

Early Postemergence Herbicide Programs in Corn.

Trial ID: 10-2A-E125

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:** 06-04-10

Objectives: Evaluate the foliar and residual weed control from early postemergence applications of competitive corn herbicide programs.

Crop 1: ZEAMD Dent corn **Variety:** DKC 61-21 GENSS **Description:** RR2/LL
Planting Method: SEEDED **Planting Date:** 06-04-10
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: CYPES	Cyperus esculentus L.	nutsedge, yellow
Pest 3 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common
Pest 4 Type: W	Code: ABUTH	Abutilon theophrasti Medicus	velvetleaf
Pest 5 Type: W	Code: XANST	Xanthium strumarium L.	cocklebur, common
Pest 6 Type: W	Code: IPOSS		morningglory, species
Pest 7 Type: W	Code: AMBTR	Ambrosia trifida L.	ragweed, giant

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 28 FT **Tillage Type:** REDUCED-TILL
Replications: 4 **Study Design:** Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2009

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

% OM: 1.6	Texture: SILT LOAM
pH: 5.9	Soil Name: PIERRON
CEC: 6	Fert. Level: P1:41 LB/A, K:257 LB/A

	Application Description			
	A		B	
Application Date:	06-14-10	06-21-10		
Time of Day:	8:00	12:00		
Application Method:	Spray	Spray		
Application Timing:	1-2"W	2-4"W		
Application Placement:	BROFOL	BROFOL		
Applied By:	RFK	JK		
Air Temperature, Unit:	80 F	88 F		
% Relative Humidity:	92	92		
Wind Velocity, Unit:	3 MPH	2 MPH		
Wind Direction:	S	E		
Soil Moisture:	NORMAL	NORMAL		
% Cloud Cover:	0	0		
	06-14-10	06-21-10		
Crop stage at application:	V2	V5		
Height Min, Max (inch):	3 5 10 12			

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	Pest Stage At Each Application			
	06-14-10		06-21-10	
Application Date:	06-14-10		06-21-10	
Weed Code:	SETFA		SETFA	
Stage Majority (leaves):	2	5		
Stage Min, Max:	1	3 4	6	
Height Majority:	1	IN 5	IN	
Height Min, Max:	0	2 4	7	
Density, Unit:	0.1	FT2 0.01	FT2	
Weed Code:	CYPES		CYPES	
Stage Majority (leaves):	4	4		
Stage Min, Max:	3	4 2	4	
Height Majority:	2	IN 5	IN	
Height Min, Max:	1	3 3	7	
Density, Unit:	0.1	FT2 0.3	FT2	
Weed Code:	AMATA		AMATA	
Stage Majority (leaves):	4	6		
Stage Min, Max:	4	5 COTY	10	
Height Majority:	0.5	IN 4	IN	
Height Min, Max:	0	1 0.5	6	
Density, Unit:	0.1	FT2 0.1	FT2	
Weed Code:	ABUTH		ABUTH	
Stage Majority (leaves):	4	4		
Stage Min, Max:	4	6 4	6	
Height Majority:	1	IN 5	IN	
Height Min, Max:	1	2 3	6	
Density, Unit:	0.1	FT2 0.1	FT2	
Weed Code:	XANST		XANST	
Stage Majority (leaves):	4	7		
Stage Min, Max:	5	6 6	8	
Height Majority:	1	IN 5	IN	
Height Min, Max:	1	2 4	6	
Density, Unit:	0.1	FT2 0.1	FT2	
Weed Code:	IPOSS		IPOSS	
Stage Majority (leaves):	2	3		
Stage Min, Max:	1	3 COTY	5	
Height Majority:	0.5	IN 4	IN	
Height Min, Max:	0	1 1	5	
Density, Unit:	0.1	FT2 0.1	FT2	
Weed Code:	AMBTR		AMBTR	
Stage Majority (leaves):	4	4		
Stage Min, Max:	5	6 2	4	
Height Majority:	1	IN 4	IN	
Height Min, Max:	1	2 3	4	
Density, Unit:	0.1	FT2 0.1	FT2	

Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 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 Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

ZEAMD 10-18-10 Moisture Percent
ZEAMD 10-18-10 Test wt. lb/bu
ZEAMD 10-18-10 Yield bu/A
ZEAMD 07-05-10 Injury Percent
ZEAMD 07-19-10 Injury Percent
ZEAMD 08-16-10 Injury Percent

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									13.5 a	61.9 ab	101 d	0 c	0 a	0 a
2	REALM Q					4 oz/a		2-4"W	B	13.4 a	61.9 a	152 abc	0 c	0 a	0 a
2	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B						
2	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B						
2	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B						
2	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
2	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
3	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a		2-4"W	B	13.6 a	62.0 a	150 bc	13 a	0 a	0 a
3	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
3	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
4	REALM Q					4 oz/a		2-4"W	B	13.0 a	62.1 a	168 a	5 bc	0 a	0 a
4	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B						
4	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B						
4	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B						
4	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a		2-4"W	B						
4	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
5	CORVUS	2.62	SC	0.115	lb ai/a	5.6 fl oz/a		2-4"W	B	13.4 a	62.0 a	156 abc	14 a	0 a	0 a
5	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
6	STEADFAST Q	37.7	WG			1.5 oz/a		2-4"W	B	13.1 a	62.0 a	163 abc	3 bc	0 a	0 a
6	ACCENT	75	WG	0.02362	lb ai/a			2-4"W	B						
6	RESOLVE SG	25	SG	0.01172	lb ai/a			2-4"W	B						
6	DPX-4145	50	WG	0.0078	lb ai/a			2-4"W	B						
6	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
6	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
7	RESOLVE Q	22.4	WG			1.25 oz/a		2-4"W	B	13.2 a	62.0 a	155 abc	3 bc	0 a	0 a
7	RESOLVE SG	25	SG	0.01437	lb ai/a			2-4"W	B						
7	HARMONY SG	50	SG	0.00313	lb ai/a			2-4"W	B						
7	DPX-4145	50	WG	0.00719	lb ai/a			2-4"W	B						
7	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
7	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		1-2"W	A	13.3 a	62.0 a	164 abc	3 bc	0 a	0 a
8	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		1-2"W	A						
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		1-2"W	A						
9	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		2-4"W	B	13.3 a	62.0 a	160 abc	0 c	0 a	0 a
9	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		2-4"W	B						
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
10	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	13.7 a	61.4 b	155 abc	0 c	0 a	0 a
10	SOLIDA	25	WG	0.0156	lb ai/a	1 oz/a		2-4"W	B						
10	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
11	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	13.3 a	62.0 a	155 abc	0 c	0 a	0 a
11	NIC-IT	2	OD	0.0313	lb ai/a	2 fl oz/a		2-4"W	B						
11	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
12	LEXAR	3.7	SC	2.78	lb ai/a	3 qt/a		2-4"W	B	13.7 a	61.8 ab	148 c	8 ab	0 a	0 a
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24 fl oz/a		2-4"W	B						
12	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
13	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	13.1 a	62.1 a	155 abc	0 c	0 a	0 a
13	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
14	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	13.0 a	62.1 a	158 abc	0 c	0 a	0 a
14	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
14	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						

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

ZEAMD 10-18-10 Moisture Percent	ZEAMD 10-18-10 Test wt. lb/bu	ZEAMD 10-18-10 Yield bu/A	ZEAMD 07-05-10 Injury Percent	ZEAMD 07-19-10 Injury Percent	ZEAMD 08-16-10 Injury Percent
			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													
15	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	2-4"W	B	13.1	a	62.0	a	166	ab	0	c	0	a	0	a	
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B													
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W	B													
LSD (P=.05)										0.87		0.45		16.5		6.3		0.0		0.0		
Replicate F										0.793		1.733		1.655		0.659		0.000		0.000		
Replicate Prob(F)										0.5053		0.1760		0.1925		0.5820		1.0000		1.0000		
Treatment F										0.555		1.090		7.393		4.508		0.000		0.000		
Treatment Prob(F)										0.8829		0.3960		0.0001		0.0001		1.0000		1.0000		

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

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Pest Code										SETFA	SETFA	SETFA	CYPES	CYPES	CYPES
Crop Code										07-05-10	07-19-10	08-16-10	07-05-10	07-19-10	08-16-10
Rating Date										Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit															
Rating Timing															
Trt-Eval Interval										14 DA-B	28 DA-B	56 DA-B	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	NONTREATED									0 c	0 c	0 c	0 d	0 e	0 c
2	REALM Q					4 oz/a		2-4"W	B	99 a	99 a	99 a	99 a	95 ab	98 a
2	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B						
2	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B						
2	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B						
2	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
2	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
3	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a		2-4"W	B	99 a	99 a	99 a	97 a	94 abc	98 a
3	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
3	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
4	REALM Q					4 oz/a		2-4"W	B	99 a	98 a	99 a	99 a	94 abc	97 a
4	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B						
4	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B						
4	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B						
4	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a		2-4"W	B						
4	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
5	CORVUS	2.62	SC	0.115	lb ai/a	5.6 fl oz/a		2-4"W	B	73 b	65 b	70 b	99 a	98 ab	94 b
5	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
6	STEADFAST Q	37.7	WG			1.5 oz/a		2-4"W	B	99 a	99 a	99 a	94 ab	91 a-d	96 a
6	ACCENT	75	WG	0.02362	lb ai/a			2-4"W	B						
6	RESOLVE SG	25	SG	0.01172	lb ai/a			2-4"W	B						
6	DPX-4145	50	WG	0.0078	lb ai/a			2-4"W	B						
6	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
6	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
7	RESOLVE Q	22.4	WG			1.25 oz/a		2-4"W	B	99 a	98 a	99 a	95 ab	88 bcd	97 a
7	RESOLVE SG	25	SG	0.01437	lb ai/a			2-4"W	B						
7	HARMONY SG	50	SG	0.00313	lb ai/a			2-4"W	B						
7	DPX-4145	50	WG	0.00719	lb ai/a			2-4"W	B						
7	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
7	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B						
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		1-2"W	A	99 a	99 a	99 a	89 bc	83 d	96 ab
8	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		1-2"W	A						
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		1-2"W	A						
9	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		2-4"W	B	99 a	97 a	97 a	94 ab	90 a-d	98 a
9	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		2-4"W	B						
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
10	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a	99 a	99 a	94 ab	91 a-d	98 a
10	SOLIDA	25	WG	0.0156	lb ai/a	1 oz/a		2-4"W	B						
10	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
11	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a	99 a	99 a	85 c	81 d	97 a
11	NIC-IT	2	OD	0.0313	lb ai/a	2 fl oz/a		2-4"W	B						
11	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
12	LEXAR	3.7	SC	2.78	lb ai/a	3 qt/a		2-4"W	B	99 a	98 a	99 a	99 a	98 a	98 a
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24 fl oz/a		2-4"W	B						
12	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
13	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a	98 a	99 a	83 c	85 cd	98 a
13	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						
14	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a	99 a	99 a	97 a	93 abc	97 a
14	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B						
14	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B						

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Pest Code	SETFA	SETFA	SETFA	CYPES	CYPES	CYPES
Crop Code						
Rating Date	07-05-10	07-19-10	08-16-10	07-05-10	07-19-10	08-16-10
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	14 DA-B	28 DA-B	56 DA-B	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						
15	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	2-4"W	B	99 a	99 a	99 a	95 ab	96 ab	97 a
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B						
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W	B						
LSD (P=.05)										1.9	3.9	3.1	7.7	10.1	2.4
Replicate F										0.930	0.733	0.649	2.648	2.831	1.481
Replicate Prob(F)										0.4348	0.5383	0.5879	0.0613	0.0498	0.2336
Treatment F										1596.283	377.231	563.178	85.623	46.615	857.100
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

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								AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH
Pest Code								07-05-10	07-19-10	08-16-10	07-05-10	07-19-10	08-16-10
Crop Code								Control	Control	Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type													
Rating Unit													
Rating Timing													
Trt-Eval Interval								14 DA-B	28 DA-B	56 DA-B	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	NONTREATED									0 b	0 b	0 b	0 b
2	REALM Q					4 oz/a		2-4"W	B	99 a	99 a	99 a	99 a
2	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B				
2	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B				
2	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B				
2	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
2	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
3	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a		2-4"W	B	99 a	99 a	99 a	99 a
3	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
3	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
4	REALM Q					4 oz/a		2-4"W	B	99 a	99 a	99 a	99 a
4	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B				
4	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B				
4	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B				
4	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a		2-4"W	B				
4	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
5	CORVUS	2.62	SC	0.115	lb ai/a	5.6 fl oz/a		2-4"W	B	99 a	99 a	99 a	99 a
5	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
6	STEADFAST Q	37.7	WG			1.5 oz/a		2-4"W	B	99 a	99 a	99 a	99 a
6	ACCENT	75	WG	0.02362	lb ai/a			2-4"W	B				
6	RESOLVE SG	25	SG	0.01172	lb ai/a			2-4"W	B				
6	DPX-4145	50	WG	0.0078	lb ai/a			2-4"W	B				
6	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
6	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
7	RESOLVE Q	22.4	WG			1.25 oz/a		2-4"W	B	99 a	99 a	99 a	99 a
7	RESOLVE SG	25	SG	0.01437	lb ai/a			2-4"W	B				
7	HARMONY SG	50	SG	0.00313	lb ai/a			2-4"W	B				
7	DPX-4145	50	WG	0.00719	lb ai/a			2-4"W	B				
7	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
7	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		1-2"W	A	99 a	99 a	99 a	99 a
8	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		1-2"W	A				
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		1-2"W	A				
9	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		2-4"W	B	99 a	99 a	99 a	99 a
9	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		2-4"W	B				
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
10	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a	99 a	99 a	99 a
10	SOLIDA	25	WG	0.0156	lb ai/a	1 oz/a		2-4"W	B				
10	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
11	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a	99 a	99 a	99 a
11	NIC-IT	2	OD	0.0313	lb ai/a	2 fl oz/a		2-4"W	B				
11	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
12	LEXAR	3.7	SC	2.78	lb ai/a	3 qt/a		2-4"W	B	99 a	99 a	99 a	99 a
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24 fl oz/a		2-4"W	B				
12	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
13	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a	99 a	99 a	99 a
13	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
14	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a	99 a	99 a	99 a
14	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
14	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				

Early Postemergence Herbicide Programs in Corn.

Trial ID: 10-2A-E125

Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH
Crop Code						
Rating Date	07-05-10	07-19-10	08-16-10	07-05-10	07-19-10	08-16-10
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	14 DA-B	28 DA-B	56 DA-B	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						
15	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	2-4"W	B	99 a	99 a	99 a	99 a	99 a	99 a
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B						
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W	B						
LSD (P=.05)										0.0	0.0	0.0	0.0	0.8	0.3
Replicate F										0.000	0.000	0.000	0.000	0.770	0.651
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	0.5174	0.5867
Treatment F										0.000	0.000	0.000	0.000	8396.356	76530.219
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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

Early Postemergence Herbicide Programs in Corn.

Trial ID: 10-2A-E125

Location: Belleville Res. Center

								XANST	XANST	XANST	IPOSS	IPOSS	IPOSS
Pest Code								07-05-10	07-19-10	08-16-10	07-05-10	07-19-10	08-16-10
Crop Code								Control	Control	Control	Control	Control	Control
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type													
Rating Unit													
Rating Timing													
Trt-Eval Interval								14 DA-B	28 DA-B	56 DA-B	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	NONTREATED									0 c	0 e	0 d	0 c
2	REALM Q					4 oz/a		2-4"W	B	99 a	96 bc	98 ab	99 a
2	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B				
2	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B				
2	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B				
2	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
2	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
3	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a		2-4"W	B	99 a	99 ab	99 a	99 a
3	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
3	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
4	REALM Q					4 oz/a		2-4"W	B	99 a	98 ab	99 a	99 a
4	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B				
4	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B				
4	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B				
4	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a		2-4"W	B				
4	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
5	CORVUS	2.62	SC	0.115	lb ai/a	5.6 fl oz/a		2-4"W	B	99 a	99 a	99 a	99 a
5	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
6	STEADFAST Q	37.7	WG			1.5 oz/a		2-4"W	B	99 a	99 ab	99 a	99 a
6	ACCENT	75	WG	0.02362	lb ai/a			2-4"W	B				
6	RESOLVE SG	25	SG	0.01172	lb ai/a			2-4"W	B				
6	DPX-4145	50	WG	0.0078	lb ai/a			2-4"W	B				
6	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
6	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
7	RESOLVE Q	22.4	WG			1.25 oz/a		2-4"W	B	99 a	99 ab	99 a	99 ab
7	RESOLVE SG	25	SG	0.01437	lb ai/a			2-4"W	B				
7	HARMONY SG	50	SG	0.00313	lb ai/a			2-4"W	B				
7	DPX-4145	50	WG	0.00719	lb ai/a			2-4"W	B				
7	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
7	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B				
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		1-2"W	A	98 b	98 ab	99 a	98 b
8	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		1-2"W	A				
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		1-2"W	A				
9	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		2-4"W	B	99 a	99 ab	99 a	99 a
9	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		2-4"W	B				
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
10	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a	94 cd	97 c	99 a
10	SOLIDA	25	WG	0.0156	lb ai/a	1 oz/a		2-4"W	B				
10	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
11	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a	93 d	98 bc	99 a
11	NIC-IT	2	OD	0.0313	lb ai/a	2 fl oz/a		2-4"W	B				
11	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
12	LEXAR	3.7	SC	2.78	lb ai/a	3 qt/a		2-4"W	B	99 a	98 ab	99 a	99 a
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24 fl oz/a		2-4"W	B				
12	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
13	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a	97 ab	98 ab	99 a
13	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				
14	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a	99 a	99 a	99 a
14	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B				
14	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B				

Early Postemergence Herbicide Programs in Corn.

Trial ID: 10-2A-E125

Location: Belleville Res. Center

										XANST	XANST	XANST	IPOSS	IPOSS	IPOSS
Pest Code										07-05-10	07-19-10	08-16-10	07-05-10	07-19-10	08-16-10
Crop Code										Control	Control	Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type															
Rating Unit															
Rating Timing															
Trt-Eval Interval										14 DA-B	28 DA-B	56 DA-B	14 DA-B	28 DA-B	56 DA-B
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl							
No.	Name	Conc	Type	Unit	Rate	Rate	Unit	Stage	Code						
15	DEGREE XTRA	4.04	CS		2.02 lb ai/a	2 qt/a	2-4"W	B		99 a	99 a	99 a	99 a	98 a	99 a
15	ROUNDUP POWERMAX	4.5	SL		0.77 lb ae/a	22 fl oz/a	2-4"W	B							
15	N-PAK AMS	100	SL		5 % v/v	5 % v/v	2-4"W	B							
LSD (P=.05)										0.2	2.8	0.9	0.2	3.3	0.6
Replicate F										1.000	1.480	0.118	1.000	1.443	0.596
Replicate Prob(F)										0.4023	0.2338	0.9493	0.4023	0.2440	0.6209
Treatment F										156655.297	647.438	6851.673	156655.297	482.214	14741.934
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Early Postemergence Herbicide Programs in Corn.

Trial ID: 10-2A-E125

Location: Belleville Res. Center

								AMBTR	AMBTR	AMBTR
Pest Code								07-05-10	07-19-10	08-16-10
Crop Code								Control	Control	Control
Rating Date								Percent	Percent	Percent
Rating Data Type										
Rating Unit										
Rating Timing										
Trt-Eval Interval								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	NONTREATED									0 c 0 d 0 c
2	REALM Q					4 oz/a		2-4"W	B	99 a 99 a 99 a
2	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B	
2	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B	
2	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B	
2	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B	
2	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	
2	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
3	CAPRENO	3.45	SC	0.081	lb ai/a	3 fl oz/a		2-4"W	B	99 a 99 a 99 a
3	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B	
3	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	
3	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
4	REALM Q					4 oz/a		2-4"W	B	99 a 99 a 99 a
4	RESOLVE SG	25	SG	0.0188	lb ai/a			2-4"W	B	
4	DPX-4145	50	WG	0.0094	lb ai/a			2-4"W	B	
4	MESOTRIONE	50	WG	0.078	lb ai/a			2-4"W	B	
4	AATREX	4	SC	1.5	lb ai/a	1.5 qt/a		2-4"W	B	
4	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	
4	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
5	CORVUS	2.62	SC	0.115	lb ai/a	5.6 fl oz/a		2-4"W	B	99 a 99 a 99 a
5	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B	
5	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
6	STEADFAST Q	37.7	WG			1.5 oz/a		2-4"W	B	99 a 99 a 99 a
6	ACCENT	75	WG	0.02362	lb ai/a			2-4"W	B	
6	RESOLVE SG	25	SG	0.01172	lb ai/a			2-4"W	B	
6	DPX-4145	50	WG	0.0078	lb ai/a			2-4"W	B	
6	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B	
6	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	
6	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
7	RESOLVE Q	22.4	WG			1.25 oz/a		2-4"W	B	99 a 99 a 99 b
7	RESOLVE SG	25	SG	0.01437	lb ai/a			2-4"W	B	
7	HARMONY SG	50	SG	0.00313	lb ai/a			2-4"W	B	
7	DPX-4145	50	WG	0.00719	lb ai/a			2-4"W	B	
7	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B	
7	ABUNDIT XTRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	
7	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
8	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		1-2"W	A	99 b 98 b 99 a
8	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		1-2"W	A	
8	N-PAK AMS	100	SL	5	% v/v	5 % v/v		1-2"W	A	
9	SURESTART	4.25	SE	0.93	lb ai/a	1.75 pt/a		2-4"W	B	99 a 99 a 99 a
9	DURANGO DMA	4	SL	0.75	lb ae/a	24 fl oz/a		2-4"W	B	
9	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
10	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a 98 ab 99 a
10	SOLIDA	25	WG	0.0156	lb ai/a	1 oz/a		2-4"W	B	
10	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
11	GLYFOS X-TRA	3	SL	0.75	lb ae/a	32 fl oz/a		2-4"W	B	99 a 96 c 99 a
11	NIC-IT	2	OD	0.0313	lb ai/a	2 fl oz/a		2-4"W	B	
11	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
12	LEXAR	3.7	SC	2.78	lb ai/a	3 qt/a		2-4"W	B	99 a 99 a 99 a
12	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24 fl oz/a		2-4"W	B	
12	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
13	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a 99 a 99 a
13	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	
14	HALEX GT	4.38	CS	1.97	lb ai/a	3.6 pt/a		2-4"W	B	99 a 99 a 99 a
14	AATREX	4	SC	1	lb ai/a	1 qt/a		2-4"W	B	
14	N-PAK AMS	100	SL	5	% v/v	5 % v/v		2-4"W	B	

Early Postemergence Herbicide Programs in Corn.

Trial ID: 10-2A-E125

Location: Belleville Res. Center

Pest Code	AMBTR	AMBTR	AMBTR
Crop Code			
Rating Date	07-05-10	07-19-10	08-16-10
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Timing			
Trt-Eval Interval	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			
15	DEGREE XTRA	4.04	CS	2.02	lb ai/a	2	qt/a	2-4"W	B	99 a	99 a	99 a
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W	B			
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	2-4"W	B			
LSD (P=.05)										0.2	1.2	0.2
Replicate F										1.000	0.352	1.000
Replicate Prob(F)										0.4023	0.7882	0.4023
Treatment F										156760.438	3817.192	156760.438
Treatment Prob(F)										0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: DuPont (USA-10-296), Dow, Cheminova, Syngenta, Bayer.
2. Ratings: CI/WC at 14, 28, and 56 DA-B.
3. Yield.
4. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
5. Harvested 10-18-10, (2) 30 inch rows by 25 ft.