

Fall Applied Herbicides

Southern Illinois University

General Evaluation of Fall Herbicides Prior to Corn.

Trial ID: 08-6B-N60 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: 11-17-07

Objectives: Evaluate the efficacy of various herbicide programs applied in the fall prior to corn planting.

Crop 1: ZEAMX corn, field Variety: P33K44
Planting Method: Seeded Planting Date: 06-14-08
Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Pest 1 Type: W	Code: LAMAM	Lamium amplexicaule L.	henbit
Pest 2 Type: W	Code: STEME	Stellaria media (L.) Vill.	chickweed, common
Pest 3 Type: W	Code: ALOCA	Alopecurus carolinianus Walt.	foxtail, Carolina
Pest 4 Type: W	Code: PANDI	Panicum dichotomiflorum Michx.	panicum, fall
Pest 5 Type: W	Code: AMATA	Amaranthus rudis Sauer	waterhemp, common
Pest 6 Type: W	Code: XANST	Xanthium strumarium L.	cocklebur, common

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 32 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
1. GLXMA 2007

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

% OM:	1.6	Texture:	SILT LOAM
pH:	6.4	Soil Name:	CASEYVILLE
CEC:	8	Fert. Level:	P1 81 LB/A, K 414 LB/A

	Application Description		
	A	B	C
Application Date:	11-17-07	06-16-08	07-16-08
Time of Day:	15:30	7:00	14:30
Application Method:	Spray	Spray	Spray
Application Timing:	FALL	0DAP-IN	25DAE
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:			TGM
Air Temperature, Unit:	68 F	72 F	86 F
% Relative Humidity:	30	90	58
Wind Velocity, Unit:	3 MPH	2 MPH	3 MPH
Dew Presence (Y/N):	N		N
Soil Temperature, Unit:	50 F	71 F	87 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:		70	10
	11-17-07	06-16-08	07-16-08
Crop stage at application:	NA	NA	V6
Height Min, Max (inch):			36 54

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	Pest Stage At Each Application		
Application Date:	11-17-07	06-16-08	07-16-08
Weed Code:	LAMAM	LAMAM	LAMAM
Stage Majority (leaves):	6	NA	NA
Stage Min, Max:	4 6		
Height Majority:	3	IN	
Height Min, Max:	1 3		
Density, Unit:	4	FT2	
Weed Code:	STEME	STEME	STEME
Stage Majority (leaves):	4	NA	NA
Stage Min, Max:	2 4		
Height Majority:	2	IN	
Height Min, Max:	1 2		
Density, Unit:	1	FT2	
Weed Code:	ALOCA	ALOCA	ALOCA
Stage Majority (leaves):	NA	NA	NA
Weed Code:	PANDI	PANDI	PANDI
Stage Majority (leaves):	NA	5	12
Stage Min, Max:	2	5 6	14
Height Majority:		10	IN 30
Height Min, Max:		8 12	18 32
Density, Unit:		5	FT2 5 FT2
Weed Code:	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	8	24
Stage Min, Max:		4 12	5 48
Height Majority:		5	IN 24
Height Min, Max:		2 6	4 38
Density, Unit:		3	FT2 3 FT2
Weed Code:	XANST	XANST	XANST
Stage Majority (leaves):	NA	6	NA
Stage Min, Max:		2	8
Height Majority:		7	IN
Height Min, Max:		3	12
Density, Unit:		1	FT2

Application Equipment

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

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Pest Code	LAMAM	LAMAM	LAMAM	STEME	STEME	STEME
Crop Code						
Rating Date	12-08-07	03-01-08	04-01-08	12-08-07	03-01-08	04-01-08
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	21 DA-A	105 DA-A	136 DA-A	21 DA-A	105 DA-A	136 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NONTREATED										0 d	0 c	0 b	0 d	0 c	0 b
2	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	60 b	99 a	99 a	60 b	99 a	99 a	
2	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A							
2	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
2	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A							
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
2	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
2	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
2	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
2	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
2	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	50 c	95 b	99 a	50 c	95 b	98 a	
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
3	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
3	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A							
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
3	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
3	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
3	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
3	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
3	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
4	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	50 c	99 a	99 a	50 c	99 a	99 a	
4	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A							
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A							
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
4	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
4	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
4	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
4	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
4	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A	50 c	99 a	99 a	50 c	99 a	99 a	
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A							
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
5	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
5	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
5	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
5	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
5	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
6	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A	50 c	99 a	99 a	50 c	99 a	99 a	
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
6	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
6	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
6	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
6	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
6	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
6	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							

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Pest Code		LAMAM LAMAM LAMAM STEME STEME STEME													
Crop Code		12-08-07 03-01-08 04-01-08 12-08-07 03-01-08 04-01-08													
Rating Date		Control Control Control Control Control Control													
Rating Data Type		Percent Percent Percent Percent Percent Percent													
Rating Unit		21 DA-A 105 DA-A 136 DA-A 21 DA-A 105 DA-A 136 DA-A													
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
7	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	50 c	99 a	99 a	50 c	99 a	99 a
7	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
7	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A						
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B						
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B						
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C						
7	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C						
7	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C						
7	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C						
7	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C						
7	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C						
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C						
8	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	83 a	99 a	99 a	90 a	99 a	99 a
8	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A						
8	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A						
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B						
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B						
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C						
8	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C						
8	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C						
8	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C						
8	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C						
8	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C						
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C						
LSD (P=.05)										3.6	2.8	0.0	0.0	2.8	1.4
Replicate F										1.000	1.000	0.000	0.000	1.000	1.000
Replicate Prob(F)										0.3927	0.3927	1.0000	1.0000	0.3927	0.3927
Treatment F										381.143	1430.735	0.000	0.000	1430.735	5492.849
Treatment Prob(F)										0.0001	0.0001	1.0000	1.0000	0.0001	0.0001

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

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Trial ID: 08-6B-N60 Location: Belleville Res. Center

Pest Code									ALOCA	ALOCA	ALOCA	PANDI	PANDI	PANDI	PANDI	
Crop Code									05-28-08	06-14-08	06-29-08	05-28-08	06-14-08	06-29-08	07-14-08	
Rating Date									Control	Control	Control	Control	Control	Control	Control	
Rating Data Type									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit											10 DAE			10 DAE	25 DAE	
Rating Timing																
Trt-Eval Interval									193 DA-A	210 DA-A	225 DA-A	193 DA-A	210 DA-A	225 DA-A	240 DA-A	
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 c	0 c	0 c	0 c
2	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	98 a	98 a	98 ab	0 c	0 c	94 ab	83 ab
2	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A							
2	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
2	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A							
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
2	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
2	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
2	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
2	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
2	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	50 b	50 b	97 b	0 c	0 c	95 ab	80 ab
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
3	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
3	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A							
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
3	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
3	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
3	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
3	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
3	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
4	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	99 a	99 a	99 a	0 c	0 c	94 ab	90 ab
4	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A							
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A							
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
4	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
4	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
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4	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
4	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A	96 a	96 a	99 a	0 c	0 c	91 b	77 b
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A							
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
5	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
5	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
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5	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
5	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
6	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A	99 a	99 a	99 a	33 b	33 b	98 a	94 ab
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
6	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
6	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
6	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
6	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
6	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
6	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							

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Pest Code		ALOCA		ALOCA		ALOCA		PANDI		PANDI		PANDI		PANDI		
Crop Code		05-28-08		06-14-08		06-29-08		05-28-08		06-14-08		06-29-08		07-14-08		
Rating Date		Control		Control		Control		Control		Control		Control		Control		
Rating Data Type		Percent		Percent		Percent		Percent		Percent		Percent		Percent		
Rating Unit		10 DAE		10 DAE		10 DAE		10 DAE		10 DAE		10 DAE		25 DAE		
Rating Timing		193 DA-A		210 DA-A		225 DA-A		193 DA-A		210 DA-A		225 DA-A		240 DA-A		
Trt-Eval Interval																
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
7	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	99 a	99 a	99 a	90 a	60 a	95 ab	88 ab
7	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A							
7	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
7	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
7	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
7	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
7	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
7	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
8	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	99 a	99 a	99 a	0 c	0 c	98 a	96 a
8	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A							
8	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A							
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B							
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B							
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C							
8	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C							
8	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C							
8	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C							
8	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C							
8	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C							
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C							
LSD (P=.05)										3.8	3.8	1.8	18.6	21.1	6.1	18.9
Replicate F										0.555	0.555	1.500	1.251	1.428	0.236	0.145
Replicate Prob(F)										0.5873	0.5873	0.2593	0.3185	0.2750	0.7933	0.8664
Treatment F										870.742	870.742	3635.233	28.290	10.860	280.582	25.963
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001

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

General Evaluation of Fall Herbicides Prior to Corn.

Trial ID: 08-6B-N60 Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Date	05-28-08	06-14-08	06-29-08	07-14-08
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing			10 DAE	25 DAE
Trt-Eval Interval	193 DA-A	210 DA-A	225 DA-A	240 DA-A

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 b	0 b	0 b
2	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A		0 a	0 b	68 a	37 a
2	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A					
2	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A					
2	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A					
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B					
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B					
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C					
2	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C					
2	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C					
2	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C					
2	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C					
2	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C					
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C					
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A		33 a	33 a	65 a	38 a
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
3	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A					
3	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A					
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B					
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B					
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C					
3	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C					
3	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C					
3	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C					
3	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C					
3	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C					
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C					
4	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A		0 a	0 b	63 a	38 a
4	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A					
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A					
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B					
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B					
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C					
4	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C					
4	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C					
4	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C					
4	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C					
4	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C					
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C					
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A		0 a	0 b	60 a	38 a
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A					
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B					
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B					
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C					
5	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C					
5	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C					
5	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C					
5	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C					
5	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C					
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C					
6	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A		17 a	17 ab	63 a	35 a
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
6	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A					
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B					
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B					
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C					
6	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C					
6	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C					
6	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C					
6	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C					
6	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C					
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C					

General Evaluation of Fall Herbicides Prior to Corn.

Trial ID: 08-6B-N60 Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Date	05-28-08	06-14-08	06-29-08	07-14-08
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing			10 DAE	25 DAE
Trt-Eval Interval	193 DA-A	210 DA-A	225 DA-A	240 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
7	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	0 a	0 b	58 a	30 a
7	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
7	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
7	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
7	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
7	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
7	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
7	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
8	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	17 a	0 b	68 a	32 a
8	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A				
8	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
8	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
8	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
8	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
8	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
8	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
LSD (P=.05)										33.9	28.2	12.6	13.8
Replicate F										0.283	0.000	0.682	0.268
Replicate Prob(F)										0.7583	1.0000	0.5227	0.7692
Treatment F										1.292	1.799	30.716	8.118
Treatment Prob(F)										0.3271	0.1710	0.0001	0.0007

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

General Evaluation of Fall Herbicides Prior to Corn.

Trial ID: 08-6B-N60

Location: Belleville Res. Center

								XANST	XANST	XANST	XANST		
								05-28-08	06-14-08	06-29-08	07-14-08		
								Control	Control	Control	Control		
								Percent	Percent	Percent	Percent		
										10 DAE	25 DAE		
								193 DA-A	210 DA-A	225 DA-A	240 DA-A		
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 b	0 b
2	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	85 ab	72 a	98 a	92 a
2	SENCOR	75	WG	0.47	lb ai/a	10	oz/a	FALL	A				
2	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
2	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A				
2	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
2	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
2	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
2	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
2	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
2	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
2	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
3	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	96 a	90 a	98 a	96 a
3	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
3	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
3	28% UAN	100	SL	1.5	qt/a	1.5	qt/a	FALL	A				
3	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
3	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
3	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
3	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
3	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
3	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
3	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
4	AUTUMN	10	WG	0.00187	lb ai/a	0.3	oz/a	FALL	A	95 a	90 a	98 a	98 a
4	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A				
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A				
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
4	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
4	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
4	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
4	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
4	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
4	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
5	ROUNDUP W-MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	FALL	A	93 ab	60 a	95 a	95 a
5	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	FALL	A				
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
5	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
5	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
5	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
5	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
5	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
5	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
6	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A	60 b	60 a	99 a	94 a
6	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
6	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
6	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
6	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
6	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
6	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
6	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
6	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				

General Evaluation of Fall Herbicides Prior to Corn.

Trial ID: 08-6B-N60

Location: Belleville Res. Center

Pest Code		XANST	XANST	XANST	XANST
Crop Code					
Rating Date		05-28-08	06-14-08	06-29-08	07-14-08
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing				10 DAE	25 DAE
Trt-Eval Interval		193 DA-A	210 DA-A	225 DA-A	240 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
7	BASIS	75	WG	0.0234	lb ai/a	0.5	oz/a	FALL	A	88 ab	72 a	95 a	95 a
7	2,4-D LV4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
7	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
7	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
7	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
7	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
7	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
7	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
7	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
8	GRAMOXONE INTEON	2	SL	0.5	lb ai/a	2	pt/a	FALL	A	87 ab	72 a	98 a	99 a
8	PRINCEP	4	SC	1	lb ai/a	1	qt/a	FALL	A				
8	PRIME OIL COC	100	SL	1.0	% v/v	1	% v/v	FALL	A				
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	ODAP-IN	B				
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	ODAP-IN	B				
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	25DAE	C				
8	RESOLVE Q	22.4	WG			1.25	oz/a	25DAE	C				
8	DPX-E9636	25	WG	0.01431	lb ai/a			25DAE	C				
8	HARMONY SG	50	SG	0.00313	lb ai/a			25DAE	C				
8	DPX-4145	50	WG	0.00719	lb ai/a			25DAE	C				
8	AATREX	4	SC	1	lb ai/a	1	qt/a	25DAE	C				
8	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	25DAE	C				
LSD (P=.05)										34.8	46.4	4.4	9.9
Replicate F										0.954	3.374	0.239	1.199
Replicate Prob(F)										0.4104	0.0660	0.7910	0.3327
Treatment F										8.168	3.494	566.011	108.461
Treatment Prob(F)										0.0007	0.0247	0.0001	0.0001

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

Trial Comments

1. Protocol: Bayer (BPB2), DuPont, Syngenta.
2. Ratings: WC 21 DA-A; March 1, April 1, 10 + 25 days after corn emergence.
3. Record crop growth stage at "in-crop" evaluations.
4. Application "B" is if necessary, but avoid if possible.
5. DA-A = Days after FALL application. DAE = Days after crop emergence.
6. Weed 3, ALOCA (foxtail, Carolina) was not yet emerged at the FALL application.
7. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.
Ratings on 05-28-08 and 6-14-08 correspond to 10 and 25 days after corn emergence for intended planting date, respectively.
8. Not harvested.