

# University of Nebraska

## Tembotrione based herbicide programs

Trial ID: L0712  
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.	AMAPA	Amaranth, Palmer	Amaranthus palmeri
2.	HELAN	Common sunflower	Helianthus annuus
3.	ABUTH	Velvetleaf	Abutilon theophrasti
4.	SETVI	Green foxtail	Setaria viridis

**Crop 1:** ZEAMX CORN, FIELD **Variety:** Pioneer 35Y62  
**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 120lbs 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>	1:30 pm	11:30 am	1:00 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>	72 F	72 F	78 F
<b>% Relative Humidity:</b>	25	60	26
<b>Wind Velocity, Unit:</b>	7 mph	8 mph	8 mph
<b>Dew Presence (Y/N):</b>	n	n	n
<b>Soil Temp., Unit:</b>	11 C	12 C	15 C
<b>Soil Moisture:</b>	good	good	good
<b>% Cloud Cover:</b>	40	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	V5
<b>Height, Unit:</b>		12 in	15 in

## WEED STAGE AT EACH APPLICATION

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

Bayer Protocols- DLA,

### Data Required

Crop Injury - 7, 14, 21DAT

Weed Control - 14, 28, 56 DAT

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Trial ID: L0712

Study Dir.: Kevin Horky

Location: Havelock

Investigator: Dr. Mark Bernards

					AMAPA ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYCHL %	
					4/Jun/2007	4/Jun/2007	4/Jun/2007	4/Jun/2007	5/Jun/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	1	2	3	4	5
1	Check				101 202 306					
					Mean =	.	.	.	.	.
2	Balance Pro	1.5	oz/a	pre	102	90	95	90	95	
	Laudis	3	oz/a	mpost	210	80	85	90	95	
	Aatrex	1	lb ai/a	mpost	301	75	90	90	40	
	COC	1	% v/v	mpost						
	UAN	1.5	qt/a	mpost						
					Mean =	82	90	90	77	.
3	Balance Pro	1.5	oz/a	pre	103	99	99	99	99	
	Aatrex	1	lb ai/a	pre	204	99	95	99	99	
	Laudis	3	oz/a	mpost	307	99	95	99	90	
	MSO	1	% v/v	mpost						
	UAN	1.5	qt/a	mpost						
					Mean =	99	96	99	96	.
4	Bicep II Magnum	2.1	qt/a	pre	104	95	99	85	99	
	Callisto	3	oz/a	mpost	208	99	95	80	99	
	Aatrex	0.5	lb ai/a	mpost	309	95	90	80	50	
	COC	1	% v/v	mpost						
	UAN	2.5	% v/v	mpost						
					Mean =	96	95	82	83	.
5	Resolve	1	oz/a	pre	105	99	85	95	99	
	Balance Pro	1	oz/a	pre	209	95	90	85	95	
	Laudis	3	oz/a	mpost	310	95	90	95	20	
	Aatrex	0.5	lb ai/a	mpost						
	COC	1	% v/v	mpost						
	UAN	1.5	qt/a	mpost						
					Mean =	96	88	92	71	.
6	Laudis	2	oz/a	mpost	106					
	Liberty	32	oz/a	mpost	205					
	AMS	8.5	lb/100 gal	mpost	303					
					Mean =	.	.	.	.	.
7	Laudis	3	oz/a	mpost	107					
	Roundup Original Max	22	oz/a	mpost	201					
	AMS	8.5	lb/100 gal	mpost	302					
					Mean =	.	.	.	.	.
8	Laudis	3	oz/a	epost	108					5
	Accent	0.33	oz/a	epost	203					5
	MSO	1	% v/v	epost	305					10
	UAN	1.5	qt/a	epost						
					Mean =	.	.	.	.	7
9	Laudis	3	oz/a	epost	109					5
	MSO	1	% v/v	epost	206					5
	UAN	1.5	qt/a	epost	304					15
					Mean =	.	.	.	.	8

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Weed Code					AMAPA	HELAN	ABUTH	SETVI	ZEAMX
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	PHYCHL
Rating Unit					%	%	%	%	%
Rating Date					4/Jun/2007	4/Jun/2007	4/Jun/2007	4/Jun/2007	5/Jun/2007
Trt No.	Treatment Name	Rate	Unit	Grow Stg Plot	1	2	3	4	5
10	Laudis	3	oz/a	epost 110					15
	Aatrex	1	lb ai/a	epost 207					5
	COC	1	% v/v	epost 308					18*
	UAN	1.5	qt/a	epost					
				Mean =	.	.	.	.	13

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Weed Code					HELAN	AMAPA	ABUTH	SETVI	HELAN	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit					%	%	%	%	%	
Rating Date					19/Jun/2007	19/Jun/2007	19/Jun/2007	19/Jun/2007	3/Jul/2007	
Trt	Treatment	Rate	Grow							
No.	Name	Rate	Unit	Stg	Plot	6	7	8	9	10
1	Check				101	0	0	0	0	0
					202	0	0	0	99	0
					306	0	0	0	0	0
					Mean =	0	0	0	33	0
2	Balance Pro	1.5 oz/a	pre		102	99	99	99	99	99
	Laudis	3 oz/a	mpost		210	99	99	99	95	99
	Aatrex	1 lb ai/a	mpost		301	99	99	99	95	99
	COC	1 % v/v	mpost							
	UAN	1.5 qt/a	mpost							
					Mean =	99	99	99	96	99
3	Balance Pro	1.5 oz/a	pre		103	99	99	99	99	99
	Aatrex	1 lb ai/a	pre		204	99	99	99	99	99
	Laudis	3 oz/a	mpost		307	99	99	95	99	99
	MSO	1 % v/v	mpost							
	UAN	1.5 qt/a	mpost							
					Mean =	99	99	98	99	99
4	Bicep II Magnum	2.1 qt/a	pre		104	99	99	99	99	99
	Callisto	3 oz/a	mpost		208	99	99	99	90	99
	Aatrex	0.5 lb ai/a	mpost		309	99	99	99	95	99
	COC	1 % v/v	mpost							
	UAN	2.5 % v/v	mpost							
					Mean =	99	99	99	95	99
5	Resolve	1 oz/a	pre		105	99	99	99	99	99
	Balance Pro	1 oz/a	pre		209	99	99	99	95	99
	Laudis	3 oz/a	mpost		310	99	99	99	85	99
	Aatrex	0.5 lb ai/a	mpost							
	COC	1 % v/v	mpost							
	UAN	1.5 qt/a	mpost							
					Mean =	99	99	99	93	99
6	Laudis	2 oz/a	mpost		106	99	70	99	99	99
	Liberty	32 oz/a	mpost		205	95	70	95	99	95
	AMS	8.5 lb/100 gal	mpost		303	99	70	80	80	99
					Mean =	98	70	91	93	98
7	Laudis	3 oz/a	mpost		107	99	90	90	99	99
	Roundup Original Max	22 oz/a	mpost		201	99	90	90	95	99
	AMS	8.5 lb/100 gal	mpost		302	99	90	90	95	99
					Mean =	99	90	90	96	99
8	Laudis	3 oz/a	epost		108	80	90	90	99	70
	Accent	0.33 oz/a	epost		203	95	90	95	0	95
	MSO	1 % v/v	epost		305	99	85	85	90	99
	UAN	1.5 qt/a	epost							
					Mean =	91	88	90	63	88
9	Laudis	3 oz/a	epost		109	75	80	60	90	65
	MSO	1 % v/v	epost		206	95	85	90	95	95
	UAN	1.5 qt/a	epost		304	99	85	95	80	99
					Mean =	90	83	82	88	86

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Weed Code					HELAN	AMAPA	ABUTH	SETVI	HELAN	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit					%	%	%	%	%	
Rating Date					19/Jun/2007	19/Jun/2007	19/Jun/2007	19/Jun/2007	3/Jul/2007	
Trt	Treatment	Rate	Grow							
No.	Name	Rate	Unit	Stg	Plot	6	7	8	9	10
10	Laudis	3	oz/a	epost	110	90	95	90	90	90
	Aatrex	1	lb ai/a	epost	207	99	99	99	95	99
	COC	1	% v/v	epost	308	99	99	95	80	99
	UAN	1.5	qt/a	epost						
				Mean =		96	98	95	88	96

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Weed Code				AMAPA	ABUTH	SETVI	HELAN	AMAPA	
Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				%	%	%	%	%	
Rating Date				3/Jul/2007	3/Jul/2007	3/Jul/2007	2/Aug/2007	2/Aug/2007	
Trt No.	Treatment Name	Rate	Grow Stg	Plot	11	12	13	14	15
1	Check			101	0	0	0	0	0
				202	0	0	0	0	0
				306	0	0	0	0	0
				Mean =	0	0	0	0	0
2	Balance Pro	1.5 oz/a	pre	102	99	99	99	99	95
	Laudis	3 oz/a	mpost	210	99	99	95	99	95
	Aatrex	1 lb ai/a	mpost	301	99	99	90	99	95
	COC	1 % v/v	mpost						
	UAN	1.5 qt/a	mpost						
				Mean =	99	99	95	99	95
3	Balance Pro	1.5 oz/a	pre	103	99	99	99	99	95
	Aatrex	1 lb ai/a	pre	204	99	99	99	99	99
	Laudis	3 oz/a	mpost	307	99	95	99	99	95
	MSO	1 % v/v	mpost						
	UAN	1.5 qt/a	mpost						
				Mean =	99	98	99	99	96
4	Bicep II Magnum	2.1 qt/a	pre	104	99	99	99	99	99
	Callisto	3 oz/a	mpost	208	99	99	95	99	99
	Aatrex	0.5 lb ai/a	mpost	309	99	99	90	99	99
	COC	1 % v/v	mpost						
	UAN	2.5 % v/v	mpost						
				Mean =	99	99	95	99	99
5	Resolve	1 oz/a	pre	105	99	99	99	99	99
	Balance Pro	1 oz/a	pre	209	99	99	90	99	99
	Laudis	3 oz/a	mpost	310	99	99	80	99	95
	Aatrex	0.5 lb ai/a	mpost						
	COC	1 % v/v	mpost						
	UAN	1.5 qt/a	mpost						
				Mean =	99	99	90	99	98
6	Laudis	2 oz/a	mpost	106	60	99	99	99	60
	Liberty	32 oz/a	mpost	205	50	95	95	99	70
	AMS	8.5 lb/100 gal	mpost	303	60	75	75	99	60
				Mean =	57	90	90	99	63
7	Laudis	3 oz/a	mpost	107	90	90	99	99	95
	Roundup Original Max	22 oz/a	mpost	201	90	90	99	99	95
	AMS	8.5 lb/100 gal	mpost	302	90	90	95	99	95
				Mean =	90	90	98	99	95
8	Laudis	3 oz/a	epost	108	70	80	85	50	80
	Accent	0.33 oz/a	epost	203	85	95	95	80	80
	MSO	1 % v/v	epost	305	85	85	85	90	70
	UAN	1.5 qt/a	epost						
				Mean =	80	87	88	73	77
9	Laudis	3 oz/a	epost	109	65	60	85	50	80
	MSO	1 % v/v	epost	206	85	90	95	90	80
	UAN	1.5 qt/a	epost	304	85	95	70	90	85
				Mean =	78	82	83	77	82

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Weed Code					AMAPA	ABUTH	SETVI	HELAN	AMAPA	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit					%	%	%	%	%	
Rating Date					3/Jul/2007	3/Jul/2007	3/Jul/2007	2/Aug/2007	2/Aug/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	11	12	13	14	15
10	Laudis	3	oz/a	epost	110	95	90	90	85	90
	Aatrex	1	lb ai/a	epost	207	99	99	85	95	90
	COC	1	% v/v	epost	308	99	95	75	99	95
	UAN	1.5	qt/a	epost						
				Mean =		98	95	83	93	92



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Weed Code					ABUTH	SETVI
Crop Code					ZEAMX	ZEAMX
Rating Data Type					CONTROL	CONTROL
Rating Unit					%	%
Rating Date					2/Aug/2007	2/Aug/2007
Trt No.	Treatment Name	Rate	Unit	Grow Stg Plot	16	17
1	Check			101	0	0
				202	0	0
				306	0	0
				Mean =	0	0
2	Balance Pro	1.5	oz/a	pre 102	99	99
	Laudis	3	oz/a	mpost 210	99	99
	Aatrex	1	lb ai/a	mpost 301	99	90
	COC	1	% v/v	mpost		
	UAN	1.5	qt/a	mpost		
				Mean =	99	96
3	Balance Pro	1.5	oz/a	pre 103	99	99
	Aatrex	1	lb ai/a	pre 204	99	99
	Laudis	3	oz/a	mpost 307	99	99
	MSO	1	% v/v	mpost		
	UAN	1.5	qt/a	mpost		
				Mean =	99	99
4	Bicep II Magnum	2.1	qt/a	pre 104	99	99
	Callisto	3	oz/a	mpost 208	99	95
	Aatrex	0.5	lb ai/a	mpost 309	99	90
	COC	1	% v/v	mpost		
	UAN	2.5	% v/v	mpost		
				Mean =	99	95
5	Resolve	1	oz/a	pre 105	99	99
	Balance Pro	1	oz/a	pre 209	99	90
	Laudis	3	oz/a	mpost 310	99	90
	Aatrex	0.5	lb ai/a	mpost		
	COC	1	% v/v	mpost		
	UAN	1.5	qt/a	mpost		
				Mean =	99	93
6	Laudis	2	oz/a	mpost 106	99	90
	Liberty	32	oz/a	mpost 205	99	99
	AMS	8.5	lb/100 gal	mpost 303	85	80
				Mean =	94	90
7	Laudis	3	oz/a	mpost 107	99	99
	Roundup Original Max	22	oz/a	mpost 201	95	99
	AMS	8.5	lb/100 gal	mpost 302	99	95
				Mean =	98	98
8	Laudis	3	oz/a	epost 108	80	80
	Accent	0.33	oz/a	epost 203	90	80
	MSO	1	% v/v	epost 305	85	75
	UAN	1.5	qt/a	epost		
				Mean =	85	78
9	Laudis	3	oz/a	epost 109	80	80
	MSO	1	% v/v	epost 206	80	80
	UAN	1.5	qt/a	epost 304	95	80
				Mean =	85	80

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Weed Code					ABUTH	SETVI
Crop Code					ZEAMX	ZEAMX
Rating Data Type					CONTROL	CONTROL
Rating Unit					%	%
Rating Date					2/Aug/2007	2/Aug/2007
Trt No.	Treatment Name	Rate	Unit	Grow Stg Plot	16	17
10	Laudis	3	oz/a	epost 110	95	90
	Aatrex	1	lb ai/a	epost 207	95	90
	COC	1	% v/v	epost 308	90	80
	UAN	1.5	qt/a	epost		
				Mean =	93	87

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## Tembotrione based herbicide programs

Trial ID: L0712

Study Dir.: Kevin Horky

Location: Havelock

Investigator: Dr. Mark Bernards

Weed Code				AMAPA ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ZEAMX PHYCHL %	HELAN ZEAMX CONTROL %
Crop Code				4/Jun/2007	4/Jun/2007	4/Jun/2007	4/Jun/2007	5/Jun/2007	19/Jun/2007
Rating Data Type									
Rating Unit									
Rating Date									
Trt	Treatment	Rate	Grow						
No.	Name	Unit	Stg	1	2	3	4	5	6
1	Check								0 b
2	Balance Pro	1.5 oz/a	pre	82 b	90 a	90 b	77 a		99 a
	Laudis	3 oz/a	mpost						
	Aatrex	1 lb ai/a	mpost						
	COC	1 % v/v	mpost						
	UAN	1.5 qt/a	mpost						
3	Balance Pro	1.5 oz/a	pre	99 a	96 a	99 a	96 a		99 a
	Aatrex	1 lb ai/a	pre						
	Laudis	3 oz/a	mpost						
	MSO	1 % v/v	mpost						
	UAN	1.5 qt/a	mpost						
4	Bicep II Magnum	2.1 qt/a	pre	96 a	95 a	82 c	83 a		99 a
	Callisto	3 oz/a	mpost						
	Aatrex	0.5 lb ai/a	mpost						
	COC	1 % v/v	mpost						
	UAN	2.5 % v/v	mpost						
5	Resolve	1 oz/a	pre	96 a	88 a	92 b	71 a		99 a
	Balance Pro	1 oz/a	pre						
	Laudis	3 oz/a	mpost						
	Aatrex	0.5 lb ai/a	mpost						
	COC	1 % v/v	mpost						
	UAN	1.5 qt/a	mpost						
6	Laudis	2 oz/a	mpost						98 a
	Liberty	32 oz/a	mpost						
	AMS	8.5 lb/100 gal	mpost						
7	Laudis	3 oz/a	mpost						99 a
	Roundup Original Max	22 oz/a	mpost						
	AMS	8.5 lb/100 gal	mpost						
8	Laudis	3 oz/a	epost					7 a	91 a
	Accent	0.33 oz/a	epost						
	MSO	1 % v/v	epost						
	UAN	1.5 qt/a	epost						
9	Laudis	3 oz/a	epost					8 a	90 a
	MSO	1 % v/v	epost						
	UAN	1.5 qt/a	epost						
10	Laudis	3 oz/a	epost					13 a	96 a
	Aatrex	1 lb ai/a	epost						
	COC	1 % v/v	epost						
	UAN	1.5 qt/a	epost						
LSD (P=.05)				7.9	7.7	6.0	32.8	9.7	8.6
Standard Deviation				3.9	3.9	3.0	16.4	3.7	5.0
CV				4.21	4.19	3.32	20.08	40.66	5.73
Grand Mean				93.33	92.33	90.58	81.67	9.17	86.97
Bartlett's X2				3.815	1.392	0.871	5.562	1.181	4.813
P(Bartlett's X2)				0.148	0.707	0.351	0.135	0.554	0.186
Replicate F				1.460	0.941	1.615	11.192	4.650	2.980
Replicate Prob(F)				0.3044	0.4412	0.2746	0.0094	0.1205	0.0762
Treatment F				12.036	2.865	16.822	1.258	1.950	114.036
Treatment Prob(F)				0.0060	0.1262	0.0025	0.3696	0.2867	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.

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Weed Code				AMAPA ZIAMX CONTROL %	ABUTH ZIAMX CONTROL %	SETVI ZIAMX CONTROL %	HELAN ZIAMX CONTROL %	AMAPA ZIAMX CONTROL %	ABUTH ZIAMX CONTROL %	
Crop Code				19/Jun/2007	19/Jun/2007	19/Jun/2007	3/Jul/2007	3/Jul/2007	3/Jul/2007	
Rating Data Type										
Rating Unit										
Rating Date										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	7	8	9	10	11	12
1	Check				0 e	0 b	33 a	0 b	0 d	0 b
2	Balance Pro	1.5	oz/a	pre	99 a	99 a	96 a	99 a	99 a	99 a
	Laudis	3	oz/a	mpost						
	Aatrex	1	lb ai/a	mpost						
	COC	1	% v/v	mpost						
	UAN	1.5	qt/a	mpost						
3	Balance Pro	1.5	oz/a	pre	99 a	98 a	99 a	99 a	99 a	98 a
	Aatrex	1	lb ai/a	pre						
	Laudis	3	oz/a	mpost						
	MSO	1	% v/v	mpost						
	UAN	1.5	qt/a	mpost						
4	Bicep II Magnum	2.1	qt/a	pre	99 a	99 a	95 a	99 a	99 a	99 a
	Callisto	3	oz/a	mpost						
	Aatrex	0.5	lb ai/a	mpost						
	COC	1	% v/v	mpost						
	UAN	2.5	% v/v	mpost						
5	Resolve	1	oz/a	pre	99 a	99 a	93 a	99 a	99 a	99 a
	Balance Pro	1	oz/a	pre						
	Laudis	3	oz/a	mpost						
	Aatrex	0.5	lb ai/a	mpost						
	COC	1	% v/v	mpost						
	UAN	1.5	qt/a	mpost						
6	Laudis	2	oz/a	mpost	70 d	91 a	93 a	98 a	57 c	90 a
	Liberty	32	oz/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
7	Laudis	3	oz/a	mpost	90 b	90 a	96 a	99 a	90 a	90 a
	Roundup Original Max	22	oz/a	mpost						
	AMS	8.5	lb/100 gal	mpost						
8	Laudis	3	oz/a	epost	88 b	90 a	63 a	88 a	80 b	87 a
	Accent	0.33	oz/a	epost						
	MSO	1	% v/v	epost						
	UAN	1.5	qt/a	epost						
9	Laudis	3	oz/a	epost	83 c	82 a	88 a	86 a	78 b	82 a
	MSO	1	% v/v	epost						
	UAN	1.5	qt/a	epost						
10	Laudis	3	oz/a	epost	98 a	95 a	88 a	96 a	98 a	95 a
	Aatrex	1	lb ai/a	epost						
	COC	1	% v/v	epost						
	UAN	1.5	qt/a	epost						
LSD (P=.05)					2.6	12.4	45.8	12.5	8.2	13.3
Standard Deviation					1.5	7.2	26.7	7.3	4.8	7.8
CV					1.8	8.55	31.63	8.43	5.99	9.28
Grand Mean					82.53	84.23	84.47	86.3	79.87	83.73
Bartlett's X2					0.12	8.747	34.883	7.303	3.956	7.887
P(Bartlett's X2)					0.942	0.068	0.001*	0.063	0.266	0.096
Replicate F					0.917	0.812	0.223	2.814	1.793	1.071
Replicate Prob(F)					0.4178	0.4597	0.8020	0.0864	0.1949	0.3635
Treatment F					1257.970	52.412	1.810	53.462	128.222	44.812
Treatment Prob(F)					0.0001	0.0001	0.1357	0.0001	0.0001	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				SETVI ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	AMAPA ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %
Crop Code				3/Jul/2007	2/Aug/2007	2/Aug/2007	2/Aug/2007	2/Aug/2007
Rating Data Type								
Rating Unit								
Rating Date								
Trt No.	Treatment Name	Rate	Grow Stg	13	14	15	16	17
1	Check			0 c	0 b	0 d	0 c	0 e
2	Balance Pro	1.5 oz/a	pre	95 ab	99 a	95 a	99 a	96 ab
	Laudis	3 oz/a	mpost					
	Aatrex	1 lb ai/a	mpost					
	COC	1 % v/v	mpost					
	UAN	1.5 qt/a	mpost					
3	Balance Pro	1.5 oz/a	pre	99 a	99 a	96 a	99 a	99 a
	Aatrex	1 lb ai/a	pre					
	Laudis	3 oz/a	mpost					
	MSO	1 % v/v	mpost					
	UAN	1.5 qt/a	mpost					
4	Bicep II Magnum	2.1 qt/a	pre	95 ab	99 a	99 a	99 a	95 abc
	Callisto	3 oz/a	mpost					
	Aatrex	0.5 lb ai/a	mpost					
	COC	1 % v/v	mpost					
	UAN	2.5 % v/v	mpost					
5	Resolve	1 oz/a	pre	90 ab	99 a	98 a	99 a	93 abc
	Balance Pro	1 oz/a	pre					
	Laudis	3 oz/a	mpost					
	Aatrex	0.5 lb ai/a	mpost					
	COC	1 % v/v	mpost					
	UAN	1.5 qt/a	mpost					
6	Laudis	2 oz/a	mpost	90 ab	99 a	63 c	94 ab	90 bc
	Liberty	32 oz/a	mpost					
	AMS	8.5 lb/100 gal	mpost					
7	Laudis	3 oz/a	mpost	98 ab	99 a	95 a	98 a	98 ab
	Roundup Original Max	22 oz/a	mpost					
	AMS	8.5 lb/100 gal	mpost					
8	Laudis	3 oz/a	epost	88 ab	73 a	77 b	85 b	78 d
	Accent	0.33 oz/a	epost					
	MSO	1 % v/v	epost					
	UAN	1.5 qt/a	epost					
9	Laudis	3 oz/a	epost	83 b	77 a	82 b	85 b	80 d
	MSO	1 % v/v	epost					
	UAN	1.5 qt/a	epost					
10	Laudis	3 oz/a	epost	83 b	93 a	92 a	93 ab	87 c
	Aatrex	1 lb ai/a	epost					
	COC	1 % v/v	epost					
	UAN	1.5 qt/a	epost					
LSD (P=.05)				9.4	15.8	5.3	7.6	6.1
Standard Deviation				5.5	9.2	3.1	4.4	3.6
CV				6.66	10.99	3.86	5.22	4.37
Grand Mean				82.03	83.7	79.63	85.13	81.5
Bartlett's X2				6.931	2.262	3.477	4.407	4.407
P(Bartlett's X2)				0.436	0.323	0.627	0.354	0.622
Replicate F				9.482	3.040	0.945	0.052	7.701
Replicate Prob(F)				0.0015	0.0729	0.4071	0.9492	0.0038
Treatment F				86.444	34.093	289.761	140.349	205.969
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	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.