

Weed Management in Roundup Ready Corn.

02-22-S110

OBJECTIVE: Compare weed management programs in Roundup Ready corn to conventional herbicide programs.

SUMMARY: This study is designed to compare conventional corn herbicide programs and glyphosate based programs for weed management in Roundup Ready corn. No crop injury was observed with any treatment 14 days after postemergence applications (DAPO). Control of common cocklebur and giant foxtail at 28 DAPO was excellent (>98%) in treatments containing glyphosate (Roundup Ultra Max, Glyphomax Plus, Touchdown, and MON 78270) and from the conventional herbicide programs Bicep II Magnum followed by Distinct, and Leadoff followed by Basis Gold. Control of morningglory species was greater than 96% in treatments that included a preemergence and post emergence application. Velvetleaf and common waterhemp control 28 DAPO was 99% from all treatments except Bicep II magnum alone. Yellow nutsedge control tended to be greatest from treatments that included a preemergence herbicide. Corn yield ranged from 27 bu/A in nontreated plots to 167 bu/A. In general, corn yield was similar among herbicide treated plots with the exception of plots treated with Bicep II Magnum alone, which yielded significantly less than all other herbicide treated plots.

HERBICIDES

AATREX 90 WG
BASIS GOLD 90 WG
BICEP II MAGNUM 5.5 L
CALLISTO 4 SC
CELEBRITY PLUS 70 WG
CLARITY 4 EC
DEGREE EXTRA 4 L
DISTINCT 70 WG
DUAL II MAGNUM 7.64 EC
FULTIME 4 SC
GLYPHOMAX PLUS 3 SL
HORNET 68.5 WG
LEADOFF 5 L
MARKSMAN 3.2 L
MON 78270 4.5 SL
ROUNDUP ULTRA MAX 3.7 SL
SIU 2002-H1 4.17 SL
SPIRIT 57 WG
STEADFAST 75 WG
TOUCHDOWN 3 SL

WEEDS

cocklebur, common
foxtail, giant
morningglory, ivyleaf
morningglory, pitted
morningglory, species
nutsedge, yellow
velvetleaf
waterhemp, common

CROP

corn, field

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Weed Management in Roundup Ready Corn.

Project Code: 02-22-S110 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-6-02

Objective:

Compare weed management programs in Roundup Ready corn to conventional herbicide programs.

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

Crop 1: ZEAMX corn, field Variety: DKC 64-10 RR
 Planting Method: Seeded Planting Date: 5-27-02
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 27 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: Clarksdale % OM: 1.7 pH: 5.8 CEC: 12
 Texture: Silt loam Fert. Level: P1: 67 LB/A, K: 235 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-28-02	6-10-02	6-17-02	6-14-02	6-18-02	6-24-02
Time of Day:	16:00	16:00	12:30	8:45	8:30	10:45
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	4-6"W-1	2-4"W-2	4-6"W-2	2-4"RG
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	68 F	86 F	69 F	78 F	70 F	88 F
% Relative Humidity:	98	98	50	36	58	50
Wind Velocity, Unit:	3-5 MPH	5-10 MPH	3-5 MPH	5-10 MPH	0-5 MPH	0-5 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	BELNOR
% Cloud Cover:	95	90	20	10	10	20

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V2-V3	ZEAMX V5	ZEAMX V4	ZEAMX V5	ZEAMX V5-V6
Height, Unit:	NA NA	6-8 IN	12-15 IN	10-12 IN	12-15 IN	22-24 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:		XANST	XANST	XANST	XANST	XANST
Stage(leaves):		3-6	6-8	8-10	6-10	2-4
Height(inches):		2-4	3-6	6-8	8-10	1-4
Density:		Medium	Low	Low	Medium	Medium
Weed 2 Code:		SETFA	SETFA	SETFA	SETFA	SETFA
Stage(leaves):		2-4	3-6	6-8	6-8	3-6
Height(inches):		2-4	3-5	6-10	5-10	1-3
Density:		Medium	High	Medium	Medium	Low
Weed 3 Code:			IPOSS	IPOSS	IPOSS	IPOSS
Stage(leaves):			2-6	4-8	0-5	0-5
Height(inches):			3-6	6-8	1-6	1-4
Density:			Low	Low	Low	Low

Weed 4 Code:		ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):		3-5	5-7	4-6	2-5
Height(inches):		2-4	4-8	4-10	2-5
Density:		Low	Low	Low	Low
Weed 5 Code:	CYPES	CYPES	CYPES	CYPES	CYPES
Stage(leaves):	3-5	5-7	8-9	5-10	7-10
Height(inches):	2-4	2-8	6-12	3-10	6-10
Density:	Low	High	Low	Medium	High
Weed 6 Code:	AMATA				
Stage(leaves):	2-4				
Height(inches):	1-3				
Density:	Low				

APPLICATION EQUIPMENT

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

NOTES:

Harvested Oct-11-02, (2) 30 inch rows by 24 ft.

Weed Management in Roundup Ready Corn.

Project Code: 02-22-S110 Location: Belleville Research Center

Weed Code										XANST	XANST	SETFA	SETFA	IPOSS	IPOSS	ABUTH	ABUTH
Crop Code										ZEAMX	ZEAMX	ZEAMX	ZEAMX				
Rating Data Type										Yield	Injury	Injury	Injury	Control	Control	Control	Control
Rating Unit										bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										10-11-02	6-4-02						
Trt-Eval Interval										7 DA-A	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED									27	0	0	0	0	0	0	0
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	2-4"W-1	B	167	0	0	0	63	99	78	99
2	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	19.4	OZ/A	2-4"RG	F								
3	DEGREE EXTRA	4	L	2.27	LB A/A	2.27	QT/A	PRE	A	159	0	0	0	96	99	99	99
3	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	4-6"W-2	E								
4	DEGREE EXTRA	4	L	2.27	LB A/A	2.27	QT/A	2-4"W-1	B	166	0	0	0	99	99	98	98
4	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	2-4"W-1	B								
5	DUAL II MAGNUM	7.64	EC	1.3	LB A/A	0.68	QT/A	PRE	A	136	13	0	0	99	99	82	80
5	MARKSMAN	3.2	L	1.4	LB A/A	3.5	PT/A	2-4"W-2	D								
5	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	2-4"W-2	D								
6	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	109	0	0	0	53		50	70
7	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	149	0	0	0	99	99	70	83
7	SPIRIT	57	WG	0.035	LB A/A	0.98	OZ/A	4-6"W-2	E								
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	4-6"W-2	E								
7	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	4-6"W-2	E								
8	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	150	5	0	0	99	99	85	93
8	DISTINCT	70	WG	0.261	LB A/A	5.97	OZ/A	2-4"W-2	D								
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	2-4"W-2	D								
8	28% UAN	100	LIQ	1.125	% V/V	1.13	%V/V	2-4"W-2	D								
9	BICEP II MAGNUM	5.5	L	1.15	LB A/A	0.84	QT/A	PRE	A	160	0	0	0	99	99	99	99
9	TOUCHDOWN	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-2	E								
10	FULTIME	4	SC	1.3	LB A/A	1.3	QT/A	PRE	A	164	0	0	0	99	99	99	99
10	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-2	E								
11	LEADOFF	5	L	1.64	LB A/A	1.31	QT/A	PRE	A	162	0	0	0	99	99	92	95
11	BASIS GOLD	90	WG	0.783	LB A/A	13.9	OZ/A	2-4"W-2	D								
11	PRIME OIL COC	100	LIQ	1.0	QT/A	1	QT/A	2-4"W-2	D								
11	28% UAN	100	LIQ	4.0	QT/A	4	QT/A	2-4"W-2	D								
12	CELEBRITY PLUS	70	WG	0.2	LB A/A	4.57	OZ/A	2-4"W-1	B	137	0	0	0	95	85	96	99
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	2-4"W-1	B								
12	28% UAN	100	LIQ	4.0	QT/A	4	QT/A	2-4"W-1	B								

Weed Code														XANST	XANST	SETFA	SETFA	IPOSS	IPOSS	ABUTH	ABUTH
Crop Code		ZEAMX				ZEAMX				Control	Control	Control	Control	Control	Control	Control	Control	Control	Control		
Rating Data Type		Yield	Injury	Injury	Injury	Control	Control	Control	Control	Control	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	Percent	Percent	Percent			
Rating Date		10-11-02	6-4-02																		
Trt-Eval Interval			7 DA-A	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO	28 DAPO	14 DAPO	28 DAPO				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code												
13	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	159	0	0	0	96	87	82	87	99	99		
13	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	2-4"W-2	D												
13	AATREX	90	WG	0.25	LB A/A	4.44	OZ/A	2-4"W-2	D												
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W-2	D												
13	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	2-4"W-2	D												
14	LEADOFF	5	L	1.64	LB A/A	1.31	QT/A	PRE	A	155	0	0	0	93	77	97	99	99	99		
14	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"W-2	D												
14	CLARITY	4	EC	0.125	LB A/A	4	OZ/A	2-4"W-2	D												
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W-2	D												
14	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	2-4"W-2	D												
15	MON 78270	4.5	SL	0.75	LB AE/A	21.3	OZ/A	2-4"W-1	B	156	0	0	0	70	99	91	99	48	57		
15	MON 78270	4.5	SL	0.56	LB AE/A	16	OZ/A	2-4"RG	F												
16	DEGREE EXTRA	4	L	2.27	LB A/A	2.27	QT/A	PRE	A	159	0	0	0	99	99	99	99	99	99		
16	MON 78270	4.5	SL	0.75	LB AE/A	21.3	OZ/A	4-6"W-2	E												
17	SIU 2002-H1	4.17	SL	0.75	LB AE/A	23	OZ/A	2-4"W-1	B	147	0	0	0	88	99	91	99	55	50		
17	SIU 2002-H1	4.17	SL	0.56	LB AE/A	17.2	OZ/A	2-4"RG	F												
18	BICEP II MAGNUM	5.5	L	1.15	LB A/A	0.84	QT/A	PRE	A	142	0	0	0	99	99	99	99	94	99		
18	SIU 2002-H1	4.17	SL	0.75	LB AE/A	23	OZ/A	4-6"W-2	E												
19	FULTIME	4	SC	2.0	LB A/A	2	QT/A	PRE	A	163	0	0	0	99	99	99	99	99	99		
19	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-2	E												
19	AMS	100	DRY	1.5	% W/W	1.5	%W/W	4-6"W-2	E												
20	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-1	C	141	0	0	0	99	99	99	99	77	99		
20	AMS	100	DRY	1.5	% W/W	1.5	%W/W	4-6"W-1	C												
21	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-1	C	149	0	0	0	99	99	99	99	93	99		
21	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	4-6"W-1	C												
21	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	4-6"W-1	C												
21	AMS	100	DRY	1.5	% W/W	1.5	%W/W	4-6"W-1	C												
22	NONTREATED									58	0	0	0	0	0	0	0	0	0		
LSD (P=.05)										26.2	1.0	0.0	0.0	6.0	6.2	6.8	4.4	9.7	5.0	2.4	2.0
Replicate F										10.681	1.000	0.000	0.000	0.119	0.187	8.009	0.420	2.193	0.377	0.684	1.000
Replicate Prob(F)										0.0002	0.3765	1.0000	1.0000	0.8880	0.8299	0.0012	0.6598	0.1248	0.6884	0.5103	0.3765
Treatment F										14.625	70.714	0.000	0.000	201.636	188.161	149.587	366.077	83.359	320.107	1241.193	1687.159
Treatment Prob(F)										0.0001	0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Code	CYPES	CYPES	AMATA	AMATA
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date				
Trt-Eval Interval	14 DAPO	28 DAPO	14 DAPO	28 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	14 DAPO	28 DAPO	14 DAPO	28 DAPO
1	NONTREATED									0	0	0	0
2	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	2-4"W-1	B	25	63	50	99
2	ROUNDUP ULTRA MAX	3.7	SL	0.56	LB AE/A	19.4	OZ/A	2-4"RG	F				
3	DEGREE EXTRA	4	L	2.27	LB A/A	2.27	QT/A	PRE	A	78	95	99	99
3	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	4-6"W-2	E				
4	DEGREE EXTRA	4	L	2.27	LB A/A	2.27	QT/A	2-4"W-1	B	85	87	99	99
4	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	2-4"W-1	B				
5	DUAL II MAGNUM	7.64	EC	1.3	LB A/A	0.68	QT/A	PRE	A	99	99	99	99
5	MARKSMAN	3.2	L	1.4	LB A/A	3.5	PT/A	2-4"W-2	D				
5	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	%V/V	2-4"W-2	D				
6	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A		93		90
7	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	86	83	99	99
7	SPIRIT	57	WG	0.035	LB A/A	0.98	OZ/A	4-6"W-2	E				
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	4-6"W-2	E				
7	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	4-6"W-2	E				
8	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	96	90	98	99
8	DISTINCT	70	WG	0.261	LB A/A	5.97	OZ/A	2-4"W-2	D				
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	2-4"W-2	D				
8	28% UAN	100	LIQ	1.125	% V/V	1.13	%V/V	2-4"W-2	D				
9	BICEP II MAGNUM	5.5	L	1.15	LB A/A	0.84	QT/A	PRE	A	82	96	99	99
9	TOUCHDOWN	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-2	E				
10	FULTIME	4	SC	1.3	LB A/A	1.3	QT/A	PRE	A	80	90	99	99
10	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-2	E				
11	LEADOFF	5	L	1.64	LB A/A	1.31	QT/A	PRE	A	67	95	99	99
11	BASIS GOLD	90	WG	0.783	LB A/A	13.9	OZ/A	2-4"W-2	D				
11	PRIME OIL COC	100	LIQ	1.0	QT/A	1	QT/A	2-4"W-2	D				
11	28% UAN	100	LIQ	4.0	QT/A	4	QT/A	2-4"W-2	D				
12	CELEBRITY PLUS	70	WG	0.2	LB A/A	4.57	OZ/A	2-4"W-1	B	72	83	99	99
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	2-4"W-1	B				
12	28% UAN	100	LIQ	4.0	QT/A	4	QT/A	2-4"W-1	B				
13	BICEP II MAGNUM	5.5	L	2.2	LB A/A	1.6	QT/A	PRE	A	99	99	99	99
13	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	2-4"W-2	D				
13	AATREX	90	WG	0.25	LB A/A	4.44	OZ/A	2-4"W-2	D				
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W-2	D				
13	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	2-4"W-2	D				

Weed Code	CYPES	CYPES	AMATA	AMATA
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date				
Trt-Eval Interval	14 DAPO	28 DAPO	14 DAPO	28 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
14	LEADOFF	5	L	1.64	LB A/A	1.31	QT/A	PRE	A	57	85	99	99
14	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"W-2	D				
14	CLARITY	4	EC	0.125	LB A/A	4	OZ/A	2-4"W-2	D				
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	2-4"W-2	D				
14	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	2-4"W-2	D				
15	MON 78270	4.5	SL	0.75	LB AE/A	21.3	OZ/A	2-4"W-1	B	50	53	78	99
15	MON 78270	4.5	SL	0.56	LB AE/A	16	OZ/A	2-4"RG	F				
16	DEGREE EXTRA	4	L	2.27	LB A/A	2.27	QT/A	PRE	A	88	94	99	99
16	MON 78270	4.5	SL	0.75	LB AE/A	21.3	OZ/A	4-6"W-2	E				
17	SIU 2002-H1	4.17	SL	0.75	LB AE/A	23	OZ/A	2-4"W-1	B	40	47	30	99
17	SIU 2002-H1	4.17	SL	0.56	LB AE/A	17.2	OZ/A	2-4"RG	F				
18	BICEP II MAGNUM	5.5	L	1.15	LB A/A	0.84	QT/A	PRE	A	88	99	99	99
18	SIU 2002-H1	4.17	SL	0.75	LB AE/A	23	OZ/A	4-6"W-2	E				
19	FULTIME	4	SC	2.0	LB A/A	2	QT/A	PRE	A	82	98	99	99
19	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-2	E				
19	AMS	100	DRY	1.5	% W/W	1.5	%W/W	4-6"W-2	E				
20	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-1	C	87	99	99	99
20	AMS	100	DRY	1.5	% W/W	1.5	%W/W	4-6"W-1	C				
21	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	32	OZ/A	4-6"W-1	C	85	99	99	99
21	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	4-6"W-1	C				
21	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	4-6"W-1	C				
21	AMS	100	DRY	1.5	% W/W	1.5	%W/W	4-6"W-1	C				
22	NONTREATED									0	0	0	0
LSD (P=.05)										14.6	8.5	8.9	0.2
Replicate F										3.753	1.603	0.960	1.000
Replicate Prob(F)										0.0321	0.2133	0.3916	0.3765
Treatment F										33.986	98.826	112.280	167160.578
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

Weed Management in Roundup Ready Corn.

Project Code: 02-22-S110 Location: Belleville Research Center

Trial Comments

1. Protocol: Monsanto (2-16); Dow (19-21).
2. Application timings; POST only treatments use application timings 2-4"W-1 and 4-6"W-1, while PRE/POST treatments use application timings 2-4"W-2 and 4-6"W-2; 2-4"RG = 2-4 inch weed regrowth following a POST application.
3. DA-A = days after PRE application. DAPO = days after various postemergence applications.
4. Ratings at 14 days after 2-4"W-1, 4-6"W-1, 2-4"W-2, and 4-6"W-2 applications were on 6-25-02, 7-1-02, 6-28-02, and 7-2-02, respectively.
Ratings at 28 days after 2-4"W-1, 4-6"W-1, 2-4"W-2, and 4-6"W-2 applications were on 7-8-02, 7-15-02, 7-11-02, and 7-16-02, respectively.
Ratings for treatments that included a 2-4"RG application were made 14 days after the 2-4"W-1 application on 6-25-02 and 14 days after the 2-4"RG application on 7-16-02.
5. Canopy closure was on 7-16-02, there were no changes in weed control ratings after the 28 DAPO ratings.
6. IPOSS = morningglory species including pitted and ivyleaf morningglory.