

Southern Illinois University

Bayer Two-Pass Weed Control Programs in Corn.

Trial ID: 12-2A-MW70

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 Bayer two-pass corn weed control programs in corn compared with competitive programs.

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 **E-mail:** bgyoung@siu.edu
Phone No.: 618-453-7679 **Mobile No.:** 618-713-6471

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DKC 61-06 **Description:** RR2/LL
BBCH Scale: BCOR **Planting Date:** 5-16-12
Planting Method: SEEDDED Seeded **Rate, Unit:** 28000 S/A
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:** ABUTH - Abutilon theophrasti Medik.
Common Name: velvetleaf

Pest 3 Type: W **Code:** AMBTR - Ambrosia trifida L.
Common Name: ragweed, giant

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	6-4-12
Time of Day:	14:15	13:30
Application Method:	Spray	Spray
Application Timing:	PRE	V3-V5
Application Placement:	BROFOL	BROFOL
Applied By:	LAH	JRK
Air Temperature, Unit:	79 F	87 F
% Relative Humidity:	29	47
Wind Velocity, Unit:	6 MPH	4 MPH
Wind Direction:	E	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	61 F	71 F
Soil Moisture:	BELNOR	BELNOR
% Cloud Cover:	90	20
Next Rain Occurred On:	5-21-12	6-11-12

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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	V5
Stage Minimum, Percent:		V4
Stage Maximum, Percent:		V5
Height, Unit:		12 IN
Height Minimum, Maximum:		9 12

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 1
Density, Unit:		0.01 FT2
Pest 2 Code, Type, Scale:	ABUTH W DESC	ABUTH W DESC
Stage Majority, Percent:	NA	2
Stage Minimum, Percent:		Coty
Stage Maximum, Percent:		3
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 1
Density, Unit:		0.01 FT2
Pest 3 Code, Type, Scale:	AMBTR W DESC	AMBTR W DESC
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		2
Stage Maximum, Percent:		6
Height, Unit:		2 IN
Height Minimum, Maximum:		1 4
Density, Unit:		0.1 FT2
Pest 4 Code, Type, Scale:	AMATA W DESC	AMATA W DESC
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		2
Stage Maximum, Percent:		6
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 3
Density, Unit:		0.01 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	ZEAMD 6-1-12 Injury Percent 10 DAE -3 DA-B	ZEAMD 6-11-12 Injury Percent 20 DAE 7 DA-B	ZEAMD 7-9-12 Injury Percent 35 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED								16.4 de	57.2 a-d	36 c	0 a	0 d	0 a
2	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	17.1 a-d	57.0 b-f	96 ab	0 a	0 d	0 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
3	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	17.2 abc	56.9 c-f	101 ab	0 a	2 d	0 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
4	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	17.8 a	56.7 f	105 a	0 a	12 b	0 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
5	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	17.7 a	56.8 ef	102 ab	0 a	15 a	0 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
6	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	16.8 b-e	57.1 a-e	88 ab	0 a	1 d	0 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
7	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	17.1 a-d	57.1 b-f	98 ab	0 a	7 c	0 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
8	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	17.4 ab	56.9 def	100 ab	0 a	10 b	0 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
9	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	17.3 ab	56.9 c-f	90 ab	0 a	17 a	0 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						

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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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	16.1 e	57.5 a	85 b	0 a	0 d	0 a
	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
	LIBERTY 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V3-V5	B						
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-V5	B						
11	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	17.1 a-d	57.0 b-f	102 ab	0 a	0 d	0 a
	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a	PRE	A						
	LIBERTY 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	V3-V5	B						
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V3-V5	B						
	CLARITY	4	SL	0.25	lb ae/a	8	fl oz/a	V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-V5	B						
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	16.3 de	57.4 ab	89 ab	0 a	0 d	0 a
	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V3-V5	B						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V3-V5	B						
13	HARNESX XTRA 5.6	5.6	EC	4.2	lb ai/a	3	qt/a	PRE	A	16.5 cde	57.3 abc	95 ab	0 a	0 d	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V3-V5	B						
	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-V5	B						
14	PREQUEL	45	WG	0.0467	lb ai/a	1.66	oz/a	PRE	A	16.8 b-e	57.1 a-e	91 ab	0 a	5 c	0 a
	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A						
	REALM Q	38.75	WG	0.097	lb ai/a	4	oz/a	V3-V5	B						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V3-V5	B						
LSD (P=.05)							0.81	0.40	18.8	0.0	2.7	0.0			
Standard Deviation							0.48	0.24	11.2	0.0	1.6	0.0			
CV							2.83	0.42	12.21	0.0	33.81	0.0			
Replicate F							4.960	4.858	1.716	0.000	1.106	0.000			
Replicate Prob(F)							0.0153	0.0165	0.2003	1.0000	0.3467	1.0000			
Treatment F							3.287	2.640	6.994	0.000	41.916	0.000			
Treatment Prob(F)							0.0052	0.0180	0.0001	1.0000	0.0001	1.0000			

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							SETFA	SETFA	SETFA	ABUTH	ABUTH	ABUTH		
							6-1-12 Control Percent 15 DA-A -3 DA-B	6-11-12 Control Percent 20 DAE 7 DA-B	7-9-12 Control Percent 35 DA-B	6-1-12 Control Percent 15 DA-A -3 DA-B	6-11-12 Control Percent 20 DAE 7 DA-B	7-9-12 Control Percent 35 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED								0 e	0 b	0 c	0 d	0 b	0 c
2	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	83 bc	99 a	97 a	71 bc	99 a	99 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
3	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	82 bcd	99 a	97 a	86 ab	99 a	96 b
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
4	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	90 ab	99 a	97 a	92 a	99 a	99 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
5	CORVUS	2.62	SC	0.0614 lb ai/a	3 fl oz/a		PRE	A	83 bc	99 a	98 a	93 a	99 a	99 a
	AATREX	4	SC	1 lb ai/a	1 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
6	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	75 cd	99 a	97 a	88 ab	99 a	99 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
7	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	77 cd	99 a	97 a	83 ab	99 a	99 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
8	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	80 bcd	99 a	97 a	87 ab	99 a	99 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.25 lb ae/a	8 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						
9	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A	78 bcd	99 a	97 a	83 ab	99 a	99 a
	AATREX	4	SC	1.5 lb ai/a	1.5 qt/a		PRE	A						
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V3-V5	B						
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V3-V5	B						
	CLARITY	4	SL	0.5 lb ae/a	16 fl oz/a		V3-V5	B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		V3-V5	B						

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Bayer Two-Pass Weed Control Programs in Corn.

Trial ID: 12-2A-MW70

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							SETFA	SETFA	SETFA	ABUTH	ABUTH	ABUTH				
							6-1-12 Control Percent 15 DA-A -3 DA-B	6-11-12 Control Percent 20 DAE 7 DA-B	7-9-12 Control Percent 35 DA-B	6-1-12 Control Percent 15 DA-A -3 DA-B	6-11-12 Control Percent 20 DAE 7 DA-B	7-9-12 Control Percent 35 DA-B				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code						
10	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a			PRE	A	70 d	99 a	90 b	88 ab	99 a	99 a
	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a			PRE	A						
	LIBERTY 280	2.34	EC	0.402	lb ai/a	22 fl oz/a			V3-V5	B						
	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a			V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B						
11	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a			PRE	A	78 bcd	99 a	93 b	93 a	99 a	99 a
	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a			PRE	A						
	LIBERTY 280	2.34	EC	0.402	lb ai/a	22 fl oz/a			V3-V5	B						
	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a			V3-V5	B						
	CLARITY	4	SL	0.25	lb ae/a	8 fl oz/a			V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B						
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5 qt/a			PRE	A	73 cd	99 a	98 a	99 a	99 a	99 a
	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a			V3-V5	B						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v			V3-V5	B						
13	HARNESX XTRA 5.6	5.6	EC	4.2	lb ai/a	3 qt/a			PRE	A	96 a	99 a	98 a	53 c	99 a	97 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B						
	IMPACT	2.8	SC	0.0164	lb ai/a	0.75 fl oz/a			V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B						
14	PREQUEL	45	WG	0.0467	lb ai/a	1.66 oz/a			PRE	A	83 bc	99 a	97 a	87 ab	99 a	99 a
	AATREX	4	SC	1	lb ai/a	1 qt/a			PRE	A						
	REALM Q	38.75	WG	0.097	lb ai/a	4 oz/a			V3-V5	B						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a			V3-V5	B						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B						
LSD (P=.05)							12.0	0.0	2.9	20.3	0.0	2.8				
Standard Deviation							7.2	0.0	1.7	12.1	0.0	1.6				
CV							9.54	0.0	1.91	15.35	0.0	1.79				
Replicate F							0.539	0.000	2.112	1.162	0.000	1.990				
Replicate Prob(F)							0.5896	1.0000	0.1421	0.3287	1.0000	0.1577				
Treatment F							29.917	0.000	687.385	13.063	0.000	775.233				
Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	1.0000	0.0001				

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							6-1-12 Control Percent 15 DA-A -3 DA-B	6-11-12 Control Percent 20 DAE 7 DA-B	7-9-12 Control Percent 35 DA-B	6-1-12 Control Percent 15 DA-A -3 DA-B	6-11-12 Control Percent 20 DAE 7 DA-B	7-9-12 Control Percent 35 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code		
1	NONTREATED										0 f	0 b
2	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a			PRE	A	57 cd	99 a
	AATREX	4	SC		1 lb ai/a	1 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.25	lb ae/a	8 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
3	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a			PRE	A	50 de	99 a
	AATREX	4	SC		1 lb ai/a	1 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.5	lb ae/a	16 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
4	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a			PRE	A	70 ab	99 a
	AATREX	4	SC		1 lb ai/a	1 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.25	lb ae/a	8 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
5	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a			PRE	A	63 bc	99 a
	AATREX	4	SC		1 lb ai/a	1 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.5	lb ae/a	16 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
6	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a			PRE	A	68 abc	99 a
	AATREX	4	SC		1.5 lb ai/a	1.5 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.25	lb ae/a	8 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
7	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a			PRE	A	73 ab	99 a
	AATREX	4	SC		1.5 lb ai/a	1.5 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.5	lb ae/a	16 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
8	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a			PRE	A	78 a	99 a
	AATREX	4	SC		1.5 lb ai/a	1.5 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.25	lb ae/a	8 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		
9	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a			PRE	A	73 ab	99 a
	AATREX	4	SC		1.5 lb ai/a	1.5 qt/a			PRE	A		
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a			V3-V5	B		
	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a			V3-V5	B		
	CLARITY	4	SL	0.5	lb ae/a	16 fl oz/a			V3-V5	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v			V3-V5	B		

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code			
10	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a		PRE	A	78 a	99 a	99 a
	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.402	lb ai/a	22	fl oz/a		V3-V5	B			
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a		V3-V5	B			
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11	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a		PRE	A	78 a	99 a	99 a
	AATREX	4	SC	1.5	lb ai/a	1.5	qt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.402	lb ai/a	22	fl oz/a		V3-V5	B			
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a		V3-V5	B			
	CLARITY	4	SL	0.25	lb ae/a	8	fl oz/a		V3-V5	B			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V3-V5	B			
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a		PRE	A	43 e	99 a	98 a
	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a		V3-V5	B			
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v		V3-V5	B			
13	HARNESX XTRA 5.6	5.6	EC	4.2	lb ai/a	3	qt/a		PRE	A	67 abc	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		V3-V5	B			
	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a		V3-V5	B			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V3-V5	B			
14	PREQUEL	45	WG	0.0467	lb ai/a	1.66	oz/a		PRE	A	63 bc	99 a	98 a
	AATREX	4	SC	1	lb ai/a	1	qt/a		PRE	A			
	REALM Q	38.75	WG	0.097	lb ai/a	4	oz/a		V3-V5	B			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a		V3-V5	B			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V3-V5	B			
LSD (P=.05)							12.4	0.0	0.8	1.0	0.0	0.0	
Standard Deviation							7.4	0.0	0.5	0.6	0.0	0.0	
CV							12.0	0.0	0.49	0.67	0.0	0.0	
Replicate F							6.098	0.000	0.463	1.000	0.000	0.000	
Replicate Prob(F)							0.0072	1.0000	0.6347	0.3816	1.0000	1.0000	
Treatment F							23.278	0.000	10189.077	5502.640	0.000	0.000	
Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	1.0000	1.0000	

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Trial Comments

1. Protocol: Bayer (BLN).
2. Ratings: CI/WC at 10 and 21 DAE (second evaluation should be prior to application B);
CI/WC at 7 and 35 DA-B.
3. Yield.
4. Take photos around 14-28 DA-B.
5. Rainfall following the PRE application was 0.18 inch 4 days later and 0.28 inch 14 days later.
Rainfall following the V3-V5 application was 0.75 inch 7 days later and 0.38 inch 13 days later.
6. Missing data for plot 202 was due to an application error.
7. Harvested 10-9-12, (2) 30 inch rows by 25 ft.