

University of Nebraska

Roundup Weathermax + Post Corn Herbicides

Trial ID: L0713
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.	HELAN	Common sunflower	Helianthus annuus
2.	AMAPA	Amaranth, Palmer	Amaranthus palmeri
3.	ABUTH	Velvetleaf	Abutilon theophrasti
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
Application Date:	2/May/2007	8/Jun/2007
Time of Day:	3:30 pm	9:00 am
Application Method:	Spray	Spray
Application Timing:	pre	lpost
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	75 F	65 F
% Relative Humidity:	20	29
Wind Velocity, Unit:	10 mph	10 mph
Dew Presence (Y/N):	n	n
Soil Temp., Unit:	11 C	14 C
Soil Moisture:	good	good
% Cloud Cover:	40	15

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CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX
Stage Scale:	pre	V6
Height, Unit:		22 in

WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	IH cub	IH cub
Operating Pressure:	30	30
Nozzle Type:	XR	Turbo Tee
Nozzle Size:	11010	11015
Nozzle Spacing, Unit:	15 in	15 in
Nozzles/Row:	2	2
Boom Length, Unit:	15 ft	10 ft
Boom Height, Unit:	20 in	30 in
Ground Speed, Unit:	3 mph	3 mph
Carrier:	water	water
Spray Volume, Unit:	10 gpa	15 gpa
Propellant:	air	air

Trial Comments

Monsanto Protocol #s 46-03

Data Required

% Weed ctrl at post application timing
 % Weed ctrl 14,28, & 120 DAT
 Crop Injury 7,14 DAT
 Yield bu/a, moisture

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					HELAN ZEAMX CONTROL %	AMAPA ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	
					22/Jun/2007	22/Jun/2007	22/Jun/2007	22/Jun/2007	3/Jul/2007	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	1	2	3	4	5
1	Harness Xtra	1.8	lb ai/a	pre	101	99	99	99	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	215	99	99	95	99	99
	AMS	2	% w/w	lpost	306	99	99	99	99	99
					Mean =	99	99	98	99	99
2	Harness Xtra	1.8	lb ai/a	pre	102	99	99	99	99	99
	Roundup Weathermax	1.125	lb ae/a	lpost	209	99	99	99	99	95
	AMS	2	% w/w	lpost	313	99	99	99	99	99
					Mean =	99	99	99	99	98
3	Harness Xtra	1.8	lb ai/a	pre	103	95	99	99	60	95
	Callisto	0.0625	lb ai/a	lpost	202	90	99	99	60	85
	COC	1	% v/v	lpost	315	99	99	99	50	99
	AMS	1	% w/w	lpost						
					Mean =	95	99	99	57	93
4	Harness Xtra	1.8	lb ai/a	pre	104	99	99	99	50	99
	Callisto	0.094	lb ai/a	lpost	206	95	95	95	75	90
	COC	1	% v/v	lpost	314	85	95	95	50	80
	AMS	1	% w/w	lpost						
					Mean =	93	96	96	58	90
5	Harness Xtra	1.8	lb ai/a	pre	105	99	99	95	99	99
	Callisto	0.0625	lb ai/a	lpost	203	99	99	99	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	310	99	99	99	99	99
	AMS	1	% w/w	lpost						
					Mean =	99	99	98	99	99
6	Harness Xtra	1.8	lb ai/a	pre	106	80	99	95	60	75
	Impact	0.016	lb ai/a	lpost	213	80	95	95	80	75
	COC	1	% v/v	lpost	305	99	95	95	65	75
	AMS	1	% w/w	lpost						
					Mean =	86	96	95	68	75
7	Harness Xtra	1.8	lb ai/a	pre	107	85	95	95	60	80
	Impact	0.011	lb ai/a	lpost	201	70	95	95	80	70
	COC	1	% v/v	lpost	312	70	99	99	65	60
	AMS	1	% w/w	lpost						
					Mean =	75	96	96	68	70
8	Harness Xtra	1.8	lb ai/a	pre	108	99	99	95	99	99
	Impact	0.011	lb ai/a	lpost	211	99	99	95	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	309	99	99	99	99	99
	AMS	1	% w/w	lpost						
					Mean =	99	99	96	99	99
9	Harness Xtra	1.8	lb ai/a	pre	109	95	99	95	70	95
	Status	0.095	lb ai/a	lpost	208	95	95	95	90	90
	COC	1	% v/v	lpost	304	80	99	99	60	90
	AMS	1	% w/w	lpost						
					Mean =	90	98	96	73	92

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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						22/Jun/2007	22/Jun/2007	22/Jun/2007	22/Jun/2007	3/Jul/2007
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	1	2	3	4	5
10	Harness Xtra	1.8	lb ai/a	pre	110	99	99	99	85	99
	Status	0.19	lb ai/a	lpost	207	99	99	99	85	99
	COC	1	% v/v	lpost	311	99	99	99	60	99
	AMS	1	% w/w	lpost						
	Mean =					99	99	99	77	99
11	Harness Xtra	1.8	lb ai/a	pre	111	99	99	95	99	99
	Status	0.095	lb ai/a	lpost	210	99	99	99	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	302	99	99	99	99	99
	AMS	1	% w/w	lpost						
	Mean =					99	99	98	99	99
12	Harness Xtra	1.8	lb ai/a	pre	112	99	99	90	75	99
	Hornet	0.15	lb ai/a	lpost	205	95	95	95	75	90
	COC	1	% v/v	lpost	303	95	99	99	55	99
	AMS	1	% w/w	lpost						
	Mean =					96	98	95	68	96
13	Harness Xtra	1.8	lb ai/a	pre	113	99	99	90	70	99
	Hornet	0.2	lb ai/a	lpost	214	95	95	90	70	95
	COC	1	% v/v	lpost	301	95	99	99	60	95
	AMS	1	% w/w	lpost						
	Mean =					96	98	93	67	96
14	Harness Xtra	1.8	lb ai/a	pre	114	99	99	99	99	99
	Hornet	0.15	lb ai/a	lpost	212	99	99	95	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	307	99	99	99	99	99
	AMS	1	% w/w	lpost						
	Mean =					99	99	98	99	99
15	check				115	0	0	0	0	0
					204	0	0	0	0	0
					308	0	0	0	0	0
	Mean =					0	0	0	0	0

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Weed Code					AMAPA	ABUTH	SETVI	ABUTH	HELAN	AMAPA	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit					%	%	%	%	%	%	
Rating Date					3/Jul/2007	3/Jul/2007	3/Jul/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007	
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	6	7	8	9	10	11
1	Harness Xtra	1.8	lb ai/a	pre	101	99	99	99	99	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	215	99	95	99	99	99	99
	AMS	2	% w/w	lpost	306	99	99	99	99	99	95
	Mean =					99	98	99	99	99	98
2	Harness Xtra	1.8	lb ai/a	pre	102	99	99	99	99	99	95
	Roundup Weathermax	1.125	lb ae/a	lpost	209	99	99	99	99	99	95
	AMS	2	% w/w	lpost	313	99	99	99	99	99	95
	Mean =					99	99	99	99	99	95
3	Harness Xtra	1.8	lb ai/a	pre	103	99	99	60	99	95	95
	Callisto	0.0625	lb ai/a	lpost	202	99	99	50	99	90	95
	COC	1	% v/v	lpost	315	99	99	40	99	99	95
	AMS	1	% w/w	lpost							
	Mean =					99	99	50	99	95	95
4	Harness Xtra	1.8	lb ai/a	pre	104	99	99	50	99	90	95
	Callisto	0.094	lb ai/a	lpost	206	95	95	70	99	90	95
	COC	1	% v/v	lpost	314	95	95	40	99	90	95
	AMS	1	% w/w	lpost							
	Mean =					96	96	53	99	90	95
5	Harness Xtra	1.8	lb ai/a	pre	105	99	95	99	99	99	99
	Callisto	0.0625	lb ai/a	lpost	203	99	99	99	99	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	310	99	99	99	99	99	99
	AMS	1	% w/w	lpost							
	Mean =					99	98	99	99	99	99
6	Harness Xtra	1.8	lb ai/a	pre	106	99	95	60	90	80	90
	Impact	0.016	lb ai/a	lpost	213	95	95	75	90	85	90
	COC	1	% v/v	lpost	305	95	95	60	90	80	85
	AMS	1	% w/w	lpost							
	Mean =					96	95	65	90	82	88
7	Harness Xtra	1.8	lb ai/a	pre	107	95	95	60	85	60	90
	Impact	0.011	lb ai/a	lpost	201	95	95	80	85	60	90
	COC	1	% v/v	lpost	312	99	99	60	80	60	90
	AMS	1	% w/w	lpost							
	Mean =					96	96	67	83	60	90
8	Harness Xtra	1.8	lb ai/a	pre	108	99	95	99	95	90	95
	Impact	0.011	lb ai/a	lpost	211	99	95	99	95	90	90
	Roundup Weathermax	0.75	lb ae/a	lpost	309	99	99	99	95	90	95
	AMS	1	% w/w	lpost							
	Mean =					99	96	99	95	90	93
9	Harness Xtra	1.8	lb ai/a	pre	109	99	95	60	99	90	90
	Status	0.095	lb ai/a	lpost	208	90	95	85	95	90	85
	COC	1	% v/v	lpost	304	99	99	50	95	90	90
	AMS	1	% w/w	lpost							
	Mean =					96	96	65	96	90	88

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Weed Code						AMAPA	ABUTH	SETVI	ABUTH	HELAN	AMAPA
Crop Code						ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit						%	%	%	%	%	%
Rating Date						3/Jul/2007	3/Jul/2007	3/Jul/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	6	7	8	9	10	11
10	Harness Xtra	1.8	lb ai/a	pre	110	99	99	85	99	99	95
	Status	0.19	lb ai/a	lpost	207	99	99	70	99	99	99
	COC	1	% v/v	lpost	311	99	99	50	99	99	95
	AMS	1	% w/w	lpost							
	Mean =					99	99	68	99	99	96
11	Harness Xtra	1.8	lb ai/a	pre	111	99	95	99	99	99	99
	Status	0.095	lb ai/a	lpost	210	99	99	99	99	99	99
	Roundup Weathermax	0.75	lb ae/a	lpost	302	99	99	99	99	99	99
	AMS	1	% w/w	lpost							
	Mean =					99	98	99	99	99	99
12	Harness Xtra	1.8	lb ai/a	pre	112	99	90	70	99	95	90
	Hornet	0.15	lb ai/a	lpost	205	95	95	70	99	95	90
	COC	1	% v/v	lpost	303	99	99	50	99	95	90
	AMS	1	% w/w	lpost							
	Mean =					98	95	63	99	95	90
13	Harness Xtra	1.8	lb ai/a	pre	113	99	90	70	95	95	90
	Hornet	0.2	lb ai/a	lpost	214	95	90	60	95	95	90
	COC	1	% v/v	lpost	301	99	99	50	95	95	90
	AMS	1	% w/w	lpost							
	Mean =					98	93	60	95	95	90
14	Harness Xtra	1.8	lb ai/a	pre	114	99	99	99	95	99	95
	Hornet	0.15	lb ai/a	lpost	212	99	95	99	95	99	95
	Roundup Weathermax	0.75	lb ae/a	lpost	307	99	99	99	95	99	95
	AMS	1	% w/w	lpost							
	Mean =					99	98	99	95	99	95
15	check				115	0	0	0	0	0	0
					204	0	0	0	0	0	0
					308	0	0	0	0	0	0
	Mean =					0	0	0	0	0	0

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Weed Code						SETVI			
Crop Code						ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type						CONTROL	YIELD	MOICON	YIELD
Rating Unit						%	LB	%	bu/ac
Rating Date						1/Oct/2007	24/Oct/2007	24/Oct/2007	24/Oct/2007
ARM Action Codes									TY1
# Subsamples, Dec.									1
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	12	13	14	15
1	Harness Xtra	1.8	lb ai/a	pre	101	95	58	17	145.9
	Roundup Weathermax	0.75	lb ae/a	lpost	215	95	48	16	123.2
	AMS	2	% w/w	lpost	306	95	56	16	144.3
	Mean =					95	54	16	137.8
2	Harness Xtra	1.8	lb ai/a	pre	102	95	58	16	147.8
	Roundup Weathermax	1.125	lb ae/a	lpost	209	95	54	16	137.3
	AMS	2	% w/w	lpost	313	95	56	16	144.3
	Mean =					95	56	16	143.1
3	Harness Xtra	1.8	lb ai/a	pre	103	70	54	16	137.1
	Callisto	0.0625	lb ai/a	lpost	202	70	55	16	139.9
	COC	1	% v/v	lpost	315	50	55	16	139.8
	AMS	1	% w/w	lpost					
	Mean =					63	54	16	138.9
4	Harness Xtra	1.8	lb ai/a	pre	104	60	51	16	131.2
	Callisto	0.094	lb ai/a	lpost	206	70	55	17	138.9
	COC	1	% v/v	lpost	314	50	54	16	136.8
	AMS	1	% w/w	lpost					
	Mean =					60	53	16	135.6
5	Harness Xtra	1.8	lb ai/a	pre	105	95	53	16	134.8
	Callisto	0.0625	lb ai/a	lpost	203	95	52	16	132.5
	Roundup Weathermax	0.75	lb ae/a	lpost	310	95	51	16	131.1
	AMS	1	% w/w	lpost					
	Mean =					95	52	16	132.8
6	Harness Xtra	1.8	lb ai/a	pre	106	60	48	17	121.0
	Impact	0.016	lb ai/a	lpost	213	70	49	17	123.5
	COC	1	% v/v	lpost	305	60	57	17	144.4
	AMS	1	% w/w	lpost					
	Mean =					63	51	17	129.6
7	Harness Xtra	1.8	lb ai/a	pre	107	60	35	16	89.1
	Impact	0.011	lb ai/a	lpost	201	80	54	16	138.4
	COC	1	% v/v	lpost	312	60	47	16	119.0
	AMS	1	% w/w	lpost					
	Mean =					67	45	16	115.5
8	Harness Xtra	1.8	lb ai/a	pre	108	95	56	16	143.2
	Impact	0.011	lb ai/a	lpost	211	95	53	16	134.8
	Roundup Weathermax	0.75	lb ae/a	lpost	309	95	55	16	140.6
	AMS	1	% w/w	lpost					
	Mean =					95	55	16	139.5
9	Harness Xtra	1.8	lb ai/a	pre	109	75	50	16	127.7
	Status	0.095	lb ai/a	lpost	208	85	52	16	133.9
	COC	1	% v/v	lpost	304	70	52	16	133.2
	AMS	1	% w/w	lpost					
	Mean =					77	51	16	131.6

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Weed Code						SETVI			
Crop Code						ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type						CONTROL	YIELD	MOICON	YIELD
Rating Unit						%	LB	%	bu/ac
Rating Date						1/Oct/2007	24/Oct/2007	24/Oct/2007	24/Oct/2007
ARM Action Codes									TY1
# Subsamples, Dec.									1
Trt	Treatment	Rate	Unit	Grow	Plot	12	13	14	15
No.	Name			Stg					
10	Harness Xtra	1.8	lb ai/a	pre	110	90	47	16	121.5
	Status	0.19	lb ai/a	lpost	207	70	53	17	134.2
	COC	1	% v/v	lpost	311	60	47	16	119.0
	AMS	1	% w/w	lpost					
	Mean =					73	49	16	124.9
11	Harness Xtra	1.8	lb ai/a	pre	111	95	53	16	135.0
	Status	0.095	lb ai/a	lpost	210	95	55	16	139.6
	Roundup Weathermax	0.75	lb ae/a	lpost	302	95	58	16	146.8
	AMS	1	% w/w	lpost					
	Mean =					95	55	16	140.5
12	Harness Xtra	1.8	lb ai/a	pre	112	80	54	17	136.5
	Hornet	0.15	lb ai/a	lpost	205	70	51	16	129.0
	COC	1	% v/v	lpost	303	70	56	16	144.5
	AMS	1	% w/w	lpost					
	Mean =					73	54	16	136.7
13	Harness Xtra	1.8	lb ai/a	pre	113	80	50	17	128.4
	Hornet	0.2	lb ai/a	lpost	214	60	53	16	135.4
	COC	1	% v/v	lpost	301	60	54	17	136.3
	AMS	1	% w/w	lpost					
	Mean =					67	52	17	133.4
14	Harness Xtra	1.8	lb ai/a	pre	114	95	53	16	135.7
	Hornet	0.15	lb ai/a	lpost	212	95	57	16	145.9
	Roundup Weathermax	0.75	lb ae/a	lpost	307	95	52	16	132.2
	AMS	1	% w/w	lpost					
	Mean =					95	54	16	137.9
15	check				115	0	2	18	5.3
					204	0	2	17	5.3
					308	0	2	17	6.1
	Mean =					0	2	17	5.6
Column 15: TY1 = 2.592857*[13]*(100-[14])/85									

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Roundup Weathermax + Post Corn Herbicides

Trial ID: L0713

Study Dir.: Kevin Horky

Location: Havelock

Investigator: Dr. Mark Bernards

				HELAN ZEAMX CONTROL %	AMAPA ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	AMAPA ZEAMX CONTROL %	
				22/Jun/2007	22/Jun/2007	22/Jun/2007	22/Jun/2007	3/Jul/2007	3/Jul/2007	
Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6
1	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	98 a	99 a	99 a	99 a
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
2	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	99 a	99 a	98 a	99 a
	Roundup Weathermax	1.125	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
3	Harness Xtra	1.8	lb ai/a	pre	95 a	99 a	99 a	57 c	93 a	99 a
	Callisto	0.0625	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
4	Harness Xtra	1.8	lb ai/a	pre	93 a	96 a	96 a	58 c	90 a	96 a
	Callisto	0.094	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
5	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	98 a	99 a	99 a	99 a
	Callisto	0.0625	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
6	Harness Xtra	1.8	lb ai/a	pre	86 a	96 a	95 a	68 bc	75 b	96 a
	Impact	0.016	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
7	Harness Xtra	1.8	lb ai/a	pre	75 b	96 a	96 a	68 bc	70 b	96 a
	Impact	0.011	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
8	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	96 a	99 a	99 a	99 a
	Impact	0.011	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
9	Harness Xtra	1.8	lb ai/a	pre	90 a	98 a	96 a	73 bc	92 a	96 a
	Status	0.095	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
10	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	99 a	77 b	99 a	99 a
	Status	0.19	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
11	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	98 a	99 a	99 a	99 a
	Status	0.095	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
12	Harness Xtra	1.8	lb ai/a	pre	96 a	98 a	95 a	68 bc	96 a	98 a
	Hornet	0.15	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
13	Harness Xtra	1.8	lb ai/a	pre	96 a	98 a	93 a	67 bc	96 a	98 a
	Hornet	0.2	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						

University of Nebraska

Weed Code					HELAN	AMAPA	ABUTH	SETVI	HELAN	AMAPA
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%	%
Rating Date					22/Jun/2007	22/Jun/2007	22/Jun/2007	22/Jun/2007	3/Jul/2007	3/Jul/2007
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	6
14	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	98 a	99 a	99 a	99 a
	Hornet	0.15	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
15	check				0 c	0 b	0 b	0 d	0 c	0 b
LSD (P=.05)					8.1	2.2	3.6	11.7	6.9	2.9
Standard Deviation					4.9	1.3	2.2	7.0	4.1	1.7
CV					5.52	1.45	2.38	9.31	4.74	1.89
Grand Mean					88.31	91.6	90.38	75.38	86.89	91.49
Bartlett's X2					6.902	0.0	4.094	3.192	7.812	2.781
P(Bartlett's X2)					0.33	1.00	0.905	0.867	0.252	0.734
Replicate F					0.877	4.261	5.371	7.660	3.005	4.042
Replicate Prob(F)					0.4273	0.0242	0.0106	0.0022	0.0657	0.0287
Treatment F					80.963	1101.310	405.516	43.083	116.430	647.527
Treatment Prob(F)					0.0001	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.

University of Nebraska

Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.					ABUTH ZEAMX CONTROL %	SETVI ZEAMX CONTROL %	ABUTH ZEAMX CONTROL %	HELAN ZEAMX CONTROL %	AMAPA ZEAMX CONTROL %	SETVI ZEAMX CONTROL %
					3/Jul/2007	3/Jul/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007
Trt No.	Treatment Name	Rate	Unit	Grow Stg	7	8	9	10	11	12
1	Harness Xtra	1.8	lb ai/a	pre	98 a	99 a	99 a	99 a	98 a	95 a
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
2	Harness Xtra	1.8	lb ai/a	pre	99 a	99 a	99 a	99 a	95 ab	95 a
	Roundup Weathermax	1.125	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
3	Harness Xtra	1.8	lb ai/a	pre	99 a	50 b	99 a	95 b	95 ab	63 b
	Callisto	0.0625	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
4	Harness Xtra	1.8	lb ai/a	pre	96 a	53 b	99 a	90 c	95 ab	60 b
	Callisto	0.094	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
5	Harness Xtra	1.8	lb ai/a	pre	98 a	99 a	99 a	99 a	99 a	95 a
	Callisto	0.0625	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
6	Harness Xtra	1.8	lb ai/a	pre	95 a	65 b	90 c	82 d	88 d	63 b
	Impact	0.016	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
7	Harness Xtra	1.8	lb ai/a	pre	96 a	67 b	83 d	60 e	90 cd	67 b
	Impact	0.011	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
8	Harness Xtra	1.8	lb ai/a	pre	96 a	99 a	95 b	90 c	93 bc	95 a
	Impact	0.011	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
9	Harness Xtra	1.8	lb ai/a	pre	96 a	65 b	96 b	90 c	88 d	77 b
	Status	0.095	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
10	Harness Xtra	1.8	lb ai/a	pre	99 a	68 b	99 a	99 a	96 ab	73 b
	Status	0.19	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
11	Harness Xtra	1.8	lb ai/a	pre	98 a	99 a	99 a	99 a	99 a	95 a
	Status	0.095	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						
12	Harness Xtra	1.8	lb ai/a	pre	95 a	63 b	99 a	95 b	90 cd	73 b
	Hornet	0.15	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
13	Harness Xtra	1.8	lb ai/a	pre	93 a	60 b	95 b	95 b	90 cd	67 b
	Hornet	0.2	lb ai/a	lpost						
	COC	1	% v/v	lpost						
	AMS	1	% w/w	lpost						
14	Harness Xtra	1.8	lb ai/a	pre	98 a	99 a	95 b	99 a	95 ab	95 a
	Hornet	0.15	lb ai/a	lpost						
	Roundup Weathermax	0.75	lb ae/a	lpost						
	AMS	1	% w/w	lpost						

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Weed Code	ABUTH	SETVI	ABUTH	HELAN	AMAPA	SETVI
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Rating Date	3/Jul/2007	3/Jul/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007
ARM Action Codes						
# Subsamples, Dec.						
Trt Treatment	Rate	Grow				
No. Name	Rate	Unit	Stg			
15 check	0	b		0	f	
LSD (P=.05)	3.6	13.8	1.6	2.4	2.6	11.5
Standard Deviation	2.2	8.3	0.9	1.4	1.6	6.9
CV	2.38	11.41	1.04	1.65	1.79	9.24
Grand Mean	90.38	72.38	89.78	86.02	87.47	74.22
Bartlett's X2	4.094	1.995	0.097	0.379	0.219	2.922
P(Bartlett's X2)	0.905	0.96	0.755	0.538	0.994	0.892
Replicate F	5.371	6.658	1.542	0.176	0.572	4.269
Replicate Prob(F)	0.0106	0.0043	0.2317	0.8397	0.5709	0.0241
Treatment F	405.516	33.781	2170.433	995.003	733.771	39.498
Treatment Prob(F)	0.0001	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.

University of Nebraska

Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.					ZEAMX YIELD LB 24/Oct/2007	ZEAMX MOICON % 24/Oct/2007	ZEAMX YIELD bu/ac 24/Oct/2007 TY1 1
Trt No.	Treatment Name	Rate	Unit	Grow Stg	13	14	15
1	Harness Xtra	1.8	lb ai/a	pre	54 a	16 b	137.8 ab
	Roundup Weathermax	0.75	lb ae/a	lpost			
	AMS	2	% w/w	lpost			
2	Harness Xtra	1.8	lb ai/a	pre	56 a	16 b	143.1 a
	Roundup Weathermax	1.125	lb ae/a	lpost			
	AMS	2	% w/w	lpost			
3	Harness Xtra	1.8	lb ai/a	pre	54 a	16 b	138.9 ab
	Callisto	0.0625	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
4	Harness Xtra	1.8	lb ai/a	pre	53 a	16 b	135.6 ab
	Callisto	0.094	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
5	Harness Xtra	1.8	lb ai/a	pre	52 a	16 b	132.8 ab
	Callisto	0.0625	lb ai/a	lpost			
	Roundup Weathermax	0.75	lb ae/a	lpost			
	AMS	1	% w/w	lpost			
6	Harness Xtra	1.8	lb ai/a	pre	51 a	17 b	129.6 ab
	Impact	0.016	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
7	Harness Xtra	1.8	lb ai/a	pre	45 a	16 b	115.5 b
	Impact	0.011	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
8	Harness Xtra	1.8	lb ai/a	pre	55 a	16 b	139.5 ab
	Impact	0.011	lb ai/a	lpost			
	Roundup Weathermax	0.75	lb ae/a	lpost			
	AMS	1	% w/w	lpost			
9	Harness Xtra	1.8	lb ai/a	pre	51 a	16 b	131.6 ab
	Status	0.095	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
10	Harnes Xtra	1.8	lb ai/a	pre	49 a	16 b	124.9 ab
	Status	0.19	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
11	Harness Xtra	1.8	lb ai/a	pre	55 a	16 b	140.5 ab
	Status	0.095	lb ai/a	lpost			
	Roundup Weathermax	0.75	lb ae/a	lpost			
	AMS	1	% w/w	lpost			
12	Harness Xtra	1.8	lb ai/a	pre	54 a	16 b	136.7 ab
	Hornet	0.15	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
13	Harness Xtra	1.8	lb ai/a	pre	52 a	17 b	133.4 ab
	Hornet	0.2	lb ai/a	lpost			
	COC	1	% v/v	lpost			
	AMS	1	% w/w	lpost			
14	Harness Xtra	1.8	lb ai/a	pre	54 a	16 b	137.9 ab
	Hornet	0.15	lb ai/a	lpost			
	Roundup Weathermax	0.75	lb ae/a	lpost			
	AMS	1	% w/w	lpost			

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Weed Code						
Crop Code						
Rating Data Type						
Rating Unit						
Rating Date						
ARM Action Codes						
# Subsamples, Dec.						
Trt Treatment						
No. Name	Rate	Unit	Grow Stg			
15 check				13	14	15
				2 b	17 a	5.6 c
LSD (P=.05)				6.0	0.4	15.15
Standard Deviation				3.6	0.2	9.06
CV				7.3	1.32	7.22
Grand Mean				49.16	16.32	125.57
Bartlett's X2				33.365	10.579	32.696
P(Bartlett's X2)				0.003*	0.646	0.003*
Replicate F				1.238	0.501	1.281
Replicate Prob(F)				0.3053	0.6111	0.2935
Treatment F				41.022	6.225	42.023
Treatment Prob(F)				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.

Column 15: TY1 = 2.592857*[13]*(100-[14])/85
