

Sequential Herbicide Program Comparisons in Corn - I.

Project Code: 03-6A-W110 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-4-03

Objective:

Compare various sequential herbicide programs for use in conventional or Roundup Ready corn systems.

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

Crop 1:	ZEAMX corn, field	Variety:	DKC 60-17 RR
Planting Method:	Seeded	Planting Date:	5-23-03
Rate:	28000 S/A	Depth:	1.5 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	25 FT	Reps:	3
Tillage Type:	Reduced-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2002				

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

Soil Name:	Stoy	% OM:	2.1	pH:	5.7	CEC:	7
Texture:	Silt loam	Fert. Level:	P1: 82 LB/A, K: 266 LB/A				

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	5-24-03	6-20-03	6-20-03	7-3-03
Time of Day:	14:30	11:00	11:00	10:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	2-4"W-2	14DA-B
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	68 F	76 F	76 F	88 F
% Relative Humidity:	52	50	50	50
Wind Velocity, Unit:	0 MPH	2-5 MPH	2-5 MPH	3 MPH

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V4	ZEAMX V4	ZEAMX
Height, Unit:	NA NA	8 IN	8 IN	IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:		SETFA		
Stage(leaves):		4-6		
Height(inches):		2-6		
Density:		Medium		
Weed 2 Code:		AMATA		
Stage(leaves):		2-6		
Height(inches):		2-6		
Density:		Medium		
Weed 3 Code:		IPOHE		IPOHE
Stage(leaves):		1-3		1-3
Height(inches):		1-3		1-3
Density:		Low		Low

Weed 4 Code:	ABUTH		
Stage(leaves):	2-6		
Height(inches):	2-4		
Density:	Low		
Weed 5 Code:	XANST	XANST	XANST
Stage(leaves):	4-6	1-2	3-5
Height(inches):	2-6	0-2	3-4
Density:	Medium	Medium	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:	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

Harvested Oct-27-03, (2) 30 inch rows by 22 ft.

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Weed Code													SETFA	SETFA	SETFA	AMATA	AMATA	AMATA
Crop Code																		
Rating Data Type													Control	Control	Control	Control	Control	Control
Rating Unit													Percent	Percent	Percent	Percent	Percent	Percent
Rating Date													6-17-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03
Trt-Eval Interval													-3 DA-C	28 DA-C	42 DA-C	-3 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	Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	SETFA Control Percent	SETFA Control Percent	SETFA Control Percent	AMATA Control Percent	AMATA Control Percent	AMATA Control Percent
1	NONTREATED									38	0	0	0	0	0	0	0	0	0	0	0	0
2	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	156	0	0	0	0	0	0	99	95	95	99	93	91
3	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	143	0	0	0	0	0	0	99	98	97	99	99	96
3	AATREX	90	WG	1	LB A/A	1.11	LB/A	PRE	A													
4	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	161	0	0	0	0	0	0	99	97	97	99	99	98
4	CALLISTO	4	SC	0.094	LB A/A	3	FL OZ/A	2-4"	W-2 C													
4	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"	W-2 C													
4	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-2 C													
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C													
5	DEGREE XTRA	4	L	3.2	LB A/A	3.2	QT/A	PRE	A	162	0	0	0	0	0	0	97	94	93	99	99	99
5	YUKON	67.5	WG	0.169	LB A/A	4	OZ/A	2-4"	W-2 C													
5	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-2 C													
5	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C													
6	OUTLOOK	6	EC	0.84	LB A/A	0.56	QT/A	PRE	A	147	0	0	0	0	0	0	98	92	92	99	99	99
6	MARKSMAN	3.2	L	1.2	LB A/A	1.5	QT/A	2-4"	W-2 C													
6	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	2-4"	W-2 C													
7	GUARDSMAN MAX	5	L	2.5	LB A/A	2	QT/A	PRE	A	150	0	0	0	0	0	0	99	96	96	99	99	99
7	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	2-4"	W-2 C													
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-2 C													
7	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C													
8	KEYSTONE	5.25	L	3.4	LB A/A	2.6	QT/A	PRE	A	153	0	0	0	0	0	0	98	91	89	99	93	90
8	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	2-4"	W-2 C													
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-2 C													
8	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C													
9	CINCH ATZ	5.5	L	1.03	LB A/A	0.75	QT/A	PRE	A	160	0	0	0	0	0	0	97	99	99	99	99	98
9	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"	W-2 C													
9	AATREX	90	WG	1	LB A/A	1.11	LB/A	2-4"	W-2 C													
9	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-2 C													
9	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C													
10	HARNESS XTRA	5.6	L	1.4	LB A/A	1	QT/A	PRE	A	169	0	0	0	0	0	0	96	96	97	99	99	96
10	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	OZ/A	2-4"	W-2 C													
10	AMS	100	DRY	2	% W/W	2	% W/W	2-4"	W-2 C													

Weed Code								SETFA	SETFA	SETFA	AMATA	AMATA	AMATA
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Rating Data Type	Yield	Injury	Injury	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Unit	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	10-27-03	6-10-03	6-17-03	6-27-03	7-4-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03
Trt-Eval Interval		7 DAE	14 DAE	7 DA-C	14 DA-C	28 DA-C	42 DA-C	-3 DA-C	28 DA-C	42 DA-C	-3 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														
11	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	OZ/A	2-4"W-1	B	158					99	99		99	99				
11	AMS	100	DRY	2	% W/W	2	% W/W	2-4"W-1	B														
11	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	OZ/A	14DA-B	D														
11	AMS	100	DRY	2	% W/W	2	% W/W	14DA-B	D														
12	BASIS GOLD	90	WG	0.79	LB A/A	14	OZ/A	2-4"W-1	B	140					99	98		94	94				
12	CLARITY	4	EC	0.125	LB A/A	4	FL OZ/A	2-4"W-1	B														
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-1	B														
12	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-1	B														
13	CELEBRITY PLUS	70	WG	0.206	LB A/A	4.7	OZ/A	2-4"W-1	B	151					96	99		92	89				
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-1	B														
13	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-1	B														
14	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"W-1	B	160					99	99		99	99				
14	AATREX	90	WG	0.5	LB A/A	8.9	OZ/A	2-4"W-1	B														
14	CALLISTO	4	SC	0.094	LB A/A	3	FL OZ/A	2-4"W-1	B														
14	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"W-1	B														
14	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-1	B														
15	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"W-1	B	141					99	98		90	85				
15	AATREX	90	WG	1	LB A/A	17.8	OZ/A	2-4"W-1	B														
15	CLARITY	4	EC	0.0625	LB A/A	2	FL OZ/A	2-4"W-1	B														
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-1	B														
15	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-1	B														
16	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	2-4"W-1	B	111					99	99		0	0				
16	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	2-4"W-1	B														
16	DESTINY MSO	100	LIQ	1	% V/V	1	% V/V	2-4"W-1	B														
16	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-1	B														
17	KEYSTONE	5.25	L	1.8	LB A/A	1.37	QT/A	PRE	A	148	0	0	0	0	98	96	97	99	99	99			
17	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	1	QT/A	2-4"W-2	C														
17	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"W-2	C														
18	KEYSTONE	5.25	L	1.8	LB A/A	1.37	QT/A	PRE	A	174	0	0	0	0	98	94	95	99	99	99			
18	GLYPHOMAX HC	4	SL	0.75	LB AE/A	24	FL OZ/A	2-4"W-2	C														
18	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"W-2	C														
LSD (P=.05)										38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.9	3.2	0.3	5.8	6.1
Replicate F										6.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.216	2.520	3.786	1.000	1.521	1.468
Replicate Prob(F)										0.0053	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8077	0.0954	0.0328	0.3840	0.2330	0.2446
Treatment F										5.196	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1555.549	291.574	433.742	88156.000	241.284	219.770
Treatment Prob(F)										0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Code	IPOHE	IPOHE	IPOHE	ABUTH	ABUTH	ABUTH	XANST	XANST	XANST
Crop Code									
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-17-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03
Trt-Eval Interval	-3 DA-C	28 DA-C	42 DA-C	-3 DA-C	28 DA-C	42 DA-C	-3 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	
2	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	98	99	99	98	99	99	97	82	78
3	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	98	99	96	99	96	91	97	91	88
3	AATREX	90	WG	1	LB A/A	1.11	LB/A	PRE	A									
4	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	98	99	99	97	99	98	97	99	98
4	CALLISTO	4	SC	0.094	LB A/A	3	FL OZ/A	2-4"	W-2 C									
4	AATREX	90	WG	0.5	LB A/A	0.556	LB/A	2-4"	W-2 C									
4	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-2 C									
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C									
5	DEGREE XTRA	4	L	3.2	LB A/A	3.2	QT/A	PRE	A	98	99	99	97	99	97	94	99	99
5	YUKON	67.5	WG	0.169	LB A/A	4	OZ/A	2-4"	W-2 C									
5	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-2 C									
5	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C									
6	OUTLOOK	6	EC	0.84	LB A/A	0.56	QT/A	PRE	A	66	99	99	81	98	99	27	99	99
6	MARKSMAN	3.2	L	1.2	LB A/A	1.5	QT/A	2-4"	W-2 C									
6	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	2-4"	W-2 C									
7	GUARDSMAN MAX	5	L	2.5	LB A/A	2	QT/A	PRE	A	98	98	98	98	98	95	97	98	98
7	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	2-4"	W-2 C									
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-2 C									
7	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C									
8	KEYSTONE	5.25	L	3.4	LB A/A	2.6	QT/A	PRE	A	97	99	96	95	99	99	96	99	99
8	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	2-4"	W-2 C									
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-2 C									
8	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C									
9	CINCH ATZ	5.5	L	1.03	LB A/A	0.75	QT/A	PRE	A	96	99	99	83	99	99	57	98	98
9	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"	W-2 C									
9	AATREX	90	WG	1	LB A/A	1.11	LB/A	2-4"	W-2 C									
9	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-2 C									
9	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-2 C									
10	HARNESS XTRA	5.6	L	1.4	LB A/A	1	QT/A	PRE	A	98	98	99	92	99	96	93	98	97
10	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	OZ/A	2-4"	W-2 C									
10	AMS	100	DRY	2	% W/W	2	% W/W	2-4"	W-2 C									
11	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	OZ/A	2-4"	W-1 B		99	99		99	99		99	99
11	AMS	100	DRY	2	% W/W	2	% W/W	2-4"	W-1 B									
11	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	OZ/A	14DA	B D									
11	AMS	100	DRY	2	% W/W	2	% W/W	14DA	B D									

Weed Code	IPOHE	IPOHE	IPOHE	ABUTH	ABUTH	ABUTH	XANST	XANST	XANST
Crop Code									
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	6-17-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03	6-17-03	7-18-03	8-1-03
Trt-Eval Interval	-3 DA-C	28 DA-C	42 DA-C	-3 DA-C	28 DA-C	42 DA-C	-3 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	BASIS GOLD	90	WG	0.79	LB A/A	14	OZ/A	2-4"	W-1 B		99	99		99	99		99	
12	CLARITY	4	EC	0.125	LB A/A	4	FL OZ/A	2-4"	W-1 B									
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-1 B									
12	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-1 B									
13	CELEBRITY PLUS	70	WG	0.206	LB A/A	4.7	OZ/A	2-4"	W-1 B		99	95		98	99		98	
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-1 B									
13	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-1 B									
14	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"	W-1 B		99	99		99	99		99	
14	AATREX	90	WG	0.5	LB A/A	8.9	OZ/A	2-4"	W-1 B									
14	CALLISTO	4	SC	0.094	LB A/A	3	FL OZ/A	2-4"	W-1 B									
14	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	2-4"	W-1 B									
14	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-1 B									
15	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	2-4"	W-1 B		99	99		99	99		99	
15	AATREX	90	WG	1	LB A/A	17.8	OZ/A	2-4"	W-1 B									
15	CLARITY	4	EC	0.0625	LB A/A	2	FL OZ/A	2-4"	W-1 B									
15	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"	W-1 B									
15	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-1 B									
16	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	2-4"	W-1 B		99	99		99	99		99	
16	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	2-4"	W-1 B									
16	DESTINY MSO	100	LIQ	1	% V/V	1	% V/V	2-4"	W-1 B									
16	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"	W-1 B									
17	KEYSTONE	5.25	L	1.8	LB A/A	1.37	QT/A	PRE	A	98	99	99	97	99	99	97	97	98
17	GLYPHOMAX PLUS	3	SL	0.75	LB AE/A	1	QT/A	2-4"	W-2 C									
17	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"	W-2 C									
18	KEYSTONE	5.25	L	1.8	LB A/A	1.37	QT/A	PRE	A	98	99	99	98	97	97	98	95	97
18	GLYPHOMAX HC	4	SL	0.75	LB AE/A	24	FL OZ/A	2-4"	W-2 C									
18	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"	W-2 C									
LSD (P=.05)										13.8	0.6	3.5	13.5	1.9	4.5	12.0	3.8	4.5
Replicate F										1.147	0.654	0.017	1.002	2.631	1.451	0.855	3.874	3.051
Replicate Prob(F)										0.3358	0.5265	0.9836	0.3833	0.0866	0.2486	0.4389	0.0305	0.0605
Treatment F										37.531	14374.548	359.800	36.491	1190.583	225.160	65.819	316.957	221.341
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Sequential Herbicide Program Comparisons in Corn - I.

Project Code: 03-6A-W110 Location: Belleville Research Center

Trial Comments

1. Protocol: Syngenta, Dow.
2. Ratings: CI 7 and 14 DAE and 7, 14 and 28 DA "POST"; WC prior to "POST" and 28 and 42 DA "POST".
3. Must have yield.
4. DAE = days after emergence. DA-C = days after 2-4"W-1 or 2-4"W-2 application (applied same day). Ratings at -3 DA-C are 3 days prior to postemergence timing.
5. Crop injury ratings for treatment number 11 are 7, 14, 28 and 42 days after the 14DA-B application timing, rated on 7-10-03, 7-17-03, 7-31-03 and 8-14-03, respectively.
For treatment 11, there was no crop injury at 7, 14 and 28 days after the 2-4"W-1 application.
Weed control ratings for treatment number 11 are 28 and 42 days after the 14DA-B application timing, rated on 7-31-03 and 8-14-03, respectively.