

(01-ACC-7)

Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn, Ames, Iowa, 2001. Owen, Micheal D.K., James F. Lux, and Damian D. Franzenburg. The purpose of this study was to evaluate prosulfuron plus dicamba prepackage mixture in combination with atrazine and carfentrazone for weed efficacy and corn phytotoxicity. The soil was a Canisteo, Nicollet, Clarion Webster clay loam with a pH 6.8 and 4.3% 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 124 lb/A actual N applied as urea. Dual II Magnum was applied preplant and incorporated one pass with a field cultivator operating 2 to 4 inches deep. Crop residue on the soil surface was % at planting. "Garst hybrid 8550" corn was planted 1.5 inches deep on April 27, at 30,200 seeds/A in 30-inch rows. April rainfall included: 0.01, 0.25, 0.01, 0.54, 0.41, 0.87, 0.09, 0.01, 0.07, 0.02, 0.73, 0.07 and 0.26 inches on April 2, 6, 7, 8, 10, 11, 13, 15, 20, 21, 22, 24 and 30, respectively. Total rainfall for April was 3.34 inches. May rainfall included: 0.18, 0.39, 0.83, 0.12, 0.15, 0.22, 0.07, 0.98, 0.26, 1.58, 0.05, 0.15, 0.03, 0.27, 0.20, 0.02, 0.13 and 0.64 inches on May 1, 2, 3, 4, 5, 6, 9, 10, 13, 20, 21, 23, 24, 25, 26, 27, 28 and 31, respectively. Total rainfall for May was 6.27 inches. June rainfall included: 0.07, 0.02, 0.30, 0.14, 0.59, 0.38, 0.16 and 0.01 inches on June 1, 4, 5, 10, 12, 14, 16 and 20, respectively. Total rainfall for June was 1.67 inches. July rainfall included: 0.44 inches and 1.24 inches from July 1 through 15 and 16 through 31, respectively. Rainfall total for August was 2.50 inches. Application information is listed below:

Date	April 27	June 7	June 22
Treatment	PPI, PRE	EPOST	DPOST
Sprayer			
gpa	20	20	20
psi	30	30	30
nozzle	11002	11003	15003
Temperature (C)			
air	28	27	24
soil (4 inch)	19	26	20
Soil moisture	dry	dry	dry
Sky	clear	clear	clear
Wind (mph)	5-10 E	8-10 N	0-5 N
Relative humidity (%)	28%	46%	49%
Corn growth			
leaf no.	-	V5-V6	V9-V10
height (inch)	-	10-12	24
Giant foxtail			
leaf no.	-	1-4	2-4, 0-2 tillers
height (inch)	-	0.25-3	2-6
infestation (ft ²)	-	0-6	0-1
Common cocklebur			
leaf no.	-	2	4-8
height (inch)	-	3	4-10
infestation (ft ²)	-	0-1	0-1
Common lambsquarters			
leaf no.	-	cotyl-4	numerous
height (inch)	-	0.25-2	2-9
infestation (ft ²)	-	0-3	0-1

Common waterhemp			
leaf no.	-	cotyl-2	numerous
height (inch)	-	0.125-0.5	3-4
infestation (ft ²)	-	0-3	0-1
Velvetleaf			
leaf no.	-	cotyl-4	3-6
height (inch)	-	0.25-4	3-6
infestation (ft ²)	-	0-1	0-1

Significant differences in corn stand between treatments were determined, but were due to variability in emergence and not herbicides. PRE tank-mixture treatments of Dual II Magnum plus Atrazine provided acceptable giant foxtail, common waterhemp and common lambsquarters control on June 18. Dual II Magnum plus Atrazine at 0.75 lb/A was not effective in controlling velvetleaf and common lambsquarters on July 6 and August 20. Dual plus Atrazine at 1.0 lb/A was, however. Common cocklebur was unacceptable on all evaluation dates with both treatments. EPOST treatments of Northstar plus Aim following PRE Dual II Magnum applications caused 12 to 15% corn injury when observed on June 18, eleven days after application. Excellent giant foxtail, velvetleaf, common waterhemp, common lambsquarters, and common cocklebur control was achieved with the PRE plus EPOST treatments when observed on June 18, July 6, and August 20. DPOST (directed post) applications following PRE demonstrated excellent crop safety when observed on June 29, seven days after application. Resultant weed control on July 6 and August 20 with these treatments was excellent. Considerable variability in corn yields was observed with significant differences occurring between treatments. (Dept. of Agronomy, Iowa State University, Ames)

DATA MEAN

TITLE: Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn.

CREATED: 06/04/2001 REVISED: 11/30/2001

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: AMES, 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		TM	ZEAMD	ZEAMD	ZEAMD	SETFA	ABUTH
		RATE	UNIT		17.5 FT	PHY %	PHY %	CON %	CON %
					07/05/01	05/21/01	06/18/01	06/18/01	06/18/01
1A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	28	0	0	95	40
2A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	32	0	0	93	65
	B AATREX 4L (SC)	0.75	LAA	2					
3A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	0	0	92	91
	B AATREX 4L (SC)	1.00	LAA	2					
4A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	28	0	0	96	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
	D»AMMONIUM SULFATE	2.50	LMA	3					
5A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	0	0	96	99
	B AATREX 4L (SC)	0.75	LAA	2					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
6A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	0	0	98	99
	B AATREX 4L (SC)	1.00	LAA	2					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
7A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	32	0	3	96	99
	B AATREX 4L (SC)	0.75	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
	D»AMMONIUM SULFATE	2.50	LMA	3					
8A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	0	2	95	94
	B AATREX 4L (SC)	1.00	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
	D»AMMONIUM SULFATE	2.50	LMA	3					
9A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	31	0	2	96	99
	B AATREX 4L (SC)	0.75	LAA	3					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
10A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	3	99	99
	B AATREX 4L (SC)	1.00	LAA	3					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
11A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	12	95	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.005	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
12A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	15	99	98
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.006	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
13A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	0	15	96	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.008	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					

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TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	ZEAMD	ZEAMD	SETFA	ABUTH
		RATE	UNIT		17.5 FT 07/05/01	PHY % 05/21/01	PHY % 06/18/01	CON % 06/18/01	CON % 06/18/01
14A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	0	0	95	99
	B»CALLISTO (4SC)	0.094	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
15A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	0	95	99
	B AATREX 4L (SC)	0.50	LAA	3					
	C»CALLISTO (4SC)	0.094	LAA	3					
	D»CROP OIL CONCENTRATE	1.00	PMV	3					
	E»28%N	2.50	PMV	3					
16A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	0	93	47
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»CROP OIL CONCENTRATE	2.00	PMA	4					
	D»AMMONIUM SULFATE	2.50	LMA	4					
17A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	27	0	0	92	40
	B AATREX 4L (SC)	0.75	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
18A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	28	0	0	87	42
	B AATREX 4L (SC)	1.00	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
19A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	0	88	38
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.005	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
20A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	0	93	50
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.006	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
21A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	29	0	0	88	47
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.008	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
LSD (0.05)					2.74	0.00	3.00	5.73	17.62

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COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: AMES, 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			AMATA	CHEAL	XANST	ZEAMD	ZEAMD
		RATE	UNIT	TM	CON % 06/18/01	CON % 06/18/01	CON % 06/18/01	PHY % 06/29/01	PHY % 07/06/01
1A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	98	55	32	0	0
2A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	96	89	60	0	0
	B AATREX 4L (SC)	0.75	LAA	2					
3A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	91	99	65	0	0
	B AATREX 4L (SC)	1.00	LAA	2					
4A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
	D»AMMONIUM SULFATE	2.50	LMA	3					
5A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B AATREX 4L (SC)	0.75	LAA	2					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
6A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B AATREX 4L (SC)	1.00	LAA	2					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
7A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	2
	B AATREX 4L (SC)	0.75	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
	D»AMMONIUM SULFATE	2.50	LMA	3					
8A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B AATREX 4L (SC)	1.00	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
	D»AMMONIUM SULFATE	2.50	LMA	3					
9A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B AATREX 4L (SC)	0.75	LAA	3					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
10A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B AATREX 4L (SC)	1.00	LAA	3					
	C»NORTHSTAR (47.4WG)	0.148	LAA	3					
	D»CROP OIL CONCENTRATE	2.00	PMA	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
11A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	98	0	5
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.005	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
12A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	5
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.006	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					
13A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	5
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.008	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					

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TRT NUM	TREATMENT COMPONENT	DOSAGE			AMATA	CHEAL	XANST	ZEAMD	ZEAMD
		RATE	UNIT	TM	CON % 06/18/01	CON % 06/18/01	CON % 06/18/01	PHY % 06/29/01	PHY % 07/06/01
14A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B»CALLISTO (4SC)	0.094	LAA	3					
	C»CROP OIL CONCENTRATE	1.00	PMV	3					
	D»28%N	2.50	PMV	3					
15A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	99	99	0	0
	B AATREX 4L (SC)	0.50	LAA	3					
	C»CALLISTO (4SC)	0.094	LAA	3					
	D»CROP OIL CONCENTRATE	1.00	PMV	3					
	E»28%N	2.50	PMV	3					
16A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	90	53	30	0	0
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»CROP OIL CONCENTRATE	2.00	PMA	4					
	D»AMMONIUM SULFATE	2.50	LMA	4					
17A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	96	48	35	0	0
	B AATREX 4L (SC)	0.75	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
18A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	90	50	42	0	0
	B AATREX 4L (SC)	1.00	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
19A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	95	53	43	0	0
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.005	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
20A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	95	55	48	0	0
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.006	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
21A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	92	50	43	0	0
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.008	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
		LSD (0.05)			5.00	23.06	22.87	0.00	1.00

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PLOT SIZE: 10.00 FT WIDE X 25.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			SETFA	ABUTH	AMATA	CHEAL	XANST
		RATE	UNIT	TM	CON % 07/06/01	CON % 07/06/01	CON % 07/06/01	CON % 07/06/01	CON % 07/06/01
1A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	92	37	95	48	32
2A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	93	62	97	83	60
	B AATREX 4L (SC)	0.75	LAA	2					
3A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	90	91	91	98	65
	B AATREX 4L (SC)	1.00	LAA	2					
4A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	96	99	99	99	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»CROP OIL CONCENTRATE	2.00	PMA	3					
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6A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	96	99	99	99	99
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12A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	98	99	99	99	99
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	E»AMMONIUM SULFATE	2.50	LMA	3					
13A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	95	99	99	99	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	3					
	C»AIM (40DF)	0.008	LAA	3					
	D»NIS	0.25	PMV	3					
	E»AMMONIUM SULFATE	2.50	LMA	3					

DATA MEAN

TITLE: Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn.

TRT NUM	TREATMENT COMPONENT	DOSAGE			SETFA	ABUTH	AMATA	CHEAL	XANST
		RATE	UNIT	TM	CON % 07/06/01	CON % 07/06/01	CON % 07/06/01	CON % 07/06/01	CON % 07/06/01
14A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	93	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					
15A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	95	99	99	99	99
	B AATREX 4L (SC)	0.50	LAA	3					
	C»CALLISTO (4SC)	0.094	LAA	3					
	D»CROP OIL CONCENTRATE	1.00	PMV	3					
	E»28%N	2.50	PMV	3					
16A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	93	99	99	95	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»CROP OIL CONCENTRATE	2.00	PMA	4					
	D»AMMONIUM SULFATE	2.50	LMA	4					
17A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	92	98	99	99	99
	B AATREX 4L (SC)	0.75	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
18A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	88	99	99	99	99
	B AATREX 4L (SC)	1.00	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
19A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	90	99	99	98	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.005	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
20A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	95	88	99	95	89
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.006	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
21A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	88	99	99	98	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.008	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
		LSD (0.05)			5.08	14.53	3.20	7.06	19.34

DATA MEAN

TITLE: Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn.

CREATED: 06/04/2001 **REVISED:** 11/30/2001

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: AMES, 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 PHY % 07/06/01	SETFA CON % 08/20/01	ABUTH CON % 08/20/01	AMATA CON % 08/20/01	CHEAL CON % 08/20/01
		RATE	UNIT	TM					
1A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	83	20	95	47
2A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	90	62	95	83
	B AATREX 4L (SC)	0.75	LAA	2					
3A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	87	91	93	95
	B AATREX 4L (SC)	1.00	LAA	2					
4A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	90	99	99	99
	B>NORTHSTAR (47.4WG)	0.148	LAA	3					
	C>CROP OIL CONCENTRATE	2.00	PMA	3					
	D>AMMONIUM SULFATE	2.50	LMA	3					
5A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	92	99	99	99
	B AATREX 4L (SC)	0.75	LAA	2					
	C>NORTHSTAR (47.4WG)	0.148	LAA	3					
	D>CROP OIL CONCENTRATE	2.00	PMA	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					
6A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	96	99	99	99
	B AATREX 4L (SC)	1.00	LAA	2					
	C>NORTHSTAR (47.4WG)	0.148	LAA	3					
	D>CROP OIL CONCENTRATE	2.00	PMA	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					
7A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	2	93	96	99	99
	B AATREX 4L (SC)	0.75	LAA	3					
	C>CROP OIL CONCENTRATE	2.00	PMA	3					
	D>AMMONIUM SULFATE	2.50	LMA	3					
8A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	93	96	99	99
	B AATREX 4L (SC)	1.00	LAA	3					
	C>CROP OIL CONCENTRATE	2.00	PMA	3					
	D>AMMONIUM SULFATE	2.50	LMA	3					
9A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	95	99	99	99
	B AATREX 4L (SC)	0.75	LAA	3					
	C>NORTHSTAR (47.4WG)	0.148	LAA	3					
	D>CROP OIL CONCENTRATE	2.00	PMA	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					
10A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	98	99	99	99
	B AATREX 4L (SC)	1.00	LAA	3					
	C>NORTHSTAR (47.4WG)	0.148	LAA	3					
	D>CROP OIL CONCENTRATE	2.00	PMA	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					
11A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	5	92	99	98	99
	B>NORTHSTAR (47.4WG)	0.148	LAA	3					
	C>AIM (40DF)	0.005	LAA	3					
	D>NIS	0.25	PMV	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					
12A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	5	92	99	98	99
	B>NORTHSTAR (47.4WG)	0.148	LAA	3					
	C>AIM (40DF)	0.006	LAA	3					
	D>NIS	0.25	PMV	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					
13A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	5	90	99	96	99
	B>NORTHSTAR (47.4WG)	0.148	LAA	3					
	C>AIM (40DF)	0.008	LAA	3					
	D>NIS	0.25	PMV	3					
	E>AMMONIUM SULFATE	2.50	LMA	3					

DATA MEAN

TITLE: Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn.

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD	SETFA	ABUTH	AMATA	CHEAL
		RATE	UNIT	TM	PHY % 07/06/01	CON % 08/20/01	CON % 08/20/01	CON % 08/20/01	CON % 08/20/01
14A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	88	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					
15A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	92	99	98	99
	B AATREX 4L (SC)	0.50	LAA	3					
	C»CALLISTO (4SC)	0.094	LAA	3					
	D»CROP OIL CONCENTRATE	1.00	PMV	3					
	E»28%N	2.50	PMV	3					
16A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	92	99	99	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»CROP OIL CONCENTRATE	2.00	PMA	4					
	D»AMMONIUM SULFATE	2.50	LMA	4					
17A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	90	99	99	99
	B AATREX 4L (SC)	0.75	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
18A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	87	99	99	99
	B AATREX 4L (SC)	1.00	LAA	4					
	C»NORTHSTAR (47.4WG)	0.148	LAA	4					
	D»CROP OIL CONCENTRATE	2.00	PMA	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
19A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	90	99	99	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.005	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
20A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	93	88	99	96
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.006	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
21A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	0	87	99	99	99
	B»NORTHSTAR (47.4WG)	0.148	LAA	4					
	C»AIM (40DF)	0.008	LAA	4					
	D»NIS	0.25	PMV	4					
	E»AMMONIUM SULFATE	2.50	LMA	4					
		LSD (0.05)			1.00	6.71	14.46	2.58	5.90

DATA MEAN

TITLE: Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn.

CREATED: 06/04/2001 **REVISED:** 11/30/2001

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: AMES, 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		TM	XANST	ZEAMD
		RATE	UNIT		CON % 08/20/01	BU/A 10/02/01
1A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	30	181
2A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	60	182
	B AATREX 4L (SC)	0.75	LAA	2		
3A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	65	212
	B AATREX 4L (SC)	1.00	LAA	2		
4A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	182
	B»NORTHSTAR (47.4WG)	0.148	LAA	3		
	C»CROP OIL CONCENTRATE	2.00	PMA	3		
	D»AMMONIUM SULFATE	2.50	LMA	3		
5A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	189
	B AATREX 4L (SC)	0.75	LAA	2		
	C»NORTHSTAR (47.4WG)	0.148	LAA	3		
	D»CROP OIL CONCENTRATE	2.00	PMA	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		
6A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	196
	B AATREX 4L (SC)	1.00	LAA	2		
	C»NORTHSTAR (47.4WG)	0.148	LAA	3		
	D»CROP OIL CONCENTRATE	2.00	PMA	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		
7A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	208
	B AATREX 4L (SC)	0.75	LAA	3		
	C»CROP OIL CONCENTRATE	2.00	PMA	3		
	D»AMMONIUM SULFATE	2.50	LMA	3		
8A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	217
	B AATREX 4L (SC)	1.00	LAA	3		
	C»CROP OIL CONCENTRATE	2.00	PMA	3		
	D»AMMONIUM SULFATE	2.50	LMA	3		
9A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	195
	B AATREX 4L (SC)	0.75	LAA	3		
	C»NORTHSTAR (47.4WG)	0.148	LAA	3		
	D»CROP OIL CONCENTRATE	2.00	PMA	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		
10A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	189
	B AATREX 4L (SC)	1.00	LAA	3		
	C»NORTHSTAR (47.4WG)	0.148	LAA	3		
	D»CROP OIL CONCENTRATE	2.00	PMA	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		
11A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	178
	B»NORTHSTAR (47.4WG)	0.148	LAA	3		
	C»AIM (40DF)	0.005	LAA	3		
	D»NIS	0.25	PMV	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		
12A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	181
	B»NORTHSTAR (47.4WG)	0.148	LAA	3		
	C»AIM (40DF)	0.006	LAA	3		
	D»NIS	0.25	PMV	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		
13A»	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	179
	B»NORTHSTAR (47.4WG)	0.148	LAA	3		
	C»AIM (40DF)	0.008	LAA	3		
	D»NIS	0.25	PMV	3		
	E»AMMONIUM SULFATE	2.50	LMA	3		

DATA MEAN

TITLE: Evaluation of postemergence applied Northstar herbicide programs for broadleaf weed control in corn.

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	XANST	ZEAMD
		RATE	UNIT		CON % 08/20/01	BU/A 10/02/01
14A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	207
	B»CALLISTO (4SC)	0.094	LAA	3		
	C»CROP OIL CONCENTRATE	1.00	PMV	3		
	D»28%N	2.50	PMV	3		
15A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	188
	B AATREX 4L (SC)	0.50	LAA	3		
	C»CALLISTO (4SC)	0.094	LAA	3		
	D»CROP OIL CONCENTRATE	1.00	PMV	3		
	E»28%N	2.50	PMV	3		
16A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	183
	B»NORTHSTAR (47.4WG)	0.148	LAA	4		
	C»CROP OIL CONCENTRATE	2.00	PMA	4		
	D»AMMONIUM SULFATE	2.50	LMA	4		
17A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	188
	B AATREX 4L (SC)	0.75	LAA	4		
	C»NORTHSTAR (47.4WG)	0.148	LAA	4		
	D»CROP OIL CONCENTRATE	2.00	PMA	4		
	E»AMMONIUM SULFATE	2.50	LMA	4		
18A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	193
	B AATREX 4L (SC)	1.00	LAA	4		
	C»NORTHSTAR (47.4WG)	0.148	LAA	4		
	D»CROP OIL CONCENTRATE	2.00	PMA	4		
	E»AMMONIUM SULFATE	2.50	LMA	4		
19A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	185
	B»NORTHSTAR (47.4WG)	0.148	LAA	4		
	C»AIM (40DF)	0.005	LAA	4		
	D»NIS	0.25	PMV	4		
	E»AMMONIUM SULFATE	2.50	LMA	4		
20A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	89	199
	B»NORTHSTAR (47.4WG)	0.148	LAA	4		
	C»AIM (40DF)	0.006	LAA	4		
	D»NIS	0.25	PMV	4		
	E»AMMONIUM SULFATE	2.50	LMA	4		
21A	DUAL II MAGNUM (7.64EC)	1.43	LAA	1	99	192
	B»NORTHSTAR (47.4WG)	0.148	LAA	4		
	C»AIM (40DF)	0.008	LAA	4		
	D»NIS	0.25	PMV	4		
	E»AMMONIUM SULFATE	2.50	LMA	4		
		LSD (0.05)			19.00	24.26

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

01 = PRE INC / PPI 04/27/2001(1)
 02 = PREPRE / PRE 04/27/2001(2)
 03 = EAPOWE / EPOST 06/07/2001(3)
 04 = LAPOWE / DPOST 06/22/2001(4)