

Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
 City State Zip Country: Belleville IL 62221 USA  
 Trial Status: FINAL Initiation Date: 6-4-11

Objectives: Compare various two-pass weed control programs in reduced-till corn.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL  
 Planting Method: SEEDED Planting Date: 6-4-11  
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN  
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant  
 Pest 2 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant  
 Pest 3 Type: W Code: IPOSS morningglory, species  
 Pest Description: Mixture of IPOHE and IPOLA  
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

Plot Width, Unit: 10 FT Site Type: FIELD  
 Plot Length, Unit: 28 FT Tillage Type: REDUCED-TILL  
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year  
 1. GLXMA 2010

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 150 LB/A

% OM: 1.6 Texture: SILT LOAM  
 pH: 6.8 Soil Name: PIERRON  
 CEC: 8 Fert. Level: P1: 77 LB/A, K: 252 LB/A

Application Description

	A	B
Application Date:	6-5-11	6-21-11
Time of Day:	18:30	10:00
Application Method:	Spray	Spray
Application Timing:	PRE	3-4"W
Application Placement:	BROSOI	BROFOL
Applied By:	LAH	BA
Air Temperature, Unit:	87 F	78 F
% Relative Humidity:	52	79
Wind Velocity, Unit:	4 MPH	7 MPH
Wind Direction:	S	S
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	75 F	77 F
Soil Moisture:	ABONOR	ABONOR
% Cloud Cover:	0	20

	5-6-11	21-6-11
Crop stage at application:	NA	V4
Height Min, Max (inch):	8	10

Pest Stage At Each Application

	6-5-11	6-21-11
Application Date:	6-5-11	6-21-11
Weed Code:	SETFA	SETFA
Stage Majority (leaves):	NA	3
Stage Min, Max:		2 6
Height Majority:		3 IN
Height Min, Max:		1 6
Density, Unit:		0.01 FT2
Weed Code:	AMBTR	AMBTR
Stage Majority (leaves):	NA	8
Stage Min, Max:		6 10
Height Majority:		3 IN
Height Min, Max:		2 5
Density, Unit:		0.5 FT2
Weed Code:	IPOSS	IPOSS
Stage Majority (leaves):	NA	2
Stage Min, Max:		2 8
Height Majority:		2 IN
Height Min, Max:		2 3
Density, Unit:		0.01 FT2
Weed Code:	ABUTH	ABUTH
Stage Majority (leaves):	NA	3
Stage Min, Max:		2 3
Height Majority:		1 IN
Height Min, Max:		1 2
Density, Unit:		0.1 FT2

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**Application Equipment**

<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer
<b>Operating Pressure:</b>	30 PSI	30 PSI
<b>Nozzle Type:</b>	Flat fan	Flat fan
<b>Nozzle Size:</b>	XR 8002	XR 8002
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA

Two-Pass Herbicide Programs in Corn - I.

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Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD									
							10-25-11 Moisture Percent	10-25-11 Test wt. lb/bu	10-25-11 Yield bu/A	6-19-11 Injury Percent	7-3-11 Injury Percent	7-5-11 Injury Percent	7-19-11 Injury Percent	8-16-11 Injury Percent		
1	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a	PRE	A	17.6 a	59.5 bc	56 c	0 b	0 b	0 a	0 a	0 a
1	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
1	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a	3-4"W	B								
1	MSO (MSO ULTRA)	100	SL	1	% v/v	1 % v/v	3-4"W	B								
1	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
2	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a	PRE	A	17.7 a	59.4 bc	60 bc	0 b	0 b	0 a	0 a	0 a
2	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
2	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a	3-4"W	B								
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	3-4"W	B								
2	MSO (MSO ULTRA)	100	SL	1	% v/v	1 % v/v	3-4"W	B								
2	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
3	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a	PRE	A	19.9 a	58.4 bc	70 abc	0 b	0 b	0 a	0 a	0 a
3	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
3	IGNITE 280	2.34	EC	0.402	lb ai/a	22 fl oz/a	3-4"W	B								
3	N-PAK AMS	100	SL	5.83	% v/v	7 pt/a	3-4"W	B								
4	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a	PRE	A	20.8 a	57.8 c	62 bc	0 b	1 ab	0 a	0 a	0 a
4	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	3-4"W	B								
4	N-PAK AMS	100	SL	5.83	% v/v	7 pt/a	3-4"W	B								
5	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a	PRE	A	21.6 a	58.2 bc	58 bc	1 a	0 b	0 a	0 a	0 a
5	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
5	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a	3-4"W	B								
5	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	3-4"W	B								
5	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
6	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a	PRE	A	19.0 a	58.9 bc	66 abc	0 b	2 a	0 a	0 a	0 a
6	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
6	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a	3-4"W	B								
6	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	3-4"W	B								
6	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
7	BALANCE FLEXX	2	SC	0.047	lb ai/a	3 fl oz/a	PRE	A	19.8 a	58.7 bc	81 ab	0 b	0 b	0 a	0 a	0 a
7	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A								
7	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a	3-4"W	B								
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	3-4"W	B								
7	MSO (MSO ULTRA)	100	SL	1	% v/v	1 % v/v	3-4"W	B								
7	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
8	LEXAR	3.7	SC	1.85	lb ai/a	2 qt/a	PRE	A	16.5 ab	60.5 ab	75 abc	0 b	0 b	0 a	0 a	0 a
8	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24 fl oz/a	3-4"W	B								
8	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
9	LEXAR	3.7	SC	1.39	lb ai/a	1.5 qt/a	PRE	A	16.9 ab	60.2 bc	68 abc	0 b	0 b	0 a	0 a	0 a
9	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a	3-4"W	B								
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	3-4"W	B								
9	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
10	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2 qt/a	PRE	A	16.8 ab	60.0 bc	59 bc	0 b	0 b	0 a	0 a	0 a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	3-4"W	B								
10	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
11	VERDICT	5.57	EC	0.65	lb ai/a	15 fl oz/a	PRE	A	19.7 a	59.0 bc	87 a	0 b	0 b	0 a	0 a	0 a
11	STATUS	56	WG	0.0875	lb ae/a	2.5 oz/a	3-4"W	B								
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	3-4"W	B								
11	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a	PRE	A	18.7 a	59.5 bc	76 abc	0 b	0 b	0 a	0 a	0 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a	3-4"W	B								
12	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								
13	NONTREATED								11.9 b	62.8 a	19 d	0 b	0 b	0 a	0 a	0 a
14	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2 qt/a	PRE	A	19.3 a	59.1 bc	68 abc	0 b	0 b	0 a	0 a	0 a
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	3-4"W	B								
14	AATREX	4	SC	1	lb ai/a	1 qt/a	3-4"W	B								
14	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	3-4"W	B								

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Pest Code													
Crop Code													
Rating Date													
Rating Data Type													
Rating Unit													
Rating Timing													
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
	LSD (P=.05)									5.58	2.49	23.6	0.8	1.5	0.0	0.0	0.0
	Replicate F									8.012	11.580	0.562	1.000	2.019	0.000	0.000	0.000
	Replicate Prob(F)									0.0019	0.0003	0.5768	0.3816	0.1530	1.0000	1.0000	1.0000
	Treatment F									1.574	2.100	3.857	1.000	1.000	0.000	0.000	0.000
	Treatment Prob(F)									0.1573	0.0520	0.0017	0.4786	0.4786	1.0000	1.0000	1.0000

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

## Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70

Location: Belleville Res. Center

Pest Code									SETFA	SETFA	SETFA	SETFA	SETFA	
Crop Code									6-19-11	7-3-11	7-5-11	7-19-11	8-16-11	
Rating Date									Control	Control	Control	Control	Control	
Rating Data Type									Percent	Percent	Percent	Percent	Percent	
Rating Unit									-2 DA-B	12 DA-B	14 DA-B	28 DA-B	56 DA-B	
Rating Timing									14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B	
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 b	99 a	99 a	99 a
1	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
1	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
1	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
1	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
2	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	98 a	99 a
2	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
2	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
2	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
2	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
3	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	98 a	99 a
3	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
3	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	3-4"W	B					
3	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B					
4	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	98 a	98 a	98 a
4	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
4	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B					
5	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a	98 a
5	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B					
5	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
5	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
6	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	98 a	99 a
6	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B					
6	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
6	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
7	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	99 a	98 a	99 a
7	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
7	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
7	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
7	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
8	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a	98 a	99 a
8	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B					
8	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
9	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	99 a	99 a
9	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	3-4"W	B					
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	3-4"W	B					
9	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
10	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a	98 a	99 a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
10	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
11	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	99 a	95 b	99 a
11	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	3-4"W	B					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
11	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	99 a	99 a	99 a	98 a	99 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	B					
12	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
13	NONTREATED									0 b	0 c	0 b	0 c	0 b
14	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a	97 a	99 a
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
14	AATREX	4	SC		1 lb ai/a	1	qt/a	3-4"W	B					
14	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					

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Pest Code						SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code										
Rating Date						6-19-11	7-3-11	7-5-11	7-19-11	8-16-11
Rating Data Type						Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Rating Timing						-2 DA-B	12 DA-B			
Trt-Eval Interval						14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
	LSD (P=.05)									
					0.0	0.3		0.7	1.7	0.7
	Replicate F				0.000	1.000		2.308	1.262	2.167
	Replicate Prob(F)				1.0000	0.3816		0.1194	0.2998	0.1348
	Treatment F				0.000	88164.314		10662.104	1916.355	11921.220
	Treatment Prob(F)				1.0000	0.0001		0.0001	0.0001	0.0001

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

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Trial ID: 11-2B-ME70

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code					
Rating Date	6-19-11	7-3-11	7-5-11	7-19-11	8-16-11
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing	-2 DA-B	12 DA-B	14 DA-B	28 DA-B	56 DA-B
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	97 a	99 a	98 abc	98 a	99 a
1	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
1	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
1	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
1	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
2	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96 a	99 ab	98 ab	98 a	99 a
2	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
2	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
2	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
2	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
3	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96 a	98 ab	96 bcd	96 a	96 bc
3	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
3	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	3-4"W	B					
3	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B					
4	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96 a	98 ab	98 ab	98 a	98 ab
4	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
4	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B					
5	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	95 a	99 a	98 ab	98 a	99 a
5	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B					
5	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
5	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
6	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	96 a	99 a	98 ab	98 a	98 ab
6	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B					
6	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
6	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
7	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	91 ab	98 ab	98 ab	98 a	99 a
7	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
7	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
7	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
7	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
8	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	97 a	98 ab	97 abc	98 a	97 abc
8	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B					
8	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
9	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	94 a	99 ab	97 abc	97 a	97 abc
9	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	3-4"W	B					
9	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25	% v/v	3-4"W	B					
9	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
10	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	87 bc	97 b	94 de	92 bc	92 d
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
10	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
11	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	82 c	98 ab	99 a	98 a	98 ab
11	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	3-4"W	B					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
11	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	43 d	94 c	94 e	90 c	95 c
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	B					
12	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
13	NONTREATED									0 e	0 d	0 f	0 d	0 e
14	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	92 ab	98 ab	96 cde	93 b	96 bc
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
14	AATREX	4	SC		1 lb ai/a	1	qt/a	3-4"W	B					
14	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					

Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70      Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code					
Rating Date	6-19-11	7-3-11	7-5-11	7-19-11	8-16-11
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing	-2 DA-B	12 DA-B			
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
				6.0		1.4		2.3	
								2.5	
									2.7
	Replicate F			0.276		0.032		5.657	
	Replicate Prob(F)			0.7610		0.9684		0.0091	
	Treatment F			181.258		2785.926		1110.810	
	Treatment Prob(F)			0.0001		0.0001		0.0001	
								871.666	
									805.031
									0.0001
									0.0001

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



## Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70

Location: Belleville Res. Center

Pest Code	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code					
Rating Date	6-19-11	7-3-11	7-5-11	7-19-11	8-16-11
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Timing	-2 DA-B	12 DA-B	14 DA-B	28 DA-B	56 DA-B
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code										
1	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96	ab	99	a	98	b	97	a	99	ab
1	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
1	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B										
1	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B										
1	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
2	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96	ab	99	a	99	ab	98	a	98	ab
2	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
2	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B										
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B										
2	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B										
2	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
3	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96	ab	99	a	98	ab	98	a	98	ab
3	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
3	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	3-4"W	B										
3	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B										
4	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	97	a	99	a	98	ab	97	a	99	ab
4	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B										
4	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B										
5	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96	ab	98	a	99	ab	99	a	99	a
5	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B										
5	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B										
5	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
6	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	96	ab	99	a	98	ab	97	a	98	ab
6	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B										
6	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B										
6	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
7	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	93	ab	99	a	99	ab	99	a	97	bc
7	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A										
7	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B										
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B										
7	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B										
7	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
8	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	96	ab	99	a	99	ab	98	a	99	a
8	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B										
8	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
9	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	96	ab	99	a	99	a	99	a	99	ab
9	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	3-4"W	B										
9	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25	% v/v	3-4"W	B										
9	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
10	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	92	b	99	a	98	b	97	a	98	ab
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B										
10	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
11	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	97	a	99	a	99	ab	99	a	98	ab
11	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	3-4"W	B										
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B										
11	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	75	c	89	b	96	c	92	b	95	c
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	B										
12	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										
13	NONTREATED									0	d	0	c	0	d	0	c	0	d
14	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	93	ab	99	a	98	ab	98	a	98	ab
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B										
14	AATREX	4	SC		1 lb ai/a	1	qt/a	3-4"W	B										
14	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B										

Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70      Location: Belleville Res. Center

		IPOSS						
		IPOSS	IPOSS	IPOSS	IPOSS	IPOSS		
		6-19-11	7-3-11	7-5-11	7-19-11	8-16-11		
		Control	Control	Control	Control	Control		
		Percent	Percent	Percent	Percent	Percent		
		-2 DA-B	12 DA-B					
		14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code
LSD (P=.05)				4.7	1.0	0.9	2.3	2.2
Replicate F				0.737	0.520	1.253	3.075	2.053
Replicate Prob(F)				0.4884	0.6006	0.3023	0.0633	0.1487
Treatment F				253.322	6510.521	6810.820	1098.897	1207.013
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

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

## Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70

Location: Belleville Res. Center

Pest Code									ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	PANDI
Crop Code									6-19-11	7-3-11	7-5-11	7-19-11	8-16-11	8-16-11
Rating Date									Control	Control	Control	Control	Control	Control
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit									-2 DA-B	12 DA-B	14 DA-B	28 DA-B	56 DA-B	56 DA-B
Rating Timing									14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B	56 DA-B
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	98 a	99 a	99 a	99 a	99 a
1	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
1	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
1	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
1	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
2	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	96 a	99 a	99 a	99 ab	99 a
2	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
2	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
2	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
2	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
3	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	98 a	99 a	98 a	99 ab	99 a
3	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
3	IGNITE 280	2.34	EC	0.402	lb ai/a	22	fl oz/a	3-4"W	B					
3	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B					
4	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	97 a	99 a	98 a	98 b	99 a
4	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
4	N-PAK AMS	100	SL		5.83 % v/v	7	pt/a	3-4"W	B					
5	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	98 a	99 a	99 a	99 ab	99 a
5	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
5	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B					
5	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
5	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
6	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	98 a	99 a	99 a	99 ab	99 a
6	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
6	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	3-4"W	B					
6	COC (PRIME OIL)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
6	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
7	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A	96 a	99 a	99 a	99 ab	99 a
7	AATREX	4	SC		1 lb ai/a	1	qt/a	PRE	A					
7	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	3-4"W	B					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
7	MSO (MSO ULTRA)	100	SL		1 % v/v	1	% v/v	3-4"W	B					
7	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
8	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	98 a	99 a	99 a	99 a	99 a
8	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B					
8	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
9	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	98 a	99 a	99 a	99 a	99 a
9	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	3-4"W	B					
9	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25	% v/v	3-4"W	B					
9	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
10	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	92 a	99 a	99 a	99 ab	99 a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
10	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
11	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	94 a	98 b	99 a	99 ab	99 a
11	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	3-4"W	B					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
11	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
12	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	53 b	99 a	99 a	99 ab	99 a
12	DURANGO DMA	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	B					
12	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					
13	NONTREATED									0 c	0 c	0 b	0 c	0 b
14	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	PRE	A	93 a	99 a	98 a	98 ab	99 a
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	B					
14	AATREX	4	SC		1 lb ai/a	1	qt/a	3-4"W	B					
14	N-PAK AMS	100	SL		2.5 % v/v	2.5	% v/v	3-4"W	B					

Two-Pass Herbicide Programs in Corn - I.

Trial ID: 11-2B-ME70      Location: Belleville Res. Center

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	PANDI
Crop Code						
Rating Date	6-19-11	7-3-11	7-5-11	7-19-11	8-16-11	8-16-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	-2 DA-B	12 DA-B				
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
	LSD (P=.05)					7.7	0.5	0.7	0.8	0.0	3.7
	Replicate F					1.063	1.000	1.000	0.104	0.000	1.894
	Replicate Prob(F)					0.3601	0.3816	0.3816	0.9016	1.0000	0.1706
	Treatment F					105.889	22030.406	12537.375	9112.961	0.000	419.751
	Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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

Trial Comments

1. Protocol: Bayer (BLJ).
2. CI/WC at 14 DA-A; at 28 DA-A (should be prior to B); and at 14, 28, and 56 DA-B.
3. Application B should be 3-4 inch weeds or V4, whichever comes first.
4. Yield.
5. Take photos prior to B and at 28 DA-B.
6. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
7. Harvested 10-25-11, (2) 30 inch rows by 25 ft.