

General Herbicide Programs in Corn.

02-11C-W115

OBJECTIVE: Evaluate various herbicide programs in corn including Callisto and Yukon.

SUMMARY: Corn injury was not greater than 5% for any treatment in this study. Giant foxtail control was greatest for treatments containing Fultime or Steadfast, and least for treatments containing Dual II Magnum. This demonstrates that the rainfall requirement for herbicide activation may be greater for Dual II Magnum than for other preemergence (PRE) grass herbicides. However, the lack of rainfall after applications in 2002 was not typical. Complete control (99%) of common waterhemp was observed at 42 days after treatment (DAT) for all treatments except for the total postemergence (POST) systems of Steadfast plus Yukon and Steadfast plus Permit. Velvetleaf control 42 DAT was 92% or greater for all treatments except Fultime plus Hornet, which provided only 74% control. The rate of Fultime was reduced from 3.5 qt/A applied alone to 3.0 qt/A applied with Hornet. This reduction was intended to keep the cost of the tankmix similar to that of Fultime alone. However, the addition of Hornet to Fultime did not improve weed control and in some cases resulted in less control than Fultime alone. More specifically, the addition of Hornet to Fultime reduced control of giant foxtail, velvetleaf, and yellow nutsedge at 42 DAT compared to Fultime alone. The benefits of Hornet may be different in the presence of triazine-resistant weed species.

Corn yield ranged from 49 bu/A in nontreated plots to 194 bu/A. Corn yield was generally lowest in plots with poor giant foxtail control (less than 70%).

HERBICIDES

AATREX 90 WG
BICEP II MAGNUM 5.5 L
CALLISTO 4 SC
DEGREE XTRA 4 L
DUAL II MAGNUM 7.64 EC
FULTIME 4 SC
HORNET 68.5 WG
MARKSMAN 3.2 L
OUTLOOK 6 EC
PERMIT 75 WG
STEADFAST 75 WG
TOPNOTCH 3.2 ME
YUKON 67.5 WG

WEEDS

foxtail, giant
morningglory, ivyleaf
nutsedge, yellow
velvetleaf
waterhemp, common

CROP

corn, field

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

General Herbicide Programs in Corn.

Project Code: 02-11C-W115 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-24-02

Objective:

Evaluate various herbicide programs in corn including
 Callisto and Yukon.

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

Crop 1: ZEAMX corn, field Variety: Pioneer 33P71 CL
 Planting Method: Seeded Planting Date: 5-29-02
 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: GLXMA, 2001

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

Soil Name: Ebbert % OM: 1.7 pH: 6.0 CEC: 12
 Texture: Silt loam Fert. Level: P1: 68 LB/A, K: 225 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-30-02	6-14-02	6-17-02
Time of Day:	13:30	9:30	13:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	3-5"W
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	79 F	69 F	74 F
% Relative Humidity:	60	50	36
Wind Velocity, Unit:	0-3 MPH	5-10 MPH	0-5 MPH
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	15	0	15

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V3	ZEAMX V5
Height, Unit:	NA NA	6 IN	12-14 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:		SETFA	SETFA
Stage(leaves):		2-3	2-4
Height(inches):		2-3	2-4
Density:		High	High
Weed 2 Code:		AMATA	
Stage(leaves):		2-4	
Height(inches):		0-2	
Density:		Medium	
Weed 3 Code:		ABUTH	ABUTH
Stage(leaves):		1-3	3-5
Height(inches):		1-3	3-6
Density:		Low	Low

Weed 4 Code:	IPOHE	IPOHE
Stage(leaves):	4-6	0-6
Height(inches):	2-4	0-3
Density:	Low	Low

Weed 5 Code:	CYPES
Stage(leaves):	5-7
Height(inches):	2-5
Density:	Low

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

NOTES:

Harvested Oct-16-02, (2) 30 inch rows by 25 ft.

General Herbicide Programs in Corn.

Project Code: 02-11C-W115 Location: Belleville Research Center

									SETFA				AMATA			
Weed Code									SETFA				AMATA			
Crop Code									SETFA				AMATA			
Rating Data Type									SETFA				AMATA			
Rating Unit									SETFA				AMATA			
Rating Date									SETFA				AMATA			
Trt-Eval Interval									SETFA				AMATA			
									ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
									Yield	Injury	Injury	Injury	Injury	Injury	Injury	Injury
									bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent
									10-16-02	6-9-02	6-16-02	6-24-02	7-1-02	7-15-02	6-16-02	7-1-02
									7 DAE	14 DAE	7 DA-C	14 DA-C	28 DA-C	14 DAE	14 DA-C	28 DA-C
									42 DA-C	14 DAE	14 DA-C	28 DA-C	42 DA-C	14 DAE	14 DA-C	28 DA-C
									Control	Control	Control	Control	Control	Control	Control	Control
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
									6-16-02	7-1-02	7-15-02	7-29-02	6-16-02	7-1-02	7-15-02	7-29-02
									14 DAE	14 DA-C	28 DA-C	42 DA-C	14 DAE	14 DA-C	28 DA-C	42 DA-C
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type		Rate	Unit	Stg	Code								
1	NONTREATED								49	0	0	0	0	0	0	0
2	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE A	151	0	0	0	0	0	63	50
2	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3-5"W C							40	33
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W C							99	99
2	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W C							99	99
3	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE A	180	0	0	0	0	0	65	60
3	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3-5"W C							50	48
3	AATREX	90	WG	0.25	LB A/A	4.44	OZ/A	3-5"W C							99	99
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W C							99	99
3	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W C							99	99
4	BICEP II MAGNUM	5.5	L	2.88	LB A/A	2.1	QT/A	PRE A	180	0	0	0	0	0	73	62
4	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3-5"W C							58	60
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W C							99	99
4	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W C							99	99
5	OUTLOOK	6	EC	0.94	LB A/A	1.25	PT/A	PRE A	172	0	0	5	0	0	72	86
5	MARKSMAN	3.2	L	1.4	LB A/A	3.5	PT/A	3-5"W C							80	78
6	TOPNOTCH	3.2	ME	1.8	LB A/A	4.5	PT/A	PRE A	192	0	0	2	0	0	80	79
6	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W C							68	62
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	3-5"W C							99	99
6	AMS	100	DRY	1.0	% W/W	8.5	LB/100 GAL	3-5"W C							99	99
7	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE A	166	0	0	0	0	0	63	50
7	CALLISTO	4	SC	0.188	LB A/A	6	OZ/A	PRE A							40	32
7	AATREX	90	WG	1.0	LB A/A	17.8	OZ/A	PRE A							99	99
8	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE A	139	0	0	0	0	0	67	48
8	CALLISTO	4	SC	0.188	LB A/A	6	OZ/A	PRE A							43	30
9	FULTIME	4	SC	3.5	LB A/A	3.5	QT/A	PRE A	187	0	0	0	0	0	97	92
10	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE A	191	0	0	0	0	0	98	89
10	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	PRE A							83	82
11	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE A	190	0	0	3	0	0	94	95
11	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W C							91	88
11	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	3-5"W C							99	99
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W C							99	99
11	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W C							99	99

Weed Code										SETFA				SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA			
Crop Code										ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX								
Rating Data Type										Yield	Injury	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit										bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										10-16-02	6-9-02	6-16-02	6-24-02	7-1-02	7-15-02	6-16-02	7-1-02	7-15-02	7-29-02	6-16-02	7-1-02	7-15-02	7-29-02
Trt-Eval Interval											7 DAE	14 DAE	7 DA-C	14 DA-C	28 DA-C	14 DAE	14 DA-C	28 DA-C	42 DA-C	14 DAE	14 DA-C	28 DA-C	42 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
12	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE	A	183	0	0	3	0	0	93	96	96	94	99	99	99	99
12	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W	C														
12	CALLISTO	4	SC	0.047	LB A/A	1.5	OZ/A	3-5"W	C														
12	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	3-5"W	C														
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
12	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C														
13	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE	A	194	0	0	3	0	0	95	97	96	95	99	99	99	99
13	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W	C														
13	CALLISTO	4	SC	0.031	LB A/A	1	OZ/A	3-5"W	C														
13	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	3-5"W	C														
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
13	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C														
14	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	A	143	0	0	0	0	0	55	53	42	35	99	99	99	99
14	YUKON	67.5	WG	0.168	LB A/A	4	OZ/A	3-5"W	C														
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
15	DEGREE XTRA	4	L	3.0	LB A/A	3	QT/A	PRE	A	166	0	0	2	0	0	73	78	72	68	99	99	99	99
15	YUKON	67.5	WG	0.168	LB A/A	4	OZ/A	3-5"W	C														
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
16	DEGREE XTRA	4	L	3.0	LB A/A	3	QT/A	PRE	A	194	0	0	2	0	0	81	80	69	63	99	99	99	99
16	PERMIT	75	WG	0.031	LB A/A	0.66	OZ/A	3-5"W	C														
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
17	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	2-4"W	B	159			0	0	0		95	95	91		65	60	57
17	YUKON	67.5	WG	0.168	LB A/A	4	OZ/A	2-4"W	B														
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W	B														
18	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	2-4"W	B	184			0	0	0		96	92	89		57	58	53
18	PERMIT	75	WG	0.031	LB A/A	0.66	OZ/A	2-4"W	B														
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W	B														
19	BICEP II MAGNUM	5.5	L	2.88	LB A/A	2.1	QT/A	PRE	A	163	0	0	0	0	0	77	60	55	48	99	99	99	99
20	DEGREE XTRA	4	L	3.0	LB A/A	3	QT/A	PRE	A	185	0	0	0	0	0	84	70	69	60	99	99	99	99
LSD (P=.05)										26.7	0.0	0.0	1.0	0.0	0.0	8.3	7.4	8.9	10.0	0.2	3.9	4.7	6.3
Replicate F										1.546	0.000	0.000	3.353	0.000	0.000	2.967	0.041	1.241	0.167	1.000	1.539	0.783	1.121
Replicate Prob(F)										0.2262	1.0000	1.0000	0.0456	1.0000	1.0000	0.0649	0.9598	0.3005	0.8464	0.3784	0.2277	0.4644	0.3365
Treatment F										12.407	0.000	0.000	17.255	0.000	0.000	61.696	89.714	67.468	57.629	88175.063	319.268	222.397	129.950
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Code											ABUTH	ABUTH	ABUTH	ABUTH	IPOHE	IPOHE	IPOHE	IPOHE	CYPES	CYPES	CYPES	CYPES
Crop Code																						
Rating Data Type											Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit											Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date											6-16-02	7-1-02	7-15-02	7-29-02	6-16-02	7-1-02	7-15-02	7-29-02	6-16-02	7-1-02	7-15-02	7-29-02
Trt-Eval Interval											14 DAE	14 DA-C	28 DA-C	42 DA-C	14 DAE	14 DA-C	28 DA-C	42 DA-C	14 DAE	14 DA-C	28 DA-C	42 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
1	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0	
2	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	A	20	99	99	99	25	98	99	99	81	97	99	99	
2	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3-5"W	C													
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C													
2	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C													
3	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	A	46	99	99	99	25	99	99	99	72	99	99	99	
3	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3-5"W	C													
3	AATREX	90	WG	0.25	LB A/A	4.44	OZ/A	3-5"W	C													
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C													
3	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C													
4	BICEP II MAGNUM	5.5	L	2.88	LB A/A	2.1	QT/A	PRE	A	98	99	99	99	93	99	99	93	78	99	99	99	
4	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	3-5"W	C													
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C													
4	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C													
5	OUTLOOK	6	EC	0.94	LB A/A	1.25	PT/A	PRE	A	88	98	99	99	55	98	99	98	65	95	96	96	
5	MARKSMAN	3.2	L	1.4	LB A/A	3.5	PT/A	3-5"W	C													
6	TOPNOTCH	3.2	ME	1.8	LB A/A	4.5	PT/A	PRE	A	80	99	99	99	86	91	89	87	79	76	86	89	
6	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W	C													
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	3-5"W	C													
6	AMS	100	DRY	1.0	% W/W	8.5	LB/100 GAL	3-5"W	C													
7	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	A	99	99	99	99	88	83	80	79	73	98	99	99	
7	CALLISTO	4	SC	0.188	LB A/A	6	OZ/A	PRE	A													
7	AATREX	90	WG	1.0	LB A/A	17.8	OZ/A	PRE	A													
8	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	A	99	98	99	99	73	40	40	43	77	99	99	99	
8	CALLISTO	4	SC	0.188	LB A/A	6	OZ/A	PRE	A													
9	FULTIME	4	SC	3.5	LB A/A	3.5	QT/A	PRE	A	99	93	93	92	95	94	90	72	82	82	82	85	
10	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE	A	99	88	82	74	93	95	91	80	72	64	67	72	
10	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	PRE	A													
11	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE	A	95	99	99	99	97	99	99	93	72	94	94	95	
11	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W	C													
11	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	3-5"W	C													
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C													
11	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C													

Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval								ABUTH ABUTH ABUTH ABUTH IPOHE IPOHE IPOHE IPOHE CYPES CYPES CYPES CYPES															
								Control Percent 6-16-02 14 DAE	Control Percent 7-1-02 14 DA-C	Control Percent 7-15-02 28 DA-C	Control Percent 7-29-02 42 DA-C	Control Percent 6-16-02 14 DAE	Control Percent 7-1-02 14 DA-C	Control Percent 7-15-02 28 DA-C	Control Percent 7-29-02 42 DA-C	Control Percent 6-16-02 14 DAE	Control Percent 7-1-02 14 DA-C	Control Percent 7-15-02 28 DA-C	Control Percent 7-29-02 42 DA-C				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
12	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE	A	97	99	99	99	97	99	99	97	80	98	98	98		
12	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W	C														
12	CALLISTO	4	SC	0.047	LB A/A	1.5	OZ/A	3-5"W	C														
12	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	3-5"W	C														
12	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
12	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C														
13	FULTIME	4	SC	3.0	LB A/A	3	QT/A	PRE	A	98	99	99	99	96	98	99	97	77	95	94	93		
13	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-5"W	C														
13	CALLISTO	4	SC	0.031	LB A/A	1	OZ/A	3-5"W	C														
13	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	3-5"W	C														
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
13	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	3-5"W	C														
14	DUAL II MAGNUM	7.64	EC	1.27	LB A/A	1.33	PT/A	PRE	A	33	99	99	99	38	98	99	99	63	97	99	99		
14	YUKON	67.5	WG	0.168	LB A/A	4	OZ/A	3-5"W	C														
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
15	DEGREE XTRA	4	L	3.0	LB A/A	3	QT/A	PRE	A	80	99	99	99	95	99	99	98	58	87	99	99		
15	YUKON	67.5	WG	0.168	LB A/A	4	OZ/A	3-5"W	C														
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
16	DEGREE XTRA	4	L	3.0	LB A/A	3	QT/A	PRE	A	96	99	99	98	81	99	97	95	73	94	98	97		
16	PERMIT	75	WG	0.031	LB A/A	0.66	OZ/A	3-5"W	C														
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	3-5"W	C														
17	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	2-4"W	B		99	99	98		99	98	88		93	97	96		
17	YUKON	67.5	WG	0.168	LB A/A	4	OZ/A	2-4"W	B														
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W	B														
18	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	2-4"W	B		96	94	93		97	99	88		95	97	98		
18	PERMIT	75	WG	0.031	LB A/A	0.66	OZ/A	2-4"W	B														
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W	B														
19	BICEP II MAGNUM	5.5	L	2.88	LB A/A	2.1	QT/A	PRE	A	96	94	95	94	96	99	99	96	80	82	83	85		
20	DEGREE XTRA	4	L	3.0	LB A/A	3	QT/A	PRE	A	99	90	89	95	93	89	87	78	60	81	86	87		
LSD (P=.05)										23.3	5.2	6.5	7.4	17.1	9.4	8.7	8.9	21.0	15.4	14.0	12.3		
Replicate F										0.282	1.992	1.011	0.621	0.201	0.883	0.621	0.304	0.143	7.886	7.362	8.120		
Replicate Prob(F)										0.7563	0.1504	0.3734	0.5429	0.8192	0.4217	0.5429	0.7395	0.8674	0.0014	0.0020	0.0012		
Treatment F										15.203	142.868	93.490	75.024	27.288	56.662	65.819	58.540	6.591	17.278	20.908	26.574		
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

General Herbicide Programs in Corn.

Project Code: 02-11C-W115 Location: Belleville Research Center

Trial Comments

1. Protocol: Syngenta (2-8); Monsanto (14-18); Dow AgroSciences (9-13).
2. For application "C", apply at 3-5 inch weed height but prior to 12 inch corn.
3. DAE = days after emergence. DA-C = days after 3-5"W application.