

# University of Nebraska

## Conventional Corn Herbicide Programs

Trial ID: L0711  
Location: Havelock

Study Dir.: Kevin Horky  
Investigator: Dr. Mark Bernards

### GENERAL TRIAL INFORMATION

**Study Director:** Kevin Horky **Title:** Research Technician  
**Affiliation:** University of Nebraska Lincoln  
**Postal Code:** 68583  
**Investigator:** Dr. Mark Bernards **Title:** Ext. Weed Specialist  
**Affiliation:** University of Nebraska Lincoln  
**Postal Code:** 68583

### TRIAL LOCATION

**City:** Lincoln  
**State/Prov.:** NE  
**Postal Code:** 68583

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	ABUTH	Velvetleaf	Abutilon theophrasti
2.	AMAPA	Amaranth, Palmer	Amaranthus palmeri
3.	HELAN	Common sunflower	Helianthus annuus
4.	SETVI	Green foxtail	Setaria viridis

**Crop 1:** ZEAMX CORN, FIELD **Variety:** Dekalb 6019 RR  
**Planting Date:** 1/May/2007 **Planting Method:** planted  
**Rate:** 22000 seeds/acre **Depth:** 1.5 in  
**Row Spacing:** 30 in **Seed Bed:** medium  
**Soil Temperature:** 11 C **Soil Moisture:** good **Emergence Date:** 8/May/2007

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3  
**Site Type:** field  
**Tillage Type:** conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

**Field Prep./Maintenance:** Field was disked once, Anhydrous Ammonia was applied at rate of 120 lbs of nitrogen/acre, Field was then field cultivated once.

### SOIL DESCRIPTION

**% Sand:** 7 **% OM:** 2.7 **Texture:** Silt Loam  
**% Silt:** 69 **pH:** 6.8 **Soil Name:** Sharpesburg  
**% Clay:** 23 **CEC:** 26 **Fert. Level:** good

### APPLICATION DESCRIPTION

	A	B	C
<b>Application Date:</b>	2/May/2007	29/May/2007	4/Jun/2007
<b>Time of Day:</b>	12:30 pm	10:00 am	2:00 pm
<b>Application Method:</b>	SPRAY	Spray	Spray
<b>Application Timing:</b>	pre	epost	mpost
<b>Applic. Placement:</b>	BROSOI	BROFOL	BROFOL
<b>Air Temp., Unit:</b>	71 F	70 F	80 F
<b>% Relative Humidity:</b>	23	60	26
<b>Wind Velocity, Unit:</b>	6 mph	6 mph	8 mph
<b>Dew Presence (Y/N):</b>	n	n	N
<b>Soil Temp., Unit:</b>	11 C	11 C	15 C
<b>Soil Moisture:</b>	good	good	good
<b>% Cloud Cover:</b>	45	100	35

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## CROP STAGE AT EACH APPLICATION

	A	B	C
<b>Crop 1 Code, Stage:</b>	ZEAMX	ZEAMX	ZEAMX
<b>Stage Scale:</b>	pre	V4	V6
<b>Height, Unit:</b>		12 in	14 in

## WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	ABUTH	ABUTH	ABUTH
<b>Stage Scale:</b>	pre	2 in	8 in
<b>Density, Unit:</b>		5 m2	5 m2
<b>Weed 2 Code, Stage:</b>	AMAPA	AMAPA	AMAPA
<b>Stage Scale:</b>	pre	3 in	8 in
<b>Density, Unit:</b>		10 m2	15 m2
<b>Weed 3 Code, Stage:</b>	HELAN	HELAN	HELAN
<b>Stage Scale:</b>	pre	5 in	10 in
<b>Density, Unit:</b>		7 m2	7 m2
<b>Weed 4 Code, Stage:</b>	SETVI	SETVI	SETVI
<b>Stage Scale:</b>	pre	2 in	5 in
<b>Density, Unit:</b>		5 m2	5 m2

## APPLICATION EQUIPMENT

	A	B	C
<b>Appl. Equipment:</b>	IH cub	IH cub	IH cub
<b>Operating Pressure:</b>	30	30	30
<b>Nozzle Type:</b>	Turbo Tee	Turbo Tee	Turbo Tee
<b>Nozzle Size:</b>	110015	110015	110015
<b>Nozzle Spacing, Unit:</b>	15 in	15 in	15 in
<b>Nozzles/Row:</b>	2	2	2
<b>Boom Length, Unit:</b>	10 ft	10 ft	10 ft
<b>Boom Height, Unit:</b>	18 in	24 in	30 in
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph
<b>Carrier:</b>	water	water	water
<b>Spray Volume, Unit:</b>	15 gpa	15 gpa	15 gpa
<b>Propellant:</b>	air	air	air

### Trial Comments

Conventional Corn study  
 BASF #1, Gowan PER07302, Bayer BPB, Sygenta, Dow.

Crop Injury 7,14,28 DAT  
 Weed Control 7,14, 28 DAT  
 Yield= BU/a

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## Conventional Corn Herbicide Programs

Trial ID: L0711

Study Dir.: Kevin Horky

Location: Havelock

Investigator: Dr. Mark Bernards

Weed Code					ZEAMX	AMAPA	HELAN	ABUTH	SETVI
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type					PHYCHL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%
Rating Date					16/May/2007	29/May/2007	29/May/2007	29/May/2007	29/May/2007
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Unit	Grow Stg Plot	1	2	3	4	5
1	Guardsman Max	4	pt/a	pre 101		90	90	95	95
	Status	5	oz/a	mpost 204		75	60	70	85
	COC	1	pt/a	mpost 309		80	90	80	95
	AMS	8.5	lb/100 gal	mpost					
				Mean =	.	82	80	82	92
2	Bicep II Magnum	2.1	pt/a	pre 102		85	70	85	60
	Callisto	3	oz/a	mpost 210		70	60	70	60
	Aatrex	0.5	lb ai/a	mpost 312		95	99	95	95
	COC	1	% v/v	mpost					
	AMS	8.5	lb/100 gal	mpost					
				Mean =	.	83	76	83	72
3	Permit	0.67	oz/a	epost 103					
	NIS	0.25	% v/v	epost 212					
	AMS	2.5	lb/a	epost 311					
				Mean =	.	.	.	.	.
4	Keystone	2.7	qt/a	pre 104		99	99	99	95
	Hornet	4	oz/a	pre 205		99	99	99	99
				301		99	99	99	99
				Mean =	.	99	99	99	98
5	Keystone	2.7	qt/a	pre 105		95	85	95	90
	Hornet	2.5	oz/a	mpost 206		95	90	99	95
	Callisto	0.75	oz/a	mpost 304		90	90	80	90
	Aatrex	0.28	lb/a	mpost					
	COC	1	% v/v	mpost					
	AMS	2.5	lb/a	mpost					
				Mean =	.	93	88	91	92
6	Radius	23	oz/a	pre 106	30	95	85	90	90
				213		95	95	95	99
				302	30	85	90	90	95
				Mean =	30	92	90	92	95
7	Radius	23	oz/a	pre 107	35	95	80	90	95
	Aatrex	1	lb ai/a	pre 215		99	95	99	99
				305	30	99	99	99	99
				Mean =	33	98	91	96	98
8	Balance Pro	1.5	oz/a	pre 108		85	70	85	85
	Liberty	32	oz/a	mpost 202		60	60	80	90
	Aatrex	0.5	lb ai/a	mpost 317		95	90	95	80
	AMS	8.5	lb/100 gal	mpost					
				Mean =	.	80	73	87	85
9	Balance Pro	1.5	oz/a	pre 109		95	80	90	95
	Aatrex	0.5	lb ai/a	pre 208		90	80	90	95
	Roundup Original Max	22	oz/a	mpost 307		90	95	99	90
	AMS	8.5	lb/100 gal	mpost					
				Mean =	.	92	85	93	93

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.					ZEAMX PHYCHL % 16/May/2007	AMAPA ZEAMX CONTROL % 29/May/2007	HELAN ZEAMX CONTROL % 29/May/2007	ABUTH ZEAMX CONTROL % 29/May/2007	SETVI ZEAMX CONTROL % 29/May/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	1	2	3	4	5
10	Lexar	3	qt/a	pre	110		99	99	99	99
					217		99	99	99	99
					316		99	99	99	99
					Mean =	.	99	99	99	99
11	Lumax	2.5	qt/a	pre	111		99	99	99	99
	Aatrex	1	pt/a	pre	216		99	99	99	99
					303		90	95	80	90
					Mean =	.	96	98	93	96
12	Bicep II Magnum	2.1	qt/a	pre	112		99	99	99	99
	Callisto	3	oz/a	epost	214		99	99	99	99
	Aatrex	1	pt/a	epost	308		90	85	90	70
	COC	1	% v/v	epost						
					Mean =	.	96	94	96	89
13	Lexar	2	qt/a	pre	113		95	99	99	99
	Lexar	1	qt/a	epost	203		99	99	99	99
					314		99	99	99	99
					Mean =	.	98	99	99	99
14	Guardsman Max	3	pt/a	pre	114		90	80	90	90
	Status	5	oz/a	epost	209		95	85	90	95
	COC	1	pt/a	epost	306		95	90	75	85
	AMS	8.5	lb/100 gal	epost						
					Mean =	.	93	85	85	90
15	Guardsman Max	3	pt/a	pre	115		95	95	95	95
	Impact	0.75	oz/a	epost	211		90	85	95	90
	Aatrex	1	pt/a	epost	313		99	99	99	99
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
					Mean =	.	95	93	96	95
16	Define	16	oz/a	pre	116		95	90	95	90
	Aatrex	1	qt/a	pre	207		90	80	90	85
	Laudis	3	oz/a	epost	315		99	99	99	99
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
					Mean =	.	95	90	95	91
17	check				117					
					201					
					310					
					Mean =	.	.	.	.	.

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.					AMAPA ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYCHL %	
					5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	6	7	8	9	10
1	Guardsman Max	4	pt/a	pre	101					
	Status	5	oz/a	mpost	204					
	COC	1	pt/a	mpost	309					
	AMS	8.5	lb/100 gal	mpost						
Mean =						.	.	.	.	.
2	Bicep II Magnum	2.1	pt/a	pre	102					
	Callisto	3	oz/a	mpost	210					
	Aatrex	0.5	lb ai/a	mpost	312					
	COC	1	% v/v	mpost						
	AMS	8.5	lb/100 gal	mpost						
Mean =						.	.	.	.	.
3	Permit	0.67	oz/a	epost	103	60	90	80	30	25
	NIS	0.25	% v/v	epost	212	30	40	20	30	5
	AMS	2.5	lb/a	epost	311	30	20	30	30	5
Mean =					40	50	43	30	12	
4	Keystone	2.7	qt/a	pre	104					
	Hornet	4	oz/a	pre	205					
					301					
Mean =						.	.	.	.	.
5	Keystone	2.7	qt/a	pre	105					
	Hornet	2.5	oz/a	mpost	206					
	Callisto	0.75	oz/a	mpost	304					
	Aatrex	0.28	lb/a	mpost						
	COC	1	% v/v	mpost						
	AMS	2.5	lb/a	mpost						
Mean =						.	.	.	.	.
6	Radius	23	oz/a	pre	106					
					213					
					302					
Mean =						.	.	.	.	.
7	Radius	23	oz/a	pre	107					
	Aatrex	1	lb ai/a	pre	215					
					305					
Mean =						.	.	.	.	.
8	Balance Pro	1.5	oz/a	pre	108					
	Liberty	32	oz/a	mpost	202					
	Aatrex	0.5	lb ai/a	mpost	317					
	AMS	8.5	lb/100 gal	mpost						
Mean =						.	.	.	.	.
9	Balance Pro	1.5	oz/a	pre	109					
	Aatrex	0.5	lb ai/a	pre	208					
	Roundup Original Max	22	oz/a	mpost	307					
	AMS	8.5	lb/100 gal	mpost						
Mean =						.	.	.	.	.

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.					AMAPA ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYCHL %	
					5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	6	7	8	9	10
10	Lexar	3	qt/a	pre	110 217 316					
Mean =						.	.	.	.	.
11	Lumax Aatrex	2.5 1	qt/a pt/a	pre pre	111 216 303					
Mean =						.	.	.	.	.
12	Bicep II Magnum Callisto Aatrex COC	2.1 3 1 1	qt/a oz/a pt/a % v/v	pre epost epost epost	112 214 308	99 99 99	99 99 99	99 99 99	99 99 60	2 5 5
Mean =						99	99	99	86	4
13	Lexar Lexar	2 1	qt/a qt/a	pre epost	113 203 314	99 99 99	99 99 99	99 99 99	99 99 99	5 20 2
Mean =						99	99	99	99	9
14	Guardsman Max Status COC AMS	3 5 1 8.5	pt/a oz/a pt/a lb/100 gal	pre epost epost epost	114 209 306	85 70 99	85 70 85	90 60 85	95 95 99	12* 5 10
Mean =						85	80	78	96	9
15	Guardsman Max Impact Aatrex COC AMS	3 0.75 1 1 2.5	pt/a oz/a pt/a % v/v % v/v	pre epost epost epost epost	115 211 313	99 99 99	99 99 99	99 99 99	99 99 99	10 5 2
Mean =						99	99	99	99	6
16	Define Aatrex Laudis Aatrex COC AMS	16 1 3 1 1 2.5	oz/a qt/a oz/a pt/a % v/v % v/v	pre pre epost epost epost epost	116 207 315	99 99 99	99 99 99	99 99 99	99 99 99	12* 5 10
Mean =						99	99	99	99	9
17	check				117 201 310					
Mean =						.	.	.	.	.

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Weed Code					HELAN	AMAPA	ABUTH	SETVI	ZEAMX	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN	
Rating Unit					%	%	%	%	%	
Rating Date					18/Jun/2007	18/Jun/2007	18/Jun/2007	18/Jun/2007	18/Jun/2007	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	11	12	13	14	15
1	Guardsman Max	4	pt/a	pre	101	99	99	99	99	0
	Status	5	oz/a	mpost	204	99	99	99	99	0
	COC	1	pt/a	mpost	309	99	99	95	99	0
	AMS	8.5	lb/100 gal	mpost						
					Mean =	99	99	98	99	0
2	Bicep II Magnum	2.1	pt/a	pre	102	90	95	99	90	0
	Callisto	3	oz/a	mpost	210	99	99	99	85	0
	Aatrex	0.5	lb ai/a	mpost	312	99	99	99	95	0
	COC	1	% v/v	mpost						
	AMS	8.5	lb/100 gal	mpost						
					Mean =	96	98	99	90	0
3	Permit	0.67	oz/a	epost	103	95	60	95	40	0
	NIS	0.25	% v/v	epost	212	95	50	95	50	0
	AMS	2.5	lb/a	epost	311	95	50	90	50	0
					Mean =	95	53	93	47	0
4	Keystone	2.7	qt/a	pre	104	99	99	99	90	0
	Hornet	4	oz/a	pre	205	99	99	95	90	0
					301	99	99	99	99	0
					Mean =	99	99	98	93	0
5	Keystone	2.7	qt/a	pre	105	99	99	99	99	0
	Hornet	2.5	oz/a	mpost	206	99	99	99	99	0
	Callisto	0.75	oz/a	mpost	304	99	99	99	95	0
	Aatrex	0.28	lb/a	mpost						
	COC	1	% v/v	mpost						
	AMS	2.5	lb/a	mpost						
					Mean =	99	99	99	98	0
6	Radius	23	oz/a	pre	106	80	85	95	95	0
					213	95	85	95	85	0
					302	90	90	90	90	0
					Mean =	88	87	93	90	0
7	Radius	23	oz/a	pre	107	90	95	95	99	0
	Aatrex	1	lb ai/a	pre	215	99	90	95	95	0
					305	99	99	95	99	0
					Mean =	96	95	95	98	0
8	Balance Pro	1.5	oz/a	pre	108	99	90	95	95	0
	Liberty	32	oz/a	mpost	202	95	85	85	80	0
	Aatrex	0.5	lb ai/a	mpost	317	99	99	99	95	0
	AMS	8.5	lb/100 gal	mpost						
					Mean =	98	91	93	90	0
9	Balance Pro	1.5	oz/a	pre	109	99	99	95	99	0
	Aatrex	0.5	lb ai/a	pre	208	95	99	99	99	0
	Roundup Original Max	22	oz/a	mpost	307	99	99	99	99	0
	AMS	8.5	lb/100 gal	mpost						
					Mean =	98	99	98	99	0

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.					HELAN ZEAMX CONTROL %	AMAPA ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYGEN %	
					18/Jun/2007	18/Jun/2007	18/Jun/2007	18/Jun/2007	18/Jun/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	11	12	13	14	15
10	Lexar	3	qt/a	pre	110	95	95	99	99	0
					217	99	99	99	99	0
					316	99	99	99	99	0
					Mean =	98	98	99	99	0
11	Lumax	2.5	qt/a	pre	111	99	99	99	99	0
	Aatrex	1	pt/a	pre	216	99	95	99	95	0
					303	99	99	99	95	0
					Mean =	99	98	99	96	0
12	Bicep II Magnum	2.1	qt/a	pre	112	99	99	99	99	0
	Callisto	3	oz/a	epost	214	99	99	99	99	0
	Aatrex	1	pt/a	epost	308	99	99	99	99	0
	COC	1	% v/v	epost						
					Mean =	99	99	99	99	0
13	Lexar	2	qt/a	pre	113	99	99	99	99	0
	Lexar	1	qt/a	epost	203	99	99	99	95	0
					314	99	99	99	99	0
					Mean =	99	99	99	98	0
14	Guardsman Max	3	pt/a	pre	114	99	90	99	95	0
	Status	5	oz/a	epost	209	99	99	95	99	0
	COC	1	pt/a	epost	306	99	99	95	90	0
	AMS	8.5	lb/100 gal	epost						
					Mean =	99	96	96	95	0
15	Guardsman Max	3	pt/a	pre	115	99	99	99	99	0
	Impact	0.75	oz/a	epost	211	99	99	99	99	0
	Aatrex	1	pt/a	epost	313	99	99	99	99	0
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
					Mean =	99	99	99	99	0
16	Define	16	oz/a	pre	116	99	99	99	95	0
	Aatrex	1	qt/a	pre	207	95	99	99	99	0
	Laudis	3	oz/a	epost	315	99	99	99	99	0
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
					Mean =	98	99	99	98	0
17	check				117	0	0	0	0	0
					201	0	0	0	0	0
					310	0	0	0	0	0
					Mean =	0	0	0	0	0



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Weed Code					HELAN	AMAPA	ABUTH	SETVI	ZEAMX	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit					%	%	%	%	LB	
Rating Date					3/Jul/2007	3/Jul/2007	3/Jul/2007	3/Jul/2007	24/Oct/2007	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	16	17	18	19	20
1	Guardsman Max	4	pt/a	pre	101	99	99	99	99	50
	Status	5	oz/a	mpost	204	99	99	99	99	51
	COC	1	pt/a	mpost	309	99	99	95	99	40
	AMS	8.5	lb/100 gal	mpost						
	Mean =					99	99	98	99	47
2	Bicep II Magnum	2.1	pt/a	pre	102	90	95	99	90	51
	Callisto	3	oz/a	mpost	210	99	99	99	80	49
	Aatrex	0.5	lb ai/a	mpost	312	99	99	99	95	39
	COC	1	% v/v	mpost						
	AMS	8.5	lb/100 gal	mpost						
	Mean =					96	98	99	88	47
3	Permit	0.67	oz/a	epost	103	95	40	95	20	35
	NIS	0.25	% v/v	epost	212	90	30	95	40	23
	AMS	2.5	lb/a	epost	311	95	40	90	40	20
	Mean =					93	37	93	33	26
4	Keystone	2.7	qt/a	pre	104	99	99	99	90	49
	Hornet	4	oz/a	pre	205	99	99	95	90	50
					301	99	99	99	95	46
	Mean =					99	99	98	92	48
5	Keystone	2.7	qt/a	pre	105	99	99	99	99	55
	Hornet	2.5	oz/a	mpost	206	99	99	99	99	54
	Callisto	0.75	oz/a	mpost	304	99	99	95	95	46
	Aatrex	0.28	lb/a	mpost						
	COC	1	% v/v	mpost						
	AMS	2.5	lb/a	mpost						
	Mean =					99	99	98	98	51
6	Radius	23	oz/a	pre	106	80	80	90	90	38
					213	90	80	95	80	41
					302	85	90	90	90	48
	Mean =					85	83	92	87	42
7	Radius	23	oz/a	pre	107	90	90	95	95	44
	Aatrex	1	lb ai/a	pre	215	99	90	95	95	42
					305	99	99	95	99	48
	Mean =					96	93	95	96	45
8	Balance Pro	1.5	oz/a	pre	108	99	90	90	95	53
	Liberty	32	oz/a	mpost	202	90	75	80	70	46
	Aatrex	0.5	lb ai/a	mpost	317	99	95	99	95	38
	AMS	8.5	lb/100 gal	mpost						
	Mean =					96	87	90	87	46
9	Balance Pro	1.5	oz/a	pre	109	99	99	95	99	53
	Aatrex	0.5	lb ai/a	pre	208	90	99	99	99	54
	Roundup Original Max	22	oz/a	mpost	307	99	99	99	99	49
	AMS	8.5	lb/100 gal	mpost						
	Mean =					96	99	98	99	52

# University of Nebraska

Weed Code					HELAN	AMAPA	ABUTH	SETVI		
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit					%	%	%	%	LB	
Rating Date					3/Jul/2007	3/Jul/2007	3/Jul/2007	3/Jul/2007	24/Oct/2007	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	16	17	18	19	20
10	Lexar	3	qt/a	pre	110	90	95	99	99	51
					217	99	99	99	95	51
					316	99	99	99	99	45
					Mean =	96	98	99	98	49
11	Lumax	2.5	qt/a	pre	111	99	99	99	99	56
	Aatrex	1	pt/a	pre	216	99	95	99	95	54
					303	99	99	95	95	42
					Mean =	99	98	98	96	50
12	Bicep II Magnum	2.1	qt/a	pre	112	99	99	99	99	57
	Callisto	3	oz/a	epost	214	99	99	99	99	48
	Aatrex	1	pt/a	epost	308	99	99	99	99	51
	COC	1	% v/v	epost						
					Mean =	99	99	99	99	52
13	Lexar	2	qt/a	pre	113	99	99	99	99	48
	Lexar	1	qt/a	epost	203	99	99	99	95	45
					314	99	99	99	99	45
					Mean =	99	99	99	98	46
14	Guardsman Max	3	pt/a	pre	114	99	90	95	95	48
	Status	5	oz/a	epost	209	99	99	95	99	56
	COC	1	pt/a	epost	306	99	99	90	85	46
	AMS	8.5	lb/100 gal	epost						
					Mean =	99	96	93	93	50
15	Guardsman Max	3	pt/a	pre	115	99	99	95	99	47
	Impact	0.75	oz/a	epost	211	99	99	99	99	44
	Aatrex	1	pt/a	epost	313	99	99	99	99	44
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
					Mean =	99	99	98	99	45
16	Define	16	oz/a	pre	116	99	99	99	95	50
	Aatrex	1	qt/a	pre	207	90	99	99	99	57
	Laudis	3	oz/a	epost	315	99	99	99	99	42
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
					Mean =	96	99	99	98	49
17	check				117	0	0	0	0	25
					201	0	0	0	0	7
					310	0	0	0	0	8
					Mean =	0	0	0	0	13

# University of Nebraska

Weed Code					ZEAMX	ZEAMX
Crop Code					MOICON	YIELD
Rating Data Type					%	bu/ac
Rating Unit					24/Oct/2007	24/Oct/2007
Rating Date						TY1
ARM Action Codes						1
# Subsamples, Dec.						
Trt	Treatment	Rate	Grow			
No.	Name	Rate Unit	Stg Plot		21	22
1	Guardsman Max	4 pt/a	pre 101		16	127.9
	Status	5 oz/a	mpost 204		16	129.0
	COC	1 pt/a	mpost 309		16	103.5
	AMS	8.5 lb/100 gal	mpost			
			Mean =		16	120.2
2	Bicep II Magnum	2.1 pt/a	pre 102		16	131.1
	Callisto	3 oz/a	mpost 210		16	126.1
	Aatrex	0.5 lb ai/a	mpost 312		16	100.3
	COC	1 % v/v	mpost			
	AMS	8.5 lb/100 gal	mpost			
			Mean =		16	119.2
3	Permit	0.67 oz/a	epost 103		17	88.4
	NIS	0.25 % v/v	epost 212		16	57.5
	AMS	2.5 lb/a	epost 311		16	49.7
			Mean =		16	65.2
4	Keystone	2.7 qt/a	pre 104		17	123.9
	Hornet	4 oz/a	pre 205		16	129.1
			301		17	116.7
			Mean =		16	123.2
5	Keystone	2.7 qt/a	pre 105		16	139.7
	Hornet	2.5 oz/a	mpost 206		17	136.9
	Callisto	0.75 oz/a	mpost 304		16	117.4
	Aatrex	0.28 lb/a	mpost			
	COC	1 % v/v	mpost			
	AMS	2.5 lb/a	mpost			
			Mean =		16	131.3
6	Radius	23 oz/a	pre 106		16	97.0
			213		16	104.3
			302		17	121.2
			Mean =		16	107.5
7	Radius	23 oz/a	pre 107		16	113.3
	Aatrex	1 lb ai/a	pre 215		16	106.6
			305		16	122.3
			Mean =		16	114.1
8	Balance Pro	1.5 oz/a	pre 108		17	135.9
	Liberty	32 oz/a	mpost 202		17	117.4
	Aatrex	0.5 lb ai/a	mpost 317		16	97.8
	AMS	8.5 lb/100 gal	mpost			
			Mean =		16	117.0
9	Balance Pro	1.5 oz/a	pre 109		16	134.5
	Aatrex	0.5 lb ai/a	pre 208		16	138.1
	Roundup Original Max	22 oz/a	mpost 307		16	125.5
	AMS	8.5 lb/100 gal	mpost			
			Mean =		16	132.7

# University of Nebraska

Weed Code					ZEAMX	ZEAMX
Crop Code					MOICON	YIELD
Rating Data Type					%	bu/ac
Rating Unit					24/Oct/2007	24/Oct/2007
Rating Date						TY1
ARM Action Codes						1
# Subsamples, Dec.						
Trt	Treatment	Rate	Grow			
No.	Name	Rate Unit	Stg Plot		21	22
10	Lexar	3 qt/a	pre 110		16	129.7
			217		16	131.0
			316		16	116.1
			Mean =		16	125.6
11	Lumax	2.5 qt/a	pre 111		16	142.5
	Aatrex	1 pt/a	pre 216		16	138.1
			303		17	106.5
			Mean =		16	129.0
12	Bicep II Magnum	2.1 qt/a	pre 112		16	144.9
	Callisto	3 oz/a	epost 214		16	123.8
	Aatrex	1 pt/a	epost 308		16	129.9
	COC	1 % v/v	epost			
			Mean =		16	132.8
13	Lexar	2 qt/a	pre 113		16	123.3
	Lexar	1 qt/a	epost 203		16	114.3
			314		16	116.3
			Mean =		16	118.0
14	Guardsman Max	3 pt/a	pre 114		16	121.3
	Status	5 oz/a	epost 209		16	142.8
	COC	1 pt/a	epost 306		16	117.4
	AMS	8.5 lb/100 gal	epost			
			Mean =		16	127.1
15	Guardsman Max	3 pt/a	pre 115		16	119.5
	Impact	0.75 oz/a	epost 211		16	113.0
	Aatrex	1 pt/a	epost 313		16	112.0
	COC	1 % v/v	epost			
	AMS	2.5 % v/v	epost			
			Mean =		16	114.8
16	Define	16 oz/a	pre 116		16	127.5
	Aatrex	1 qt/a	pre 207		16	145.4
	Laudis	3 oz/a	epost 315		16	106.2
	Aatrex	1 pt/a	epost			
	COC	1 % v/v	epost			
	AMS	2.5 % v/v	epost			
			Mean =		16	126.3
17	check		117		16	62.6
			201		17	17.0
			310		16	19.1
			Mean =		16	32.9

Column 22: TY1 = 2.592857\*[20]\*(100-[21])/85

# University of Nebraska

## Conventional Corn Herbicide Programs

Trial ID: L0711

Study Dir.: Kevin Horky

Location: Havelock

Investigator: Dr. Mark Bernards

				ZEAMX PHYCHL %	AMAPA ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %
				16/May/2007	29/May/2007	29/May/2007	29/May/2007	29/May/2007
Trt No.	Treatment Name	Rate	Grow Stg	1	2	3	4	5
	Weed Code							
	Crop Code							
	Rating Data Type							
	Rating Unit							
	Rating Date							
	ARM Action Codes							
	# Subsamples, Dec.							
1	Guardsman Max	4 pt/a	pre		82 a	80 a	82 a	92 ab
	Status	5 oz/a	mpost					
	COC	1 pt/a	mpost					
	AMS	8.5 lb/100 gal	mpost					
2	Bicep II Magnum	2.1 pt/a	pre		83 a	76 a	83 a	72 b
	Callisto	3 oz/a	mpost					
	Aatrex	0.5 lb ai/a	mpost					
	COC	1 % v/v	mpost					
	AMS	8.5 lb/100 gal	mpost					
3	Permit	0.67 oz/a	epost					
	NIS	0.25 % v/v	epost					
	AMS	2.5 lb/a	epost					
4	Keystone	2.7 qt/a	pre		99 a	99 a	99 a	98 a
	Hornet	4 oz/a	pre					
5	Keystone	2.7 qt/a	pre		93 a	88 a	91 a	92 ab
	Hornet	2.5 oz/a	mpost					
	Callisto	0.75 oz/a	mpost					
	Aatrex	0.28 lb/a	mpost					
	COC	1 % v/v	mpost					
	AMS	2.5 lb/a	mpost					
6	Radius	23 oz/a	pre	30 a	92 a	90 a	92 a	95 a
7	Radius	23 oz/a	pre	33 a	98 a	91 a	96 a	98 a
	Aatrex	1 lb ai/a	pre					
8	Balance Pro	1.5 oz/a	pre		80 a	73 a	87 a	85 ab
	Liberty	32 oz/a	mpost					
	Aatrex	0.5 lb ai/a	mpost					
	AMS	8.5 lb/100 gal	mpost					
9	Balance Pro	1.5 oz/a	pre		92 a	85 a	93 a	93 a
	Aatrex	0.5 lb ai/a	pre					
	Roundup Original Max	22 oz/a	mpost					
	AMS	8.5 lb/100 gal	mpost					
10	Lexar	3 qt/a	pre		99 a	99 a	99 a	99 a
11	Lumax	2.5 qt/a	pre		96 a	98 a	93 a	96 a
	Aatrex	1 pt/a	pre					
12	Bicep II Magnum	2.1 qt/a	pre		96 a	94 a	96 a	89 ab
	Callisto	3 oz/a	epost					
	Aatrex	1 pt/a	epost					
	COC	1 % v/v	epost					
13	Lexar	2 qt/a	pre		98 a	99 a	99 a	99 a
	Lexar	1 qt/a	epost					
14	Guardsman Max	3 pt/a	pre		93 a	85 a	85 a	90 ab
	Status	5 oz/a	epost					
	COC	1 pt/a	epost					
	AMS	8.5 lb/100 gal	epost					
15	Guardsman Max	3 pt/a	pre		95 a	93 a	96 a	95 a
	Impact	0.75 oz/a	epost					
	Aatrex	1 pt/a	epost					
	COC	1 % v/v	epost					
	AMS	2.5 % v/v	epost					

# University of Nebraska

Weed Code				ZEAMX	AMAPA	HELAN	ABUTH	SETVI	
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type				PHYCHL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				%	%	%	%	%	
Rating Date				16/May/2007	29/May/2007	29/May/2007	29/May/2007	29/May/2007	
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5
16	Define	16	oz/a	pre		95 a	90 a	95 a	91 ab
	Aatrex	1	qt/a	pre					
	Laudis	3	oz/a	epost					
	Aatrex	1	pt/a	epost					
	COC	1	% v/v	epost					
	AMS	2.5	% v/v	epost					
17	check								
LSD (P=.05)					31.8	11.3	14.6	12.4	13.5
Standard Deviation					2.5	6.8	8.8	7.4	8.1
CV					8.0	7.3	9.79	8.01	8.77
Grand Mean					31.25	92.64	89.4	92.36	92.18
Bartlett's X2					0.0	19.832	14.44	9.981	22.925
P(Bartlett's X2)					.	0.07	0.21	0.532	0.028*
Replicate F					1.000	1.407	4.133	0.361	0.038
Replicate Prob(F)					0.5000	0.2616	0.0268	0.7001	0.9627
Treatment F					1.000	2.490	2.636	1.819	2.190
Treatment Prob(F)					0.5000	0.0194	0.0141	0.0866	0.0376

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# University of Nebraska

Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.				AMAPA ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYCHL %	HELAN ZEAMX CONTROL %	
				5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	18/Jun/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	6	7	8	9	10	11
1	Guardsman Max	4	pt/a	pre						99 a
	Status	5	oz/a	mpost						
	COC	1	pt/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
2	Bicep II Magnum	2.1	pt/a	pre						96 a
	Callisto	3	oz/a	mpost						
	Aatrex	0.5	lb ai/a	mpost						
	COC	1	% v/v	mpost						
	AMS	8.5	lb/100 gal	mpost						
3	Permit	0.67	oz/a	epost	40 b	50 b	43 b	30 b	12 a	95 a
	NIS	0.25	% v/v	epost						
	AMS	2.5	lb/a	epost						
4	Keystone	2.7	qt/a	pre						99 a
	Hornet	4	oz/a	pre						
5	Keystone	2.7	qt/a	pre						99 a
	Hornet	2.5	oz/a	mpost						
	Callisto	0.75	oz/a	mpost						
	Aatrex	0.28	lb/a	mpost						
	COC	1	% v/v	mpost						
	AMS	2.5	lb/a	mpost						
6	Radius	23	oz/a	pre						88 b
7	Radius	23	oz/a	pre						96 a
	Aatrex	1	lb ai/a	pre						
8	Balance Pro	1.5	oz/a	pre						98 a
	Liberty	32	oz/a	mpost						
	Aatrex	0.5	lb ai/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
9	Balance Pro	1.5	oz/a	pre						98 a
	Aatrex	0.5	lb ai/a	pre						
	Roundup Original Max	22	oz/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
10	Lexar	3	qt/a	pre						98 a
11	Lumax	2.5	qt/a	pre						99 a
	Aatrex	1	pt/a	pre						
12	Bicep II Magnum	2.1	qt/a	pre	99 a	99 a	99 a	86 a	4 a	99 a
	Callisto	3	oz/a	epost						
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
13	Lexar	2	qt/a	pre	99 a	99 a	99 a	99 a	9 a	99 a
	Lexar	1	qt/a	epost						
14	Guardsman Max	3	pt/a	pre	85 a	80 a	78 a	96 a	9 a	99 a
	Status	5	oz/a	epost						
	COC	1	pt/a	epost						
	AMS	8.5	lb/100 gal	epost						
15	Guardsman Max	3	pt/a	pre	99 a	99 a	99 a	99 a	6 a	99 a
	Impact	0.75	oz/a	epost						
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
16	Define	16	oz/a	pre	99 a	99 a	99 a	99 a	9 a	98 a
	Aatrex	1	qt/a	pre						
	Laudis	3	oz/a	epost						
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						

# University of Nebraska

Weed Code	AMAPA	HELAN	ABUTH	SETVI		HELAN
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYCHL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	18/Jun/2007
ARM Action Codes						
# Subsamples, Dec.						
Trt No.	Treatment Name	Rate	Unit	Grow Stg		
					6	7
					8	9
					10	11
	17 check					0 c
LSD (P=.05)	16.7	27.2	25.1	17.1	14.2	4.5
Standard Deviation	9.2	15.0	13.8	9.4	7.5	2.7
CV	10.61	17.08	15.96	11.1	93.8	2.95
Grand Mean	86.78	87.67	86.28	84.89	8.04	91.65
Bartlett's X2	0.062	3.111	0.88	6.286	7.205	6.17
P(Bartlett's X2)	0.804	0.078	0.348	0.012*	0.206	0.404
Replicate F	1.024	1.134	1.808	0.766	0.761	2.276
Replicate Prob(F)	0.3941	0.3599	0.2136	0.4904	0.4981	0.1191
Treatment F	19.760	5.330	8.079	25.270	0.398	231.673
Treatment Prob(F)	0.0001	0.0121	0.0028	0.0001	0.8377	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



# University of Nebraska

Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.				AMAPA ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYGEN %	HELAN ZEAMX CONTROL %	
				18/Jun/2007	18/Jun/2007	18/Jun/2007	18/Jun/2007	3/Jul/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	12	13	14	15	16
1	Guardsman Max	4	pt/a	pre	99 a	98 a	99 a	0 a	99 a
	Status	5	oz/a	mpost					
	COC	1	pt/a	mpost					
	AMS	8.5	lb/100 gal	mpost					
2	Bicep II Magnum	2.1	pt/a	pre	98 a	99 a	90 a	0 a	96 a
	Callisto	3	oz/a	mpost					
	Aatrex	0.5	lb ai/a	mpost					
	COC	1	% v/v	mpost					
	AMS	8.5	lb/100 gal	mpost					
3	Permit	0.67	oz/a	epost	53 c	93 a	47 b	0 a	93 a
	NIS	0.25	% v/v	epost					
	AMS	2.5	lb/a	epost					
4	Keystone	2.7	qt/a	pre	99 a	98 a	93 a	0 a	99 a
	Hornet	4	oz/a	pre					
5	Keystone	2.7	qt/a	pre	99 a	99 a	98 a	0 a	99 a
	Hornet	2.5	oz/a	mpost					
	Callisto	0.75	oz/a	mpost					
	Aatrex	0.28	lb/a	mpost					
	COC	1	% v/v	mpost					
	AMS	2.5	lb/a	mpost					
6	Radius	23	oz/a	pre	87 b	93 a	90 a	0 a	85 b
7	Radius	23	oz/a	pre	95 a	95 a	98 a	0 a	96 a
	Aatrex	1	lb ai/a	pre					
8	Balance Pro	1.5	oz/a	pre	91 ab	93 a	90 a	0 a	96 a
	Liberty	32	oz/a	mpost					
	Aatrex	0.5	lb ai/a	mpost					
	AMS	8.5	lb/100 gal	mpost					
9	Balance Pro	1.5	oz/a	pre	99 a	98 a	99 a	0 a	96 a
	Aatrex	0.5	lb ai/a	pre					
	Roundup Original Max	22	oz/a	mpost					
	AMS	8.5	lb/100 gal	mpost					
10	Lexar	3	qt/a	pre	98 a	99 a	99 a	0 a	96 a
11	Lumax	2.5	qt/a	pre	98 a	99 a	96 a	0 a	99 a
	Aatrex	1	pt/a	pre					
12	Bicep II Magnum	2.1	qt/a	pre	99 a	99 a	99 a	0 a	99 a
	Callisto	3	oz/a	epost					
	Aatrex	1	pt/a	epost					
	COC	1	% v/v	epost					
13	Lexar	2	qt/a	pre	99 a	99 a	98 a	0 a	99 a
	Lexar	1	qt/a	epost					
14	Guardsman Max	3	pt/a	pre	96 a	96 a	95 a	0 a	99 a
	Status	5	oz/a	epost					
	COC	1	pt/a	epost					
	AMS	8.5	lb/100 gal	epost					
15	Guardsman Max	3	pt/a	pre	99 a	99 a	99 a	0 a	99 a
	Impact	0.75	oz/a	epost					
	Aatrex	1	pt/a	epost					
	COC	1	% v/v	epost					
	AMS	2.5	% v/v	epost					
16	Define	16	oz/a	pre	99 a	99 a	98 a	0 a	96 a
	Aatrex	1	qt/a	pre					
	Laudis	3	oz/a	epost					
	Aatrex	1	pt/a	epost					
	COC	1	% v/v	epost					
	AMS	2.5	% v/v	epost					

## University of Nebraska

Weed Code				AMAPA	ABUTH	SETVI	ZEAMX	HELAN	
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type				CONTROL	CONTROL	CONTROL	PHYGEN	CONTROL	
Rating Unit				%	%	%	%	%	
Rating Date				18/Jun/2007	18/Jun/2007	18/Jun/2007	18/Jun/2007	3/Jul/2007	
ARM Action Codes									
# Subsamples, Dec.									
Trt	Treatment	Rate	Grow						
No.	Name	Rate	Unit	Stg	12	13	14	15	16
17	check				0 d	0 b	0 c	0 a	0 c
	LSD (P=.05)				4.9	3.9	6.1	0.0	5.6
	Standard Deviation				2.9	2.3	3.7	0.0	3.3
	CV				3.32	2.55	4.19	0.0	3.67
	Grand Mean				88.65	91.53	87.43	0.0	90.96
	Bartlett's X2				5.298	5.603	8.335	0.0	0.832
	P(Bartlett's X2)				0.624	0.469	0.596	.	0.997
	Replicate F				1.921	0.563	1.341	0.000	1.568
	Replicate Prob(F)				0.1630	0.5751	0.2760	1.0000	0.2241
	Treatment F				222.985	309.896	148.013	0.000	151.506
	Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# University of Nebraska

Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.				AMAPA ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX YIELD LB	ZEAMX MOICON %	ZEAMX YIELD bu/ac	
				3/Jul/2007	3/Jul/2007	3/Jul/2007	24/Oct/2007	24/Oct/2007	24/Oct/2007 TY1	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	17	18	19	20	21	22
1	Guardsman Max	4	pt/a	pre	99 a	98 ab	99 a	47 a	16 a	120.2 a
	Status	5	oz/a	mpost						
	COC	1	pt/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
2	Bicep II Magnum	2.1	pt/a	pre	98 a	99 a	88 a	47 a	16 a	119.2 a
	Callisto	3	oz/a	mpost						
	Aatrex	0.5	lb ai/a	mpost						
	COC	1	% v/v	mpost						
	AMS	8.5	lb/100 gal	mpost						
3	Permit	0.67	oz/a	epost	37 c	93 ab	33 b	26 b	16 a	65.2 b
	NIS	0.25	% v/v	epost						
	AMS	2.5	lb/a	epost						
4	Keystone	2.7	qt/a	pre	99 a	98 ab	92 a	48 a	16 a	123.2 a
	Hornet	4	oz/a	pre						
5	Keystone	2.7	qt/a	pre	99 a	98 ab	98 a	51 a	16 a	131.3 a
	Hornet	2.5	oz/a	mpost						
	Callisto	0.75	oz/a	mpost						
	Aatrex	0.28	lb/a	mpost						
	COC	1	% v/v	mpost						
	AMS	2.5	lb/a	mpost						
6	Radius	23	oz/a	pre	83 b	92 ab	87 a	42 a	16 a	107.5 a
7	Radius	23	oz/a	pre	93 a	95 ab	96 a	45 a	16 a	114.1 a
	Aatrex	1	lb ai/a	pre						
8	Balance Pro	1.5	oz/a	pre	87 b	90 b	87 a	46 a	16 a	117.0 a
	Liberty	32	oz/a	mpost						
	Aatrex	0.5	lb ai/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
9	Balance Pro	1.5	oz/a	pre	99 a	98 ab	99 a	52 a	16 a	132.7 a
	Aatrex	0.5	lb ai/a	pre						
	Roundup Original Max	22	oz/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
10	Lexar	3	qt/a	pre	98 a	99 a	98 a	49 a	16 a	125.6 a
11	Lumax	2.5	qt/a	pre	98 a	98 ab	96 a	50 a	16 a	129.0 a
	Aatrex	1	pt/a	pre						
12	Bicep II Magnum	2.1	qt/a	pre	99 a	99 a	99 a	52 a	16 a	132.8 a
	Callisto	3	oz/a	epost						
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
13	Lexar	2	qt/a	pre	99 a	99 a	98 a	46 a	16 a	118.0 a
	Lexar	1	qt/a	epost						
14	Guardsman Max	3	pt/a	pre	96 a	93 ab	93 a	50 a	16 a	127.1 a
	Status	5	oz/a	epost						
	COC	1	pt/a	epost						
	AMS	8.5	lb/100 gal	epost						
15	Guardsman Max	3	pt/a	pre	99 a	98 ab	99 a	45 a	16 a	114.8 a
	Impact	0.75	oz/a	epost						
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						
16	Define	16	oz/a	pre	99 a	99 a	98 a	49 a	16 a	126.3 a
	Aatrex	1	qt/a	pre						
	Laudis	3	oz/a	epost						
	Aatrex	1	pt/a	epost						
	COC	1	% v/v	epost						
	AMS	2.5	% v/v	epost						

# University of Nebraska

Weed Code	AMAPA ZEAMX CONTROL	ABUTH ZEAMX CONTROL	SETVI ZEAMX CONTROL	ZEAMX YIELD LB	ZEAMX MOICON %	ZEAMX YIELD bu/ac
Crop Code						
Rating Data Type						
Rating Unit	%	%	%		%	
Rating Date	3/Jul/2007	3/Jul/2007	3/Jul/2007	24/Oct/2007	24/Oct/2007	24/Oct/2007
ARM Action Codes						
# Subsamples, Dec.						TY1 1
Trt Treatment						
No. Name	Rate Unit	Grow Stg				
17 check	17	18	19	20	21	22
	0 d	0 c	0 c	13 c	16 a	32.9 c
LSD (P=.05)	5.9	5.1	9.2	7.9	0.4	20.03
Standard Deviation	3.5	3.0	5.5	4.7	0.2	12.02
CV	4.05	3.34	6.45	10.61	1.45	10.55
Grand Mean	87.1	90.82	85.82	44.56	16.2	113.94
Bartlett's X2	7.543	10.926	20.481	13.295	20.83	13.389
P(Bartlett's X2)	0.375	0.281	0.039*	0.651	0.142	0.644
Replicate F	3.642	0.045	1.166	8.564	0.569	8.610
Replicate Prob(F)	0.0376	0.9562	0.3245	0.0011	0.5716	0.0010
Treatment F	176.273	181.653	71.581	13.882	1.151	14.106
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.3549	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 22: TY1 =  $2.592857 * [20] * (100 - [21]) / 85$