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Corn No-Till Weed Control I

Trial ID: 13NTC1 Location: WESTERN BRANCH F-10 E Trial Year: 2013
 Protocol ID: 13NTC1 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Seed Consultants SCS11HR21 **BBCH Scale:** BCOR
Description: RR/LL

Planting Rate, Unit: 32097 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 I
Soil Temperature, Unit: 54 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: MEDTRA medium/trashy

Planting Date: Apr-27-2013
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: May-13-2013

Pest Description

- Pest 1 Type:** W **Code:** STEME *Stellaria media*
Common Name: Common chickweed
- Pest 2 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel
- Pest 3 Type:** W **Code:** ERYRE *Erysimum repandum*
Common Name: Bushy wallflower
- Pest 4 Type:** W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse
- Pest 5 Type:** W **Code:** VERAR *Veronica arvensis*
Common Name: Corn speedwell
- Pest 6 Type:** W **Code:** ERPSS *Erophila* sp.
Common Name: Whitlowgrass
- Pest 7 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 8 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest 9 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT² **Treatments:** 12 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Soil Description

Description Name: F-10 East
% OM: 3 **Texture:** SICL silty clay loam
pH: 6 **Soil Name:** Kokomo
CEC: 19.5 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	Apr-22-2013	Jun-4-2013
Appl. Start Time:	1:00 P.M.	9:00 AM
Appl. Stop Time:	1:20 PM	9:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	7 EPP	POST
Application Placement:	BROFOL	BROFOL
Applied By:	Ackley	Dobbels
Air Temperature, Unit:	62 F	61 F
% Relative Humidity:	49	58
Wind Velocity, Unit:	3 MPH	1 MPH
Wind Direction:	ESE	SE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	51 F	58 F
Soil Moisture:	MOIST	NORMAL
% Cloud Cover:	0	10
Next Moisture Occurred On:	Apr-24-2013	Jun-7-2013
Time to Next Moisture, Unit:	2 DAY	3 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		14 100
Height, Unit:		10 IN
Height Minimum, Maximum:		10 13

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	67 100	
Diameter, Unit:	7 IN	
Height, Unit:	1 IN	
Height Minimum, Maximum:	0.5 1	
Density, Unit:	13.3 M2	
Pest 2 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	67 100	
Diameter, Unit:	2 IN	
Height, Unit:	3 IN	
Height Minimum, Maximum:	2 3	
Density, Unit:	14.6 M2	
Pest 3 Code, Type, Scale:	ERYRE W	ERYRE W
Stage Majority, Percent:	59 90	
Diameter, Unit:	3 IN	
Height, Unit:	3 IN	
Height Minimum, Maximum:	3 4	
Density, Unit:	1.3 M2	
Pest 4 Code, Type, Scale:	CAPBP W	CAPBP W
Stage Majority, Percent:	67 100	
Diameter, Unit:	3 IN	
Height, Unit:	10 IN	
Height Minimum, Maximum:	10 12	
Density, Unit:	5.3 M2	
Pest 5 Code, Type, Scale:	VERAR W	VERAR W
Stage Majority, Percent:	19 100	
Diameter, Unit:	3 IN	
Height, Unit:	0.25 IN	
Height Minimum, Maximum:	0.25 0.5	
Density, Unit:	36 M2	
Pest 6 Code, Type, Scale:	ERPSS W	ERPSS W
Stage Majority, Percent:	69 100	
Diameter, Unit:	2 IN	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2 4	
Pest 7 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	08 100	19 100
Diameter, Unit:	2 IN	
Height, Unit:	0.5 IN	4 IN
Height Minimum, Maximum:	0.5 0.5	4 16
Density, Unit:	8 M2	
Pest 8 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		15 100
Height, Unit:		7 IN
Height Minimum, Maximum:		7 7
Density, Unit:	5.3 M2	
Pest 9 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		19 100
Height, Unit:		7 IN
Height Minimum, Maximum:		7 12

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Application Equipment

	A	B
Appl. Equipment:	6 foot boom	
Equipment Type:	SPRBAC	
Operation Pressure, Unit:	46	PSI
Nozzle Type:	AI XR	
Nozzle Size:	110015	
Nozzle Spacing, Unit:	18	IN
Boom Length, Unit:	6	FT
Boom Height, Unit:	20	IN
Ground Speed, Unit:	3	MPH
Carrier:	WATER	
Spray Volume, Unit:	15	GPA
Mix Size, Unit:	1	Liters
Propellant:	CO2	

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 Protocol ID: 13NTC1 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
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Pest Code			STEME	LAMPU	CAPBP	ERYRE	AMBTR	STEME	LAMPU			
Crop Code			Apr-30-201	Apr-30-2013	Apr-30-2013	Apr-30-2013	Apr-30-2013	May-6-201	May-6-2013			
Rating Date			3					3				
Rating Type			CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit			%	%	%	%	%	%	%			
Days After First/Last Applic.			8 8	8 8	8 8	8 8	8 8	14 14	14 14			
Trt-Eval Interval			8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	14 DA-A	14 DA-A			
Plant-Eval Interval			3 DP-1	3 DP-1	3 DP-1	3 DP-1	3 DP-1	9 DP-1	9 DP-1			
Days After Emergence			-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-7 DE-1	-7 DE-1			
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	UTC					0 c	0 d	0 d	0 c	0 d	0 b	0 b
2	Roundup PowerMax	22 oz/a		7 EPP	A	68 a	87 ab	75 ab	70 a	70 ab	95 a	100 a
	2,4-D	2 pt/a		7 EPP	A							
	Fierce	3 oz/a		7 EPP	A							
	N-PAK AMS	1.5 qt/a		7 EPP	A							
	Roundup PowerMax	22 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							
3	Roundup PowerMax	22 oz/a		7 EPP	A	68 a	92 a	77 ab	80 a	80 a	98 a	100 a
	2,4-D	2 pt/a		7 EPP	A							
	Fierce	3 oz/a		7 EPP	A							
	Atrazine	1 qt/a		7 EPP	A							
	N-PAK AMS	1.5 qt/a		7 EPP	A							
	Roundup PowerMax	22 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							
4	Lexar EZ	3.5 qt/a		7 EPP	A	30 b	50 bc	37 c	37 b	37 bc	100 a	100 a
	COC	0.6 qt/a		7 EPP	A							
	Touchdown Total	24 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							
5	Lexar EZ	2.25 pt/a		7 EPP	A	27 b	40 c	33 c	33 b	33 c	93 a	100 a
	COC	0.6 qt/a		7 EPP	A							
	Halex GT	3.6 pt/a		POST	B							
	NIS	4.8 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							
6	Lexar EZ	2.25 pt/a		7 EPP	A	84 a	93 a	90 a	88 a	93 a	98 a	100 a
	2,4-D	1 pt/a		7 EPP	A							
	Gramoxone Inteon	3 pt/a		7 EPP	A							
	NIS	4.8 oz/a		7 EPP	A							
	Halex GT	3.6 pt/a		POST	B							
	NIS	4.8 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							
7	Corvus	5.6 oz/a		7 EPP	A	40 b	50 bc	30 c	37 b	30 c	97 a	100 a
	Atrazine	1.5 qt/a		7 EPP	A							
	COC	0.6 qt/a		7 EPP	A							
	Roundup PowerMax	32 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							
8	Instigate 6 oz					23 b	40 c	27 c	30 b	30 c	99 a	100 a
	Rimsulfuron	1 oz/a		7 EPP	A							
	Mesotrione	5 oz/a		7 EPP	A							
	Cinch ATZ	3 pt/a		7 EPP	A							
	COC	0.6 qt/a		7 EPP	A							
	Abundit Extra	32 oz/a		POST	B							
	N-PAK AMS	1.5 qt/a		POST	B							

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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Pest Code		STEME	LAMPU	CAPBP	ERYRE	AMBTR	STEME	LAMPU				
Crop Code												
Rating Date		Apr-30-201	Apr-30-2013	Apr-30-2013	Apr-30-2013	Apr-30-2013	May-6-201	May-6-2013				
Rating Type		3 CONTRO	3 CONTRO	3 CONTRO	3 CONTRO	3 CONTRO	3 CONTRO	3 CONTRO				
Rating Unit		%	%	%	%	%	%	%				
Days After First/Last Applic.		8 8	8 8	8 8	8 8	8 8	14 14	14 14				
Trt-Eval Interval		8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	14 DA-A	14 DA-A				
Plant-Eval Interval		3 DP-1	3 DP-1	3 DP-1	3 DP-1	3 DP-1	9 DP-1	9 DP-1				
Days After Emergence		-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-7 DE-1	-7 DE-1				
Trt No.	Treatment	Other Rate	Other Rate	Growth Stage	Appl Code	1	2	3	4	5	6	7
9	Instigate 6 oz					27 b	50 bc	37 c	43 b	40 bc	99 a	100 a
	9 Rimsulfuron	1 oz/a		7 EPP	A							
	9 Mesotrione	5 oz/a		7 EPP	A							
	9 Cinch ATZ	3 pt/a		7 EPP	A							
	9 2,4-D	1 pt/a		7 EPP	A							
	9 COC	0.6 qt/a		7 EPP	A							
	9 Abundit Extra	32 oz/a		POST	B							
	9 N-PAK AMS	1.5 qt/a		POST	B							
10	Instigate 5.25 oz					30 b	57 bc	40 c	40 b	43 bc	97 a	100 a
	10 Rimsulfuron	0.87 oz/a		7 EPP	A							
	10 Mesotrione	4.36 oz/a		7 EPP	A							
	10 Cinch ATZ	3 pt/a		7 EPP	A							
	10 COC	0.6 qt/a		7 EPP	A							
	10 Abundit Extra	32 oz/a		POST	B							
	10 N-PAK AMS	1.5 qt/a		POST	B							
11	Instigate 5.25 oz					20 b	33 c	33 c	37 b	50 bc	100 a	100 a
	11 Rimsulfuron	0.87 oz/a		7 EPP	A							
	11 Mesotrione	4.36 oz/a		7 EPP	A							
	11 Cinch ATZ	3 pt/a		7 EPP	A							
	11 2,4-D	1 pt/a		7 EPP	A							
	11 COC	0.6 qt/a		7 EPP	A							
	11 Abundit Extra	32 oz/a		POST	B							
	11 N-PAK AMS	1.5 qt/a		POST	B							
12	Surestart	3 pt/a		7 EPP	A	33 b	50 bc	50 bc	47 b	47 bc	100 a	100 a
	12 AAtrex	1 qt/a		7 EPP	A							
	12 Durango DMA	1.5 pt/a		7 EPP	A							
	12 2,4-D Amine	1 pt/a		7 EPP	A							
	12 N-PAK AMS	1.5 qt/a		7 EPP	A							
	12 Durango DMA	1.5 pt/a		POST	B							
	12 N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)		16.7	25.7	22.1	20.6	23.4	6.5	0.0				
Standard Deviation		9.9	15.2	13.1	12.2	13.8	3.9	0.0				
CV		26.32	28.38	29.65	26.96	29.94	4.3	0.0				
Bartlett's X2		5.957	16.44	7.273	7.677	6.818	9.765	0.0				
P(Bartlett's X2)		0.819	0.088	0.508	0.567	0.556	0.202	.				
Skewness		0.75	-0.1232	0.614	0.4222	0.4788	-3.0508*	-3.1478*				
Kurtosis		-0.1347	-0.8451	-0.1164	-0.0605	-0.2259	7.9606*	8.3714*				
Replicate F		6.199	0.908	1.325	0.202	0.889	0.305	0.000				
Replicate Prob(F)		0.0073	0.4180	0.2863	0.8188	0.4254	0.7404	1.0000				
Treatment F		17.753	9.282	11.146	11.703	9.881	162.078	0.000				
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000				

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Pest Code	CAPBP		ERYRE		AMBTR		ZEAMX		STEME		LAMPU		CAPBP	
Crop Code	May-6-201		May-6-2013		May-6-201		May-20-201		May-20-201		May-20-2013		May-20-201	
Rating Date	3		3		3		3		3		3		3	
Rating Type	CONTRO		CONTRO		CONTRO		PHYCHL		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%		%	
Days After First/Last Applic.	14	14	14	14	14	14	28	28	28	28	28	28	28	28
Trt-Eval Interval	14 DA-A		14 DA-A		14 DA-A		28 DA-A		28 DA-A		28 DA-A		28 DA-A	
Plant-Eval Interval	9 DP-1		9 DP-1		9 DP-1		23 DP-1		23 DP-1		23 DP-1		23 DP-1	
Days After Emergence	-7 DE-1		-7 DE-1		-7 DE-1		7 DE-1		7 DE-1		7 DE-1		7 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	8	9	10	11	12	13	14	
1	UTC						0 b	0 b	0 b	0 c	0 b	0 b	0 b	
2	Roundup PowerMax	22 oz/a			7 EPP	A	95 a	100 a	97 a	5 bc	100 a	100 a	100 a	
	2,4-D	2 pt/a			7 EPP	A								
	Fierce	3 oz/a			7 EPP	A								
	N-PAK AMS	1.5 qt/a			7 EPP	A								
	Roundup PowerMax	22 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
3	Roundup PowerMax	22 oz/a			7 EPP	A	100 a	100 a	100 a	5 bc	100 a	100 a	100 a	
	2,4-D	2 pt/a			7 EPP	A								
	Fierce	3 oz/a			7 EPP	A								
	Atrazine	1 qt/a			7 EPP	A								
	N-PAK AMS	1.5 qt/a			7 EPP	A								
	Roundup PowerMax	22 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
4	Lexar EZ	3.5 qt/a			7 EPP	A	100 a	95 a	100 a	5 bc	100 a	100 a	100 a	
	COC	0.6 qt/a			7 EPP	A								
	Touchdown Total	24 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
5	Lexar EZ	2.25 pt/a			7 EPP	A	95 a	92 a	99 a	7 bc	100 a	100 a	100 a	
	COC	0.6 qt/a			7 EPP	A								
	Halex GT	3.6 pt/a			POST	B								
	NIS	4.8 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
6	Lexar EZ	2.25 pt/a			7 EPP	A	100 a	98 a	98 a	5 bc	100 a	100 a	100 a	
	2,4-D	1 pt/a			7 EPP	A								
	Gramoxone Inteon	3 pt/a			7 EPP	A								
	NIS	4.8 oz/a			7 EPP	A								
	Halex GT	3.6 pt/a			POST	B								
	NIS	4.8 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
7	Corvus	5.6 oz/a			7 EPP	A	98 a	98 a	98 a	4 bc	100 a	100 a	100 a	
	Atrazine	1.5 qt/a			7 EPP	A								
	COC	0.6 qt/a			7 EPP	A								
	Roundup PowerMax	32 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
8	Instigate 6 oz						100 a	97 a	100 a	10 ab	100 a	100 a	100 a	
	Rimsulfuron	1 oz/a			7 EPP	A								
	Mesotrione	5 oz/a			7 EPP	A								
	Cinch ATZ	3 pt/a			7 EPP	A								
	COC	0.6 qt/a			7 EPP	A								
	Abundit Extra	32 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								

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Pest Code	CAPBP		ERYRE	AMBTR	ZEAMX	STEME	LAMPU	CAPBP				
Crop Code	May-6-201		May-6-2013	May-6-201	May-20-201	May-20-201	May-20-2013	May-20-201				
Rating Date	3		3	3	3	3	3	3				
Rating Type	CONTRO		CONTRO	CONTRO	PHYCHL	CONTRO	CONTRO	CONTRO				
Rating Unit	%		%	%	%	%	%	%				
Days After First/Last Applic.	14 14		14 14	14 14	28 28	28 28	28 28	28 28				
Trt-Eval Interval	14 DA-A		14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A				
Plant-Eval Interval	9 DP-1		9 DP-1	9 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1				
Days After Emergence	-7 DE-1		-7 DE-1	-7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13	14
9	Instigate 6 oz					100 a	100 a	100 a	10 ab	100 a	100 a	100 a
	9 Rimsulfuron	1 oz/a		7 EPP	A							
	9 Mesotrione	5 oz/a		7 EPP	A							
	9 Cinch ATZ	3 pt/a		7 EPP	A							
	9 2,4-D	1 pt/a		7 EPP	A							
	9 COC	0.6 qt/a		7 EPP	A							
	9 Abundit Extra	32 oz/a		POST	B							
	9 N-PAK AMS	1.5 qt/a		POST	B							
10	Instigate 5.25 oz					99 a	100 a	100 a	15 a	100 a	100 a	100 a
	10 Rimsulfuron	0.87 oz/a		7 EPP	A							
	10 Mesotrione	4.36 oz/a		7 EPP	A							
	10 Cinch ATZ	3 pt/a		7 EPP	A							
	10 COC	0.6 qt/a		7 EPP	A							
	10 Abundit Extra	32 oz/a		POST	B							
	10 N-PAK AMS	1.5 qt/a		POST	B							
11	Instigate 5.25 oz					100 a	99 a	98 a	3 bc	100 a	100 a	100 a
	11 Rimsulfuron	0.87 oz/a		7 EPP	A							
	11 Mesotrione	4.36 oz/a		7 EPP	A							
	11 Cinch ATZ	3 pt/a		7 EPP	A							
	11 2,4-D	1 pt/a		7 EPP	A							
	11 COC	0.6 qt/a		7 EPP	A							
	11 Abundit Extra	32 oz/a		POST	B							
	11 N-PAK AMS	1.5 qt/a		POST	B							
12	Surestart	3 pt/a		7 EPP	A	100 a	98 a	100 a	6 bc	100 a	100 a	100 a
	12 AAtrex	1 qt/a		7 EPP	A							
	12 Durango DMA	1.5 pt/a		7 EPP	A							
	12 2,4-D Amine	1 pt/a		7 EPP	A							
	12 N-PAK AMS	1.5 qt/a		7 EPP	A							
	12 Durango DMA	1.5 pt/a		POST	B							
	12 N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)		6.2		5.7		2.8		5.2		0.0		0.0
Standard Deviation		3.7		3.4		1.7		3.0		0.0		0.0
CV		4.06		3.75		1.85		49.44		0.0		0.0
Bartlett's X2		7.042		7.213		5.241		4.408		0.0		0.0
P(Bartlett's X2)		0.071		0.302		0.387		0.622		.		.
Skewness		-3.065*		-3.0501*		-3.126*		0.5388		-3.1478*		-3.1478*
Kurtosis		8.0056*		7.9575*		8.2818*		-0.4316		8.3714*		8.3714*
Replicate F		0.776		1.574		0.741		0.188		0.000		0.000
Replicate Prob(F)		0.4722		0.2296		0.4881		0.8297		1.0000		1.0000
Treatment F		181.073		212.994		874.706		4.978		0.000		0.000
Treatment Prob(F)		0.0001		0.0001		0.0001		0.0007		1.0000		1.0000

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Pest Code	ERYRE		SETFA		AMBTR		ZEAMX		SETFA		AMBTR		CHEAL	
Crop Code	May-20-2013		May-20-2013		May-20-201		Jun-3-2013		Jun-3-2013		Jun-3-201		Jun-3-201	
Rating Date					3						3		3	
Rating Type	CONTRO		CONTRO		CONTRO		PHYLMA		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%		%	
Days After First/Last Applic.	28 28		28 28		28 28		42 42		42 42		42 42		42 42	
Trt-Eval Interval	28 DA-A		28 DA-A		28 DA-A		42 DA-A		42 DA-A		42 DA-A		42 DA-A	
Plant-Eval Interval	23 DP-1		23 DP-1		23 DP-1		37 DP-1		37 DP-1		37 DP-1		37 DP-1	
Days After Emergence	7 DE-1		7 DE-1		7 DE-1		21 DE-1		21 DE-1		21 DE-1		21 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	15	16	17	18	19	20	21	
1	UTC						0 b	0	0 b	0 a	0 e	0 b	0 c	
2	Roundup PowerMax	22 oz/a			7 EPP	A	100 a	68 a	73 a	0 a	37 b-e	47 a	77 b	
	2,4-D	2 pt/a			7 EPP	A								
	Fierce	3 oz/a			7 EPP	A								
	N-PAK AMS	1.5 qt/a			7 EPP	A								
	Roundup PowerMax	22 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
3	Roundup PowerMax	22 oz/a			7 EPP	A	100 a	97 a	90 a	0 a	70 abc	53 a	100 a	
	2,4-D	2 pt/a			7 EPP	A								
	Fierce	3 oz/a			7 EPP	A								
	Atrazine	1 qt/a			7 EPP	A								
	N-PAK AMS	1.5 qt/a			7 EPP	A								
	Roundup PowerMax	22 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
4	Lexar EZ	3.5 qt/a			7 EPP	A	100 a	100 a	87 a	0 a	60 a-d	62 a	100 a	
	COC	0.6 qt/a			7 EPP	A								
	Touchdown Total	24 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
5	Lexar EZ	2.25 pt/a			7 EPP	A	100 a	82 a	80 a	0 a	27 de	50 a	97 a	
	COC	0.6 qt/a			7 EPP	A								
	Halex GT	3.6 pt/a			POST	B								
	NIS	4.8 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
6	Lexar EZ	2.25 pt/a			7 EPP	A	100 a	75 a	82 a	0 a	17 e	43 a	83 ab	
	2,4-D	1 pt/a			7 EPP	A								
	Gramoxone Inteon	3 pt/a			7 EPP	A								
	NIS	4.8 oz/a			7 EPP	A								
	Halex GT	3.6 pt/a			POST	B								
	NIS	4.8 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
7	Corvus	5.6 oz/a			7 EPP	A	100 a	87 a	83 a	0 a	80 ab	77 a	100 a	
	Atrazine	1.5 qt/a			7 EPP	A								
	COC	0.6 qt/a			7 EPP	A								
	Roundup PowerMax	32 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								
8	Instigate 6 oz						100 a	83 a	93 a	1 a	72 abc	72 a	100 a	
	Rimsulfuron	1 oz/a			7 EPP	A								
	Mesotrione	5 oz/a			7 EPP	A								
	Cinch ATZ	3 pt/a			7 EPP	A								
	COC	0.6 qt/a			7 EPP	A								
	Abundit Extra	32 oz/a			POST	B								
	N-PAK AMS	1.5 qt/a			POST	B								

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Pest Code	ERYRE	SETFA	AMBTR	ZEAMX	SETFA	AMBTR	CHEAL					
Crop Code												
Rating Date	May-20-2013	May-20-2013	May-20-201	Jun-3-2013	Jun-3-2013	Jun-3-201	Jun-3-201					
Rating Type	CONTRO	CONTRO	CONTRO	PHYLMA	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	28 28	28 28	28 28	42 42	42 42	42 42	42 42					
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A					
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1					
Days After Emergence	7 DE-1	7 DE-1	7 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1					
Trt Treatment No. Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	15	16	17	18	19	20	21
9 Instigate 6 oz						100 a	87 a	85 a	0 a	63 a-d	57 a	100 a
9 Rimsulfuron	1 oz/a			7 EPP	A							
9 Mesotrione	5 oz/a			7 EPP	A							
9 Cinch ATZ	3 pt/a			7 EPP	A							
9 2,4-D	1 pt/a			7 EPP	A							
9 COC	0.6 qt/a			7 EPP	A							
9 Abundit Extra	32 oz/a			POST	B							
9 N-PAK AMS	1.5 qt/a			POST	B							
10 Instigate 5.25 oz						100 a	93 a	92 a	1 a	89 a	77 a	100 a
10 Rimsulfuron	0.87 oz/a			7 EPP	A							
10 Mesotrione	4.36 oz/a			7 EPP	A							
10 Cinch ATZ	3 pt/a			7 EPP	A							
10 COC	0.6 qt/a			7 EPP	A							
10 Abundit Extra	32 oz/a			POST	B							
10 N-PAK AMS	1.5 qt/a			POST	B							
11 Instigate 5.25 oz						100 a	87 a	92 a	0 a	79 ab	73 a	100 a
11 Rimsulfuron	0.87 oz/a			7 EPP	A							
11 Mesotrione	4.36 oz/a			7 EPP	A							
11 Cinch ATZ	3 pt/a			7 EPP	A							
11 2,4-D	1 pt/a			7 EPP	A							
11 COC	0.6 qt/a			7 EPP	A							
11 Abundit Extra	32 oz/a			POST	B							
11 N-PAK AMS	1.5 qt/a			POST	B							
12 Surestart	3 pt/a			7 EPP	A	100 a	78 a	98 a	0 a	33 cde	83 a	100 a
12 AAtrex	1 qt/a			7 EPP	A							
12 Durango DMA	1.5 pt/a			7 EPP	A							
12 2,4-D Amine	1 pt/a			7 EPP	A							
12 N-PAK AMS	1.5 qt/a			7 EPP	A							
12 Durango DMA	1.5 pt/a			POST	B							
12 N-PAK AMS	1.5 qt/a			POST	B							
LSD (P=.05)	0.0	22.9		23.4	0.8	28.3	35.9	13.1				
Standard Deviation	0.0	13.4		13.8	0.4	16.7	21.2	7.7				
CV	0.0	15.78		17.37	404.52	32.04	36.64	8.77				
Bartlett's X2	0.0	11.151		13.043	0.0	4.358	6.029	2.559				
P(Bartlett's X2)	.	0.265		0.221	.	0.93	0.813	0.278				
Skewness	-3.1478*	-0.5181		-2.1061*	4.0514*	-0.1929	-0.4875	-2.613*				
Kurtosis	8.3714*	-0.9429		3.9385*	15.2595*	-0.9856	-0.3973	5.8532*				
Replicate F	0.000	1.074		1.127	2.200	0.105	1.345	0.746				
Replicate Prob(F)	1.0000	0.3606		0.3420	0.1346	0.9009	0.2812	0.4860				
Treatment F	0.000	1.453		10.555	1.000	8.747	3.388	41.742				
Treatment Prob(F)	1.0000	0.2284		0.0001	0.4767	0.0001	0.0072	0.0001				

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Pest Code	AMARE	SETFA	AMBTR	CHEAL	AMARE	ERICA
Crop Code						
Rating Date	Jun-3-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Days After First/Last Applic.	42 42	71 28	71 28	71 28	71 28	71 28
Trt-Eval Interval	42 DA-A	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	37 DP-1	66 DP-1	66 DP-1	66 DP-1	66 DP-1	66 DP-1
Days After Emergence	21 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	22	23	24	25	26	27
1	UTC					0 c	0 b	0	0 b	0 b	0 b
2	Roundup PowerMax	22 oz/a		7 EPP	A	80 ab	68 a	70 a	100 a	92 a	93 a
	2,4-D	2 pt/a		7 EPP	A						
	Fierce	3 oz/a		7 EPP	A						
	N-PAK AMS	1.5 qt/a		7 EPP	A						
	Roundup PowerMax	22 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						
3	Roundup PowerMax	22 oz/a		7 EPP	A	80 ab	80 a	82 a	100 a	95 a	87 a
	2,4-D	2 pt/a		7 EPP	A						
	Fierce	3 oz/a		7 EPP	A						
	Atrazine	1 qt/a		7 EPP	A						
	N-PAK AMS	1.5 qt/a		7 EPP	A						
	Roundup PowerMax	22 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						
4	Lexar EZ	3.5 qt/a		7 EPP	A	100 a	92 a	73 a	100 a	88 a	100 a
	COC	0.6 qt/a		7 EPP	A						
	Touchdown Total	24 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						
5	Lexar EZ	2.25 pt/a		7 EPP	A	50 b	93 a	93 a	100 a	100 a	87 a
	COC	0.6 qt/a		7 EPP	A						
	Halex GT	3.6 pt/a		POST	B						
	NIS	4.8 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						
6	Lexar EZ	2.25 pt/a		7 EPP	A	50 b	97 a	97 a	100 a	100 a	100 a
	2,4-D	1 pt/a		7 EPP	A						
	Gramoxone Inteon	3 pt/a		7 EPP	A						
	NIS	4.8 oz/a		7 EPP	A						
	Halex GT	3.6 pt/a		POST	B						
	NIS	4.8 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						
7	Corvus	5.6 oz/a		7 EPP	A	100 a	81 a	83 a	100 a	100 a	100 a
	Atrazine	1.5 qt/a		7 EPP	A						
	COC	0.6 qt/a		7 EPP	A						
	Roundup PowerMax	32 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						
8	Instigate 6 oz					100 a	86 a	78 a	100 a	100 a	100 a
	Rimsulfuron	1 oz/a		7 EPP	A						
	Mesotrione	5 oz/a		7 EPP	A						
	Cinch ATZ	3 pt/a		7 EPP	A						
	COC	0.6 qt/a		7 EPP	A						
	Abundit Extra	32 oz/a		POST	B						
	N-PAK AMS	1.5 qt/a		POST	B						

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Pest Code	AMARE	SETFA	AMBTR	CHEAL	AMARE	ERICA
Crop Code						
Rating Date	Jun-3-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013	Jul-2-2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Days After First/Last Applic.	42 42	71 28	71 28	71 28	71 28	71 28
Trt-Eval Interval	42 DA-A	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	37 DP-1	66 DP-1	66 DP-1	66 DP-1	66 DP-1	66 DP-1
Days After Emergence	21 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	22	23	24	25	26	27
9	Instigate 6 oz					100 a	83 a	87 a	100 a	100 a	100 a
	9 Rimsulfuron	1 oz/a		7 EPP	A						
	9 Mesotrione	5 oz/a		7 EPP	A						
	9 Cinch ATZ	3 pt/a		7 EPP	A						
	9 2,4-D	1 pt/a		7 EPP	A						
	9 COC	0.6 qt/a		7 EPP	A						
	9 Abundit Extra	32 oz/a		POST	B						
	9 N-PAK AMS	1.5 qt/a		POST	B						
10	Instigate 5.25 oz					100 a	92 a	80 a	100 a	100 a	100 a
	10 Rimsulfuron	0.87 oz/a		7 EPP	A						
	10 Mesotrione	4.36 oz/a		7 EPP	A						
	10 Cinch ATZ	3 pt/a		7 EPP	A						
	10 COC	0.6 qt/a		7 EPP	A						
	10 Abundit Extra	32 oz/a		POST	B						
	10 N-PAK AMS	1.5 qt/a		POST	B						
11	Instigate 5.25 oz					100 a	90 a	81 a	100 a	100 a	100 a
	11 Rimsulfuron	0.87 oz/a		7 EPP	A						
	11 Mesotrione	4.36 oz/a		7 EPP	A						
	11 Cinch ATZ	3 pt/a		7 EPP	A						
	11 2,4-D	1 pt/a		7 EPP	A						
	11 COC	0.6 qt/a		7 EPP	A						
	11 Abundit Extra	32 oz/a		POST	B						
	11 N-PAK AMS	1.5 qt/a		POST	B						
12	Surestart	3 pt/a		7 EPP	A	90 a	88 a	94 a	100 a	100 a	100 a
	12 AAtrex	1 qt/a		7 EPP	A						
	12 Durango DMA	1.5 pt/a		7 EPP	A						
	12 2,4-D Amine	1 pt/a		7 EPP	A						
	12 N-PAK AMS	1.5 qt/a		7 EPP	A						
	12 Durango DMA	1.5 pt/a		POST	B						
	12 N-PAK AMS	1.5 qt/a		POST	B						
LSD (P=.05)						23.9	17.2	21.5	0.0	7.5	17.1
Standard Deviation						14.1	10.2	12.6	0.0	4.5	10.1
CV						17.83	12.85	15.16	0.0	4.98	11.36
Bartlett's X2						0.783	15.956	15.706	0.0	0.532	1.009
P(Bartlett's X2)						0.941	0.101	0.108	.	0.766	0.604
Skewness						-1.5122*	-2.2988*	-0.5692	-3.1478*	-2.9625*	-2.661*
Kurtosis						1.0927	4.657*	-0.3732	8.3714*	7.5579*	5.9701*
Replicate F						2.551	2.118	1.233	0.000	0.085	0.762
Replicate Prob(F)						0.1008	0.1442	0.3127	1.0000	0.9186	0.4785
Treatment F						14.635	19.706	1.381	0.000	122.523	23.842
Treatment Prob(F)						0.0001	0.0001	0.2577	1.0000	0.0001	0.0001

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Corn No-Till Weed Control I

Trial ID: 13NTC1 Location: WESTERN BRANCH F-10 E Trial Year: 2013
 Protocol ID: 13NTC1 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Code

STEME, Stellaria media, = US
 LAMPU, Lamium purpureum, = US
 CAPBP, Capsella bursa-pastoris, = US
 ERYRE, Erysimum repandum, = US
 AMBTR, Ambrosia trifida, = US
 SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US
 AMARE, Amaranthus retroflexus, = US
 ERICA, Conyza canadensis, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYCHL = phytotoxicity - chlorosis
 PHYLMA = phytotoxicity - leaf malformation

Rating Unit

% = percent

Plant-Eval Interval

3 DP-1 = 1 ZEAMX Apr-27-2013
 9 DP-1 = 1 ZEAMX Apr-27-2013
 23 DP-1 = 1 ZEAMX Apr-27-2013
 37 DP-1 = 1 ZEAMX Apr-27-2013
 66 DP-1 = 1 ZEAMX Apr-27-2013