

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH STOUT TANK-MIXES, 2006

Trial ID: C0106
Conducted: CAMPUS

Study Dir.:
Investigator: Christy Sprague

Date Planted: 5/4/2006 Row Spacing: 30 IN
Variety: P37R70 No. of Reps: 3
Population: 30,000 S/A % OM: 3.4
Soil Type: clay loam pH: 6.6
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Soil Finish x2
Fertilizer: 285 lbs/A 46-0-0 broadcast. 125 lbs/A 19-19-19 in row at planting.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	ANNUAL GRASSES	
2.	CHEAL	Common lambsquarters	Chenopodium album L.
3.	AMARE	PIGWEEED, REDROOT	AMARANTHUS RETROFLEXUS L.
4.	AMBEL	RAGWEEED, COMMON	AMBROSIA ELATIOR L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

A
Application Timing: POST
Date Treated: 6/2/2006
Time Treated: 10:30 am
% Cloud Cover: 100
Air Temp., Unit: 72 F
% Relative Humidity: 58
Wind Speed/Unit/Dir: 3 mph NE
Soil Temp., Unit: 69 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

A
Crop Name: ZEAMX
Height (In.): 5-9 (7)
Stage (L): 4-5 (5)

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height (In.): .5-5 (3)
Stage (L): 1-4 (3)
Weed 2 Name: CHEAL
Height (In.): .25-3 (.5)
Stage (L): 2-6 (4)
Weed 3 Name: AMARE
Height (In.): .25-2 (1)
Stage (L): cot-6 (4)
Weed 4 Name: AMBEL
Height (In.): 1-3 (2)
Stage (L): 2-6 (4)
Weed 5 Name: ABUTH
Height (In.): 1-2 (2)
Stage (L): cot-2 (2)

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Weed Density (plants/sq. ft.)

1

Date: 6/2/2006
 Weed Name: ANGR
 Density: 37
 Date: 6/2/2006
 Weed Name: CHEAL
 Density: 59
 Date: 6/2/2006
 Weed Name: AMARE
 Density: 2
 Date: 6/2/2006
 Weed Name: AMBEL
 Density: 17
 Date: 6/2/2006
 Weed Name: ABUTH
 Density: <1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
A	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	cub	3.5	FF	8003	23"	20"	100"	20	H2O	30

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Weed Code							ANGR	CHEAL	AMARE	AMBEL	ABUTH			
Crop Code							ZEAMX	ZEAMX						ZEAMX
Rating Data Type							injury	injury	control	control	control	control	control	injury
Rating Unit							percent	percent	percent	percent	percent	percent	percent	percent
Rating Date							6/9/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006	6/29/2006
Trt-Eval Interval							7 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	27 DAPO
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
13	Steadfast	75	WG	0.75	oz/a	POST	5	0	98	100	100	100	100	0
13	Callisto	4	SC	1.5	fl oz/a	POST								
13	Atrazine 90 DF	90	DF	8	oz ai/a	POST								
13	Herbimax		L	1	% v/v	POST								
13	Ammonium Sulfate		DF	2	% w/w	POST								
14	Stout (mp)	72.5	DF	0.5	oz/a	POST	5	0	95	70	100	72	90	0
14	Clarity	4	L	4	fl oz/a	POST								
14	Herbimax		L	1	% v/v	POST								
14	Ammonium Sulfate		DF	2	% w/w	POST								
15	Stout (mp)	72.5	DF	0.75	oz/a	POST	5	0	96	72	100	70	81	0
15	Clarity	4	L	4	fl oz/a	POST								
15	Herbimax		L	1	% v/v	POST								
15	Ammonium Sulfate		DF	2	% w/w	POST								
16	Stout (mp)	72.5	DF	0.5	oz/a	POST	5	0	99	100	100	100	100	0
16	Lumax	3.94	SE	2	pt/a	POST								
16	Activator 90		L	0.25	% v/v	POST								
16	Ammonium Sulfate		DF	2	% w/w	POST								
17	Stout (mp)	72.5	DF	0.75	oz/a	POST	5	0	99	100	100	99	100	0
17	Lumax	3.94	SE	2	pt/a	POST								
17	Activator 90		L	0.25	% v/v	POST								
17	Ammonium Sulfate		DF	2	% w/w	POST								
18	Stout (mp)	72.5	DF	0.5	oz/a	POST	5	0	98	100	100	100	100	0
18	Lexar	3.7	L	2.3	pt/a	POST								
18	Activator 90		L	0.25	% v/v	POST								
18	Ammonium Sulfate		DF	2	% w/w	POST								
19	Stout (mp)	72.5	DF	0.75	oz/a	POST	5	0	98	100	100	100	100	0
19	Lexar	3.7	L	2.3	pt/a	POST								
19	Activator 90		L	0.25	% v/v	POST								
19	Ammonium Sulfate		DF	2	% w/w	POST								
20	Stout (mp)	72.5	DF	0.5	oz/a	POST	5	0	91	71	100	72	83	0
20	Distinct	70	DF	2	oz/a	POST								
20	Herbimax		L	1	% v/v	POST								
20	Ammonium Sulfate		DF	2	% w/w	POST								
21	Stout (mp)	72.5	DF	0.75	oz/a	POST	5	0	93	75	100	75	92	0
21	Distinct	70	DF	2	oz/a	POST								
21	Herbimax		L	1	% v/v	POST								
21	Ammonium Sulfate		DF	2	% w/w	POST								
22	Stout (mp)	72.5	DF	0.5	oz/a	POST	5	0	94	100	100	100	100	0
22	Atrazine 90 DF	90	DF	16	oz ai/a	POST								
22	Herbimax		L	1	% v/v	POST								
22	Ammonium Sulfate		DF	2	% w/w	POST								
23	Stout (mp)	72.5	DF	0.75	oz/a	POST	5	0	97	100	100	100	100	0
23	Atrazine 90 DF	90	DF	16	oz ai/a	POST								
23	Herbimax		L	1	% v/v	POST								
23	Ammonium Sulfate		DF	2	% w/w	POST								
24	Untreated						0	0	0	0	0	0	0	0
LSD (P=.05)							0.0	0.0	5.1	5.6	0.0	3.9	5.6	0.0
Standard Deviation							0.0	0.0	3.1	3.4	0.0	2.3	3.4	0.0
CV							0.0	0.0	3.38	3.83	0.0	2.77	3.71	0.0

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Weed Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code								
Rating Data Type	control	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/29/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	7/26/2006	7/26/2006	7/26/2006
Trt-Eval Interval	27 DAPO	27 DAPO	27 DAPO	27 DAPO	27 DAPO	54 DAPO	54 DAPO	54 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15	16
13	Steadfast	75	WG	0.75	oz/a	POST	87	100	100	98	100	78	100	100
13	Callisto	4	SC	1.5	fl oz/a	POST								
13	Atrazine 90 DF	90	DF	8	oz ai/a	POST								
13	Herbimax		L	1	% v/v	POST								
13	Ammonium Sulfate		DF	2	% w/w	POST								
14	Stout (mp)	72.5	DF	0.5	oz/a	POST	79	100	93	78	87	66	97	100
14	Clarity	4	L	4	fl oz/a	POST								
14	Herbimax		L	1	% v/v	POST								
14	Ammonium Sulfate		DF	2	% w/w	POST								
15	Stout (mp)	72.5	DF	0.75	oz/a	POST	80	100	100	81	75	67	100	100
15	Clarity	4	L	4	fl oz/a	POST								
15	Herbimax		L	1	% v/v	POST								
15	Ammonium Sulfate		DF	2	% w/w	POST								
16	Stout (mp)	72.5	DF	0.5	oz/a	POST	91	100	100	100	100	83	100	100
16	Lumax	3.94	SE	2	pt/a	POST								
16	Activator 90		L	0.25	% v/v	POST								
16	Ammonium Sulfate		DF	2	% w/w	POST								
17	Stout (mp)	72.5	DF	0.75	oz/a	POST	92	100	100	100	100	82	100	100
17	Lumax	3.94	SE	2	pt/a	POST								
17	Activator 90		L	0.25	% v/v	POST								
17	Ammonium Sulfate		DF	2	% w/w	POST								
18	Stout (mp)	72.5	DF	0.5	oz/a	POST	87	100	100	100	99	79	100	100
18	Lexar	3.7	L	2.3	pt/a	POST								
18	Activator 90		L	0.25	% v/v	POST								
18	Ammonium Sulfate		DF	2	% w/w	POST								
19	Stout (mp)	72.5	DF	0.75	oz/a	POST	89	100	100	100	100	77	100	100
19	Lexar	3.7	L	2.3	pt/a	POST								
19	Activator 90		L	0.25	% v/v	POST								
19	Ammonium Sulfate		DF	2	% w/w	POST								
20	Stout (mp)	72.5	DF	0.5	oz/a	POST	74	99	100	93	87	58	98	97
20	Distinct	70	DF	2	oz/a	POST								
20	Herbimax		L	1	% v/v	POST								
20	Ammonium Sulfate		DF	2	% w/w	POST								
21	Stout (mp)	72.5	DF	0.75	oz/a	POST	78	99	100	100	97	57	100	100
21	Distinct	70	DF	2	oz/a	POST								
21	Herbimax		L	1	% v/v	POST								
21	Ammonium Sulfate		DF	2	% w/w	POST								
22	Stout (mp)	72.5	DF	0.5	oz/a	POST	81	100	100	94	100	68	100	99
22	Atrazine 90 DF	90	DF	16	oz ai/a	POST								
22	Herbimax		L	1	% v/v	POST								
22	Ammonium Sulfate		DF	2	% w/w	POST								
23	Stout (mp)	72.5	DF	0.75	oz/a	POST	79	100	100	97	100	65	100	100
23	Atrazine 90 DF	90	DF	16	oz ai/a	POST								
23	Herbimax		L	1	% v/v	POST								
23	Ammonium Sulfate		DF	2	% w/w	POST								
24	Untreated						0	0	0	0	0	0	0	0
LSD (P=.05)							10.2	4.1	3.7	8.9	9.5	16.0	4.8	1.8
Standard Deviation							6.2	2.5	2.2	5.4	5.7	9.7	2.9	1.1
CV							7.94	2.65	2.35	6.47	6.25	15.13	3.08	1.14

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Conducted: CAMPUSStudy Dir.:
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Weed Code	AMBEL	ABUTH
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	7/26/2006	7/26/2006
Trt-Eval Interval	54 DAPO	54 DAPO

Trt No.	Treatment	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18
1	Stout (mp)	72.5	DF	0.5	oz/a	POST	40	100
1	Herbimax		L	1	% v/v	POST		
1	Ammonium Sulfate		DF	2	% w/w	POST		
2	Stout (mp)	72.5	DF	0.75	oz/a	POST	45	93
2	Herbimax		L	1	% v/v	POST		
2	Ammonium Sulfate		DF	2	% w/w	POST		
3	Stout (mp)	72.5	DF	0.5	oz/a	POST	68	95
3	Callisto	4	SC	1.5	fl oz/a	POST		
3	Herbimax		L	1	% v/v	POST		
3	Ammonium Sulfate		DF	2	% w/w	POST		
4	Stout (mp)	72.5	DF	0.75	oz/a	POST	69	100
4	Callisto	4	SC	1.5	fl oz/a	POST		
4	Herbimax		L	1	% v/v	POST		
4	Ammonium Sulfate		DF	2	% w/w	POST		
5	Stout (mp)	72.5	DF	0.5	oz/a	POST	77	100
5	Callisto	4	SC	1.5	fl oz/a	POST		
5	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
5	Herbimax		L	1	% v/v	POST		
5	Ammonium Sulfate		DF	2	% w/w	POST		
6	Stout (mp)	72.5	DF	0.75	oz/a	POST	98	100
6	Callisto	4	SC	1.5	fl oz/a	POST		
6	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
6	Herbimax		L	1	% v/v	POST		
6	Ammonium Sulfate		DF	2	% w/w	POST		
7	Stout (mp)	72.5	DF	0.5	oz/a	POST	73	95
7	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
7	Herbimax		L	1	% v/v	POST		
7	Ammonium Sulfate		DF	2	% w/w	POST		
8	Stout (mp)	72.5	DF	0.75	oz/a	POST	68	97
8	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
8	Herbimax		L	1	% v/v	POST		
8	Ammonium Sulfate		DF	2	% w/w	POST		
9	Stout (mp)	72.5	DF	0.5	oz/a	POST	93	95
9	Impact	2.8	L	0.75	fl oz/a	POST		
9	Herbimax		L	1	% v/v	POST		
9	Ammonium Sulfate		DF	2	% w/w	POST		
10	Stout (mp)	72.5	DF	0.75	oz/a	POST	98	98
10	Impact	2.8	L	0.75	fl oz/a	POST		
10	Herbimax		L	1	% v/v	POST		
10	Ammonium Sulfate		DF	2	% w/w	POST		
11	Stout (mp)	72.5	DF	0.5	oz/a	POST	97	100
11	Impact	2.8	L	0.75	fl oz/a	POST		
11	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
11	Herbimax		L	1	% v/v	POST		
11	Ammonium Sulfate		DF	2	% w/w	POST		
12	Stout (mp)	72.5	DF	0.75	oz/a	POST	100	96
12	Impact	2.8	L	0.75	fl oz/a	POST		
12	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
12	Herbimax		L	1	% v/v	POST		
12	Ammonium Sulfate		DF	2	% w/w	POST		

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Weed Code	AMBEL	ABUTH
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	7/26/2006	7/26/2006
Trt-Eval Interval	54 DAPO	54 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18
13	Steadfast	75	WG	0.75	oz/a	POST	100	99
13	Callisto	4	SC	1.5	fl oz/a	POST		
13	Atrazine 90 DF	90	DF	8	oz ai/a	POST		
13	Herbimax		L	1	% v/v	POST		
13	Ammonium Sulfate		DF	2	% w/w	POST		
14	Stout (mp)	72.5	DF	0.5	oz/a	POST	97	92
14	Clarity	4	L	4	fl oz/a	POST		
14	Herbimax		L	1	% v/v	POST		
14	Ammonium Sulfate		DF	2	% w/w	POST		
15	Stout (mp)	72.5	DF	0.75	oz/a	POST	100	78
15	Clarity	4	L	4	fl oz/a	POST		
15	Herbimax		L	1	% v/v	POST		
15	Ammonium Sulfate		DF	2	% w/w	POST		
16	Stout (mp)	72.5	DF	0.5	oz/a	POST	100	100
16	Lumax	3.94	SE	2	pt/a	POST		
16	Activator 90		L	0.25	% v/v	POST		
16	Ammonium Sulfate		DF	2	% w/w	POST		
17	Stout (mp)	72.5	DF	0.75	oz/a	POST	100	100
17	Lumax	3.94	SE	2	pt/a	POST		
17	Activator 90		L	0.25	% v/v	POST		
17	Ammonium Sulfate		DF	2	% w/w	POST		
18	Stout (mp)	72.5	DF	0.5	oz/a	POST	100	100
18	Lexar	3.7	L	2.3	pt/a	POST		
18	Activator 90		L	0.25	% v/v	POST		
18	Ammonium Sulfate		DF	2	% w/w	POST		
19	Stout (mp)	72.5	DF	0.75	oz/a	POST	100	100
19	Lexar	3.7	L	2.3	pt/a	POST		
19	Activator 90		L	0.25	% v/v	POST		
19	Ammonium Sulfate		DF	2	% w/w	POST		
20	Stout (mp)	72.5	DF	0.5	oz/a	POST	98	89
20	Distinct	70	DF	2	oz/a	POST		
20	Herbimax		L	1	% v/v	POST		
20	Ammonium Sulfate		DF	2	% w/w	POST		
21	Stout (mp)	72.5	DF	0.75	oz/a	POST	100	92
21	Distinct	70	DF	2	oz/a	POST		
21	Herbimax		L	1	% v/v	POST		
21	Ammonium Sulfate		DF	2	% w/w	POST		
22	Stout (mp)	72.5	DF	0.5	oz/a	POST	95	100
22	Atrazine 90 DF	90	DF	16	oz ai/a	POST		
22	Herbimax		L	1	% v/v	POST		
22	Ammonium Sulfate		DF	2	% w/w	POST		
23	Stout (mp)	72.5	DF	0.75	oz/a	POST	98	100
23	Atrazine 90 DF	90	DF	16	oz ai/a	POST		
23	Herbimax		L	1	% v/v	POST		
23	Ammonium Sulfate		DF	2	% w/w	POST		
24	Untreated						0	0
LSD (P=.05)							8.7	7.0
Standard Deviation							5.3	4.3
CV							6.27	4.6