

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

Trial ID: 11-2B-E75

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: Evaluate the crop tolerance and efficacy of two-pass weed control programs based on Kixor and commercial standards.

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: AMATA Amaranthus rudis Sauer waterhemp, common  
 Pest 4 Type: W Code: IPOSS morningglory, species  
 Pest Description: Mixture of IPOHE and IPOLA  
 Pest 5 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	6-24-11
Time of Day:	19:00	8:30
Application Method:	Spray	Spray
Application Timing:	PRE	10-14"CN
Application Placement:	BROSOI	BROFOL
Applied By:	LAH	CME
Air Temperature, Unit:	87 F	72 F
% Relative Humidity:	52	62
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	S	NW
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	75 F	74 F
Soil Moisture:	ABONOR	ABONOR
% Cloud Cover:	0	0

5-6-11 24-6-11  
 Crop stage at application: NA V4  
 Height Min, Max (inch): 12 12

## Pest Stage At Each Application

	6-5-11	6-24-11
Application Date:	6-5-11	6-24-11
Weed Code:	SETFA	SETFA
Stage Majority (leaves):	NA	2
Stage Min, Max:		1 2
Height Majority:		3 IN
Height Min, Max:		2 3
Density, Unit:		0.01 FT2
Weed Code:	AMBTR	AMBTR
Stage Majority (leaves):	NA	8
Stage Min, Max:		coty 14
Height Majority:		4 IN
Height Min, Max:		1 9
Density, Unit:		0.5 FT2
Weed Code:	AMATA	AMATA
Stage Majority (leaves):	NA	NA
Weed Code:	IPOSS	IPOSS
Stage Majority (leaves):	NA	1
Stage Min, Max:		coty 2
Height Majority:		1 IN
Height Min, Max:		0.5 1
Density, Unit:		0.01 FT2
Weed Code:	ABUTH	ABUTH
Stage Majority (leaves):	NA	4
Stage Min, Max:		coty 6
Height Majority:		2 IN
Height Min, Max:		0.5 4
Density, Unit:		0.1 FT2

Two-Pass Herbicide Programs in Corn - II.

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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 - II.

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Pest Code				ZEAMD		ZEAMD		ZEAMD		ZEAMD			
Crop Code				6-24-11		7-15-11		8-5-11		9-2-11			
Rating Date				Injury		Injury		Injury		Injury			
Rating Data Type				Percent		Percent		Percent		Percent			
Rating Unit				19 DA-A		40 DA-A		61 DA-A		89 DA-A			
Rating Timing				0 DA-B		21 DA-B		42 DA-B		70 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	NONTREATED									0 a	0 a	0 a	0 a
2	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	0 a	0 a	0 a	0 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
3	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	0 a	0 a	0 a	0 a
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
4	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	0 a	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	10-14"CN	B				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
5	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	0 a	0 a	0 a	0 a
5	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
6	HARNESS XTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	0 a	0 a	0 a	0 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
7	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	0 a	0 a	0 a	0 a
7	GUARDSMAN MAX	5	SE	1.87	lb ai/a	3	pt/a	PRE	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	0 a	0 a	0 a	0 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
9	VERDICT	5.57	EC	0.566	lb ai/a	13	fl oz/a	PRE	A	0 a	0 a	0 a	0 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
9	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	10-14"CN	B				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
10	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	0 a	0 a	0 a	0 a
10	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A				
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	0 a	0 a	0 a	0 a
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	10-14"CN	B				
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	0 a	0 a	0 a	0 a
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	10-14"CN	B				
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
13	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	0 a	0 a	0 a	0 a
13	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
13	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
LSD (P=.05)										0.0	0.0	0.0	0.0
Replicate F										0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000

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

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

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Pest Code	SETFA	SETFA	SETFA	SETFA
Crop Code				
Rating Date	6-24-11	7-15-11	8-5-11	9-2-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	19 DA-A	40 DA-A	61 DA-A	89 DA-A
Trt-Eval Interval	0 DA-B	21 DA-B	42 DA-B	70 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 c	0 f	0 b	0 c
2	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	97 cde	98 a	96 b
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
3	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	99 a	98 abc	98 a	97 ab
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
4	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	98 b-e	98 a	97 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	10-14"CN	B				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
5	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	98 a-d	98 a	97 b
5	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
6	HARNESS XTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	91 b	97 e	98 a	96 b
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
7	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	97 cde	98 a	97 b
7	GUARDSMAN MAX	5	SE	1.87	lb ai/a	3	pt/a	PRE	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	97 a	98 a-d	98 a	97 b
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
9	VERDICT	5.57	EC	0.566	lb ai/a	13	fl oz/a	PRE	A	99 a	97 de	98 a	97 b
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
9	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	10-14"CN	B				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
10	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 ab	99 a	97 ab
10	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A				
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	98 a-d	98 a	97 ab
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	10-14"CN	B				
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	98 a
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	10-14"CN	B				
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
13	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	98 a-d	99 a	98 ab
13	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
13	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				

LSD (P=.05)

4.7 1.2 1.3 1.6

Replicate F

1.050 2.000 2.087 3.059

Replicate Prob(F)

0.3660 0.1573 0.1460 0.0655

Treatment F

290.661 4420.052 3473.706 2514.896

Treatment Prob(F)

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 - II.

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code				
Rating Date	6-24-11	7-15-11	8-5-11	9-2-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	19 DA-A	40 DA-A	61 DA-A	89 DA-A
Trt-Eval Interval	0 DA-B	21 DA-B	42 DA-B	70 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 e	0 e	0 c	0 e
2	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	90 c	99 a	99 ab	99 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
3	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	98 ab	97 bcd	97 ab	97 cd
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
4	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	97 ab	98 abc	96 b	97 bcd
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	10-14"CN	B				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
5	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	90 c	99 a	97 ab	98 a-d
5	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
6	HARNESS XTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	88 c	96 d	96 ab	97 cd
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
7	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	98 ab	99 ab	98 abc
7	GUARDSMAN MAX	5	SE	1.87	lb ai/a	3	pt/a	PRE	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	72 d	97 cd	98 ab	97 cd
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
9	VERDICT	5.57	EC	0.566	lb ai/a	13	fl oz/a	PRE	A	93 bc	98 ab	98 ab	98 a-d
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
9	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	10-14"CN	B				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
10	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	97 ab	97 bcd	99 ab	99 a
10	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A				
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	97 ab	98 abc	99 ab	99 ab
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	10-14"CN	B				
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	98 ab	99 a	99 a	99 a
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	10-14"CN	B				
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
13	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	97 ab	98 abc	97 ab	96 d
13	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
13	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				

LSD (P=.05)

5.0 1.5 2.8 1.7

Replicate F

0.418 1.602 0.950 1.524

Replicate Prob(F)

0.6635 0.2223 0.4008 0.2381

Treatment F

242.412 2813.848 793.422 2083.375

Treatment Prob(F)

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 - II.

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA	AMATA	AMATA	AMATA			
							6-24-11	7-15-11	8-5-11	9-2-11			
							Control	Control	Control	Control			
							Percent	Percent	Percent	Percent			
							19 DA-A	40 DA-A	61 DA-A	89 DA-A			
							0 DA-B	21 DA-B	42 DA-B	70 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 c	0 c	0 b	0 c
2	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	99 a	99 a	98 a	97 ab
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
3	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a	97 ab
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
4	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	99 a	99 a	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	10-14"CN	B				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
5	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	99 a	99 a	98 ab
5	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
6	HARNESS XTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	96 b	98 b	98 a	96 b
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
7	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	99 a	98 a	98 ab
7	GUARDSMAN MAX	5	SE	1.87	lb ai/a	3	pt/a	PRE	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	99 a	98 b	98 a	98 ab
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
9	VERDICT	5.57	EC	0.566	lb ai/a	13	fl oz/a	PRE	A	99 a	99 a	99 a	98 ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
9	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	10-14"CN	B				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
10	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	99 a	99 a
10	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A				
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	99 a
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	10-14"CN	B				
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	99 a
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	10-14"CN	B				
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
13	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	99 a	99 a	98 a	98 ab
13	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
13	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
LSD (P=.05)										2.5	0.5	1.6	2.4
Replicate F										0.958	1.867	3.273	4.132
Replicate Prob(F)										0.3983	0.1764	0.0554	0.0287
Treatment F										1039.313	23459.602	2443.161	1073.570
Treatment Prob(F)										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 - II.

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Pest Code	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code				
Rating Date	6-24-11	7-15-11	8-5-11	9-2-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	19 DA-A	40 DA-A	61 DA-A	89 DA-A
Trt-Eval Interval	0 DA-B	21 DA-B	42 DA-B	70 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0 c	0 b	0 c	0 c
2	VERDICT	5.57	EC	0.65	lb ai/a	15	fl oz/a	PRE	A	98 a	99 a	99 a	97 ab
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
3	LEXAR	3.7	SC	1.85	lb ai/a	2	qt/a	PRE	A	99 a	98 a	97 b	96 b
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
4	CORVUS	2.62	SC	0.115	lb ai/a	5.6	fl oz/a	PRE	A	98 a	98 a	98 ab	96 b
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	10-14"CN	B				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
5	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	97 a	99 a	98 ab	98 ab
5	ZIDUA	85	WG	0.133	lb ai/a	2.5	oz/a	PRE	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
6	HARNESS XTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	77 b	98 a	98 ab	96 b
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
7	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5	fl oz/a	PRE	A	99 a	99 a	99 a	98 ab
7	GUARDSMAN MAX	5	SE	1.87	lb ai/a	3	pt/a	PRE	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	70 b	98 a	99 a	98 ab
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
9	VERDICT	5.57	EC	0.566	lb ai/a	13	fl oz/a	PRE	A	80 b	98 a	99 a	98 ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
9	STATUS	56	WG	0.0875	lb ae/a	2.5	oz/a	10-14"CN	B				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
10	LEXAR	3.7	SC	2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	98 ab	98 a
10	PRINCEP	4	SC	1	lb ai/a	1	qt/a	PRE	A				
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	94 a	98 a	99 a	98 ab
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	10-14"CN	B				
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	98 ab
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	10-14"CN	B				
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
13	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a	PRE	A	98 a	98 a	98 ab	97 ab
13	AATREX	4	SC	1	lb ai/a	1	qt/a	PRE	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10-14"CN	B				
13	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	10-14"CN	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	10-14"CN	B				
LSD (P=.05)						14.2		1.9		1.4		1.9	
Replicate F						1.337		1.553		1.084		0.756	
Replicate Prob(F)						0.2824		0.2321		0.3543		0.4802	
Treatment F						31.996		1857.404		3374.181		1743.356	
Treatment Prob(F)						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 - II.

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	ABUTH	ABUTH	ABUTH	ABUTH		
							6-24-11	7-15-11	8-5-11	9-2-11		
							Control	Control	Control	Control		
							Percent	Percent	Percent	Percent		
							19 DA-A	40 DA-A	61 DA-A	89 DA-A		
							0 DA-B	21 DA-B	42 DA-B	70 DA-B		
1	NONTREATED						0 c	0 c	0 d	0 c		
2	VERDICT	5.57	EC	0.65	lb ai/a	15 fl oz/a	PRE	A	96 a	99 a	98 abc	99 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
2	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
3	LEXAR	3.7	SC	1.85	lb ai/a	2 qt/a	PRE	A	99 a	98 a	99 a	99 a
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
3	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
4	CORVUS	2.62	SC	0.115	lb ai/a	5.6 fl oz/a	PRE	A	99 a	98 a	97 bc	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	10-14"CN	B				
4	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
5	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5 fl oz/a	PRE	A	99 a	99 a	99 a	99 a
5	ZIDUA	85	WG	0.133	lb ai/a	2.5 oz/a	PRE	A				
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
5	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
6	HARNESS XTRA 5.6	5.6	EC	2.1	lb ai/a	1.5 qt/a	PRE	A	60 b	94 b	97 c	97 b
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
6	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
7	SHARPEN	2.85	SC	0.0557	lb ai/a	2.5 fl oz/a	PRE	A	98 a	98 a	99 a	99 a
7	GUARDSMAN MAX	5	SE	1.87	lb ai/a	3 pt/a	PRE	A				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
7	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a	PRE	A	60 b	99 a	99 ab	99 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
8	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
9	VERDICT	5.57	EC	0.566	lb ai/a	13 fl oz/a	PRE	A	86 a	99 a	99 a	99 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
9	STATUS	56	WG	0.0875	lb ae/a	2.5 oz/a	10-14"CN	B				
9	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
10	LEXAR	3.7	SC	2.78	lb ai/a	3 qt/a	PRE	A	99 a	97 a	99 ab	99 a
10	PRINCEP	4	SC	1	lb ai/a	1 qt/a	PRE	A				
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5 qt/a	PRE	A	99 a	99 a	99 ab	99 a
11	LEXAR	3.7	SC	1.39	lb ai/a	1.5 qt/a	10-14"CN	B				
12	LEXAR	3.7	SC	1.39	lb ai/a	1.5 qt/a	PRE	A	99 a	99 a	99 a	99 a
12	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a	10-14"CN	B				
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
12	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
13	CORVUS	2.62	SC	0.0614	lb ai/a	3 fl oz/a	PRE	A	99 a	98 a	98 abc	98 ab
13	AATREX	4	SC	1	lb ai/a	1 qt/a	PRE	A				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	10-14"CN	B				
13	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	10-14"CN	B				
13	N-PAK AMS	100	SL	5	% v/v	5 % v/v	10-14"CN	B				
LSD (P=.05)									14.9	2.2	1.5	1.1
Replicate F									1.914	1.660	0.637	1.000
Replicate Prob(F)									0.1703	0.2113	0.5377	0.3827
Treatment F									32.399	1324.762	2926.989	5484.719
Treatment Prob(F)									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 - II.

Trial ID: 11-2B-E75

Location: Belleville Res. Center

Trial Comments

1. Protocol: BASF, Syngenta, Bayer.
2. Ratings: CI/WC at 0, 21, 42, and 70 DA-B;  
Consider an evaluation at 28 DA-A if the B application is delayed.
3. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).