

(01-CCC-1)

Evaluation of preemergence and postemergence applied herbicides for weed control in Liberty Link corn, Calumet, Iowa, 2001. Owen, Micheal D.K., James F. Lux, and Damian D. Franzenburg. The purpose of this study was to evaluate different herbicide treatments for weed efficacy and crop phytotoxicity on a glufosinate resistant corn hybrid. The soil was a Galva, Primghar silty clay loam with a pH 6.0 and 5.0% organic matter. The experimental design was a randomized complete block with three replications and plots were 10 by 25 ft. The 2000 crop was soybean. Tillage included a spring field cultivation. Fertilization included 130 lb/A actual N applied as 28%N. Crop residue on the soil surface was 11% at planting. "Pioneer hybrid 33P69 LL" corn was planted 1.5 inches deep on May 14, at 30,200 seeds/A in 30-inch rows. May rainfall included: 0.06, 0.65, 0.79, 0.12, 1.09, 0.02, 0.57, 0.21, 1.87, 0.03, 0.39, 0.08, 0.07, 0.03 and 0.03 inches on May 1, 2, 3, 4, 5, 6, 10, 19, 20, 21, 23, 24, 26, 30 and 31, respectively. Total rainfall for May was 6.02 inches. June rainfall included: 0.07, 0.19, 0.05, 0.31, 0.31, 0.08, 0.65 and 0.22 inches on June 1, 4, 5, 10, 11, 12, 13 and 14, respectively. Total rainfall for June was 1.88 inches. July rainfall included: 0.14 inches and 4.67 inches from July 1 through 15 and 16 through 31, respectively. Rainfall total for August was 3.02 inches. Application information is listed below:

Date	May 14	June 11	June 19
Treatment	PRE	EPOST	POST
Sprayer			
gpa	20	20	20
psi	30	30	30
nozzle	11002	11003	11003
Temperature (C)			
air	32	32	23
soil (4 inch)	19	24	20
Soil moisture	dry	dry	dry
Wind (mph)	10-13 S	5-10 S	0-5 NW
Sky	clear	cloudy	pt. cloudy
Relative humidity (%)	29%	53%	52%
Corn growth			
leaf no.	-	V4	V5-V6
height (inch)	-	3-4	6-9
Giant foxtail			
leaf no.	-	2	2-4, 0-2 tillers
height (inch)	-	1	0.25-3
infestation (ft <sup>2</sup> )	-	0-1	0-1
Common lambsquarters			
leaf no.	-	cotyl-numerous	cotyl-numerous
height (inch)	-	0.25-0.75	0.25-2.5
infestation (ft <sup>2</sup> )	-	0-3	0-1
Common waterhemp			
leaf no.	-	cotyl-numerous	cotyl-numerous
height (inch)	-	0.25-1.5	0.25-3.5
infestation (ft <sup>2</sup> )	-	0-5	0-5
Pennsylvania smartweed			
leaf no.	-	cotyl-6	2-numerous
height (inch)	-	0.25-1	1-3
infestation (ft <sup>2</sup> )	-	0-1	0-3

Velvetleaf			
leaf no.	-	-	cotyl-1
height (inch)	-	-	0.25-0.5
infestation (ft <sup>2</sup> )	-	-	0-1

Significant differences in corn stand between treatments were not due to the herbicides, but to variability in emergence. Several EPOST and POST applied treatments caused corn injury when observed on June 19, 27, and July 19. Injury ranged from 2 to 7%, and was not considered serious. Excellent giant foxtail, velvetleaf, and common waterhemp control was observed with all PRE and PRE plus EPOST treatments on June 19. Several PRE treatments, prior to the application of sequential POST treatments, failed to adequately control velvetleaf, common lambsquarters and Pennsylvania smartweed on June 19. However, when observed on July 19 and August 21, following POST applications, all treatments provided excellent control of all species evaluated. (Dept. of Agronomy, Iowa State University, Ames)

DATA MEAN

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**CREATED:** 06/05/2001 **REVISED:** 11/30/2001

**COMPLETED:** N

**PROJECT TYPE:** HERBICIDE

**LOCATION:** CALUMET, IA

**RESEARCHED BY:** IA State University

**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN

**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG

**REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD	ZEAMD	SETFA	ABUTH	AMATA
		RATE	UNIT	TM	17.5 FT 08/21/01	PHY % 06/19/01	CON % 06/19/01	CON % 06/19/01	CON % 06/19/01
1A	UNTREATED CHECK	0.00	NA	0	28	0	0	0	0
2A	BALANCE PRO (4SC)	0.07	LAA	1	29	0	96	99	96
	B>LIBERTY (1.67SL)	0.365	LAA	3					
	C ATRAZINE 90DF (WG)	0.90	LAA	3					
	D>AMMONIUM SULFATE	3.00	LMA	3					
3A	BALANCE PRO (4SC)	0.094	LAA	1	31	0	99	99	99
	B>DEFINE (60DF)	0.30	LAA	1					
	C ATRAZINE 90DF (WG)	1.35	LAA	1					
4A	OUTLOOK (6EC)	0.98	LAA	1	29	3	99	99	99
	B MARKSMAN (3.2SC)	1.40	LAA	2					
	C>AMMONIUM SULFATE	2.50	LMA	2					
5A	GUARDSMAN MAX (5SE)	2.50	LAA	1	29	0	99	99	99
	B>DISTINCT (70WG)	0.175	LAA	3					
	C>NIS	0.25	PMV	3					
	D>AMMONIUM SULFATE	5.00	LMG	3					
6A	AXIOM (68DF)	0.89	LAA	1	29	3	99	99	99
	B MARKSMAN (3.2SC)	1.00	LAA	2					
	C>AMMONIUM SULFATE	2.50	LMA	2					
7A	USA 2001 (71.5DF)	0.36	LAA	1	29	0	98	99	96
	B>BASIS GOLD (89.5DF)	0.783	LAA	3					
	C>CROP OIL CONCENTRATE	1.00	PMV	3					
	D>28%N	2.00	QMA	3					
8A	EPIC (58DF)	0.25	LAA	1	29	0	98	99	99
	B>LIBERTY (1.67SL)	0.261	LAA	3					
	C>AMMONIUM SULFATE	3.00	LMA	3					
9A	USA 2001 (71.5DF)	0.36	LAA	1	30	0	98	99	98
	B>LIBERTY (1.67SL)	0.261	LAA	3					
	C>AMMONIUM SULFATE	3.00	LMA	3					
10A	EPIC (58DF)	0.25	LAA	1	31	0	98	98	99
	B>BASIS GOLD (89.5DF)	0.783	LAA	3					
	C>CROP OIL CONCENTRATE	1.00	PMV	3					
	D>28%N	2.00	QMA	3					
11A	DEFINE (60DF)	0.79	LAA	2	29	0	98	99	99
	B ATRAZINE 90DF (WG)	0.90	LAA	2					
	C>CROP OIL CONCENTRATE	1.00	QMA	2					
12A	FULTIME (4SC)	3.00	LAA	1	30	0	99	99	99
	B>HORNET WDG (68.5WG)	0.128	LAA	1					
13A	FULTIME (4SC)	3.00	LAA	1	28	2	99	99	99
	B>HORNET WDG (68.5WG)	0.128	LAA	3					
	C ATRAZINE 90DF (WG)	0.90	LAA	3					
	D>28%N	2.50	PMV	3					
	E>NIS	0.25	PMV	3					
14A	BALANCE PRO (4SC)	0.047	LAA	1	29	0	95	98	95
	B>STEADFAST (75WDG)	0.035	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D>CROP OIL CONCENTRATE	1.00	PMV	3					
	E>28%N	2.00	QMA	3					
15A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	29	7	99	99	99
	B>AIM (40DF)	0.008	LAA	2					
	C ATRAZINE 90DF (WG)	0.50	LAA	2					
	D CLARITY (4SL)	0.125	LAA	2					
	E>NIS	0.25	PMV	2					

DATA MEAN

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TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	ZEAMD	SETFA	ABUTH	AMATA
		RATE	UNIT		17.5 FT 08/21/01	PHY % 06/19/01	CON % 06/19/01	CON % 06/19/01	CON % 06/19/01
16A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	29	5	99	99	99
	B»AIM (40DF)	0.008	LAA	2					
	C»HORNET WDG (68.5WG)	0.128	LAA	2					
	D»NIS	0.25	PMV	2					
17A	DEGREE XTRA (4.04CS)	3.74	LAA	1	29	0	99	99	99
	B»BALANCE PRO (4SC)	0.063	LAA	1					
18A	DEGREE 3.8 (CS)	2.38	LAA	1	29	0	99	72	99
	B PERMIT (75WG)	0.031	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D»NIS	0.25	PMV	3					
19A	BICEP II LITE MAGNUM (6SC)	3.30	LAA	1	28	0	99	99	99
	B»CALLISTO (4SC)	0.094	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
20A	DUAL II MAGNUM (7.64EC)	1.91	LAA	1	28	0	99	70	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
LSD (0.05)					2.07	2.14	2.53	1.63	2.82

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**RESEARCHED BY:** IA State University

**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN

**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG

**REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			CHEAL	POLPY	ZEAMD	ZEAMD	SETFA
		RATE	UNIT	TM	CON % 06/19/01	CON % 06/19/01	PHY % 06/27/01	PHY % 07/19/01	CON % 07/19/01
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0	0
2A	BALANCE PRO (4SC)	0.07	LAA	1	99	67	0	0	98
	B>LIBERTY (1.67SL)	0.365	LAA	3					
	C ATRAZINE 90DF (WG)	0.90	LAA	3					
	D>AMMONIUM SULFATE	3.00	LMA	3					
3A	BALANCE PRO (4SC)	0.094	LAA	1	99	99	0	0	98
	B>DEFINE (60DF)	0.30	LAA	1					
	C ATRAZINE 90DF (WG)	1.35	LAA	1					
4A	OUTLOOK (6EC)	0.98	LAA	1	99	99	3	0	99
	B MARKSMAN (3.2SC)	1.40	LAA	2					
	C>AMMONIUM SULFATE	2.50	LMA	2					
5A	GUARDSMAN MAX (5SE)	2.50	LAA	1	99	99	0	0	99
	B>DISTINCT (70WG)	0.175	LAA	3					
	C>NIS	0.25	PMV	3					
	D>AMMONIUM SULFATE	5.00	LMG	3					
6A	AXIOM (68DF)	0.89	LAA	1	99	98	2	0	99
	B MARKSMAN (3.2SC)	1.00	LAA	2					
	C>AMMONIUM SULFATE	2.50	LMA	2					
7A	USA 2001 (71.5DF)	0.36	LAA	1	99	73	3	0	99
	B>BASIS GOLD (89.5DF)	0.783	LAA	3					
	C>CROP OIL CONCENTRATE	1.00	PMV	3					
	D>28%N	2.00	QMA	3					
8A	EPIC (58DF)	0.25	LAA	1	99	72	0	0	99
	B>LIBERTY (1.67SL)	0.261	LAA	3					
	C>AMMONIUM SULFATE	3.00	LMA	3					
9A	USA 2001 (71.5DF)	0.36	LAA	1	96	65	0	0	99
	B>LIBERTY (1.67SL)	0.261	LAA	3					
	C>AMMONIUM SULFATE	3.00	LMA	3					
10A	EPIC (58DF)	0.25	LAA	1	99	63	0	0	98
	B>BASIS GOLD (89.5DF)	0.783	LAA	3					
	C>CROP OIL CONCENTRATE	1.00	PMV	3					
	D>28%N	2.00	QMA	3					
11A	DEFINE (60DF)	0.79	LAA	2	99	88	0	0	96
	B ATRAZINE 90DF (WG)	0.90	LAA	2					
	C>CROP OIL CONCENTRATE	1.00	QMA	2					
12A	FULTIME (4SC)	3.00	LAA	1	99	98	0	0	99
	B>HORNET WDG (68.5WG)	0.128	LAA	1					
13A	FULTIME (4SC)	3.00	LAA	1	99	95	2	0	99
	B>HORNET WDG (68.5WG)	0.128	LAA	3					
	C ATRAZINE 90DF (WG)	0.90	LAA	3					
	D>28%N	2.50	PMV	3					
	E>NIS	0.25	PMV	3					
14A	BALANCE PRO (4SC)	0.047	LAA	1	98	73	0	0	99
	B>STEADFAST (75WDG)	0.035	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D>CROP OIL CONCENTRATE	1.00	PMV	3					
	E>28%N	2.00	QMA	3					
15A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	99	99	0	2	99
	B>AIM (40DF)	0.008	LAA	2					
	C ATRAZINE 90DF (WG)	0.50	LAA	2					
	D CLARITY (4SL)	0.125	LAA	2					
	E>NIS	0.25	PMV	2					

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		RATE	UNIT	TM	CON % 06/19/01	CON % 06/19/01	PHY % 06/27/01	PHY % 07/19/01	CON % 07/19/01
16A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	99	93	0	0	99
	B»AIM (40DF)	0.008	LAA	2					
	C»HORNET WDG (68.5WG)	0.128	LAA	2					
	D»NIS	0.25	PMV	2					
17A	DEGREE XTRA (4.04CS)	3.74	LAA	1	99	98	0	0	99
	B»BALANCE PRO (4SC)	0.063	LAA	1					
18A	DEGREE 3.8 (CS)	2.38	LAA	1	73	52	2	0	99
	B PERMIT (75WG)	0.031	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D»NIS	0.25	PMV	3					
19A	BICEP II LITE MAGNUM (6SC)	3.30	LAA	1	99	99	0	0	99
	B»CALLISTO (4SC)	0.094	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
20A	DUAL II MAGNUM (7.64EC)	1.91	LAA	1	87	65	0	0	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
		LSD (0.05)			11.00	17.00	3.08	1.07	1.74

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**RESEARCHED BY:** IA State University

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**PLOT SIZE:** 10.00 FT WIDE X 25.00 FT LONG

**REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			ABUTH CON % 07/19/01	AMATA CON % 07/19/01	CHEAL CON % 07/19/01	POLPY CON % 07/19/01	SETFA CON % 08/21/01
		RATE	UNIT	TM					
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0	0
2A	BALANCE PRO (4SC)	0.07	LAA	1	99	99	99	99	98
	B>LIBERTY (1.67SL)	0.365	LAA	3					
	C ATRAZINE 90DF (WG)	0.90	LAA	3					
	D>AMMONIUM SULFATE	3.00	LMA	3					
3A	BALANCE PRO (4SC)	0.094	LAA	1	99	99	99	99	98
	B>DEFINE (60DF)	0.30	LAA	1					
	C ATRAZINE 90DF (WG)	1.35	LAA	1					
4A	OUTLOOK (6EC)	0.98	LAA	1	99	99	99	99	99
	B MARKSMAN (3.2SC)	1.40	LAA	2					
	C>AMMONIUM SULFATE	2.50	LMA	2					
5A	GUARDSMAN MAX (5SE)	2.50	LAA	1	99	99	99	99	98
	B>DISTINCT (70WG)	0.175	LAA	3					
	C>NIS	0.25	PMV	3					
	D>AMMONIUM SULFATE	5.00	LMG	3					
6A	AXIOM (68DF)	0.89	LAA	1	99	99	99	99	99
	B MARKSMAN (3.2SC)	1.00	LAA	2					
	C>AMMONIUM SULFATE	2.50	LMA	2					
7A	USA 2001 (71.5DF)	0.36	LAA	1	99	99	99	99	98
	B>BASIS GOLD (89.5DF)	0.783	LAA	3					
	C>CROP OIL CONCENTRATE	1.00	PMV	3					
	D>28%N	2.00	QMA	3					
8A	EPIC (58DF)	0.25	LAA	1	99	99	99	99	98
	B>LIBERTY (1.67SL)	0.261	LAA	3					
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	C>CROP OIL CONCENTRATE	1.00	PMV	3					
	D>28%N	2.00	QMA	3					
11A	DEFINE (60DF)	0.79	LAA	2	99	96	99	88	93
	B ATRAZINE 90DF (WG)	0.90	LAA	2					
	C>CROP OIL CONCENTRATE	1.00	QMA	2					
12A	FULTIME (4SC)	3.00	LAA	1	99	99	99	99	99
	B>HORNET WDG (68.5WG)	0.128	LAA	1					
13A	FULTIME (4SC)	3.00	LAA	1	99	99	99	99	99
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	C ATRAZINE 90DF (WG)	0.90	LAA	3					
	D>28%N	2.50	PMV	3					
	E>NIS	0.25	PMV	3					
14A	BALANCE PRO (4SC)	0.047	LAA	1	99	99	99	99	99
	B>STEADFAST (75WDG)	0.035	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D>CROP OIL CONCENTRATE	1.00	PMV	3					
	E>28%N	2.00	QMA	3					
15A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	96	99	99	96	99
	B>AIM (40DF)	0.008	LAA	2					
	C ATRAZINE 90DF (WG)	0.50	LAA	2					
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		RATE	UNIT		CON % 07/19/01	CON % 07/19/01	CON % 07/19/01	CON % 07/19/01	CON % 08/21/01
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	B»BALANCE PRO (4SC)	0.063	LAA	1					
18A	DEGREE 3.8 (CS)	2.38	LAA	1	99	99	99	98	99
	B PERMIT (75WG)	0.031	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D»NIS	0.25	PMV	3					
19A	BICEP II LITE MAGNUM (6SC)	3.30	LAA	1	99	99	99	99	99
	B»CALLISTO (4SC)	0.094	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
20A	DUAL II MAGNUM (7.64EC)	1.91	LAA	1	99	99	99	99	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
		LSD (0.05)			2.48	1.19	0.00	2.84	2.54



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**REPS:** 03

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		RATE	UNIT	TM	CON % 08/21/01	CON % 08/21/01	CON % 08/21/01	CON % 08/21/01
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0
2A	BALANCE PRO (4SC)	0.07	LAA	1	99	99	99	99
	B>LIBERTY (1.67SL)	0.365	LAA	3				
	C ATRAZINE 90DF (WG)	0.90	LAA	3				
	D>AMMONIUM SULFATE	3.00	LMA	3				
3A	BALANCE PRO (4SC)	0.094	LAA	1	99	99	99	99
	B>DEFINE (60DF)	0.30	LAA	1				
	C ATRAZINE 90DF (WG)	1.35	LAA	1				
4A	OUTLOOK (6EC)	0.98	LAA	1	99	98	99	99
	B MARKSMAN (3.2SC)	1.40	LAA	2				
	C>AMMONIUM SULFATE	2.50	LMA	2				
5A	GUARDSMAN MAX (5SE)	2.50	LAA	1	99	99	99	99
	B>DISTINCT (70WG)	0.175	LAA	3				
	C>NIS	0.25	PMV	3				
	D>AMMONIUM SULFATE	5.00	LMG	3				
6A	AXIOM (68DF)	0.89	LAA	1	99	99	99	99
	B MARKSMAN (3.2SC)	1.00	LAA	2				
	C>AMMONIUM SULFATE	2.50	LMA	2				
7A	USA 2001 (71.5DF)	0.36	LAA	1	99	99	99	99
	B>BASIS GOLD (89.5DF)	0.783	LAA	3				
	C>CROP OIL CONCENTRATE	1.00	PMV	3				
	D>28%N	2.00	QMA	3				
8A	EPIC (58DF)	0.25	LAA	1	99	99	99	99
	B>LIBERTY (1.67SL)	0.261	LAA	3				
	C>AMMONIUM SULFATE	3.00	LMA	3				
9A	USA 2001 (71.5DF)	0.36	LAA	1	99	98	99	99
	B>LIBERTY (1.67SL)	0.261	LAA	3				
	C>AMMONIUM SULFATE	3.00	LMA	3				
10A	EPIC (58DF)	0.25	LAA	1	99	99	99	96
	B>BASIS GOLD (89.5DF)	0.783	LAA	3				
	C>CROP OIL CONCENTRATE	1.00	PMV	3				
	D>28%N	2.00	QMA	3				
11A	DEFINE (60DF)	0.79	LAA	2	99	92	96	85
	B ATRAZINE 90DF (WG)	0.90	LAA	2				
	C>CROP OIL CONCENTRATE	1.00	QMA	2				
12A	FULTIME (4SC)	3.00	LAA	1	99	99	99	98
	B>HORNET WDG (68.5WG)	0.128	LAA	1				
13A	FULTIME (4SC)	3.00	LAA	1	99	99	99	99
	B>HORNET WDG (68.5WG)	0.128	LAA	3				
	C ATRAZINE 90DF (WG)	0.90	LAA	3				
	D>28%N	2.50	PMV	3				
	E>NIS	0.25	PMV	3				
14A	BALANCE PRO (4SC)	0.047	LAA	1	99	99	99	99
	B>STEADFAST (75WDG)	0.035	LAA	3				
	C CLARITY (4SL)	0.125	LAA	3				
	D>CROP OIL CONCENTRATE	1.00	PMV	3				
	E>28%N	2.00	QMA	3				
15A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	96	99	98	90
	B>AIM (40DF)	0.008	LAA	2				
	C ATRAZINE 90DF (WG)	0.50	LAA	2				
	D CLARITY (4SL)	0.125	LAA	2				
	E>NIS	0.25	PMV	2				

DATA MEAN

**TITLE:** Evaluation of preemergence and postemergence applied herbicides for weed control in Liberty Link corn.

TRT NUM	TREATMENT COMPONENT	DOSAGE			ABUTH	AMATA	CHEAL	POLPY	
		RATE	UNIT	TM	CON % 08/21/01	CON % 08/21/01	CON % 08/21/01	CON % 08/21/01	
16A	DUAL II MAGNUM (7.64 EC)	1.43	LAA	1	95	99	99	96	
	B»AIM (40DF)	0.008	LAA	2					
	C»HORNET WDG (68.5WG)	0.128	LAA	2					
	D»NIS	0.25	PMV	2					
17A	DEGREE XTRA (4.04CS)	3.74	LAA	1	99	99	99	98	
	B»BALANCE PRO (4SC)	0.063	LAA	1					
18A	DEGREE 3.8 (CS)	2.38	LAA	1	99	99	99	98	
	B PERMIT (75WG)	0.031	LAA	3					
	C CLARITY (4SL)	0.125	LAA	3					
	D»NIS	0.25	PMV	3					
19A	BICEP II LITE MAGNUM (6SC)	3.30	LAA	1	99	99	99	99	
	B»CALLISTO (4SC)	0.094	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
20A	DUAL II MAGNUM (7.64EC)	1.91	LAA	1	99	99	99	99	
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
					LSD (0.05)	2.48	1.63	2.06	4.57

» = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

- 00 = UNTRCHK / UNTREATED TIMING (FP)
- 01 = PREPRE / PRE 05/14/2001(1)
- 02 = EAPOWE / EPOST 06/11/2001(2)
- 03 = POSPOS / POST 06/19/2001(3)