

University of Nebraska

Harness Applied mid-Post to Corn

Trial ID: L0720
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 120 lbs 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
Application Date:	2/May/2007	4/Jun/2007	8/Jun/2007
Time of Day:	11:30 am	3:00 pm	8:00 am
Application Method:	Spray	Spray	Spray
Application Timing:	pre	mpost	lpost
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	72 F	84 F	62 F
% Relative Humidity:	25	26	29
Wind Velocity, Unit:	8.5 mph	8.5 mph	5 mph
Dew Presence (Y/N):	n	n	n
Soil Temp., Unit:	11 C	15 C	15 C
Soil Moisture:	good	good	good
% Cloud Cover:	30	35	10

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CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX	ZEAMX	ZEAMX
Stage Scale:	pre	V5	V6
Height, Unit:		15 in	20 in

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	HELAN	HELAN	HELAN
Stage Scale:	pre	9 in	6 in
Density, Unit:		10 m2	5 m2
Weed 2 Code, Stage:	AMAPA	AMAPA	AMAPA
Stage Scale:	pre	9 in	5 in
Density, Unit:		15 m2	5 m2
Weed 3 Code, Stage:	ABUTH	ABUTH	ABUTH
Stage Scale:	pre	8 in	5 in
Density, Unit:		5 m2	5 m2
Weed 4 Code, Stage:	SETVI	SETVI	SETVI
Stage Scale:	pre	5 in	2 in
Density, Unit:		5 m2	4 m2

APPLICATION EQUIPMENT

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

Trial Comments

Monsanto protocol 04-02

Data requested

Weed control - prior to post, 14, 120 DAT

Crop Injury - 7DAT

Yield

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Harness Applied mid-Post to Corn

Trial ID: L0720

Study Dir.: Kevin Horkey

Location: Havelock

Investigator: Dr. Mark Bernards

					AMAPA ZEAMX	HELAN ZEAMX	ABUTH ZEAMX	SETVI ZEAMX	AMAPA ZEAMX	
					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
					%	%	%	%	%	
					4/Jun/2007	4/Jun/2007	4/Jun/2007	4/Jun/2007	22/Jun/2007	
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	1	2	3	4	5
1	Harness Xtra	2.1	lb ai/a	pre	101	85	70	60	60	99
	Roundup Original Max	0.75	lb ae/a	mpost	206	95	85	70	90	99
	AMS	2	% w/w	mpost	309	90	80	65	70	95
				Mean =		90	78	65	73	98
2	Harness Xtra	2.1	lb ai/a	pre	102	90	85	85	90	99
	Harness	1.31	lb ai/a	mpost	207	90	80	80	70	99
	Roundup Original Max	0.75	lb ae/a	mpost	307	95	85	70	75	99
	AMS	2	% w/w	mpost						
				Mean =		92	83	78	78	99
3	Harness Xtra	2.1	lb ai/a	pre	103	95	90	70	85	99
	Harness	2.6	lb ai/a	mpost	202	95	90	70	85	99
	Roundup Original Max	0.75	lb ae/a	mpost	308	90	95	65	70	99
	AMS	2	% w/w	mpost						
				Mean =		93	92	68	80	99
4	Harness Xtra	2.1	lb ai/a	pre	104	90	90	70	70	99
	Harness	1.31	lb ai/a	lpost	211	95	90	80	70	99
	Roundup Original Max	0.75	lb ae/a	lpost	301	90	90	70	65	99
	AMS	2	% w/w	lpost						
				Mean =		92	90	73	68	99
5	Harness Xtra	2.1	lb ai/a	pre	105	90	90	75	80	99
	Harness	2.6	lb ai/a	lpost	201	95	90	70	70	99
	Roundup Original Max	0.75	lb ae/a	lpost	310	90	90	70	70	99
	AMS	2	% w/w	lpost						
				Mean =		92	90	72	73	99
6	Harness Xtra	2.1	lb ai/a	pre	106	90	70	80	70	99
	Callisto	0.094	lb ai/a	mpost	210	95	90	80	90	99
	Roundup Original Max	0.75	lb ae/a	mpost	303	95	95	75	80	95
	AMS	2	% w/w	mpost						
				Mean =		93	85	78	80	98
7	Harness Xtra	2.1	lb ai/a	pre	107	95	90	75	70	99
	Status	0.095	lb ai/a	mpost	204	95	90	65	80	99
	Roundup Original Max	0.75	lb ae/a	mpost	306	95	90	70	85	99
	AMS	2	% w/w	mpost						
				Mean =		95	90	70	78	99
8	Harness Xtra	2.1	lb ai/a	pre	108	90	90	80	90	95
	Impact	0.011	lb ai/a	mpost	205	95	95	70	65	99
	Roundup Original Max	0.75	lb ae/a	mpost	304	95	95	80	80	99
	AMS	2	% w/w	mpost						
				Mean =		93	93	77	78	98
9	Harness Xtra	2.3	qt/a	pre	109	95	90	90	95	95
					203	95	90	65	85	95
					311	90	85	90	90	95
				Mean =		93	88	82	90	95

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Weed Code					AMAPA	HELAN	ABUTH	SETVI	AMAPA	
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit					%	%	%	%	%	
Rating Date					4/Jun/2007	4/Jun/2007	4/Jun/2007	4/Jun/2007	22/Jun/2007	
ARM Action Codes										
# Subsamples, Dec.										
Trt	Treatment	Rate	Grow							
No.	Name	Rate	Unit	Stg	Plot	1	2	3	4	5
10	Lexar	3	qt/a	pre	110	99	99	99	99	99
					209	99	99	95	99	99
					305	95	99	99	99	99
				Mean =		98	99	98	99	99
11	Check				111	0	0	0	0	0
					208	0	0	0	0	0
					302	0	0	0	0	0
				Mean =		0	0	0	0	0

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Weed Code					HELAN	ABUTH	SETVI	HELAN	AMAPA	
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	3/Jul/2007	3/Jul/2007	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	Plot	6	7	8	9	10
1	Harness Xtra	2.1	lb ai/a	pre	101	99	95	99	99	99
	Roundup Original Max	0.75	lb ae/a	mpost	206	99	90	90	99	99
	AMS	2	% w/w	mpost	309	99	85	99	99	95
	Mean =					99	90	96	99	98
2	Harness Xtra	2.1	lb ai/a	pre	102	99	95	99	99	99
	Harness	1.31	lb ai/a	mpost	207	99	95	99	99	99
	Roundup Original Max	0.75	lb ae/a	mpost	307	99	95	99	99	99
	AMS	2	% w/w	mpost						
Mean =					99	95	99	99	99	
3	Harness Xtra	2.1	lb ai/a	pre	103	99	90	99	99	99
	Harness	2.6	lb ai/a	mpost	202	95	90	95	95	99
	Roundup Original Max	0.75	lb ae/a	mpost	308	99	95	99	99	99
	AMS	2	% w/w	mpost						
Mean =					98	92	98	98	99	
4	Harness Xtra	2.1	lb ai/a	pre	104	99	95	99	99	99
	Harness	1.31	lb ai/a	lpost	211	99	95	99	99	99
	Roundup Original Max	0.75	lb ae/a	lpost	301	99	90	99	99	99
	AMS	2	% w/w	lpost						
Mean =					99	93	99	99	99	
5	Harness Xtra	2.1	lb ai/a	pre	105	99	95	99	99	99
	Harness	2.6	lb ai/a	lpost	201	95	95	99	95	99
	Roundup Original Max	0.75	lb ae/a	lpost	310	99	99	99	99	99
	AMS	2	% w/w	lpost						
Mean =					98	96	99	98	99	
6	Harness Xtra	2.1	lb ai/a	pre	106	99	99	99	99	99
	Callisto	0.094	lb ai/a	mpost	210	99	95	99	99	99
	Roundup Original Max	0.75	lb ae/a	mpost	303	99	99	99	99	99
	AMS	2	% w/w	mpost						
Mean =					99	98	99	99	99	
7	Harness Xtra	2.1	lb ai/a	pre	107	99	99	99	99	99
	Status	0.095	lb ai/a	mpost	204	99	90	90	99	99
	Roundup Original Max	0.75	lb ae/a	mpost	306	99	90	99	99	99
	AMS	2	% w/w	mpost						
Mean =					99	93	96	99	99	
8	Harness Xtra	2.1	lb ai/a	pre	108	99	99	99	99	95
	Impact	0.011	lb ai/a	mpost	205	99	99	99	99	99
	Roundup Original Max	0.75	lb ae/a	mpost	304	95	99	99	95	95
	AMS	2	% w/w	mpost						
Mean =					98	99	99	98	96	
9	Harness Xtra	2.3	qt/a	pre	109	99	85	80	99	95
					203	85	70	70	85	95
					311	90	85	90	90	95
Mean =					91	80	80	91	95	
10	Lexar	3	qt/a	pre	110	95	99	95	95	99
					209	99	95	95	99	99
					305	99	95	80	99	99
Mean =					98	96	90	98	99	

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Weed Code					HELAN	ABUTH	SETVI	HELAN	AMAPA	
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	3/Jul/2007	3/Jul/2007	
ARM Action Codes										
# Subsamples, Dec.										
Trt	Treatment	Rate	Grow							
No.	Name	Rate	Unit	Stg	Plot	6	7	8	9	10
11	Check				111	0	0	0	0	0
					208	0	0	0	0	0
					302	0	0	0	0	0
					Mean =	0	0	0	0	0

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Weed Code					ABUTH	SETVI	HELAN	ABUTH	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 No.	Treatment Name	Rate	Unit	Grow Stg	Plot	11	12	13	14	15	16
1	Harness Xtra	2.1	lb ai/a	pre	101	95	99	99	95	95	95
	Roundup Original Max	0.75	lb ae/a	mpost	206	90	90	99	95	95	95
	AMS	2	% w/w	mpost	309	85	99	99	95	95	95
	Mean =					90	96	99	95	95	95
2	Harness Xtra	2.1	lb ai/a	pre	102	95	99	99	95	99	99
	Harness	1.31	lb ai/a	mpost	207	95	99	99	95	99	99
	Roundup Original Max	0.75	lb ae/a	mpost	307	95	99	99	95	99	99
	AMS	2	% w/w	mpost							
Mean =					95	99	99	95	99	99	
3	Harness Xtra	2.1	lb ai/a	pre	103	90	99	99	99	99	90
	Harness	2.6	lb ai/a	mpost	202	90	95	99	99	99	90
	Roundup Original Max	0.75	lb ae/a	mpost	308	90	99	99	99	99	90
	AMS	2	% w/w	mpost							
Mean =					90	98	99	99	99	90	
4	Harness Xtra	2.1	lb ai/a	pre	104	95	99	99	99	95	99
	Harness	1.31	lb ai/a	lpost	211	95	99	99	99	95	99
	Roundup Original Max	0.75	lb ae/a	lpost	301	90	99	99	99	95	99
	AMS	2	% w/w	lpost							
Mean =					93	99	99	99	95	99	
5	Harness Xtra	2.1	lb ai/a	pre	105	95	99	99	99	95	99
	Harness	2.6	lb ai/a	lpost	201	95	99	99	95	95	99
	Roundup Original Max	0.75	lb ae/a	lpost	310	99	99	99	95	95	99
	AMS	2	% w/w	lpost							
Mean =					96	99	99	96	95	99	
6	Harness Xtra	2.1	lb ai/a	pre	106	99	99	99	99	95	99
	Callisto	0.094	lb ai/a	mpost	210	95	99	99	99	95	99
	Roundup Original Max	0.75	lb ae/a	mpost	303	99	99	99	99	95	99
	AMS	2	% w/w	mpost							
Mean =					98	99	99	99	95	99	
7	Harness Xtra	2.1	lb ai/a	pre	107	99	99	99	99	90	95
	Status	0.095	lb ai/a	mpost	204	90	90	99	99	85	90
	Roundup Original Max	0.75	lb ae/a	mpost	306	90	99	99	99	85	90
	AMS	2	% w/w	mpost							
Mean =					93	96	99	99	87	92	
8	Harness Xtra	2.1	lb ai/a	pre	108	99	99	99	99	90	90
	Impact	0.011	lb ai/a	mpost	205	99	99	99	99	85	90
	Roundup Original Max	0.75	lb ae/a	mpost	304	99	99	99	99	90	85
	AMS	2	% w/w	mpost							
Mean =					99	99	99	99	88	88	
9	Harness Xtra	2.3	qt/a	pre	109	85	80	85	90	85	80
					203	60	60	80	80	90	80
					311	75	90	75	70	80	75
Mean =					73	77	80	80	85	78	
10	Lexar	3	qt/a	pre	110	99	95	90	90	90	90
					209	95	99	85	85	90	90
					305	95	70	85	90	90	85
Mean =					96	88	87	88	90	88	

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Weed Code					ABUTH	SETVI	HELAN	ABUTH	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	Plot	11	12	13	14	15	16
11	Check				111	0	0	0	0	0	0
					208	0	0	0	0	0	0
					302	0	0	0	0	0	0
					Mean =	0	0	0	0	0	0

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Weed Code						ZEAMX	ZEAMX	ZEAMX
Crop Code						YIELD	MOICON	YIELD
Rating Data Type						LB	%	bu/ac
Rating Unit								
Rating Date						24/Oct/2007	24/Oct/2007	24/Oct/2007
ARM Action Codes								TY1
# Subsamples, Dec.								1
Trt	Treatment	Rate	Grow					
No.	Name	Rate	Unit	Stg	Plot	17	18	19
1	Harness Xtra	2.1	lb ai/a	pre	101	52	17	131.9
	Roundup Original Max	0.75	lb ae/a	mpost	206	58	16	148.0
	AMS	2	% w/w	mpost	309	49	16	124.4
					Mean =	53	16	134.8
2	Harness Xtra	2.1	lb ai/a	pre	102	53	17	133.7
	Harness	1.31	lb ai/a	mpost	207	60	16	153.3
	Roundup Original Max	0.75	lb ae/a	mpost	307	55	16	140.6
	AMS	2	% w/w	mpost				
					Mean =	56	16	142.5
3	Harness Xtra	2.1	lb ai/a	pre	103	51	17	128.9
	Harness	2.6	lb ai/a	mpost	202	61	16	155.7
	Roundup Original Max	0.75	lb ae/a	mpost	308	53	16	135.1
	AMS	2	% w/w	mpost				
					Mean =	55	16	139.9
4	Harness Xtra	2.1	lb ai/a	pre	104	48	16	121.9
	Harness	1.31	lb ai/a	lpost	211	63	16	161.6
	Roundup Original Max	0.75	lb ae/a	lpost	301	50	16	128.3
	AMS	2	% w/w	lpost				
					Mean =	54	16	137.3
5	Harness Xtra	2.1	lb ai/a	pre	105	53	16	136.4
	Harness	2.6	lb ai/a	lpost	201	59	16	152.3
	Roundup Original Max	0.75	lb ae/a	lpost	310	52	16	132.2
	AMS	2	% w/w	lpost				
					Mean =	55	16	140.3
6	Harness Xtra	2.1	lb ai/a	pre	106	54	16	137.7
	Callisto	0.094	lb ai/a	mpost	210	66	16	168.1
	Roundup Original Max	0.75	lb ae/a	mpost	303	50	16	126.6
	AMS	2	% w/w	mpost				
					Mean =	56	16	144.1
7	Harness Xtra	2.1	lb ai/a	pre	107	56	16	143.6
	Status	0.095	lb ai/a	mpost	204	54	16	139.4
	Roundup Original Max	0.75	lb ae/a	mpost	306	50	16	127.1
	AMS	2	% w/w	mpost				
					Mean =	53	16	136.7
8	Harness Xtra	2.1	lb ai/a	pre	108	58	16	148.5
	Impact	0.011	lb ai/a	mpost	205	62	16	158.6
	Roundup Original Max	0.75	lb ae/a	mpost	304	54	17	137.1
	AMS	2	% w/w	mpost				
					Mean =	58	16	148.1
9	Harness Xtra	2.3	qt/a	pre	109	49	16	125.8
					203	38	16	96.8
					311	51	16	129.7
					Mean =	46	16	117.4
10	Lexar	3	qt/a	pre	110	55	16	139.9
					209	57	17	144.5
					305	50	16	129.1
					Mean =	54	16	137.8

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Weed Code					ZEAMX	ZEAMX	ZEAMX
Crop Code					YIELD	MOICON	YIELD
Rating Data Type					LB	%	bu/ac
Rating Unit					24/Oct/2007	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	17	18
	11 Check				111	11	16
					208	11	16
					302	11	16
					Mean =	11	16
							27.7
Column 19: TY1 = 2.592857*[17]*(100-[18])/85							

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Harness Applied mid-Post to Corn

Trial ID: L0720

Study Dir.: Kevin Horky

Location: Havelock

Investigator: Dr. Mark Bernards

Weed Code		AMAPA	HELAN	ABUTH	SETVI	AMAPA	HELAN			
Crop Code		ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit		%	%	%	%	%	%			
Rating Date		4/Jun/2007	4/Jun/2007	4/Jun/2007	4/Jun/2007	22/Jun/2007	22/Jun/2007			
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4	5	6
1	Harness Xtra	2.1	lb ai/a	pre	90 b	78 c	65 b	73 b	98 ab	99 a
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
2	Harness Xtra	2.1	lb ai/a	pre	92 ab	83 bc	78 b	78 ab	99 a	99 a
	Harness	1.31	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
3	Harness Xtra	2.1	lb ai/a	pre	93 ab	92 ab	68 b	80 ab	99 a	98 a
	Harness	2.6	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
4	Harness Xtra	2.1	lb ai/a	pre	92 ab	90 abc	73 b	68 b	99 a	99 a
	Harness	1.31	lb ai/a	lpost						
	Roundup Original Max	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
5	Harness Xtra	2.1	lb ai/a	pre	92 ab	90 abc	72 b	73 b	99 a	98 a
	Harness	2.6	lb ai/a	lpost						
	Roundup Original Max	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
6	Harness Xtra	2.1	lb ai/a	pre	93 ab	85 bc	78 b	80 ab	98 ab	99 a
	Callisto	0.094	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
7	Harness Xtra	2.1	lb ai/a	pre	95 ab	90 abc	70 b	78 ab	99 a	99 a
	Status	0.095	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
8	Harness Xtra	2.1	lb ai/a	pre	93 ab	93 ab	77 b	78 ab	98 ab	98 a
	Impact	0.011	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
9	Harness Xtra	2.3	qt/a	pre	93 ab	88 abc	82 b	90 ab	95 b	91 b
10	Lexar	3	qt/a	pre	98 a	99 a	98 a	99 a	99 a	98 a
11	Check				0 c	0 d	0 c	0 c	0 c	0 c
LSD (P=.05)					4.4	8.1	10.4	15.1	2.1	4.3
Standard Deviation					2.6	4.7	6.1	8.9	1.2	2.5
CV					3.03	5.85	8.86	12.19	1.35	2.86
Grand Mean					84.64	80.82	69.18	72.64	89.27	88.82
Bartlett's X2					1.506	9.286	11.015	5.904	0.0	5.031
P(Bartlett's X2)					0.993	0.098	0.275	0.658	1.00	0.284
Replicate F					3.484	1.932	1.009	0.203	1.000	1.145
Replicate Prob(F)					0.0503	0.1709	0.3824	0.8180	0.3855	0.3382
Treatment F					361.332	100.354	48.056	24.861	1811.188	407.128
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					ABUTH	SETVI	HELAN	AMAPA	ABUTH	SETVI
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	3/Jul/2007	3/Jul/2007	3/Jul/2007	3/Jul/2007
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	7	8	9	10	11	12
1	Harness Xtra	2.1	lb ai/a	pre	90 a	96 a	99 a	98 a	90 a	96 a
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
2	Harness Xtra	2.1	lb ai/a	pre	95 a	99 a	99 a	99 a	95 a	99 a
	Harness	1.31	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
3	Harness Xtra	2.1	lb ai/a	pre	92 a	98 a	98 a	99 a	90 a	98 a
	Harness	2.6	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
4	Harness Xtra	2.1	lb ai/a	pre	93 a	99 a	99 a	99 a	93 a	99 a
	Harness	1.31	lb ai/a	lpost						
	Roundup Original Max	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
5	Harness Xtra	2.1	lb ai/a	pre	96 a	99 a	98 a	99 a	96 a	99 a
	Harness	2.6	lb ai/a	lpost						
	Roundup Original Max	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
6	Harness Xtra	2.1	lb ai/a	pre	98 a	99 a	99 a	99 a	98 a	99 a
	Callisto	0.094	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
7	Harness Xtra	2.1	lb ai/a	pre	93 a	96 a	99 a	99 a	93 a	96 a
	Status	0.095	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
8	Harness Xtra	2.1	lb ai/a	pre	99 a	99 a	98 a	96 ab	99 a	99 a
	Impact	0.011	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
9	Harness Xtra	2.3	qt/a	pre	80 b	80 b	91 b	95 b	73 b	77 b
10	Lexar	3	qt/a	pre	96 a	90 a	98 a	99 a	96 a	88 ab
11	Check				0 c	0 c	0 c	0 c	0 c	0 c
LSD (P=.05)					6.1	7.8	4.3	1.6	7.2	12.1
Standard Deviation					3.6	4.6	2.5	1.0	4.3	7.1
CV					4.23	5.25	2.86	1.08	5.07	8.25
Grand Mean					84.76	86.79	88.82	89.27	84.0	86.3
Bartlett's X2					6.887	3.819	5.031	0.0	10.625	7.793
P(Bartlett's X2)					0.441	0.431	0.284	1.00	0.101	0.099
Replicate F					2.421	1.299	1.145	1.579	2.956	0.658
Replicate Prob(F)					0.1144	0.2949	0.3382	0.2308	0.0750	0.5289
Treatment F					190.569	124.723	407.128	2860.928	136.597	51.350
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					HELAN	ABUTH	AMAPA	SETVI	ZEAMX	ZEAMX
Crop Code					ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Rating Data Type					CONTROL	CONTROL	CONTROL	CONTROL	YIELD	MOICON
Rating Unit					%	%	%	%	LB	%
Rating Date					1/Oct/2007	1/Oct/2007	1/Oct/2007	1/Oct/2007	24/Oct/2007	24/Oct/2007
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	Grow Stg	13	14	15	16	17	18
1	Harness Xtra	2.1	lb ai/a	pre	99 a	95 a	95 a	95 b	53 a	16 a
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
2	Harness Xtra	2.1	lb ai/a	pre	99 a	95 a	99 a	99 a	56 a	16 a
	Harness	1.31	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
3	Harness Xtra	2.1	lb ai/a	pre	99 a	99 a	99 a	90 c	55 a	16 a
	Harness	2.6	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
4	Harness Xtra	2.1	lb ai/a	pre	99 a	99 a	95 a	99 a	54 a	16 a
	Harness	1.31	lb ai/a	lpost						
	Roundup Original Max	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
5	Harness Xtra	2.1	lb ai/a	pre	99 a	96 a	95 a	99 a	55 a	16 a
	Harness	2.6	lb ai/a	lpost						
	Roundup Original Max	0.75	lb ae/a	lpost						
	AMS	2	% w/w	lpost						
6	Harness Xtra	2.1	lb ai/a	pre	99 a	99 a	95 a	99 a	56 a	16 a
	Callisto	0.094	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
7	Harness Xtra	2.1	lb ai/a	pre	99 a	99 a	87 bc	92 c	53 a	16 a
	Status	0.095	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
8	Harness Xtra	2.1	lb ai/a	pre	99 a	99 a	88 bc	88 c	58 a	16 a
	Impact	0.011	lb ai/a	mpost						
	Roundup Original Max	0.75	lb ae/a	mpost						
	AMS	2	% w/w	mpost						
9	Harness Xtra	2.3	qt/a	pre	80 c	80 c	85 c	78 d	46 a	16 a
10	Lexar	3	qt/a	pre	87 b	88 b	90 b	88 c	54 a	16 a
11	Check				0 d	0 d	0 d	0 e	11 b	16 a
LSD (P=.05)					2.9	5.4	3.4	2.6	7.5	0.6
Standard Deviation					1.7	3.1	2.0	1.5	4.4	0.3
CV					1.92	3.65	2.35	1.82	8.85	2.14
Grand Mean					87.15	86.33	84.36	84.33	49.92	16.02
Bartlett's X2					0.563	4.815	0.834	0.0	12.201	2.966
P(Bartlett's X2)					0.453	0.09	0.659	1.00	0.272	0.982
Replicate F					1.892	1.471	0.577	4.194	5.459	0.634
Replicate Prob(F)					0.1768	0.2535	0.5707	0.0301	0.0128	0.5410
Treatment F					938.612	258.853	613.148	1052.622	27.236	0.564
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.8238

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					ZEAMX
Crop Code					YIELD
Rating Data Type					bu/ac
Rating Unit					24/Oct/2007
Rating Date					TY1
ARM Action Codes					1
# Subsamples, Dec.					
Trt No.	Treatment Name	Rate	Unit	Grow Stg	19
1	Harness Xtra	2.1	lb ai/a	pre	134.8 a
	Roundup Original Max	0.75	lb ae/a	mpost	
	AMS	2	% w/w	mpost	
2	Harness Xtra	2.1	lb ai/a	pre	142.5 a
	Harness	1.31	lb ai/a	mpost	
	Roundup Original Max	0.75	lb ae/a	mpost	
	AMS	2	% w/w	mpost	
3	Harness Xtra	2.1	lb ai/a	pre	139.9 a
	Harness	2.6	lb ai/a	mpost	
	Roundup Original Max	0.75	lb ae/a	mpost	
	AMS	2	% w/w	mpost	
4	Harness Xtra	2.1	lb ai/a	pre	137.3 a
	Harness	1.31	lb ai/a	lpost	
	Roundup Original Max	0.75	lb ae/a	lpost	
	AMS	2	% w/w	lpost	
5	Harness Xtra	2.1	lb ai/a	pre	140.3 a
	Harness	2.6	lb ai/a	lpost	
	Roundup Original Max	0.75	lb ae/a	lpost	
	AMS	2	% w/w	lpost	
6	Harness Xtra	2.1	lb ai/a	pre	144.1 a
	Callisto	0.094	lb ai/a	mpost	
	Roundup Original Max	0.75	lb ae/a	mpost	
	AMS	2	% w/w	mpost	
7	Harness Xtra	2.1	lb ai/a	pre	136.7 a
	Status	0.095	lb ai/a	mpost	
	Roundup Original Max	0.75	lb ae/a	mpost	
	AMS	2	% w/w	mpost	
8	Harness Xtra	2.1	lb ai/a	pre	148.1 a
	Impact	0.011	lb ai/a	mpost	
	Roundup Original Max	0.75	lb ae/a	mpost	
	AMS	2	% w/w	mpost	
9	Harness Xtra	2.3	qt/a	pre	117.4 a
10	Lexar	3	qt/a	pre	137.8 a
11	Check				27.7 b
LSD (P=.05)					19.72
Standard Deviation					11.58
CV					9.05
Grand Mean					127.88
Bartlett's X2					12.479
P(Bartlett's X2)					0.254
Replicate F					5.263
Replicate Prob(F)					0.0146
Treatment F					26.052
Treatment Prob(F)					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 19: TY1 = 2.592857*[17]*(100-[18])/85