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Authority MTZ Corn Burndown Trial

Trial ID: 13NTC3
Protocol ID: 13NTC3
Project ID: SULF.COR.13.JPR.10

Location: WESTERN BRANCH F-10 E Trial Year:
Investigator: Dr. Mark M. Loux
Study Director: Anthony F. Dobbels
Sponsor Contact: Joe Reed, FMC

Crop Description

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

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

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

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:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest10 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest11 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 8
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

No. Previous Crop Year
1. Soybean 2012

Maintenance

No.	Date	Maintenance Product Name	Form Conc	Form Type	Form Rate	Form Unit	Tank Mix Code	Tank Mix
1.	Jun-26-2013	Roundup Weathermax	4.5	SL	22	OZ/A	N	no

Soil Description

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

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Application Description

	A	B
Application Date:	Apr-27-2013	May-30-2013
Appl. Start Time:	12:15 PM	8:00 AM
Appl. Stop Time:	12:30 PM	8:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROFOL	BROFOL
Applied By:	Dobbels	REEB
Air Temperature, Unit:	65 F	72.5 F
% Relative Humidity:	42	69.1
Wind Velocity, Unit:	6.5 MPH	4.9 MPH
Wind Direction:	E	SSW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	54 F	66 F
Soil Moisture:	SLIWET	DRY
% Cloud Cover:	50	30
Next Moisture Occurred On:	Apr-28-2013	May-31-2013
Time to Next Moisture, Unit:	1 DAY	1 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V4 100
Height, Unit:		12 IN
Height Minimum, Maximum:		10 12

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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:	1.3 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:	18.6 M2	
Pest 3 Code, Type, Scale:	ERYRE W	ERYRE W
Stage Majority, Percent:	59 90	67 100
Diameter, Unit:	3 IN	
Height, Unit:	3 IN	8 IN
Height Minimum, Maximum:	3 4	8 9
Density, Unit:	5.3 M2	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:	1.3 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	
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	9 IN
Height Minimum, Maximum:	0.5 0.5	9 10
Density, Unit:	13.3 M2	8 M2
Pest 8 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		13 100
Height, Unit:		6 IN
Height Minimum, Maximum:		6 7
Density, Unit:		279 M2
Pest 9 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:		19 100
Height, Unit:		6 IN
Height Minimum, Maximum:		4 8
Density, Unit:		14.6 M2
Pest10 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		19 100
Height, Unit:		9 IN
Height Minimum, Maximum:		9 10
Density, Unit:		4 M2
Pest11 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:		18 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 6
Density, Unit:		0.25 M2

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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Location: WESTERN BRANCH F-10 E Trial Year:
Investigator: Dr. Mark M. Loux
Study Director: Anthony F. Dobbels
Sponsor Contact: Joe Reed, FMC

Pest Code	LAMPU	CAPBP	ERYRE	ERICA	SETFA	AMBTR	VERAR
Crop Code	May-9-2013	May-9-201	May-9-2013	May-9-2013	May-9-2013	May-9-201	May-9-201
Rating Date		3				3	3
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Days After First/Last Applic.	12 12	12 12	12 12	12 12	12 12	12 12	12 12
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1
Days After Emergence	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1

Trt No.	Treatment Name	Other Rate	Other Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	UTC					0 c	0 b	0 c	0 b	0 b	0 a	0 b
2	Authority MTZ	5.5 oz/a		PRE	A	50 b	90 a	60 b	47 a	32 a	12 a	83 a
	2 Gramoxone Inteon	1.5 pt/a		PRE	A							
	2 NIS	4.8 oz/a		PRE	A							
	2 N-PAK AMS	1.5 qt/a		PRE	A							
	2 Anthem ATZ	32 oz/a		POST	B							
	2 Atrazine	2 pt/a		POST	B							
	2 Roundup PowerMax	32 oz/a		POST	B							
	2 N-PAK AMS	1.5 qt/a		POST	B							
3	Authority MTZ	5.5 oz/a		PRE	A	53 b	93 a	97 a	100 a	29 a	16 a	93 a
	3 Gramoxone Inteon	2 pt/a		PRE	A							
	3 NIS	4.8 oz/a		PRE	A							
	3 N-PAK AMS	1.5 qt/a		PRE	A							
	3 Anthem ATZ	32 oz/a		POST	B							
	3 Atrazine	2 pt/a		POST	B							
	3 Roundup PowerMax	32 oz/a		POST	B							
	3 N-PAK AMS	1.5 qt/a		POST	B							
4	Spartan	2.4 oz/a		PRE	A	87 a	100 a	78 ab	50 a	32 a	2 a	70 a
	4 Metribuzine	5 oz/a		PRE	A							
	4 Gramoxone Inteon	1.5 pt/a		PRE	A							
	4 NIS	4.8 oz/a		PRE	A							
	4 N-PAK AMS	1.5 qt/a		PRE	A							
	4 Anthem ATZ	32 oz/a		POST	B							
	4 Atrazine	2 pt/a		POST	B							
	4 Roundup PowerMax	32 oz/a		POST	B							
	4 N-PAK AMS	1.5 qt/a		POST	B							
5	Spartan	2.4 oz/a		PRE	A	93 a	83 a	70 ab	97 a	22 a	20 a	90 a
	5 Metribuzine	5 oz/a		PRE	A							
	5 Gramoxone Inteon	2 pt/a		PRE	A							
	5 NIS	4.8 oz/a		PRE	A							
	5 N-PAK AMS	1.5 qt/a		PRE	A							
	5 Anthem ATZ	32 oz/a		POST	B							
	5 Atrazine	2 pt/a		POST	B							
	5 Roundup PowerMax	32 oz/a		POST	B							
	5 N-PAK AMS	1.5 qt/a		POST	B							
6	Spartan	1.6 oz/a		PRE	A	100 a	100 a	82 ab	100 a	23 a	12 a	100 a
	6 Metribuzine	5 oz/a		PRE	A							
	6 Gramoxone Inteon	1.5 pt/a		PRE	A							
	6 NIS	4.8 oz/a		PRE	A							
	6 N-PAK AMS	1.5 qt/a		PRE	A							
	6 Anthem ATZ	32 oz/a		POST	B							
	6 Atrazine	2 pt/a		POST	B							
	6 Roundup PowerMax	32 oz/a		POST	B							
	6 N-PAK AMS	1.5 qt/a		POST	B							

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
t=Mean descriptions are reported in transformed data units, and are not de-transformed.
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code	LAMPU	CAPBP	ERYRE	ERICA	SETFA	AMBTR	VERAR					
Crop Code												
Rating Date	May-9-2013	May-9-201	May-9-2013	May-9-2013	May-9-2013	May-9-201	May-9-201					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	12 12	12 12	12 12	12 12	12 12	12 12	12 12					
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A					
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1	12 DP-1					
Days After Emergence	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
7	Spartan	1.6 oz/a		PRE	A	100 a	77 a	83 ab	100 a	26 a	20 a	90 a
7	Metribuzine	5 oz/a		PRE	A							
7	Gramoxone Inteon	2 pt/a		PRE	A							
7	NIS	4.8 oz/a		PRE	A							
7	N-PAK AMS	1.5 qt/a		PRE	A							
7	Anthem ATZ	32 oz/a		POST	B							
7	Atrazine	2 pt/a		POST	B							
7	Roundup PowerMax	32 oz/a		POST	B							
7	N-PAK AMS	1.5 qt/a		POST	B							
8	Spartan	1.6 oz/a		PRE	A	88 a	100 a	97 a	100 a	48 a	36 a	100 a
8	Metribuzine	5 oz/a		PRE	A							
8	Gramoxone Inteon	2 pt/a		PRE	A							
8	2,4-D	1 pt/a		PRE	A							
8	NIS	4.8 oz/a		PRE	A							
8	N-PAK AMS	1.5 qt/a		PRE	A							
8	Anthem ATZ	32 oz/a		POST	B							
8	Atrazine	2 pt/a		POST	B							
8	Roundup PowerMax	32 oz/a		POST	B							
8	N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)						21.7	34.9	18.9	36.2	20.4t	28.4t	31.4
Standard Deviation						12.4	19.9	10.8	20.7	11.7t	16.2t	17.9
CV						17.35	24.8	15.24	27.85	39.98	79.72	22.89
Bartlett's X2						1.643	3.013	5.483	5.522	7.217	4.189	4.463
P(Bartlett's X2)						0.801	0.39	0.36	0.063	0.301	0.381	0.347
Skewness						-1.1306*	-1.642*	-1.3899*	-1.0567*	0.1076	0.2047	-1.6093*
Kurtosis						0.0404	1.2099	1.2253	-0.821	0.654	-0.7608	1.1834
Replicate F						0.861	0.293	3.013	2.529	6.436	1.735	1.919
Replicate Prob(F)						0.4441	0.7502	0.0816	0.1155	0.0104	0.2122	0.1835
Treatment F						23.751	8.513	25.011	10.059	3.596	1.493	10.222
Treatment Prob(F)						0.0001	0.0004	0.0001	0.0002	0.0199	0.2476	0.0001

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Pest Code	STEME						ERICA		SETFA			
Crop Code	ZEAMX		ZEAMX		ZEAMX							
Rating Date	May-9-201	May-20-2013	May-20-2013	May-29-201	May-29-2013	May-29-2013						
Rating Type	3		3		3							
Rating Unit	CONTRO		PHYCHL		PHYNEC		PHYCHL		CONTRO			
Days After First/Last Applic.	%		%		%		%		%			
Trt-Eval Interval	12	12	23	23	23	23	32	32	32	32		
Plant-Eval Interval	12	DA-A	23	DA-A	23	DA-A	32	DA-A	32	DA-A		
Days After Emergence	12	DP-1	23	DP-1	23	DP-1	32	DP-1	32	DP-1		
Days After Emergence	-4	DE-1	7	DE-1	7	DE-1	16	DE-1	16	DE-1		
Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	8	9	10	11	12	13
1	UTC						0 b	2 a	1 a	1 ab	0 b	0 a
2	Authority MTZ	5.5 oz/a			PRE	A	100 a	3 a	1 a	4 a	87 a	0 a
	Gramoxone Inteon	1.5 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
3	Authority MTZ	5.5 oz/a			PRE	A	98 a	4 a	0 a	2 ab	100 a	2 a
	Gramoxone Inteon	2 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
4	Spartan	2.4 oz/a			PRE	A	87 a	5 a	1 a	1 ab	100 a	9 a
	Metribuzine	5 oz/a			PRE	A						
	Gramoxone Inteon	1.5 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
5	Spartan	2.4 oz/a			PRE	A	100 a	3 a	0 a	2 ab	95 a	2 a
	Metribuzine	5 oz/a			PRE	A						
	Gramoxone Inteon	2 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
6	Spartan	1.6 oz/a			PRE	A	100 a	7 a	0 a	2 ab	100 a	11 a
	Metribuzine	5 oz/a			PRE	A						
	Gramoxone Inteon	1.5 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						

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Pest Code Crop Code Rating Date	STEME			ERICA			SETFA				
	May-9-201	May-20-2013	May-20-2013	May-29-201	May-29-2013	May-29-2013	May-29-2013				
Rating Type	3			3							
Rating Unit	CONTRO	PHYCHL	PHYNEC	PHYCHL	CONTRO	CONTRO					
Days After First/Last Applic.	12 12	23 23	23 23	32 32	32 32	32 32					
Trt-Eval Interval	12 DA-A	23 DA-A	23 DA-A	32 DA-A	32 DA-A	32 DA-A					
Plant-Eval Interval	12 DP-1	23 DP-1	23 DP-1	32 DP-1	32 DP-1	32 DP-1					
Days After Emergence	-4 DE-1	7 DE-1	7 DE-1	16 DE-1	16 DE-1	16 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13
7	Spartan	1.6 oz/a		PRE	A	100 a	5 a	1 a	2 ab	100 a	2 a
7	Metribuzine	5 oz/a		PRE	A						
7	Gramoxone Inteon	2 pt/a		PRE	A						
7	NIS	4.8 oz/a		PRE	A						
7	N-PAK AMS	1.5 qt/a		PRE	A						
7	Anthem ATZ	32 oz/a		POST	B						
7	Atrazine	2 pt/a		POST	B						
7	Roundup PowerMax	32 oz/a		POST	B						
7	N-PAK AMS	1.5 qt/a		POST	B						
8	Spartan	1.6 oz/a		PRE	A	99 a	5 a	0 a	0 b	100 a	11 a
8	Metribuzine	5 oz/a		PRE	A						
8	Gramoxone Inteon	2 pt/a		PRE	A						
8	2,4-D	1 pt/a		PRE	A						
8	NIS	4.8 oz/a		PRE	A						
8	N-PAK AMS	1.5 qt/a		PRE	A						
8	Anthem ATZ	32 oz/a		POST	B						
8	Atrazine	2 pt/a		POST	B						
8	Roundup PowerMax	32 oz/a		POST	B						
8	N-PAK AMS	1.5 qt/a		POST	B						
LSD (P=.05)						24.8t	5.4	8.4t	2.3	15.6	1.4t
Standard Deviation						14.2t	3.1	4.8t	1.3	8.9	0.8t
CV						19.1	73.07	128.54	72.44	10.47	136.46
Bartlett's X2						3.05	2.939	0.336	0.406	1.626	0.124
P(Bartlett's X2)						0.218	0.816	0.997	0.999	0.202	1.00
Skewness						-1.8503*	0.6067	0.5817	0.1902	-2.1866*	0.5979
Kurtosis						1.8762*	-0.0992	-1.4577	-1.4235	3.3097*	-1.7212
Replicate F						1.405	0.156	0.414	4.477	0.641	0.491
Replicate Prob(F)						0.2779	0.8574	0.6688	0.0314	0.5415	0.6223
Treatment F						14.228	0.926	0.991	2.823	45.501	0.970
Treatment Prob(F)						0.0001	0.5161	0.4762	0.0467	0.0001	0.4885

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Pest Code	AMBTR		CHEAL		ZEAMX		ERICA		SETFA		AMBTR	
Crop Code	May-29-201		May-29-201		Jun-27-2013		Jun-27-2013		Jun-27-2013		Jun-27-201	
Rating Date	3		3								3	
Rating Type	CONTRO		CONTRO		PHYSTU		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%	
Days After First/Last Applic.	32 32		32 32		61 28		61 28		61 28		61 28	
Trt-Eval Interval	32 DA-A		32 DA-A		28 DA-B		28 DA-B		28 DA-B		28 DA-B	
Plant-Eval Interval	32 DP-1		32 DP-1		61 DP-1		61 DP-1		61 DP-1		61 DP-1	
Days After Emergence	16 DE-1		16 DE-1		45 DE-1		45 DE-1		45 DE-1		45 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	14	15	16	17	18	19
1	UTC						0 a	0 b	10 a	36 b	82 a	73 a
2	Authority MTZ	5.5 oz/a			PRE	A	20 a	100 a	0 b	83 ab	73 a	70 a
	Gramoxone Inteon	1.5 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
3	Authority MTZ	5.5 oz/a			PRE	A	20 a	100 a	0 b	86 ab	83 a	68 a
	Gramoxone Inteon	2 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
4	Spartan	2.4 oz/a			PRE	A	13 a	100 a	0 b	85 ab	85 a	68 a
	Metribuzine	5 oz/a			PRE	A						
	Gramoxone Inteon	1.5 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
5	Spartan	2.4 oz/a			PRE	A	10 a	100 a	0 b	99 a	83 a	73 a
	Metribuzine	5 oz/a			PRE	A						
	Gramoxone Inteon	2 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						
6	Spartan	1.6 oz/a			PRE	A	10 a	100 a	0 b	98 a	83 a	70 a
	Metribuzine	5 oz/a			PRE	A						
	Gramoxone Inteon	1.5 pt/a			PRE	A						
	NIS	4.8 oz/a			PRE	A						
	N-PAK AMS	1.5 qt/a			PRE	A						
	Anthem ATZ	32 oz/a			POST	B						
	Atrazine	2 pt/a			POST	B						
	Roundup PowerMax	32 oz/a			POST	B						
	N-PAK AMS	1.5 qt/a			POST	B						

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Pest Code	AMBTR		CHEAL		ZEAMX		ERICA		SETFA		AMBTR	
Crop Code	May-29-201		May-29-201		Jun-27-2013		Jun-27-2013		Jun-27-2013		Jun-27-201	
Rating Date	3		3		3		3		3		3	
Rating Type	CONTRO		CONTRO		PHYSTU		CONTRO		CONTRO		CONTRO	
Rating Unit	%		%		%		%		%		%	
Days After First/Last Applic.	32 32		32 32		61 28		61 28		61 28		61 28	
Trt-Eval Interval	32 DA-A		32 DA-A		28 DA-B		28 DA-B		28 DA-B		28 DA-B	
Plant-Eval Interval	32 DP-1		32 DP-1		61 DP-1		61 DP-1		61 DP-1		61 DP-1	
Days After Emergence	16 DE-1		16 DE-1		45 DE-1		45 DE-1		45 DE-1		45 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	14	15	16	17	18	19	
7	Spartan	1.6 oz/a		PRE	A	20 a	100 a	0 b	98 a	87 a	75 a	
7	Metribuzine	5 oz/a		PRE	A							
7	Gramoxone Inteon	2 pt/a		PRE	A							
7	NIS	4.8 oz/a		PRE	A							
7	N-PAK AMS	1.5 qt/a		PRE	A							
7	Anthem ATZ	32 oz/a		POST	B							
7	Atrazine	2 pt/a		POST	B							
7	Roundup PowerMax	32 oz/a		POST	B							
7	N-PAK AMS	1.5 qt/a		POST	B							
8	Spartan	1.6 oz/a		PRE	A	20 a	100 a	0 b	100 a	83 a	73 a	
8	Metribuzine	5 oz/a		PRE	A							
8	Gramoxone Inteon	2 pt/a		PRE	A							
8	2,4-D	1 pt/a		PRE	A							
8	NIS	4.8 oz/a		PRE	A							
8	N-PAK AMS	1.5 qt/a		PRE	A							
8	Anthem ATZ	32 oz/a		POST	B							
8	Atrazine	2 pt/a		POST	B							
8	Roundup PowerMax	32 oz/a		POST	B							
8	N-PAK AMS	1.5 qt/a		POST	B							
LSD (P=.05)						29.7	0.0	3.1	26.8t	10.9	16.4	
Standard Deviation						17.0	0.0	1.8	15.3t	6.2	9.4	
CV						119.81	0.0	141.42	21.38	7.54	13.12	
Bartlett's X2						0.284	0.0	0.0	2.376	1.987	0.621	
P(Bartlett's X2)						1.00	.	.	0.882	0.961	0.999	
Skewness						0.2376	-2.4219*	3.1075*	-0.5538	0.134	-0.2271	
Kurtosis						-2.0084*	4.2103*	9.3673*	-1.0501	-0.7563	-1.0477	
Replicate F						1.099	0.000	1.000	0.079	0.969	0.012	
Replicate Prob(F)						0.3602	1.0000	0.3927	0.9248	0.4034	0.9882	
Treatment F						0.554	0.000	12.000	3.526	1.231	0.228	
Treatment Prob(F)						0.7807	1.0000	0.0001	0.0214	0.3496	0.9715	

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Pest Code CHEAL
 Crop Code
 Rating Date Jun-27-201
 3
 Rating Type CONTRO
 Rating Unit %
 Days After First/Last Applic. 61 28
 Trt-Eval Interval 28 DA-B
 Plant-Eval Interval 61 DP-1
 Days After Emergence 45 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	20
1	UTC					100 a
2	Authority MTZ	5.5 oz/a		PRE	A	100 a
2	Gramoxone Inteon	1.5 pt/a		PRE	A	
2	NIS	4.8 oz/a		PRE	A	
2	N-PAK AMS	1.5 qt/a		PRE	A	
2	Anthem ATZ	32 oz/a		POST	B	
2	Atrazine	2 pt/a		POST	B	
2	Roundup PowerMax	32 oz/a		POST	B	
2	N-PAK AMS	1.5 qt/a		POST	B	
3	Authority MTZ	5.5 oz/a		PRE	A	100 a
3	Gramoxone Inteon	2 pt/a		PRE	A	
3	NIS	4.8 oz/a		PRE	A	
3	N-PAK AMS	1.5 qt/a		PRE	A	
3	Anthem ATZ	32 oz/a		POST	B	
3	Atrazine	2 pt/a		POST	B	
3	Roundup PowerMax	32 oz/a		POST	B	
3	N-PAK AMS	1.5 qt/a		POST	B	
4	Spartan	2.4 oz/a		PRE	A	100 a
4	Metribuzine	5 oz/a		PRE	A	
4	Gramoxone Inteon	1.5 pt/a		PRE	A	
4	NIS	4.8 oz/a		PRE	A	
4	N-PAK AMS	1.5 qt/a		PRE	A	
4	Anthem ATZ	32 oz/a		POST	B	
4	Atrazine	2 pt/a		POST	B	
4	Roundup PowerMax	32 oz/a		POST	B	
4	N-PAK AMS	1.5 qt/a		POST	B	
5	Spartan	2.4 oz/a		PRE	A	100 a
5	Metribuzine	5 oz/a		PRE	A	
5	Gramoxone Inteon	2 pt/a		PRE	A	
5	NIS	4.8 oz/a		PRE	A	
5	N-PAK AMS	1.5 qt/a		PRE	A	
5	Anthem ATZ	32 oz/a		POST	B	
5	Atrazine	2 pt/a		POST	B	
5	Roundup PowerMax	32 oz/a		POST	B	
5	N-PAK AMS	1.5 qt/a		POST	B	
6	Spartan	1.6 oz/a		PRE	A	100 a
6	Metribuzine	5 oz/a		PRE	A	
6	Gramoxone Inteon	1.5 pt/a		PRE	A	
6	NIS	4.8 oz/a		PRE	A	
6	N-PAK AMS	1.5 qt/a		PRE	A	
6	Anthem ATZ	32 oz/a		POST	B	
6	Atrazine	2 pt/a		POST	B	
6	Roundup PowerMax	32 oz/a		POST	B	
6	N-PAK AMS	1.5 qt/a		POST	B	

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Pest Code CHEAL
 Crop Code
 Rating Date Jun-27-201
 Rating Type 3
 Rating Unit CONTRO
 Days After First/Last Applic. %
 Trt-Eval Interval 61 28
 Plant-Eval Interval 28 DA-B
 Days After Emergence 61 DP-1
 45 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	20
7	Spartan	1.6 oz/a		PRE	A	100 a
7	Metribuzine	5 oz/a		PRE	A	
7	Gramoxone Inteon	2 pt/a		PRE	A	
7	NIS	4.8 oz/a		PRE	A	
7	N-PAK AMS	1.5 qt/a		PRE	A	
7	Anthem ATZ	32 oz/a		POST	B	
7	Atrazine	2 pt/a		POST	B	
7	Roundup PowerMax	32 oz/a		POST	B	
7	N-PAK AMS	1.5 qt/a		POST	B	
8	Spartan	1.6 oz/a		PRE	A	100 a
8	Metribuzine	5 oz/a		PRE	A	
8	Gramoxone Inteon	2 pt/a		PRE	A	
8	2,4-D	1 pt/a		PRE	A	
8	NIS	4.8 oz/a		PRE	A	
8	N-PAK AMS	1.5 qt/a		PRE	A	
8	Anthem ATZ	32 oz/a		POST	B	
8	Atrazine	2 pt/a		POST	B	
8	Roundup PowerMax	32 oz/a		POST	B	
8	N-PAK AMS	1.5 qt/a		POST	B	

LSD (P=.05) 0.0
 Standard Deviation 0.0
 CV 0.0
 Bartlett's X2 0.0
 P(Bartlett's X2) .
 Skewness .
 Kurtosis .
 Replicate F 0.000
 Replicate Prob(F) 1.0000
 Treatment F 0.000
 Treatment Prob(F) 1.0000

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Authority MTZ Corn Burndown Trial

Trial ID: 13NTC3
Protocol ID: 13NTC3
Project ID: SULF.COR.13.JPR.10

Location: WESTERN BRANCH F-10 E Trial Year:
Investigator: Dr. Mark M. Loux
Study Director: Anthony F. Dobbels
Sponsor Contact: Joe Reed, FMC

Pest Code

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

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
PHYCHL = phytotoxicity - chlorosis
PHYNEC = phytotoxicity - necrosis /burn
PHYSTU = phytotoxicity - stunting

Rating Unit

% = percent

Plant-Eval Interval

12 DP-1 = 1 ZEAMX Apr-27-2013
23 DP-1 = 1 ZEAMX Apr-27-2013
32 DP-1 = 1 ZEAMX Apr-27-2013
61 DP-1 = 1 ZEAMX Apr-27-2013