

Weed Management Programs in Conventional Corn.

Project Code: 07-2C-W60 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 1-23-08

Objective:
 Compare herbicide programs for use in conventional corn.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. ABUTH	velvetleaf	Abutilon theophrasti Medicus
6. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.
7. XANST	cocklebur, common	Xanthium strumarium L.

Crop 1: ZEAMX corn, field Variety: 33K44
 Planting Method: Seeded Planting Date: 5-24-07
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 28 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2006
 Field Prep./Maintenance: N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A

Soil Name: Weir % OM: 2.2 pH: 6.2 CEC: 8
 Texture: Silt loam Fert. Level: P1: 117 LB/A, K: 318 LB/A

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	5-24-07	6-9-07	6-21-07	6-26-07
Time of Day:	18:00	9:30	7:45	7:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	V2	2-4"W	10-12"CN
Applic. Placement:	BROSIO	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	84 F	70 F	74 F	74 F
% Relative Humidity:	52	66	80	92
Wind Velocity, Unit:	6-8 MPH	1-3 MPH	0-1 MPH	0 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL	ABONOR
% Cloud Cover:	80	20	20	40

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V3	ZEAMX V5	ZEAMX V6-V7
Height, Unit:	NA NA	6-7 IN	15-18 IN	28 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:			SETFA	SETFA
Stage (leaves):			2-3	2-5
Height (inches):			0-2	2-4
Density:			Low	Low
Weed 2 Code:			CYPES	CYPES
Stage (leaves):			6-8	4-8
Height (inches):			2-4	3-6
Density:			Low	Medium
Weed 3 Code:				AMBEL
Stage (leaves):				4-8
Height (inches):				2-4
Density:				Medium
Weed 4 Code:			AMATA	
Stage (leaves):			4-6	
Height (inches):			2-3	
Density:			Low	
Weed 5 Code:		ABUTH	ABUTH	ABUTH
Stage (leaves):		0-Coty	3-4	3-6
Height (inches):		0-1	2-4	3-5
Density:		Low	Medium	Medium
Weed 6 Code:		IPOHE	IPOHE	IPOHE
Stage (leaves):		0-Coty	4-6	2-4
Height (inches):		0-1	2-4	2-4
Density:		Low	Low	Low

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Weed 7 Code: XANST
Stage (leaves): 4-6
Height (inches): 2-4
Density: Low

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

NOTES:

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Moisture Yield Injury Injury Injury Injury
 Percent bu/A Percent Percent Percent Percent
 10-4-07 10-4-07 6-29-07 7-10-07 7-24-07 8-21-07
 3 DA-D 14 DA-D 28 DA-D 56 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									15.5 a	104 b	0 a	0 b	0 a	0 a
2	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	16.2 a	152 a	0 a	0 b	0 a	0 a
2	STATUS	56 WG		0.175	lb ai/a	5	oz/a	10-12"CN	D						
2	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	10-12"CN	D						
2	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	10-12"CN	D						
2	AMS	100 DRY		0.6	% w/w	5	lb/100 gal	10-12"CN	D						
3	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	16.4 a	135 ab	0 a	0 b	0 a	0 a
3	BALANCE PRO	4 SC		0.047	lb ai/a	1.5	fl oz/a	PRE	A						
4	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	17.2 a	173 a	0 a	0 b	0 a	0 a
4	MARKSMAN	3.2 L		1.2	lb ai/a	3	pt/a	V2	B						
4	AMS	100 DRY		2.5	lb ai/a	2.5	lb ai/a	V2	B						
5	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	15.8 a	163 a	0 a	0 b	0 a	0 a
5	STATUS	56 WG		0.175	lb ai/a	5	oz/a	10-12"CN	D						
5	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	10-12"CN	D						
5	AMS	100 DRY		0.6	% w/w	5	lb/100 gal	10-12"CN	D						
6	BICEP II MAGNUM	5.5 L		2.9	lb ai/a	2.1	qt/a	PRE	A	16.5 a	176 a	0 a	0 b	0 a	0 a
6	CALLISTO	4 SC		0.094	lb ai/a	3	fl oz/a	10-12"CN	D						
6	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	10-12"CN	D						
6	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
6	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	10-12"CN	D						
7	KEYSTONE	5.25 L		3.54	lb ai/a	2.7	qt/a	PRE	A	15.9 a	176 a	0 a	0 b	0 a	0 a
7	HORNET	68.5 WG		0.171	lb ai/a	4	oz/a	PRE	A						
8	SURPASS	6.4 EC		2.08	lb ai/a	2.6	pt/a	PRE	A	16.7 a	165 a	0 a	0 b	0 a	0 a
8	HORNET	68.5 WG		0.128	lb ai/a	3	oz/a	2-4"W	C						
8	CALLISTO	4 SC		0.0234	lb ai/a	0.75	fl oz/a	2-4"W	C						
8	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	2-4"W	C						
8	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W	C						
8	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	2-4"W	C						
9	KEYSTONE	5.25 L		3.54	lb ai/a	2.7	qt/a	PRE	A	16.9 a	161 a	0 a	0 b	0 a	0 a
9	HORNET	68.5 WG		0.128	lb ai/a	3	oz/a	2-4"W	C						
9	CALLISTO	4 SC		0.0234	lb ai/a	0.75	fl oz/a	2-4"W	C						
9	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	2-4"W	C						
9	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W	C						
9	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	2-4"W	C						
10	LEXAR	3.7 L		2.78	lb ai/a	3	qt/a	PRE	A	16.5 a	174 a	0 a	0 b	0 a	0 a
10	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A						
11	BALANCE PRO	4 SC		0.047	lb ai/a	1.5	fl oz/a	PRE	A	16.7 a	167 a	0 a	0 b	0 a	0 a
11	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A						
11	LAUDIS	3.5 SC		0.082	lb ai/a	3	fl oz/a	10-12"CN	D						
11	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	10-12"CN	D						
11	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
11	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	10-12"CN	D						
12	BICEP II MAGNUM	5.5 L		2.06	lb ai/a	1.5	qt/a	PRE	A	16.8 a	166 a	0 a	1 a	0 a	0 a
12	IMPACT	2.8 SC		0.0109	lb ai/a	0.5	fl oz/a	10-12"CN	D						
12	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	10-12"CN	D						
12	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
12	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	10-12"CN	D						
LSD (P=.05)										1.93	42.6	0.0	0.8	0.0	0.0
Replicate F										4.952	1.190	0.000	1.000	0.000	0.000
Replicate Prob(F)										0.0168	0.3231	1.0000	0.3840	1.0000	1.0000
Treatment F										0.583	2.069	0.000	1.000	0.000	0.000
Treatment Prob(F)										0.8221	0.0706	1.0000	0.4767	1.0000	1.0000

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

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								SETFA	SETFA	SETFA	CYPES	CYPES	CYPES	
								Control	Control	Control	Control	Control	Control	
								Percent	Percent	Percent	Percent	Percent	Percent	
								7-10-07	7-24-07	8-21-07	7-10-07	7-24-07	8-21-07	
								14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED								0 c	0 c	0 b	0 d	0 c	0 d
2	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a		PRE	A	98 ab	97 ab	97 a	82 ab	92 a	88 a
2	STATUS	56 WG		0.175 lb ai/a	5 oz/a		10-12"CN	D						
2	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a		10-12"CN	D						
2	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		10-12"CN	D						
2	AMS	100 DRY		0.6 % w/w	5 lb/100 gal		10-12"CN	D						
3	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a		PRE	A	97 ab	97 ab	93 a	68 bc	67 b	65 bc
3	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a		PRE	A						
4	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a		PRE	A	95 b	97 ab	98 a	90 ab	95 a	95 a
4	MARKSMAN	3.2 L		1.2 lb ai/a	3 pt/a		V2	B						
4	AMS	100 DRY		2.5 lb ai/a	2.5 lb ai/a		V2	B						
5	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a		PRE	A	98 a	96 ab	95 a	85 ab	92 a	85 ab
5	STATUS	56 WG		0.175 lb ai/a	5 oz/a		10-12"CN	D						
5	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		10-12"CN	D						
5	AMS	100 DRY		0.6 % w/w	5 lb/100 gal		10-12"CN	D						
6	BICEP II MAGNUM	5.5 L		2.9 lb ai/a	2.1 qt/a		PRE	A	98 a	97 ab	97 a	98 a	98 a	98 a
6	CALLISTO	4 SC		0.094 lb ai/a	3 fl oz/a		10-12"CN	D						
6	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a		10-12"CN	D						
6	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		10-12"CN	D						
6	AMS	100 DRY		1 % w/w	8.5 lb/100 gal		10-12"CN	D						
7	KEYSTONE	5.25 L		3.54 lb ai/a	2.7 qt/a		PRE	A	99 a	97 ab	96 a	53 c	52 b	55 c
7	HORNET	68.5 WG		0.171 lb ai/a	4 oz/a		PRE	A						
8	SURPASS	6.4 EC		2.08 lb ai/a	2.6 pt/a		PRE	A	98 a	95 b	97 a	89 ab	87 a	92 a
8	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a		2-4"W	C						
8	CALLISTO	4 SC		0.0234 lb ai/a	0.75 fl oz/a		2-4"W	C						
8	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a		2-4"W	C						
8	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		2-4"W	C						
8	AMS	100 DRY		2.5 lb ai/a	2.5 lb/a		2-4"W	C						
9	KEYSTONE	5.25 L		3.54 lb ai/a	2.7 qt/a		PRE	A	98 a	98 a	98 a	95 a	93 a	93 a
9	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a		2-4"W	C						
9	CALLISTO	4 SC		0.0234 lb ai/a	0.75 fl oz/a		2-4"W	C						
9	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a		2-4"W	C						
9	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		2-4"W	C						
9	AMS	100 DRY		2.5 lb ai/a	2.5 lb/a		2-4"W	C						
10	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	98 ab	97 ab	97 a	90 a	95 a	95 a
10	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A						
11	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a		PRE	A	97 ab	98 ab	98 a	83 ab	93 a	93 a
11	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A						
11	LAUDIS	3.5 SC		0.082 lb ai/a	3 fl oz/a		10-12"CN	D						
11	AATREX	90 WG		0.5 lb ai/a	8.9 oz/a		10-12"CN	D						
11	DESTINY MSO	100 LIQ		1.0 % v/v	1 % v/v		10-12"CN	D						
11	AMS	100 DRY		2.5 lb ai/a	2.5 lb/a		10-12"CN	D						
12	BICEP II MAGNUM	5.5 L		2.06 lb ai/a	1.5 qt/a		PRE	A	99 a	99 a	98 a	99 a	99 a	99 a
12	IMPACT	2.8 SC		0.0109 lb ai/a	0.5 fl oz/a		10-12"CN	D						
12	AATREX	90 WG		0.5 lb ai/a	8.9 oz/a		10-12"CN	D						
12	DESTINY MSO	100 LIQ		1.0 % v/v	1 % v/v		10-12"CN	D						
12	AMS	100 DRY		2.5 lb ai/a	2.5 lb/a		10-12"CN	D						
LSD (P=.05)									2.8	2.8	5.5	21.4	20.6	22.3
Replicate F									1.671	0.363	0.147	0.449	0.914	1.432
Replicate Prob(F)									0.2111	0.6999	0.8637	0.6442	0.4154	0.2603
Treatment F									884.297	857.146	217.994	14.374	17.020	14.045
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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 Investigator: Bryan Young

Weed Code								AMBEL	AMBEL	AMBEL	AMATA	AMATA	AMATA		
Crop Code								Control	Control	Control	Control	Control	Control		
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit								7-10-07	7-24-07	8-21-07	7-10-07	7-24-07	8-21-07		
Rating Date								14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D		
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									0 b	0 c	0 c	0 b	0 b	0 b
2	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	99 a	98 b	98 ab	99 a	99 a	99 a
2	STATUS	56 WG		0.175	lb ai/a	5	oz/a	10-12"CN	D						
2	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	10-12"CN	D						
2	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	10-12"CN	D						
2	AMS	100 DRY		0.6	% w/w	5	lb/100 gal	10-12"CN	D						
3	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	99 a	99 a	99 a	98 a	98 a	98 a
3	BALANCE PRO	4 SC		0.047	lb ai/a	1.5	fl oz/a	PRE	A						
4	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
4	MARKSMAN	3.2 L		1.2	lb ai/a	3	pt/a	V2	B						
4	AMS	100 DRY		2.5	lb ai/a	2.5	lb ai/a	V2	B						
5	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
5	STATUS	56 WG		0.175	lb ai/a	5	oz/a	10-12"CN	D						
5	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	10-12"CN	D						
5	AMS	100 DRY		0.6	% w/w	5	lb/100 gal	10-12"CN	D						
6	BICEP II MAGNUM	5.5 L		2.9	lb ai/a	2.1	qt/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
6	CALLISTO	4 SC		0.094	lb ai/a	3	fl oz/a	10-12"CN	D						
6	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	10-12"CN	D						
6	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
6	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	10-12"CN	D						
7	KEYSTONE	5.25 L		3.54	lb ai/a	2.7	qt/a	PRE	A	99 a	99 a	98 b	99 a	99 a	98 a
7	HORNET	68.5 WG		0.171	lb ai/a	4	oz/a	PRE	A						
8	SURPASS	6.4 EC		2.08	lb ai/a	2.6	pt/a	PRE	A	99 a	99 a	99 ab	99 a	99 a	99 a
8	HORNET	68.5 WG		0.128	lb ai/a	3	oz/a	2-4"W	C						
8	CALLISTO	4 SC		0.0234	lb ai/a	0.75	fl oz/a	2-4"W	C						
8	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	2-4"W	C						
8	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W	C						
8	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	2-4"W	C						
9	KEYSTONE	5.25 L		3.54	lb ai/a	2.7	qt/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
9	HORNET	68.5 WG		0.128	lb ai/a	3	oz/a	2-4"W	C						
9	CALLISTO	4 SC		0.0234	lb ai/a	0.75	fl oz/a	2-4"W	C						
9	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	2-4"W	C						
9	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W	C						
9	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	2-4"W	C						
10	LEXAR	3.7 L		2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	98 ab	98 a	98 a	98 a
10	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A						
11	BALANCE PRO	4 SC		0.047	lb ai/a	1.5	fl oz/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
11	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A						
11	LAUDIS	3.5 SC		0.082	lb ai/a	3	fl oz/a	10-12"CN	D						
11	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	10-12"CN	D						
11	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
11	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	10-12"CN	D						
12	BICEP II MAGNUM	5.5 L		2.06	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	99 a	99 a	99 a
12	IMPACT	2.8 SC		0.0109	lb ai/a	0.5	fl oz/a	10-12"CN	D						
12	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	10-12"CN	D						
12	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
12	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	10-12"CN	D						
LSD (P=.05)										0.0	1.1	1.0	0.8	0.8	1.4
Replicate F										0.000	1.000	1.375	0.478	0.478	0.647
Replicate Prob(F)										1.0000	0.3840	0.2737	0.6262	0.6262	0.5333
Treatment F										0.000	5500.563	7544.524	10521.773	10521.773	3550.629
Treatment Prob(F)										1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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

Weed Management Programs in Conventional Corn.

Project Code: 07-2C-W60 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	ABUTH	IPOHE	IPOHE	IPOHE
Crop Code						
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	7-10-07	7-24-07	8-21-07	7-10-07	7-24-07	8-21-07
Trt-Eval Interval	14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED									0 c	0 c	0 c	0 f	0 c	0 e
2	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	99 a	99 a	99 a	94 a	96 a	95 a
2	STATUS	56 WG		0.175	lb ai/a	5	oz/a	10-12"CN	D						
2	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	10-12"CN	D						
2	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	10-12"CN	D						
2	AMS	100 DRY		0.6	% w/w	5	lb/100 gal	10-12"CN	D						
3	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	87 b	91 b	92 b	77 e	93 ab	82 d
3	BALANCE PRO	4 SC		0.047	lb ai/a	1.5	fl oz/a	PRE	A						
4	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	99 a	98 a	98 a	94 a	96 a	94 a
4	MARKSMAN	3.2 L		1.2	lb ai/a	3	pt/a	V2	B						
4	AMS	100 DRY		2.5	lb ai/a	2.5	lb ai/a	V2	B						
5	GUARDSMAN MAX	5 L		2.5	lb ai/a	4	pt/a	PRE	A	98 a	98 a	98 a	92 ab	96 a	94 a
5	STATUS	56 WG		0.175	lb ai/a	5	oz/a	10-12"CN	D						
5	ACTIVATOR 90	100 LIQ		0.25	% v/v	0.25	% v/v	10-12"CN	D						
5	AMS	100 DRY		0.6	% w/w	5	lb/100 gal	10-12"CN	D						
6	BICEP II MAGNUM	5.5 L		2.9	lb ai/a	2.1	qt/a	PRE	A	99 a	99 a	99 a	92 ab	96 a	97 a
6	CALLISTO	4 SC		0.094	lb ai/a	3	fl oz/a	10-12"CN	D						
6	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	10-12"CN	D						
6	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
6	AMS	100 DRY		1	% w/w	8.5	lb/100 gal	10-12"CN	D						
7	KEYSTONE	5.25 L		3.54	lb ai/a	2.7	qt/a	PRE	A	98 a	98 a	98 a	79 de	90 b	86 bcd
7	HORNET	68.5 WG		0.171	lb ai/a	4	oz/a	PRE	A						
8	SURPASS	6.4 EC		2.08	lb ai/a	2.6	pt/a	PRE	A	99 a	99 a	99 a	84 cd	93 ab	92 abc
8	HORNET	68.5 WG		0.128	lb ai/a	3	oz/a	2-4"W	C						
8	CALLISTO	4 SC		0.0234	lb ai/a	0.75	fl oz/a	2-4"W	C						
8	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	2-4"W	C						
8	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W	C						
8	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	2-4"W	C						
9	KEYSTONE	5.25 L		3.54	lb ai/a	2.7	qt/a	PRE	A	99 a	99 a	99 a	86 bc	95 a	85 cd
9	HORNET	68.5 WG		0.128	lb ai/a	3	oz/a	2-4"W	C						
9	CALLISTO	4 SC		0.0234	lb ai/a	0.75	fl oz/a	2-4"W	C						
9	AATREX	90 WG		0.25	lb ai/a	4.44	oz/a	2-4"W	C						
9	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W	C						
9	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	2-4"W	C						
10	LEXAR	3.7 L		2.78	lb ai/a	3	qt/a	PRE	A	99 a	99 a	99 a	85 cd	96 a	92 ab
10	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A						
11	BALANCE PRO	4 SC		0.047	lb ai/a	1.5	fl oz/a	PRE	A	99 a	99 a	99 a	94 a	96 a	94 a
11	AATREX	90 WG		1.0	lb ai/a	1.11	lb/a	PRE	A						
11	LAUDIS	3.5 SC		0.082	lb ai/a	3	fl oz/a	10-12"CN	D						
11	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	10-12"CN	D						
11	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
11	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	10-12"CN	D						
12	BICEP II MAGNUM	5.5 L		2.06	lb ai/a	1.5	qt/a	PRE	A	99 a	99 a	99 a	93 a	96 a	95 a
12	IMPACT	2.8 SC		0.0109	lb ai/a	0.5	fl oz/a	10-12"CN	D						
12	AATREX	90 WG		0.5	lb ai/a	8.9	oz/a	10-12"CN	D						
12	DESTINY MSO	100 LIQ		1.0	% v/v	1	% v/v	10-12"CN	D						
12	AMS	100 DRY		2.5	lb ai/a	2.5	lb/a	10-12"CN	D						
LSD (P=.05)										3.9	2.9	1.8	6.1	3.4	7.0
Replicate F										1.215	2.075	3.092	0.841	1.954	2.797
Replicate Prob(F)										0.3158	0.1494	0.0656	0.4445	0.1655	0.0827
Treatment F										463.494	823.762	2086.438	160.171	573.034	124.938
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)

Weed Management Programs in Conventional Corn.

Project Code: 07-2C-W60 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	XANST	XANST	XANST
Crop Code			
Rating Data Type			
Rating Unit	Control	Control	Control
Rating Date	7-10-07	7-24-07	8-21-07
Trt-Eval Interval	14 DA-D	28 DA-D	56 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	NONTREATED									0 b	0 b	0 b
2	GUARDSMAN MAX	5 L		2.5 lb ai/a		4 pt/a		PRE	A	99 a	99 a	99 a
2	STATUS	56 WG		0.175 lb ai/a		5 oz/a		10-12"CN	D			
2	AATREX	90 WG		0.25 lb ai/a		4.44 oz/a		10-12"CN	D			
2	ACTIVATOR 90	100 LIQ		0.25 % v/v		0.25 % v/v		10-12"CN	D			
2	AMS	100 DRY		0.6 % w/w		5 lb/100 gal		10-12"CN	D			
3	GUARDSMAN MAX	5 L		2.5 lb ai/a		4 pt/a		PRE	A	98 a	98 a	98 a
3	BALANCE PRO	4 SC		0.047 lb ai/a		1.5 fl oz/a		PRE	A			
4	GUARDSMAN MAX	5 L		2.5 lb ai/a		4 pt/a		PRE	A	99 a	99 a	99 a
4	MARKSMAN	3.2 L		1.2 lb ai/a		3 pt/a		V2	B			
4	AMS	100 DRY		2.5 lb ai/a		2.5 lb ai/a		V2	B			
5	GUARDSMAN MAX	5 L		2.5 lb ai/a		4 pt/a		PRE	A	99 a	99 a	99 a
5	STATUS	56 WG		0.175 lb ai/a		5 oz/a		10-12"CN	D			
5	ACTIVATOR 90	100 LIQ		0.25 % v/v		0.25 % v/v		10-12"CN	D			
5	AMS	100 DRY		0.6 % w/w		5 lb/100 gal		10-12"CN	D			
6	BICEP II MAGNUM	5.5 L		2.9 lb ai/a		2.1 qt/a		PRE	A	99 a	99 a	99 a
6	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	D			
6	AATREX	90 WG		0.25 lb ai/a		4.44 oz/a		10-12"CN	D			
6	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	D			
6	AMS	100 DRY		1 % w/w		8.5 lb/100 gal		10-12"CN	D			
7	KEYSTONE	5.25 L		3.54 lb ai/a		2.7 qt/a		PRE	A	99 a	99 a	98 a
7	HORNET	68.5 WG		0.171 lb ai/a		4 oz/a		PRE	A			
8	SURPASS	6.4 EC		2.08 lb ai/a		2.6 pt/a		PRE	A	99 a	99 a	99 a
8	HORNET	68.5 WG		0.128 lb ai/a		3 oz/a		2-4"W	C			
8	CALLISTO	4 SC		0.0234 lb ai/a		0.75 fl oz/a		2-4"W	C			
8	AATREX	90 WG		0.25 lb ai/a		4.44 oz/a		2-4"W	C			
8	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		2-4"W	C			
8	AMS	100 DRY		2.5 lb ai/a		2.5 lb/a		2-4"W	C			
9	KEYSTONE	5.25 L		3.54 lb ai/a		2.7 qt/a		PRE	A	99 a	99 a	99 a
9	HORNET	68.5 WG		0.128 lb ai/a		3 oz/a		2-4"W	C			
9	CALLISTO	4 SC		0.0234 lb ai/a		0.75 fl oz/a		2-4"W	C			
9	AATREX	90 WG		0.25 lb ai/a		4.44 oz/a		2-4"W	C			
9	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		2-4"W	C			
9	AMS	100 DRY		2.5 lb ai/a		2.5 lb/a		2-4"W	C			
10	LEXAR	3.7 L		2.78 lb ai/a		3 qt/a		PRE	A	98 a	99 a	98 a
10	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A			
11	BALANCE PRO	4 SC		0.047 lb ai/a		1.5 fl oz/a		PRE	A	99 a	99 a	99 a
11	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A			
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	D			
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	D			
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	D			
11	AMS	100 DRY		2.5 lb ai/a		2.5 lb/a		10-12"CN	D			
12	BICEP II MAGNUM	5.5 L		2.06 lb ai/a		1.5 qt/a		PRE	A	99 a	98 a	98 a
12	IMPACT	2.8 SC		0.0109 lb ai/a		0.5 fl oz/a		10-12"CN	D			
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	D			
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	D			
12	AMS	100 DRY		2.5 lb ai/a		2.5 lb/a		10-12"CN	D			
LSD (P=.05)										1.6	0.8	1.2
Replicate F										0.616	0.478	0.234
Replicate Prob(F)										0.5492	0.6262	0.7933
Treatment F										2574.048	10521.773	5136.570
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: BASF, Dow, Syngenta, Bayer, AMVAC.
2. Ratings: CI 3 da "D", CI/WC 14, 28 + 56 da "D".
3. Yield.
4. Pictures if possible.
5. DA-D = Days after 10-12"W application.
 Ratings at 3 DA-D were also 36, 20, and 8 days after applications A, B, and C, respectively.
 Ratings at 14 DA-D were also 47, 31, and 19 days after applications A, B, and C, respectively.
 Ratings at 28 DA-D were also 61, 45, and 33 days after applications A, B, and C, respectively.
 Ratings at 56 DA-D were also 89, 73, and 61 days after applications A, B, and C, respectively.
6. Harvested 10-4-07, (2) 30 inch rows by 25 ft.