

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH HPPD INHIBITORS, 2006

Trial ID: C0806
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Date Planted: 5/5/2006 **Row Spacing:** 30 IN
Variety: NK33Z7 **No. of Reps:** 3
Population: 29,000 S/A **% OM:** 3.0
Soil Type: silty clay loam **pH:** 6.0
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	B	C
Application Timing:	PRE	EP	MP
Date Treated:	5/5/2006	5/29/2006	6/2/2006
Time Treated:	12:40 pm	7:10 pm	1:45 pm
% Cloud Cover:	75	30	90
Air Temp., Unit:	70 F	88 F	80 F
% Relative Humidity:	47	50	47
Wind Speed/Unit/Dir:	8 mph	0 mph	4 mph E
Soil Temp., Unit:	57.2 F	85 F	75.2 F
Soil/Leaf Surface M:	3 3	5 5	5 5
Soil Moist (1=w 5=d):	3	5	4

Crop Stage at Each Application

	A	B	C
Crop Name:	ZEAMX	ZEAMX	ZEAMX
Height (In.):		5-7 (5)	4-9 (8)
Stage (L):		V2-3 (3) 5L	V3-4 (4) 5L

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height (In.):		1-3 (1.5)	1-4.5 (3)
Stage (L):		2-4 (3)	2-4 (3)
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height (In.):		.25-2 (.5)	.25-4 (1.5)
Stage (L):		cot-8 (4)	cot-11 (6)
Weed 3 Name:	AMARE	AMARE	AMARE
Height (In.):		.25	.5-1.5 (1)
Stage (L):		cot	2-5 (4)
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height (In.):		.25-2 (1)	1-3 (2)
Stage (L):		cot-4 (2)	4-6 (4)
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height (In.):		.25-1 (.5)	1-1.5 (1)
Stage (L):		cot-2 (cot)	2-4 (2)

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Weed Density (plants/sq. ft.)

	1	2	3
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	ANGR	ANGR	ANGR
Density:		69	78
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	CHEAL	CHEAL	CHEAL
Density:		34	26
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	AMARE	AMARE	AMARE
Density:		1	<1
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	AMBEL	AMBEL	AMBEL
Density:		28	28
Date:	5/5/2006	5/29/2006	6/2/2006
Weed Name:	ABUTH	ABUTH	ABUTH
Density:		<1	<1

Application Equipment

	Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	cub	3.5	FF	8003	18"	20"	100"	20	H2O	30	
B	cub	3.5	FF	8003	20"	20"	100"	20	H2O	30	
C	cub	3.5	FF	8003	23"	20"	100"	20	H2O	30	

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX injury percent 6/3/2006 AT MP	ANGR control percent 6/3/2006 AT MP	CHEAL control percent 6/3/2006 AT MP	AMARE control percent 6/3/2006 AT MP	AMBEL control percent 6/3/2006 AT MP	ABUTH control percent 6/3/2006 AT MP	ZEAMX injury percent 6/9/2006 7 DAMP	ANGR control percent 6/9/2006 7 DAMP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
1	Untreated											0	0	
2	Callisto	4	SC	3	fl oz/a	MP						0	35	
2	Herbimax		L	1	% v/v	MP								
2	28% Nitrogen		L	1.5	qt/a	MP								
3	747	3.5	SC	3	fl oz/a	MP						0	55	
3	MSO		L	1	% v/v	MP								
3	28% Nitrogen		L	1.5	qt/a	MP								
4	Impact	2.8	SC	0.5	fl oz/a	MP						0	57	
4	MSO		L	1	% v/v	MP								
4	28% Nitrogen		L	2.5	% v/v	MP								
5	Define SC	4	SC	20	fl oz/a	PRE	0	100	85	93	60	78	0	99
5	Callisto	4	SC	3	fl oz/a	MP								
5	Herbimax		L	1	% v/v	MP								
5	28% Nitrogen		L	1.5	qt/a	MP								
6	Define SC	4	SC	20	fl oz/a	PRE	0	100	82	96	62	78	0	99
6	747	3.5	SC	3	fl oz/a	MP								
6	MSO		L	1	% v/v	MP								
6	28% Nitrogen		L	1.5	qt/a	MP								
7	Define SC	4	SC	20	fl oz/a	PRE	0	100	85	98	60	75	0	99
7	Impact	2.8	SC	0.5	fl oz/a	MP								
7	MSO		L	1	% v/v	MP								
7	28% Nitrogen		L	2.5	% v/v	MP								
8	Define SC	4	SC	20	fl oz/a	EP						0	100	
8	Atrazine	4	L	2	pt/a	EP								
8	747	3.5	SC	3	fl oz/a	EP								
8	Herbimax		L	1	% v/v	EP								
8	28% Nitrogen		L	1.5	qt/a	EP								
9	Define SC	4	SC	10	fl oz/a	MP						0	60	
9	747	3.5	SC	3	fl oz/a	MP								
9	MSO		L	1	% v/v	MP								
9	28% Nitrogen		L	1.5	qt/a	MP								
10	Define SC	4	SC	10	fl oz/a	MP						0	98	
10	Atrazine	4	L	1	pt/a	MP								
10	747	3.5	SC	3	fl oz/a	MP								
10	Herbimax		L	1	% v/v	MP								
10	28% Nitrogen		L	1.5	qt/a	MP								
11	Define SC	4	SC	20	fl oz/a	EP						0	92	
11	747	3.5	SC	3	fl oz/a	EP								
11	MSO		L	1	% v/v	EP								
11	28% Nitrogen		L	1.5	qt/a	EP								
12	Define SC	4	SC	20	fl oz/a	PRE	0	100	85	99	63	69	0	99
12	747	3.5	SC	3	fl oz/a	MP								
12	Atrazine	4	L	1	pt/a	MP								
12	Herbimax		L	1	% v/v	MP								
12	28% Nitrogen		L	1.5	qt/a	MP								
13	747	3.5	SC	1	fl oz/a	MP						0	97	
13	Liberty	1.67	L	32	fl oz/a	MP								
13	Ammonium Sulfate		DF	17	lb/100 gal	MP								

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Weed Code							ANGR	CHEAL	AMARE	AMBEL	ABUTH			ANGR
Crop Code							ZEAMX						ZEAMX	
Rating Data Type							injury	control	control	control	control	control	injury	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent	percent
Rating Date							6/3/2006	6/3/2006	6/3/2006	6/3/2006	6/3/2006	6/3/2006	6/9/2006	6/9/2006
Trt-Eval Interval							AT MP	AT MP	AT MP	AT MP	AT MP	AT MP	7 DAMP	7 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8
14	Liberty	1.67	L	32	fl oz/a	MP							0	98
14	Atrazine	4	L	2	pt/a	MP								
14	Ammonium Sulfate		DF	17	lb/100 gal	MP								
15	Liberty	1.67	L	32	fl oz/a	MP							0	98
15	747	3.5	SC	1	fl oz/a	MP								
15	Atrazine	4	L	2	pt/a	MP								
15	Ammonium Sulfate		DF	17	lb/100 gal	MP								
16	747	3.5	SC	1	fl oz/a	MP							0	97
16	Roundup WeatherMax	4.5	L	22	fl oz/a	MP								
16	Ammonium Sulfate		DF	8.5	lb/100 gal	MP								
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							0	98
17	Atrazine	4	L	2	pt/a	MP								
17	Ammonium Sulfate		DF	8.5	lb/100 gal	MP								
18	747	3.5	SC	1	fl oz/a	MP							0	97
18	Atrazine	4	L	2	pt/a	MP								
18	Roundup WeatherMax	4.5	L	22	fl oz/a	MP								
18	Ammonium Sulfate		DF	8.5	lb/100 gal	MP								
19	747	3.5	SC	3	fl oz/a	EP							0	90
19	Option	35	WG	1.5	oz/a	EP								
19	MSO		L	1	% v/v	EP								
19	28% Nitrogen		L	1.5	qt/a	EP								
20	747	3.5	SC	3	fl oz/a	EP							0	78
20	Accent	75	DF	0.25	oz/a	EP								
20	MSO		L	1	% v/v	EP								
20	28% Nitrogen		L	1.5	qt/a	EP								
LSD (P=.05)							0.0	1.0	10.4	4.0	5.8	16.6	0.0	6.0
Standard Deviation							0.0	0.5	5.2	2.0	2.9	8.3	0.0	3.6
CV							0.0	0.5	6.18	2.05	4.78	11.06	0.0	4.43

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Weed Code	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMARE						
Crop Code														
Rating Data Type	control	control	control	control	injury	control	control	control						
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent						
Rating Date	6/9/2006	6/9/2006	6/9/2006	6/9/2006	6/16/2006	6/16/2006	6/16/2006	6/16/2006						
Trt-Eval Interval	7 DAMP	7 DAMP	7 DAMP	7 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	9	10	11	12	13	14	15	16
14	Liberty	1.67	L	32	fl oz/a	MP	100	100	100	100	0	97	100	100
14	Atrazine	4	L	2	pt/a	MP								
14	Ammonium Sulfate		DF	17	lb/100 gal	MP								
15	Liberty	1.67	L	32	fl oz/a	MP	100	100	100	100	0	97	100	100
15	747	3.5	SC	1	fl oz/a	MP								
15	Atrazine	4	L	2	pt/a	MP								
15	Ammonium Sulfate		DF	17	lb/100 gal	MP								
16	747	3.5	SC	1	fl oz/a	MP	100	100	86	99	0	97	99	100
16	Roundup WeatherMax	4.5	L	22	fl oz/a	MP								
16	Ammonium Sulfate		DF	8.5	lb/100 gal	MP								
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100	98	100	0	99	100	100
17	Atrazine	4	L	2	pt/a	MP								
17	Ammonium Sulfate		DF	8.5	lb/100 gal	MP								
18	747	3.5	SC	1	fl oz/a	MP	100	100	100	100	0	98	100	100
18	Atrazine	4	L	2	pt/a	MP								
18	Roundup WeatherMax	4.5	L	22	fl oz/a	MP								
18	Ammonium Sulfate		DF	8.5	lb/100 gal	MP								
19	747	3.5	SC	3	fl oz/a	EP	99	100	84	95	0	82	99	100
19	Option	35	WG	1.5	oz/a	EP								
19	MSO		L	1	% v/v	EP								
19	28% Nitrogen		L	1.5	qt/a	EP								
20	747	3.5	SC	3	fl oz/a	EP	100	100	96	99	0	77	99	100
20	Accent	75	DF	0.25	oz/a	EP								
20	MSO		L	1	% v/v	EP								
20	28% Nitrogen		L	1.5	qt/a	EP								
LSD (P=.05)							10.9	12.8	11.6	15.4	0.0	4.6	1.2	0.0
Standard Deviation							6.6	7.8	7.0	9.3	0.0	2.8	0.7	0.0
CV							7.84	8.44	8.56	10.72	0.0	3.2	0.78	0.0

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Weed Code							AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMARE	AMBEL	
Crop Code														
Rating Data Type							control	control	injury	control	control	control	control	
Rating Unit							percent	percent	percent	percent	percent	percent	percent	
Rating Date							6/16/2006	6/16/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	
Trt-Eval Interval							14 DAMP	14 DAMP	27 DAMP	27 DAMP	27 DAMP	27 DAMP	27 DAMP	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18	19	20	21	22	23	
1	Untreated						0	0	0	0	0	0	0	
2	Callisto	4	SC	3	fl oz/a	MP	81	100	0	22	100	100	100	
2	Herbimax		L	1	% v/v	MP								
2	28% Nitrogen		L	1.5	qt/a	MP								
3	747	3.5	SC	3	fl oz/a	MP	100	100	5	67	100	100	98	
3	MSO		L	1	% v/v	MP								
3	28% Nitrogen		L	1.5	qt/a	MP								
4	Impact	2.8	SC	0.5	fl oz/a	MP	89	100	0	72	94	98	98	
4	MSO		L	1	% v/v	MP								
4	28% Nitrogen		L	2.5	% v/v	MP								
5	Define SC	4	SC	20	fl oz/a	PRE	95	100	0	94	100	100	98	
5	Callisto	4	SC	3	fl oz/a	MP								
5	Herbimax		L	1	% v/v	MP								
5	28% Nitrogen		L	1.5	qt/a	MP								
6	Define SC	4	SC	20	fl oz/a	PRE	100	99	0	96	100	100	99	
6	747	3.5	SC	3	fl oz/a	MP								
6	MSO		L	1	% v/v	MP								
6	28% Nitrogen		L	1.5	qt/a	MP								
7	Define SC	4	SC	20	fl oz/a	PRE	99	99	0	96	99	99	98	
7	Impact	2.8	SC	0.5	fl oz/a	MP								
7	MSO		L	1	% v/v	MP								
7	28% Nitrogen		L	2.5	% v/v	MP								
8	Define SC	4	SC	20	fl oz/a	EP	99	100	0	98	100	100	100	
8	Atrazine	4	L	2	pt/a	EP								
8	747	3.5	SC	3	fl oz/a	EP								
8	Herbimax		L	1	% v/v	EP								
8	28% Nitrogen		L	1.5	qt/a	EP								
9	Define SC	4	SC	10	fl oz/a	MP	100	100	2	87	100	100	100	
9	747	3.5	SC	3	fl oz/a	MP								
9	MSO		L	1	% v/v	MP								
9	28% Nitrogen		L	1.5	qt/a	MP								
10	Define SC	4	SC	10	fl oz/a	MP	100	99	0	97	100	100	100	
10	Atrazine	4	L	1	pt/a	MP								
10	747	3.5	SC	3	fl oz/a	MP								
10	Herbimax		L	1	% v/v	MP								
10	28% Nitrogen		L	1.5	qt/a	MP								
11	Define SC	4	SC	20	fl oz/a	EP	100	97	0	99	100	100	100	
11	747	3.5	SC	3	fl oz/a	EP								
11	MSO		L	1	% v/v	EP								
11	28% Nitrogen		L	1.5	qt/a	EP								
12	Define SC	4	SC	20	fl oz/a	PRE	100	100	0	96	100	100	100	
12	747	3.5	SC	3	fl oz/a	MP								
12	Atrazine	4	L	1	pt/a	MP								
12	Herbimax		L	1	% v/v	MP								
12	28% Nitrogen		L	1.5	qt/a	MP								
13	747	3.5	SC	1	fl oz/a	MP	100	94	0	70	92	100	95	
13	Liberty	1.67	L	32	fl oz/a	MP								
13	Ammonium Sulfate		DF	17	lb/100 gal	MP								

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Crop Code						control	control	injury	control	control	control	control	
Rating Data Type						percent	percent	percent	percent	percent	percent	percent	
Rating Unit						6/16/2006	6/16/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	6/29/2006	
Rating Date						14 DAMP	14 DAMP	27 DAMP	27 DAMP	27 DAMP	27 DAMP	27 DAMP	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	17	18	19	20	21	22	23
14	Liberty	1.67	L	32	fl oz/a	MP	100	100	0	81	100	99	100
14	Atrazine	4	L	2	pt/a	MP							
14	Ammonium Sulfate		DF	17	lb/100 gal	MP							
15	Liberty	1.67	L	32	fl oz/a	MP	100	100	0	79	100	100	100
15	747	3.5	SC	1	fl oz/a	MP							
15	Atrazine	4	L	2	pt/a	MP							
15	Ammonium Sulfate		DF	17	lb/100 gal	MP							
16	747	3.5	SC	1	fl oz/a	MP	100	99	0	77	98	99	99
16	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
16	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	100	0	86	100	100	100
17	Atrazine	4	L	2	pt/a	MP							
17	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
18	747	3.5	SC	1	fl oz/a	MP	100	100	0	85	100	100	100
18	Atrazine	4	L	2	pt/a	MP							
18	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
18	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
19	747	3.5	SC	3	fl oz/a	EP	100	96	0	64	96	100	100
19	Option	35	WG	1.5	oz/a	EP							
19	MSO		L	1	% v/v	EP							
19	28% Nitrogen		L	1.5	qt/a	EP							
20	747	3.5	SC	3	fl oz/a	EP	100	99	0	60	100	100	100
20	Accent	75	DF	0.25	oz/a	EP							
20	MSO		L	1	% v/v	EP							
20	28% Nitrogen		L	1.5	qt/a	EP							
LSD (P=.05)							4.1	2.3	3.3	5.6	3.7	1.2	2.7
Standard Deviation							2.5	1.4	2.0	3.4	2.3	0.7	1.6
CV							2.64	1.45	602.63	4.45	2.4	0.74	1.75

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Weed Code	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX						
Crop Code													
Rating Data Type	control	control	control	control	control	control	yield						
Rating Unit	percent	percent	percent	percent	percent	percent	bu/ac						
Rating Date	6/29/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	10/23/2006						
Trt-Eval Interval	27 DAMP	53 DAMP	53 DAMP	53 DAMP	53 DAMP	53 DAMP	HARVEST						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	24	25	26	27	28	29	30
1	Untreated						0	0	0	0	0	0	27
2	Callisto	4	SC	3	fl oz/a	MP	100	13	100	100	100	100	150
2	Herbimax		L	1	% v/v	MP							
2	28% Nitrogen		L	1.5	qt/a	MP							
3	747	3.5	SC	3	fl oz/a	MP	100	53	100	100	100	100	183
3	MSO		L	1	% v/v	MP							
3	28% Nitrogen		L	1.5	qt/a	MP							
4	Impact	2.8	SC	0.5	fl oz/a	MP	91	67	96	100	95	95	192
4	MSO		L	1	% v/v	MP							
4	28% Nitrogen		L	2.5	% v/v	MP							
5	Define SC	4	SC	20	fl oz/a	PRE	99	89	100	100	98	100	211
5	Callisto	4	SC	3	fl oz/a	MP							
5	Herbimax		L	1	% v/v	MP							
5	28% Nitrogen		L	1.5	qt/a	MP							
6	Define SC	4	SC	20	fl oz/a	PRE	100	91	100	100	100	100	217
6	747	3.5	SC	3	fl oz/a	MP							
6	MSO		L	1	% v/v	MP							
6	28% Nitrogen		L	1.5	qt/a	MP							
7	Define SC	4	SC	20	fl oz/a	PRE	97	92	98	100	95	94	201
7	Impact	2.8	SC	0.5	fl oz/a	MP							
7	MSO		L	1	% v/v	MP							
7	28% Nitrogen		L	2.5	% v/v	MP							
8	Define SC	4	SC	20	fl oz/a	EP	99	98	100	100	98	100	218
8	Atrazine	4	L	2	pt/a	EP							
8	747	3.5	SC	3	fl oz/a	EP							
8	Herbimax		L	1	% v/v	EP							
8	28% Nitrogen		L	1.5	qt/a	EP							
9	Define SC	4	SC	10	fl oz/a	MP	100	78	98	100	100	100	191
9	747	3.5	SC	3	fl oz/a	MP							
9	MSO		L	1	% v/v	MP							
9	28% Nitrogen		L	1.5	qt/a	MP							
10	Define SC	4	SC	10	fl oz/a	MP	99	100	99	100	100	98	189
10	Atrazine	4	L	1	pt/a	MP							
10	747	3.5	SC	3	fl oz/a	MP							
10	Herbimax		L	1	% v/v	MP							
10	28% Nitrogen		L	1.5	qt/a	MP							
11	Define SC	4	SC	20	fl oz/a	EP	95	96	100	100	100	92	199
11	747	3.5	SC	3	fl oz/a	EP							
11	MSO		L	1	% v/v	EP							
11	28% Nitrogen		L	1.5	qt/a	EP							
12	Define SC	4	SC	20	fl oz/a	PRE	100	93	100	100	100	100	202
12	747	3.5	SC	3	fl oz/a	MP							
12	Atrazine	4	L	1	pt/a	MP							
12	Herbimax		L	1	% v/v	MP							
12	28% Nitrogen		L	1.5	qt/a	MP							
13	747	3.5	SC	1	fl oz/a	MP	91	67	94	97	87	92	200
13	Liberty	1.67	L	32	fl oz/a	MP							
13	Ammonium Sulfate		DF	17	lb/100 gal	MP							

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH HPPD INHIBITORS, 2006

Trial ID: C0806
 Conducted: CAMPUS

Study Dir.:
 Investigator: Christy Sprague

Weed Code	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ZEAMX						
Crop Code													
Rating Data Type	control	control	control	control	control	control	yield						
Rating Unit	percent	percent	percent	percent	percent	percent	bu/ac						
Rating Date	6/29/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	10/23/2006						
Trt-Eval Interval	27 DAMP	53 DAMP	53 DAMP	53 DAMP	53 DAMP	53 DAMP	HARVEST						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	24	25	26	27	28	29	30
14	Liberty	1.67	L	32	fl oz/a	MP	100	76	100	100	100	100	204
14	Atrazine	4	L	2	pt/a	MP							
14	Ammonium Sulfate		DF	17	lb/100 gal	MP							
15	Liberty	1.67	L	32	fl oz/a	MP	100	77	100	100	100	100	201
15	747	3.5	SC	1	fl oz/a	MP							
15	Atrazine	4	L	2	pt/a	MP							
15	Ammonium Sulfate		DF	17	lb/100 gal	MP							
16	747	3.5	SC	1	fl oz/a	MP	98	68	98	100	95	100	201
16	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
16	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
17	Roundup WeatherMax	4.5	L	22	fl oz/a	MP	100	78	100	100	99	100	203
17	Atrazine	4	L	2	pt/a	MP							
17	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
18	747	3.5	SC	1	fl oz/a	MP	100	79	100	100	100	100	215
18	Atrazine	4	L	2	pt/a	MP							
18	Roundup WeatherMax	4.5	L	22	fl oz/a	MP							
18	Ammonium Sulfate		DF	8.5	lb/100 gal	MP							
19	747	3.5	SC	3	fl oz/a	EP	95	47	98	100	97	95	193
19	Option	35	WG	1.5	oz/a	EP							
19	MSO		L	1	% v/v	EP							
19	28% Nitrogen		L	1.5	qt/a	EP							
20	747	3.5	SC	3	fl oz/a	EP	99	45	100	100	100	100	196
20	Accent	75	DF	0.25	oz/a	EP							
20	MSO		L	1	% v/v	EP							
20	28% Nitrogen		L	1.5	qt/a	EP							
LSD (P=.05)							5.7	11.0	2.8	2.1	6.2	5.8	19.8
Standard Deviation							3.5	6.7	1.7	1.3	3.8	3.5	12.0
CV							3.71	9.51	1.81	1.36	4.03	3.74	6.32