a	6 fl oz/a 2.25 pt/a 1.5 qt/a		PRE PRE PRE	A A A	17.1 a 57.0 a 70 a-d
7	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.25 lb ae/a	6 fl oz/a 0.5 pt/a		PRE PRE	A A	17.0 a 56.8 a 50 de
8	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.5 lb ae/a	6 fl oz/a 1 pt/a		PRE PRE	A A	17.3 a 57.0 a 71 a-d
9	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 2.5 % v/v		V2 V2 V2 V2	B B B B	17.8 a 56.8 a 86 ab
10	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.25 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 0.5 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	17.2 a 57.1 a 89 ab
11	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.5 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 1 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	17.2 a 57.1 a 91 a
12	LEXAR	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	A	16.8 a 57.1 a 60 cd
13	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1.5 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v		V2 V2 V2 V2	B B B B	17.4 a 57.0 a 92 a
14	HARNES XTRA 5.6	5.6	EC	4.2 lb ai/a	3 qt/a		PRE	A	18.4 a 56.5 a 77 abc
LSD (P=.05)							1.26	0.49	23.4
Standard Deviation							0.75	0.29	13.9
CV							4.38	0.51	19.74
Replicate F							5.491	3.762	7.785
Replicate Prob(F)							0.0103	0.0367	0.0022
Treatment F							1.756	1.982	5.083
Treatment Prob(F)							0.1075	0.0668	0.0002

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	Trt-Eval Interval	ZEAMD 6-1-12 Injury Percent 3 DA-B 10 DAE	ZEAMD 6-5-12 Injury Percent 15 DA-A 7 DA-B	ZEAMD 7-3-12 Injury Percent 47 DA-A 35 DA-B	ZEAMD 7-24-12 Injury Percent 68 DA-A 56 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code				
1	NONTREATED								0 d	0 b	0 a	0 a
2	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	0 d	0 b	0 a	0 a
3	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.25 lb ae/a	5.6 fl oz/a 0.5 pt/a		PRE PRE	A A	0 d	0 b	0 a	0 a
4	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.5 lb ae/a	5.6 fl oz/a 1 pt/a		PRE PRE	A A	0 d	0 b	0 a	0 a
5	BALANCE FLEXX AATREX	2 4	SC SC	0.094 lb ai/a 1.5 lb ai/a	6 fl oz/a 1.5 qt/a		PRE PRE	A A	0 d	0 b	0 a	0 a
6	BALANCE FLEXX HARNES AATREX	2 7 4	SC EC SC	0.094 lb ai/a 1.97 lb ai/a 1.5 lb ai/a	6 fl oz/a 2.25 pt/a 1.5 qt/a		PRE PRE PRE	A A A	0 d	0 b	0 a	0 a
7	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.25 lb ae/a	6 fl oz/a 0.5 pt/a		PRE PRE	A A	0 d	0 b	0 a	0 a
8	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.5 lb ae/a	6 fl oz/a 1 pt/a		PRE PRE	A A	0 d	0 b	0 a	0 a
9	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 2.5 % v/v		V2 V2 V2 V2	B B B B	4 b	2 a	0 a	0 a
10	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.25 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 0.5 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	5 a	2 a	0 a	0 a
11	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.5 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 1 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	5 a	3 a	0 a	0 a
12	LEXAR	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	A	0 d	0 b	0 a	0 a
13	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1.5 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v		V2 V2 V2 V2	B B B B	3 c	0 b	0 a	0 a
14	HARNES XTRA 5.6	5.6	EC	4.2 lb ai/a	3 qt/a		PRE	A	0 d	0 b	0 a	0 a
LSD (P=.05)							0.5	1.1	0.0	0.0		
Standard Deviation							0.3	0.6	0.0	0.0		
CV							24.93	125.79	0.0	0.0		
Replicate F							1.000	2.167	0.000	0.000		
Replicate Prob(F)							0.3816	0.1348	1.0000	1.0000		
Treatment F							136.462	7.875	0.000	0.000		
Treatment Prob(F)							0.0001	0.0001	1.0000	1.0000		

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Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	SETFA	SETFA	SETFA	SETFA								
Crop Code	6-1-12	6-5-12	7-3-12	7-24-12								
Rating Date	Control	Control	Control	Control								
Rating Type	Percent	Percent	Percent	Percent								
Rating Unit	3 DA-B	15 DA-A	47 DA-A	68 DA-A								
Rating Timing	10 DAE	7 DA-B	35 DA-B	56 DA-B								
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED								0 g	0 f	0 f	0 f
2	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	82 bc	84 c	75 bc	75 bc
3	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.25 lb ae/a	5.6 fl oz/a 0.5 pt/a		PRE PRE	A A	75 cd	73 d	70 cd	65 cd
4	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.5 lb ae/a	5.6 fl oz/a 1 pt/a		PRE PRE	A A	75 cd	72 de	63 cde	62 cd
5	BALANCE FLEXX AATREX	2 4	SC SC	0.094 lb ai/a 1.5 lb ai/a	6 fl oz/a 1.5 qt/a		PRE PRE	A A	75 cd	73 d	72 bcd	67 c
6	BALANCE FLEXX HARNES AATREX	2 7 4	SC EC SC	0.094 lb ai/a 1.97 lb ai/a 1.5 lb ai/a	6 fl oz/a 2.25 pt/a 1.5 qt/a		PRE PRE PRE	A A A	96 a	93 ab	89 a	83 ab
7	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.25 lb ae/a	6 fl oz/a 0.5 pt/a		PRE PRE	A A	65 d	63 e	53 e	47 e
8	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.5 lb ae/a	6 fl oz/a 1 pt/a		PRE PRE	A A	67 d	70 de	58 de	52 de
9	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 2.5 % v/v		V2 V2 V2 V2	B B B B	33 f	99 a	97 a	97 a
10	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.25 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 0.5 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	33 f	99 a	97 a	97 a
11	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.5 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 1 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	33 f	99 a	97 a	97 a
12	LEXAR	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	A	50 e	87 bc	75 bc	70 bc
13	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1.5 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v		V2 V2 V2 V2	B B B B	33 f	99 a	97 a	97 a
14	HARNES XTRA 5.6	5.6	EC	4.2 lb ai/a	3 qt/a		PRE	A	93 ab	93 ab	85 ab	82 b
LSD (P=.05)									12.3	8.4	13.8	14.4
Standard Deviation									7.3	5.0	8.2	8.6
CV									12.63	6.34	11.19	12.1
Replicate F									1.204	3.325	1.396	2.065
Replicate Prob(F)									0.3162	0.0518	0.2656	0.1472
Treatment F									43.493	81.062	29.839	28.837
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001

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Crop Code	6-1-12	6-5-12	7-3-12	7-24-12								
Rating Date	Control	Control	Control	Control								
Rating Type	Percent	Percent	Percent	Percent								
Rating Unit	3 DA-B	15 DA-A	47 DA-A	68 DA-A								
Rating Timing	10 DAE	7 DA-B	35 DA-B	56 DA-B								
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED								0 e	0 g	0 f	0 f
2	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	70 ab	67 cde	80 cd	83 abc
3	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.25 lb ae/a	5.6 fl oz/a 0.5 pt/a		PRE PRE	A A	78 a	77 bc	82 bcd	82 abc
4	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.5 lb ae/a	5.6 fl oz/a 1 pt/a		PRE PRE	A A	77 a	75 bcd	80 cd	81 abc
5	BALANCE FLEXX AATREX	2 4	SC SC	0.094 lb ai/a 1.5 lb ai/a	6 fl oz/a 1.5 qt/a		PRE PRE	A A	47 c	48 f	62 e	60 e
6	BALANCE FLEXX HARNES AATREX	2 7 4	SC EC SC	0.094 lb ai/a 1.97 lb ai/a 1.5 lb ai/a	6 fl oz/a 2.25 pt/a 1.5 qt/a		PRE PRE PRE	A A A	63 b	65 de	67 de	62 de
7	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.25 lb ae/a	6 fl oz/a 0.5 pt/a		PRE PRE	A A	63 b	62 e	63 e	55 e
8	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.5 lb ae/a	6 fl oz/a 1 pt/a		PRE PRE	A A	67 ab	68 b-e	77 cde	80 bc
9	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 2.5 % v/v	V2 V2 V2 V2	B B B B		37 cd	98 a	96 ab	97 ab
10	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.25 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 0.5 pt/a 2.5 % v/v	V2 V2 V2 V2 V2	B B B B B		37 cd	97 a	98 a	99 a
11	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.5 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 1 pt/a 2.5 % v/v	V2 V2 V2 V2 V2	B B B B B		40 cd	98 a	98 a	99 a
12	LEXAR	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	A	47 c	78 b	83 abc	91 abc
13	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1.5 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v	V2 V2 V2 V2	B B B B		33 d	98 a	98 a	98 a
14	HARNES XTRA 5.6	5.6	EC	4.2 lb ai/a	3 qt/a		PRE	A	75 ab	72 b-e	77 cde	79 cd
LSD (P=.05)									13.2	11.4	15.6	18.3
Standard Deviation									7.9	6.8	9.3	10.9
CV									15.02	9.46	12.3	14.29
Replicate F									3.301	3.619	1.061	1.939
Replicate Prob(F)									0.0528	0.0410	0.3607	0.1641
Treatment F									23.683	43.497	21.830	17.569
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001

Southern Illinois University

Bayer One-Pass Weed Control Programs in Corn.

Trial ID: 12-2A-W80

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH								
Crop Code	6-1-12	6-5-12	7-3-12	7-24-12								
Rating Date	Control	Control	Control	Control								
Rating Type	Percent	Percent	Percent	Percent								
Rating Unit	3 DA-B	15 DA-A	47 DA-A	68 DA-A								
Rating Timing	10 DAE	7 DA-B	35 DA-B	56 DA-B								
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED								0 e	0 d	0 d	0 d
2	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	93 ab	91 ab	93 ab	89 ab
3	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.25 lb ae/a	5.6 fl oz/a 0.5 pt/a		PRE PRE	A A	99 a	99 a	99 a	99 a
4	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.5 lb ae/a	5.6 fl oz/a 1 pt/a		PRE PRE	A A	99 a	94 ab	95 ab	93 ab
5	BALANCE FLEXX AATREX	2 4	SC SC	0.094 lb ai/a 1.5 lb ai/a	6 fl oz/a 1.5 qt/a		PRE PRE	A A	93 ab	91 ab	83 bc	85 abc
6	BALANCE FLEXX HARNES AATREX	2 7 4	SC EC SC	0.094 lb ai/a 1.97 lb ai/a 1.5 lb ai/a	6 fl oz/a 2.25 pt/a 1.5 qt/a		PRE PRE PRE	A A A	93 ab	90 ab	90 ab	90 ab
7	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.25 lb ae/a	6 fl oz/a 0.5 pt/a		PRE PRE	A A	75 bc	71 c	71 c	70 c
8	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.5 lb ae/a	6 fl oz/a 1 pt/a		PRE PRE	A A	93 ab	86 abc	83 bc	83 bc
9	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 2.5 % v/v		V2 V2 V2 V2	B B B B	28 d	99 a	99 a	99 a
10	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.25 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 0.5 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	37 d	99 a	99 a	99 a
11	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.5 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 1 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	30 d	99 a	99 a	99 a
12	LEXAR	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	A	60 c	90 ab	90 ab	90 ab
13	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1.5 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v		V2 V2 V2 V2	B B B B	23 d	99 a	99 a	99 a
14	HARNES XTRA 5.6	5.6	EC	4.2 lb ai/a	3 qt/a		PRE	A	85 ab	82 bc	87 ab	88 ab
LSD (P=.05)									21.3	16.2	14.4	16.0
Standard Deviation									12.7	9.6	8.6	9.5
CV									19.55	11.33	10.12	11.24
Replicate F									1.656	2.113	3.057	2.666
Replicate Prob(F)									0.2112	0.1420	0.0649	0.0893
Treatment F									21.919	21.401	26.964	21.948
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001

Southern Illinois University

Bayer One-Pass Weed Control Programs in Corn.

Trial ID: 12-2A-W80

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	AMATA	AMATA	AMATA	AMATA								
Crop Code												
Rating Date	6-1-12	6-5-12	7-3-12	7-24-12								
Rating Type	Control	Control	Control	Control								
Rating Unit	Percent	Percent	Percent	Percent								
Rating Timing	3 DA-B	15 DA-A	47 DA-A	68 DA-A								
Trt-Eval Interval	10 DAE	7 DA-B	35 DA-B	56 DA-B								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED								0 d	0 c	0 f	0 f
2	CORVUS AATREX	2.62 4	SC SC	0.115 lb ai/a 1.5 lb ai/a	5.6 fl oz/a 1.5 qt/a		PRE PRE	A A	99 a	99 a	99 a	98 ab
3	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.25 lb ae/a	5.6 fl oz/a 0.5 pt/a		PRE PRE	A A	99 a	98 a	87 de	85 de
4	CORVUS CLARITY	2.62 4	SC SL	0.115 lb ai/a 0.5 lb ae/a	5.6 fl oz/a 1 pt/a		PRE PRE	A A	98 a	98 ab	92 cd	90 b-e
5	BALANCE FLEXX AATREX	2 4	SC SC	0.094 lb ai/a 1.5 lb ai/a	6 fl oz/a 1.5 qt/a		PRE PRE	A A	99 a	99 a	92 bcd	92 a-d
6	BALANCE FLEXX HARNES AATREX	2 7 4	SC EC SC	0.094 lb ai/a 1.97 lb ai/a 1.5 lb ai/a	6 fl oz/a 2.25 pt/a 1.5 qt/a		PRE PRE PRE	A A A	99 a	99 a	99 a	96 abc
7	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.25 lb ae/a	6 fl oz/a 0.5 pt/a		PRE PRE	A A	99 a	96 b	83 e	83 e
8	BALANCE FLEXX CLARITY	2 4	SC SL	0.094 lb ai/a 0.5 lb ae/a	6 fl oz/a 1 pt/a		PRE PRE	A A	99 a	99 a	90 d	88 cde
9	CAPRENO AATREX ROUNDUP POWERMAX N-PAK AMS	3.45 4 4.5 100	SC SC SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 2.5 % v/v		V2 V2 V2 V2	B B B B	37 c	99 a	98 abc	98 ab
10	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.25 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 0.5 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	40 c	99 a	99 a	99 a
11	CAPRENO AATREX ROUNDUP POWERMAX CLARITY N-PAK AMS	3.45 4 4.5 4 100	SC SC SL SL SL	0.081 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 0.5 lb ae/a 2.5 % v/v	3 fl oz/a 1.5 qt/a 22 fl oz/a 1 pt/a 2.5 % v/v		V2 V2 V2 V2 V2	B B B B B	40 c	99 a	99 a	99 a
12	LEXAR	3.7	SC	2.78 lb ai/a	3 qt/a		PRE	A	70 b	99 a	98 abc	98 ab
13	HALEX GT AATREX NIS (ACTIVATOR 90) N-PAK AMS	4.38 4 100 100	CS SC SL SL	1.97 lb ai/a 1.5 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v		V2 V2 V2 V2	B B B B	37 c	99 a	98 ab	98 ab
14	HARNES XTRA 5.6	5.6	EC	4.2 lb ai/a	3 qt/a		PRE	A	99 a	99 a	99 a	99 a
LSD (P=.05)									18.3	1.5	6.5	8.6
Standard Deviation									10.9	0.9	3.9	5.1
CV									14.99	0.99	4.43	5.87
Replicate F									0.242	1.496	0.382	1.015
Replicate Prob(F)									0.7869	0.2428	0.6860	0.3765
Treatment F									30.351	2520.755	132.173	75.611
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001

Bayer One-Pass Weed Control Programs in Corn.

Trial ID: 12-2A-W80

Location: Belleville Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Bayer (BLM).
2. Ratings: CI/WC at 10 DAE and at 7, 35, and 56 DA-B.
3. Yield.
4. Take photos prior to canopy closure (about 35 DA-B rating or earlier).
5. Rainfall following the PRE application was 0.18 inch 4 days later and 0.28 inch 14 days later.
Rainfall following the V2 application was 0.28 inch 2 days later and 0.75 inch 13 days later.
6. DAE = Days after crop emergence.
Ratings at 10 DAE were also 15 DA-A and 3 DA-B.
7. Harvested 10-9-12, (2) 30 inch rows by 25 ft.