

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH HALEX GT, 2008

Trial ID: C0708
 Conducted: CAMPUS

Study Dir.:
 Investigator: Wesley Everman

Date Planted: 5/5/08 **Row Spacing:** 30 IN
Variety: Pioneer 37Y14 **No. of Reps:** 4
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 Field Cultivation X2
Fertilizer: 300lbs/A 46-0-0 Broadcast. 125lbs/A 19-19-19 in Row at Planting.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	ANNUAL GRASS	
2.	CHEAL	LAMBSQUARTERS, COMMON	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	D
Application Timing:	PRE	MP1	MP2	LP
Date Treated:	5/5/08	6/5/08	6/11/08	6/18/08
Time Treated:	7:15 PM	7:00 PM	11:50 AM	9:30 AM
% Cloud Cover:	40	40	20	90
Air Temp., Unit:	70 F	84 F	82 F	59 F
% Relative Humidity:	23	65	52	75
Wind Speed/Unit/Dir:	5 mph SW	6 mph SW	5 mph SW	5 mph W
Soil Temp., Unit:	67 F	72 F	72 F	60 F
Soil/Leaf Surface M:	5 5	5 5	5 5	5 5
Soil Moist (1=w 5=d):	4	2	2	5

Crop Stage at Each Application

	A	B	C	D
Crop Name:	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Height (In.):		5-8(6)	12-14(13)	16-19(17)
Stage (L):		V3-4(4)6L	V4-5(5)7L	V5-6(6)7L

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height (In.):		.25-6(4)	.5-12(9)	1-3(2)
Stage (L):		2-6(4)	2-9(6)	4-5(4)
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):		.5-5(3)	.5-10(8)	.25-1(1)
Stage (L):		4-10(7)	2-16(14)	2-4(4)
Weed 3 Name:	AMARE	AMARE	AMARE	AMARE
Height (In.):		1-4(1)	.5-10(8)	.5-2(1)
Stage (L):		3-4(4)	2-10(8)	3-6(6)
Weed 4 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):		.5-4(3)	.5-8(6)	.5-2(1)
Stage (L):		4-6(4)	2-10(10)	2-4(4)
Weed 5 Name:	ABUTH	ABUTH	ABUTH	ABUTH
Height (In.):		1-2(1.5)	.5-5(3)	1.5-2(2)
Stage (L):		2-3(3)	3-4(4)	2-3(3)

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Weed Density (plants/sq. ft.)

	1	2
Date:	5/5/08	6/5/08
Weed Name:	ANGR	ANGR
Density:		21
Date:	5/5/08	6/5/08
Weed Name:	CHEAL	CHEAL
Density:		16
Date:	5/5/08	6/5/08
Weed Name:	AMARE	AMARE
Density:		1
Date:	5/5/08	6/5/08
Weed Name:	AMBEL	AMBEL
Density:		11
Date:	5/5/08	6/5/08
Weed Name:	ABUTH	ABUTH
Density:		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	23"	20"	100"	20	H2O	30
C	CUB	3.5	FF	8003	26"	20"	100"	20	H2O	30
D	CUB	3.5	FF	8003	30"	20"	100"	20	H2O	30

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Weed Code							anгр					cheal
Crop Code							ZEAMX	ZEAMX	ZEAMX			
Rating Data Type							injury	injury	injury	control	control	
Rating Unit							percent	percent	percent	percent	percent	
Rating Date							6/12/08	6/19/08	7/3/08	7/3/08	7/3/08	
Trt-Eval Interval							7 DAMP1	14 DAMP2	28 DAMP1	28 DAMP1	28 DAMP1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	
1	Halex GT	4.39	L	3.6	pt/a	MP1	6	2	0	97	100	
1	Activator 90		L	0.25	% v/v	MP1						
1	Ammonium Sulfate	100	DF	1	% w/v	MP1						
2	Halex GT	4.39	L	3.6	pt/a	MP1	10	0	0	100	100	
2	Atrazine	4	L	1	pt/a	MP1						
2	Activator 90		L	0.25	% v/v	MP1						
2	Ammonium Sulfate	100	DF	1	% w/v	MP1						
3	Lumax	3.94	SE	2	qt/a	PRE	0	0	0	100	100	
3	Touchdown Total	4.17	L	24	fl oz/a	MP2						
3	Ammonium Sulfate	100	DF	1	% w/v	MP2						
4	Lexar	3.7	L	2.26	qt/a	PRE	0	0	0	100	100	
4	Touchdown Total	4.17	L	24	fl oz/a	MP2						
4	Ammonium Sulfate	100	DF	1	% w/v	MP2						
5	Lumax	3.94	SE	1.5	qt/a	PRE	0	0	0	100	100	
5	Halex GT	4.39	L	3.6	pt/a	MP2						
5	Activator 90		L	0.25	% v/v	MP2						
5	Ammonium Sulfate	100	DF	1	% w/v	MP2						
6	Bicep II Magnum	5.5	L	1.3	qt/a	PRE	0	0	0	100	100	
6	Halex GT	4.39	L	3.6	pt/a	MP2						
6	Activator 90		L	0.25	% v/v	MP2						
6	Ammonium Sulfate	100	DF	1	% w/v	MP2						
7	Atrazine	4	L	1	qt/a	PRE	0	0	0	100	100	
7	Halex GT	4.39	L	3.6	pt/a	MP2						
7	Activator 90		L	0.25	% v/v	MP2						
7	Ammonium Sulfate	100	DF	1	% w/v	MP2						
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	0	0	0	99	99	
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2						
8	Ammonium Sulfate	100	DF	1	% w/v	MP2						
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	1	0	0	79	76	
9	Ammonium Sulfate	100	DF	1	% w/v	MP1						
10	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	0	0	0	100	100	
10	Ammonium Sulfate	100	DF	1	% w/v	MP1						
10	Roundup PowerMAX	4.5	L	22	fl oz/a	LP						
10	Ammonium Sulfate	100	DF	1	% w/v	LP						
11	Laudis	3.5	SC	3	fl oz/a	MP1	0	0	0	84	91	
11	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1						
11	Ammonium Sulfate	100	DF	1	% w/v	MP1						
12	SureStart	4.16	EW	1.75	pt/a	MP1	1	0	0	99	99	
12	Durango DMA	4	L	24	fl oz/a	MP1						
12	Ammonium Sulfate	100	DF	1	% w/v	MP1						

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Crop Code		ZEAMX	ZEAMX	ZEAMX							
Rating Data Type		injury	injury	injury		control	control				
Rating Unit		percent	percent	percent		percent	percent				
Rating Date		6/12/08	6/19/08	7/3/08		7/3/08	7/3/08				
Trt-Eval Interval		7 DAMP1	14 DAMP2	28 DAMP1		28 DAMP1	28 DAMP1				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	1	2	3	4	5
13	Status	56	DF	2.5	oz/a	MP1	1	0	0	82	82
13	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
13	Ammonium Sulfate	100	DF	1	% w/v	MP1					
14	Impact	2.8	SC	0.75	fl oz/a	MP1	0	0	0	78	80
14	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
14	Ammonium Sulfate	100	DF	1	% w/v	MP1					
15	SureStart	4.16	EW	1.75	pt/a	PRE	0	0	0	100	98
15	Durango DMA	4	L	24	fl oz/a	MP2					
15	Ammonium Sulfate	100	DF	1	% w/v	MP2					
16	Non-Treated						0	0	0	0	0
LSD (P=.05)							1.0	0.5	0.0	3.3	4.3
Standard Deviation							0.7	0.4	0.0	2.3	3.0
CV							63.14	266.67	0.0	2.61	3.39

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							amare	ambel	abuth	angr	cheal
							control	control	control	control	control
							percent	percent	percent	percent	percent
							7/3/08	7/3/08	7/3/08	7/31/08	7/31/08
							28 DAMP1	28 DAMP1	28 DAMP1	56 DAMP1	56 DAMP1
Trt	Treatment	Form	Form	Rate	Grow						
No.	Name	Conc	Type	Rate	Unit	Stg	6	7	8	9	10
1	Halex GT	4.39	L	3.6	pt/a	MP1	100	89	100	90	100
1	Activator 90		L	0.25	% v/v	MP1					
1	Ammonium Sulfate	100	DF	1	% w/v	MP1					
2	Halex GT	4.39	L	3.6	pt/a	MP1	100	96	99	96	100
2	Atrazine	4	L	1	pt/a	MP1					
2	Activator 90		L	0.25	% v/v	MP1					
2	Ammonium Sulfate	100	DF	1	% w/v	MP1					
3	Lumax	3.94	SE	2	qt/a	PRE	100	99	100	97	100
3	Touchdown Total	4.17	L	24	fl oz/a	MP2					
3	Ammonium Sulfate	100	DF	1	% w/v	MP2					
4	Lexar	3.7	L	2.26	qt/a	PRE	100	97	100	98	100
4	Touchdown Total	4.17	L	24	fl oz/a	MP2					
4	Ammonium Sulfate	100	DF	1	% w/v	MP2					
5	Lumax	3.94	SE	1.5	qt/a	PRE	100	100	100	97	100
5	Halex GT	4.39	L	3.6	pt/a	MP2					
5	Activator 90		L	0.25	% v/v	MP2					
5	Ammonium Sulfate	100	DF	1	% w/v	MP2					
6	Bicep II Magnum	5.5	L	1.3	qt/a	PRE	100	100	100	98	100
6	Halex GT	4.39	L	3.6	pt/a	MP2					
6	Activator 90		L	0.25	% v/v	MP2					
6	Ammonium Sulfate	100	DF	1	% w/v	MP2					
7	Atrazine	4	L	1	qt/a	PRE	100	100	100	98	100
7	Halex GT	4.39	L	3.6	pt/a	MP2					
7	Activator 90		L	0.25	% v/v	MP2					
7	Ammonium Sulfate	100	DF	1	% w/v	MP2					
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	100	95	100	97	98
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2					
8	Ammonium Sulfate	100	DF	1	% w/v	MP2					
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	79	74	81	69	64
9	Ammonium Sulfate	100	DF	1	% w/v	MP1					
10	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	100	100	100	97	100
10	Ammonium Sulfate	100	DF	1	% w/v	MP1					
10	Roundup PowerMAX	4.5	L	22	fl oz/a	LP					
10	Ammonium Sulfate	100	DF	1	% w/v	LP					
11	Laudis	3.5	SC	3	fl oz/a	MP1	100	91	100	76	99
11	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
11	Ammonium Sulfate	100	DF	1	% w/v	MP1					
12	SureStart	4.16	EW	1.75	pt/a	MP1	100	96	98	97	100
12	Durango DMA	4	L	24	fl oz/a	MP1					
12	Ammonium Sulfate	100	DF	1	% w/v	MP1					

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							amare	ambel	abuth	angr	cheal
							control	control	control	control	control
							percent	percent	percent	percent	percent
							7/3/08	7/3/08	7/3/08	7/31/08	7/31/08
							28 DAMP1	28 DAMP1	28 DAMP1	56 DAMP1	56 DAMP1
Trt	Treatment	Form	Form	Rate	Grow						
No.	Name	Conc	Type	Rate	Unit	Stg	6	7	8	9	10
13	Status	56	DF	2.5	oz/a	MP1	94	76	88	71	79
13	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
13	Ammonium Sulfate	100	DF	1	% w/v	MP1					
14	Impact	2.8	SC	0.75	fl oz/a	MP1	90	71	86	61	73
14	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
14	Ammonium Sulfate	100	DF	1	% w/v	MP1					
15	SureStart	4.16	EW	1.75	pt/a	PRE	100	95	100	97	100
15	Durango DMA	4	L	24	fl oz/a	MP2					
15	Ammonium Sulfate	100	DF	1	% w/v	MP2					
16	Non-Treated						0	0	0	0	0
LSD (P=.05)							3.6	4.8	4.8	5.0	3.9
Standard Deviation							2.5	3.3	3.4	3.5	2.7
CV							2.73	3.86	3.71	4.17	3.07

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							amare	ambel	abuth	anгр	cheal
							control	control	control	control	control
							percent	percent	percent	percent	percent
							7/31/08	7/31/08	7/31/08	8/20/08	8/20/08
							56 DAMP1	56 DAMP1	56 DAMP1	76 DAMP1	76 DAMP1
Trt	Treatment	Form	Form	Rate	Grow						
No.	Name	Conc	Type	Rate	Unit	Stg	11	12	13	14	15
1	Halex GT	4.39	L	3.6	pt/a	MP1	100	87	99	89	97
1	Activator 90		L	0.25	% v/v	MP1					
1	Ammonium Sulfate	100	DF	1	% w/v	MP1					
2	Halex GT	4.39	L	3.6	pt/a	MP1	100	95	99	95	98
2	Atrazine	4	L	1	pt/a	MP1					
2	Activator 90		L	0.25	% v/v	MP1					
2	Ammonium Sulfate	100	DF	1	% w/v	MP1					
3	Lumax	3.94	SE	2	qt/a	PRE	100	100	100	98	100
3	Touchdown Total	4.17	L	24	fl oz/a	MP2					
3	Ammonium Sulfate	100	DF	1	% w/v	MP2					
4	Lexar	3.7	L	2.26	qt/a	PRE	100	98	100	96	98
4	Touchdown Total	4.17	L	24	fl oz/a	MP2					
4	Ammonium Sulfate	100	DF	1	% w/v	MP2					
5	Lumax	3.94	SE	1.5	qt/a	PRE	100	100	100	99	100
5	Halex GT	4.39	L	3.6	pt/a	MP2					
5	Activator 90		L	0.25	% v/v	MP2					
5	Ammonium Sulfate	100	DF	1	% w/v	MP2					
6	Bicep II Magnum	5.5	L	1.3	qt/a	PRE	100	100	100	99	98
6	Halex GT	4.39	L	3.6	pt/a	MP2					
6	Activator 90		L	0.25	% v/v	MP2					
6	Ammonium Sulfate	100	DF	1	% w/v	MP2					
7	Atrazine	4	L	1	qt/a	PRE	100	100	100	99	100
7	Halex GT	4.39	L	3.6	pt/a	MP2					
7	Activator 90		L	0.25	% v/v	MP2					
7	Ammonium Sulfate	100	DF	1	% w/v	MP2					
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	100	95	100	97	98
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2					
8	Ammonium Sulfate	100	DF	1	% w/v	MP2					
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	66	66	91	64	61
9	Ammonium Sulfate	100	DF	1	% w/v	MP1					
10	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	100	100	100	93	98
10	Ammonium Sulfate	100	DF	1	% w/v	MP1					
10	Roundup PowerMAX	4.5	L	22	fl oz/a	LP					
10	Ammonium Sulfate	100	DF	1	% w/v	LP					
11	Laudis	3.5	SC	3	fl oz/a	MP1	100	91	98	68	94
11	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
11	Ammonium Sulfate	100	DF	1	% w/v	MP1					
12	SureStart	4.16	EW	1.75	pt/a	MP1	100	93	98	96	98
12	Durango DMA	4	L	24	fl oz/a	MP1					
12	Ammonium Sulfate	100	DF	1	% w/v	MP1					

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							amare	ambel	abuth	angr	cheal
							control	control	control	control	control
							percent	percent	percent	percent	percent
							7/31/08	7/31/08	7/31/08	8/20/08	8/20/08
							56 DAMP1	56 DAMP1	56 DAMP1	76 DAMP1	76 DAMP1
Trt	Treatment	Form	Form	Rate	Grow						
No.	Name	Conc	Type	Rate	Unit	Stg	11	12	13	14	15
13	Status	56	DF	2.5	oz/a	MP1	88	73	89	66	76
13	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
13	Ammonium Sulfate	100	DF	1	% w/v	MP1					
14	Impact	2.8	SC	0.75	fl oz/a	MP1	80	70	95	55	73
14	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1					
14	Ammonium Sulfate	100	DF	1	% w/v	MP1					
15	SureStart	4.16	EW	1.75	pt/a	PRE	100	91	100	95	98
15	Durango DMA	4	L	24	fl oz/a	MP2					
15	Ammonium Sulfate	100	DF	1	% w/v	MP2					
16	Non-Treated						0	0	0	0	0
LSD (P=.05)							4.7	5.6	4.7	5.4	4.2
Standard Deviation							3.3	3.9	3.3	3.8	3.0
CV							3.66	4.61	3.61	4.64	3.41

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							amare	ambel	abuth	
							control	control	control	ZEAMX
							percent	percent	percent	yield
							8/20/08	8/20/08	8/20/08	bu/ac
							76 DAMP1	76 DAMP1	76 DAMP1	10/17/08
										HARVEST
Trt	Treatment	Form	Form	Rate	Grow					
No.	Name	Conc	Type	Rate	Unit	Stg	16	17	18	19
1	Halex GT	4.39	L	3.6	pt/a	MP1	100	84	100	225
1	Activator 90		L	0.25	% v/v	MP1				
1	Ammonium Sulfate	100	DF	1	% w/v	MP1				
2	Halex GT	4.39	L	3.6	pt/a	MP1	100	93	100	220
2	Atrazine	4	L	1	pt/a	MP1				
2	Activator 90		L	0.25	% v/v	MP1				
2	Ammonium Sulfate	100	DF	1	% w/v	MP1				
3	Lumax	3.94	SE	2	qt/a	PRE	100	98	100	227
3	Touchdown Total	4.17	L	24	fl oz/a	MP2				
3	Ammonium Sulfate	100	DF	1	% w/v	MP2				
4	Lexar	3.7	L	2.26	qt/a	PRE	100	93	100	231
4	Touchdown Total	4.17	L	24	fl oz/a	MP2				
4	Ammonium Sulfate	100	DF	1	% w/v	MP2				
5	Lumax	3.94	SE	1.5	qt/a	PRE	100	100	100	223
5	Halex GT	4.39	L	3.6	pt/a	MP2				
5	Activator 90		L	0.25	% v/v	MP2				
5	Ammonium Sulfate	100	DF	1	% w/v	MP2				
6	Bicep II Magnum	5.5	L	1.3	qt/a	PRE	100	100	100	217
6	Halex GT	4.39	L	3.6	pt/a	MP2				
6	Activator 90		L	0.25	% v/v	MP2				
6	Ammonium Sulfate	100	DF	1	% w/v	MP2				
7	Atrazine	4	L	1	qt/a	PRE	100	100	100	220
7	Halex GT	4.39	L	3.6	pt/a	MP2				
7	Activator 90		L	0.25	% v/v	MP2				
7	Ammonium Sulfate	100	DF	1	% w/v	MP2				
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	100	90	100	226
8	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2				
8	Ammonium Sulfate	100	DF	1	% w/v	MP2				
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	66	63	93	222
9	Ammonium Sulfate	100	DF	1	% w/v	MP1				
10	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1	100	99	100	225
10	Ammonium Sulfate	100	DF	1	% w/v	MP1				
10	Roundup PowerMAX	4.5	L	22	fl oz/a	LP				
10	Ammonium Sulfate	100	DF	1	% w/v	LP				
11	Laudis	3.5	SC	3	fl oz/a	MP1	100	80	99	253
11	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1				
11	Ammonium Sulfate	100	DF	1	% w/v	MP1				
12	SureStart	4.16	EW	1.75	pt/a	MP1	100	93	96	224
12	Durango DMA	4	L	24	fl oz/a	MP1				
12	Ammonium Sulfate	100	DF	1	% w/v	MP1				

MSU Weed Science Research Program

WEED CONTROL IN CORN WITH HALEX GT, 2008

Trial ID: C0708
 Conducted: CAMPUS

Study Dir.:
 Investigator: Wesley Everman

Weed Code	amare	ambel	abuth	
Crop Code				ZEAMX
Rating Data Type	control	control	control	yield
Rating Unit	percent	percent	percent	bu/ac
Rating Date	8/20/08	8/20/08	8/20/08	10/17/08
Trt-Eval Interval	76 DAMP1	76 DAMP1	76 DAMP1	HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	16	17	18	19
13	Status	56	DF	2.5	oz/a	MP1	88	65	84	228
13	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1				
13	Ammonium Sulfate	100	DF	1	% w/v	MP1				
14	Impact	2.8	SC	0.75	fl oz/a	MP1	100	61	98	221
14	Roundup PowerMAX	4.5	L	22	fl oz/a	MP1				
14	Ammonium Sulfate	100	DF	1	% w/v	MP1				
15	SureStart	4.16	EW	1.75	pt/a	PRE	100	88	100	224
15	Durango DMA	4	L	24	fl oz/a	MP2				
15	Ammonium Sulfate	100	DF	1	% w/v	MP2				
16	Non-Treated						0	0	0	85

LSD (P=.05)	6.8	6.9	7.5	25.7
Standard Deviation	4.8	4.8	5.2	18.0
CV	5.27	5.94	5.71	8.28