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Weed Control Programs with Instigate

Trial ID: 13PRPOC2 Location: WESTERN BRANCH F-8 E Trial Year: 2013
 Protocol ID: 13PRPOC2 Investigator: Dr. Mark M. Loux
 Project ID: US 004 Study Director: Anthony F. Dobbels
 Sponsor Contact: Marsha Martin, DuPont

Crop Description

Crop 1: ZEAMX Zea mays
Variety: Pioneer P1018AMX
Description: RR/LL

BBCH Scale: BCOR

Planting Date: May-6-2013
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: May-17-2013

Planting Rate, Unit: 32097 S/A
Depth, Unit: 2 IN

Soil Temperature, Unit: 58 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDIUM medium

Pest Description

Pest 1 Type: W **Code:** POLPY *Persicaria pensylvanica*
Common Name: Pennsylvania smartweed

Pest 2 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 3 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 4 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Pest 5 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 6 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 7 Type: W **Code:** HIBTR *Hibiscus trionum*
Common Name: Venice mallow

Pest 8 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: velvetleaf

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 12
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: F-8 East
% OM: 3.1 **Texture:** SICL silty clay loam
pH: 5.9 **Soil Name:** Kokomo
CEC: 17.3 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	May-6-2013	Jun-7-2013
Appl. Start Time:	11:30 AM	1:30 PM
Appl. Stop Time:	12:00 PM	2:00 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	60 F	67 F
% Relative Humidity:	100	77
Wind Velocity, Unit:	7 MPH	1.5 MPH
Wind Direction:	SE	NNW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	56 F	64 F
Soil Moisture:	NORMAL	MOIST
% Cloud Cover:	100	50
Next Moisture Occurred On:	May-6-2013	Jun-8-2013
Time to Next Moisture, Unit:	1 HR	1 DAY

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		16 100
Stage Minimum, Percent:		16 100
Stage Maximum, Percent:		16 100
Height, Unit:		13 IN
Height Minimum, Maximum:		13 14

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		18 100
Stage Minimum, Percent:		18 100
Stage Maximum, Percent:		18 100
Height, Unit:		3 IN
Height Minimum, Maximum:		3 4
Density, Unit:		2 M2
Pest 2 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		16 100
Stage Minimum, Percent:		16 100
Stage Maximum, Percent:		16 100
Height, Unit:		5 IN
Height Minimum, Maximum:		5 5
Density, Unit:		12 M2
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		14 100
Stage Minimum, Percent:		14 100
Stage Maximum, Percent:		14 100
Height, Unit:		6 IN
Height Minimum, Maximum:		6 8
Density, Unit:		304 M2
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		18 50
Stage Minimum, Percent:		18 50
Stage Maximum, Percent:		19 50
Height, Unit:		4 IN
Height Minimum, Maximum:		4 8
Density, Unit:		16 M2
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		19 75
Stage Minimum, Percent:		18 25
Stage Maximum, Percent:		19 75
Height, Unit:		8 IN
Height Minimum, Maximum:		8 14
Density, Unit:		12 M2
Pest 6 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		10 50
Stage Minimum, Percent:		10 50
Stage Maximum, Percent:		14 50
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1.5 3
Density, Unit:		4 M2
Pest 7 Code, Type, Scale:	HIBTR W	HIBTR W
Stage Majority, Percent:		14 100
Stage Minimum, Percent:		14 100
Stage Maximum, Percent:		14 100
Height, Unit:		1 IN
Height Minimum, Maximum:		1 3
Pest 8 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		16 75
Stage Minimum, Percent:		10 25
Stage Maximum, Percent:		16 75
Height, Unit:		8 IN
Height Minimum, Maximum:		1 8
Density, Unit:		4 M2

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Application Equipment

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

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Pest Code				SETFA	AMBTR	ABUTH	AMARE	CHEAL	POLPY			
Crop Code				ZEAMX								
Rating Date				May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013			
Rating Type				PHYLMA	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit				%	%	%	%	%	%			
Days After First/Last Applic.				24 24	24 24	24 24	24 24	24 24	24 24			
Trt-Eval Interval				24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A			
Plant-Eval Interval				24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1			
Days After Emergence				13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1			
Trt No.	Treatment Name	Other Rate	Other Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	Instigate 6 oz					0	90	95	100	100	100	100
	1 Rimsulfuron	1 oz/a		PRE	A							
	1 Mesotrione	5 oz/a		PRE	A							
	1 Atrazine	1 qt/a		PRE	A							
	1 Abundit Extra	32 oz/a		POST	B							
	1 N-PAK AMS	1.5 qt/a		POST	B							
2	Instigate 6 oz					1	90	93	100	100	100	100
	2 Rimsulfuron	1 oz/a		PRE	A							
	2 Mesotrione	5 oz/a		PRE	A							
	2 Atrazine	1 qt/a		PRE	A							
	2 Realm Q 4 oz											
	2 Rimsulfuron	1.2 oz/a		POST	B							
	2 Mesotrione	2.5 oz/a		POST	B							
	2 Isoxadifen-Ethyl	0.3 oz/a		POST	B							
	2 Abundit Extra	32 oz/a		POST	B							
	2 N-PAK AMS	1.5 qt/a		POST	B							
3	Instigate 6 oz					0	99	98	100	100	100	100
	3 Rimsulfuron	1 oz/a		PRE	A							
	3 Mesotrione	5 oz/a		PRE	A							
	3 Cinch ATZ	3 pt/a		PRE	A							
	3 Abundit Extra	32 oz/a		POST	B							
	3 N-PAK AMS	1.5 qt/a		POST	B							
4	Instigate 6 oz					0	99	97	100	100	100	100
	4 Rimsulfuron	1 oz/a		PRE	A							
	4 Mesotrione	5 oz/a		PRE	A							
	4 Cinch ATZ	4 pt/a		PRE	A							
5	Instigate 6 oz					0	100	97	100	100	100	100
	5 Rimsulfuron	1 oz/a		PRE	A							
	5 Mesotrione	5 oz/a		PRE	A							
	5 Breakfree ATZ	3 pt/a		PRE	A							
	5 Abundit Extra	32 oz/a		POST	B							
	5 N-PAK AMS	1.5 qt/a		POST	B							
6	Instigate 6 oz					1	100	93	100	100	100	100
	6 Rimsulfuron	1 oz/a		PRE	A							
	6 Mesotrione	5 oz/a		PRE	A							
	6 Breakfree ATZ	3 pt/a		PRE	A							
7	Prequel 1.66 oz					0	99	90	100	100	100	100
	7 Rimsulfuron	1 oz/a		PRE	A							
	7 Isoxaflutole	0.67 oz/a		PRE	A							
	7 Cinch ATZ	3 pt/a		PRE	A							
	7 Abundit Extra	32 oz/a		POST	B							
	7 N-PAK AMS	1.5 qt/a		POST	B							

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

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Pest Code		SETFA	AMBTR	ABUTH	AMARE	CHEAL	POLPY					
Crop Code	ZEAMX											
Rating Date	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013	May-30-2013					
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24	24 24	24 24					
Trt-Eval Interval	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A					
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1					
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1					
Trt No.	Treatment	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
8	Realm Q 4 oz					0	0	0	0	0	0	0
	8 Rimsulfuron	1.2 oz/a		POST	B							
	8 Mesotrione	2.5 oz/a		POST	B							
	8 Isoxadifen-Ethyl	0.3 oz/a		POST	B							
	8 Atrazine	1 qt/a		POST	B							
	8 Abundit Extra	32 oz/a		POST	B							
	8 N-PAK AMS	1.5 qt/a		POST	B							
9	LUMAX EZ	3 qt/a		PRE	A	0	100	97	100	100	100	100
	9 Abundit Extra	32 oz/a		POST	B							
	9 N-PAK AMS	1.5 qt/a		POST	B							
10	Instigate 5.25 oz					0	99	95	100	100	100	100
	10 Rimsulfuron	0.88 oz/a		PRE	A							
	10 Mesotrione	4.38 oz/a		PRE	A							
	10 Cinch ATZ	3 pt/a		PRE	A							
	10 Abundit Extra	32 oz/a		POST	B							
	10 N-PAK AMS	1.5 qt/a		POST	B							
11	Lexar EZ	2 qt/a		PRE	A	0	98	90	100	100	100	100
	11 Abundit Extra	32 oz/a		POST	B							
	11 N-PAK AMS	1.5 qt/a		POST	B							
12	UTC					0	0	0	0	0	0	0
LSD (P=.05)		0.8				0.8	8.8t	6.4	0.2	0.0	0.0	0.0
Standard Deviation		0.5				0.5	6.1t	4.5	0.1	0.0	0.0	0.0
CV		365.08				365.08	8.79	5.68	0.17	0.0	0.0	0.0
Replicate F		0.465				0.465	4.114	1.502	1.000	0.000	0.000	0.000
Replicate Prob(F)		0.7083				0.7083	0.0139	0.2321	0.4051	1.0000	1.0000	1.0000
Treatment F		1.998				1.998	116.625	272.272	290764.665	0.000	0.000	0.000
Treatment Prob(F)		0.0615				0.0615	0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

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Pest Code	SETFA	AMBTR	ABUTH	AMARE	CHEAL	POLPY	SOLPT					
Crop Code	ZEAMX											
Rating Date	Jun-6-2013	Jun-6-2013	Jun-6-2013	Jun-6-2013	Jun-6-2013	Jun-6-2013	Jun-6-2013					
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	31 31	31 31	31 31	31 31	31 31	31 31	31 31					
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A					
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1					
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	20 DE-1	20 DE-1	20 DE-1					
Trt No. Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13	14	15
8 Realm Q 4 oz					0	0	0	0	0	0	0	0
8 Rimsulfuron	1.2 oz/a		POST	B								
8 Mesotrione	2.5 oz/a		POST	B								
8 Isoxadifen-Ethyl	0.3 oz/a		POST	B								
8 Atrazine	1 qt/a		POST	B								
8 Abundit Extra	32 oz/a		POST	B								
8 N-PAK AMS	1.5 qt/a		POST	B								
9 LUMAX EZ	3 qt/a		PRE	A	0	99	79	100	100	100	100	100
9 Abundit Extra	32 oz/a		POST	B								
9 N-PAK AMS	1.5 qt/a		POST	B								
10 Instigate 5.25 oz					0	96	85	100	100	100	100	100
10 Rimsulfuron	0.88 oz/a		PRE	A								
10 Mesotrione	4.38 oz/a		PRE	A								
10 Cinch ATZ	3 pt/a		PRE	A								
10 Abundit Extra	32 oz/a		POST	B								
10 N-PAK AMS	1.5 qt/a		POST	B								
11 Lexar EZ	2 qt/a		PRE	A	0	94	69	100	100	100	100	100
11 Abundit Extra	32 oz/a		POST	B								
11 N-PAK AMS	1.5 qt/a		POST	B								
12 UTC					0	0	0	0	0	0	0	0
LSD (P=.05)	0.4				0.4	13.6t	11.8	0.4	0.0	0.4	0.4	0.0
Standard Deviation	0.3				0.3	9.4t	8.2	0.3	0.0	0.3	0.3	0.0
CV	692.82				692.82	14.71	12.06	0.35	0.0	0.35	0.35	0.0
Replicate F	1.000				1.000	2.468	2.049	1.000	0.000	1.000	1.000	0.000
Replicate Prob(F)	0.4051				0.4051	0.0793	0.1260	0.4051	1.0000	0.4051	0.4051	1.0000
Treatment F	1.000				1.000	45.182	62.835	72655.553	0.000	72655.553	72655.553	0.000
Treatment Prob(F)	0.4671				0.4671	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000

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Pest Code	ZEAMX		SETFA	AMBTR	ABUTH	AMARE	CHEAL	POLPY				
Crop Code	Jun-14-2013		Jun-20-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013				
Rating Date	PHYLMA		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Type	%		%	%	%	%	%	%				
Rating Unit	%		%	%	%	%	%	%				
Days After First/Last Applic.	39 7		45 13	45 13	45 13	45 13	45 13	45 13				
Trt-Eval Interval	7 DA-B		13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B				
Plant-Eval Interval	39 DP-1		45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1				
Days After Emergence	28 DE-1		34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	16	17	18	19	20	21	22
1	Instigate 6 oz					0	79	90	100	100	100	100
1	Rimsulfuron	1 oz/a		PRE	A							
1	Mesotrione	5 oz/a		PRE	A							
1	Atrazine	1 qt/a		PRE	A							
1	Abundit Extra	32 oz/a		POST	B							
1	N-PAK AMS	1.5 qt/a		POST	B							
2	Instigate 6 oz					3	98	81	100	100	100	100
2	Rimsulfuron	1 oz/a		PRE	A							
2	Mesotrione	5 oz/a		PRE	A							
2	Atrazine	1 qt/a		PRE	A							
2	Realm Q 4 oz											
2	Rimsulfuron	1.2 oz/a		POST	B							
2	Mesotrione	2.5 oz/a		POST	B							
2	Isoxadifen-Ethyl	0.3 oz/a		POST	B							
2	Abundit Extra	32 oz/a		POST	B							
2	N-PAK AMS	1.5 qt/a		POST	B							
3	Instigate 6 oz					0	100	84	100	100	100	100
3	Rimsulfuron	1 oz/a		PRE	A							
3	Mesotrione	5 oz/a		PRE	A							
3	Cinch ATZ	3 pt/a		PRE	A							
3	Abundit Extra	32 oz/a		POST	B							
3	N-PAK AMS	1.5 qt/a		POST	B							
4	Instigate 6 oz					0	69	66	100	100	100	100
4	Rimsulfuron	1 oz/a		PRE	A							
4	Mesotrione	5 oz/a		PRE	A							
4	Cinch ATZ	4 pt/a		PRE	A							
5	Instigate 6 oz					1	98	81	100	100	100	100
5	Rimsulfuron	1 oz/a		PRE	A							
5	Mesotrione	5 oz/a		PRE	A							
5	Breakfree ATZ	3 pt/a		PRE	A							
5	Abundit Extra	32 oz/a		POST	B							
5	N-PAK AMS	1.5 qt/a		POST	B							
6	Instigate 6 oz					1	61	61	100	100	100	100
6	Rimsulfuron	1 oz/a		PRE	A							
6	Mesotrione	5 oz/a		PRE	A							
6	Breakfree ATZ	3 pt/a		PRE	A							
7	Prequel 1.66 oz					0	99	64	100	100	100	100
7	Rimsulfuron	1 oz/a		PRE	A							
7	Isoxaflutole	0.67 oz/a		PRE	A							
7	Cinch ATZ	3 pt/a		PRE	A							
7	Abundit Extra	32 oz/a		POST	B							
7	N-PAK AMS	1.5 qt/a		POST	B							

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Pest Code		SETFA	AMBTR	ABUTH	AMARE	CHEAL	POLPY					
Crop Code	ZEAMX											
Rating Date	Jun-14-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013	Jun-20-2013					
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%	%					
Days After First/Last Applic.	39 7	45 13	45 13	45 13	45 13	45 13	45 13					
Trt-Eval Interval	7 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B					
Plant-Eval Interval	39 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1					
Days After Emergence	28 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1	34 DE-1					
Trt No.	Treatment Name	Other Rate	Other Unit	Growth Stage	Appl Code	16	17	18	19	20	21	22
8	Realm Q 4 oz					0	98	87	100	99	94	100
	8 Rimsulfuron	1.2 oz/a		POST	B							
	8 Mesotrione	2.5 oz/a		POST	B							
	8 Isoxadifen-Ethyl	0.3 oz/a		POST	B							
	8 Atrazine	1 qt/a		POST	B							
	8 Abundit Extra	32 oz/a		POST	B							
	8 N-PAK AMS	1.5 qt/a		POST	B							
9	LUMAX EZ	3 qt/a		PRE	A	1	100	86	100	100	100	100
	9 Abundit Extra	32 oz/a		POST	B							
	9 N-PAK AMS	1.5 qt/a		POST	B							
10	Instigate 5.25 oz					1	99	75	100	100	100	100
	10 Rimsulfuron	0.88 oz/a		PRE	A							
	10 Mesotrione	4.38 oz/a		PRE	A							
	10 Cinch ATZ	3 pt/a		PRE	A							
	10 Abundit Extra	32 oz/a		POST	B							
	10 N-PAK AMS	1.5 qt/a		POST	B							
11	Lexar EZ	2 qt/a		PRE	A	0	100	74	100	100	100	100
	11 Abundit Extra	32 oz/a		POST	B							
	11 N-PAK AMS	1.5 qt/a		POST	B							
12	UTC					0	0	0	0	0	0	0
LSD (P=.05)						2.0	17.7	19.5	0.0	1.0	2.0	0.0
Standard Deviation						1.4	12.2	13.5	0.0	0.7	1.4	0.0
CV						282.13	14.69	19.14	0.0	0.79	1.52	0.0
Replicate F						0.475	2.514	2.411	0.000	1.000	1.000	0.000
Replicate Prob(F)						0.7021	0.0754	0.0844	1.0000	0.4051	0.4051	1.0000
Treatment F						1.256	23.321	12.751	0.000	6386.455	1732.438	0.000
Treatment Prob(F)						0.2916	0.0001	0.0001	1.0000	0.0001	0.0001	1.0000

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Pest Code	SOLPT	IPOHE	SETFA	AMBTR	ABUTH	AMARE	CHEAL	POLPY						
Crop Code														
Rating Date	Jun-20-2013	Jun-20-2013	Jul-1-2013	Jul-1-2013	Jul-1-2013	Jul-1-2013	Jul-1-2013	Jul-1-2013						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%	%	%	%						
Days After First/Last Applic.	45 13	45 13	56 24	56 24	56 24	56 24	56 24	56 24						
Trt-Eval Interval	13 DA-B	13 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B	24 DA-B						
Plant-Eval Interval	45 DP-1	45 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1						
Days After Emergence	34 DE-1	34 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1	45 DE-1						
Trt No.	Treatment Name	Other Rate	Other Unit	Growth Stage	Appl Code	23	24	25	26	27	28	29	30	
8	Realm Q 4 oz					100		98	96	84	100	100	98	100
	8 Rimsulfuron	1.2 oz/a		POST	B									
	8 Mesotrione	2.5 oz/a		POST	B									
	8 Isoxadifen-Ethyl	0.3 oz/a		POST	B									
	8 Atrazine	1 qt/a		POST	B									
	8 Abundit Extra	32 oz/a		POST	B									
	8 N-PAK AMS	1.5 qt/a		POST	B									
9	LUMAX EZ	3 qt/a		PRE	A	100		99	100	83	100	100	100	100
	9 Abundit Extra	32 oz/a		POST	B									
	9 N-PAK AMS	1.5 qt/a		POST	B									
10	Instigate 5.25 oz					100		98	98	78	100	100	100	100
	10 Rimsulfuron	0.88 oz/a		PRE	A									
	10 Mesotrione	4.38 oz/a		PRE	A									
	10 Cinch ATZ	3 pt/a		PRE	A									
	10 Abundit Extra	32 oz/a		POST	B									
	10 N-PAK AMS	1.5 qt/a		POST	B									
11	Lexar EZ	2 qt/a		PRE	A	100		99	94	74	100	100	100	100
	11 Abundit Extra	32 oz/a		POST	B									
	11 N-PAK AMS	1.5 qt/a		POST	B									
12	UTC					0		0	0	0	0	0	0	0
LSD (P=.05)						0.0		16.0t	17.0	22.6	0.0	0.0	2.1	0.0
Standard Deviation						0.0		11.1t	11.8	15.7	0.0	0.0	1.4	0.0
CV						0.0		15.07	14.55	20.83	0.0	0.0	1.58	0.0
Replicate F						0.000		1.245	0.954	1.169	0.000	0.000	1.000	0.000
Replicate Prob(F)						1.0000		0.3092	0.4257	0.3363	1.0000	1.0000	0.4051	1.0000
Treatment F						0.000		19.208	22.581	10.390	0.000	0.000	1593.727	0.000
Treatment Prob(F)						1.0000		0.0001	0.0001	0.0001	1.0000	1.0000	0.0001	1.0000

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Pest Code	SOLPT	IPOHE	
Crop Code			
Rating Date	Jul-1-2013	Jul-1-2013	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Days After First/Last Applic.	56 24	56 24	
Trt-Eval Interval	24 DA-B	24 DA-B	
Plant-Eval Interval	56 DP-1	56 DP-1	
Days After Emergence	45 DE-1	45 DE-1	

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	31	32
1	Instigate 6 oz					100	99
1	Rimsulfuron	1 oz/a		PRE	A		
1	Mesotrione	5 oz/a		PRE	A		
1	Atrazine	1 qt/a		PRE	A		
1	Abundit Extra	32 oz/a		POST	B		
1	N-PAK AMS	1.5 qt/a		POST	B		
2	Instigate 6 oz					100	100
2	Rimsulfuron	1 oz/a		PRE	A		
2	Mesotrione	5 oz/a		PRE	A		
2	Atrazine	1 qt/a		PRE	A		
2	Realm Q 4 oz						
2	Rimsulfuron	1.2 oz/a		POST	B		
2	Mesotrione	2.5 oz/a		POST	B		
2	Isoxadifen-Ethyl	0.3 oz/a		POST	B		
2	Abundit Extra	32 oz/a		POST	B		
2	N-PAK AMS	1.5 qt/a		POST	B		
3	Instigate 6 oz					100	94
3	Rimsulfuron	1 oz/a		PRE	A		
3	Mesotrione	5 oz/a		PRE	A		
3	Cinch ATZ	3 pt/a		PRE	A		
3	Abundit Extra	32 oz/a		POST	B		
3	N-PAK AMS	1.5 qt/a		POST	B		
4	Instigate 6 oz					100	100
4	Rimsulfuron	1 oz/a		PRE	A		
4	Mesotrione	5 oz/a		PRE	A		
4	Cinch ATZ	4 pt/a		PRE	A		
5	Instigate 6 oz					100	100
5	Rimsulfuron	1 oz/a		PRE	A		
5	Mesotrione	5 oz/a		PRE	A		
5	Breakfree ATZ	3 pt/a		PRE	A		
5	Abundit Extra	32 oz/a		POST	B		
5	N-PAK AMS	1.5 qt/a		POST	B		
6	Instigate 6 oz					100	88
6	Rimsulfuron	1 oz/a		PRE	A		
6	Mesotrione	5 oz/a		PRE	A		
6	Breakfree ATZ	3 pt/a		PRE	A		
7	Prequel 1.66 oz					100	99
7	Rimsulfuron	1 oz/a		PRE	A		
7	Isoxaflutole	0.67 oz/a		PRE	A		
7	Cinch ATZ	3 pt/a		PRE	A		
7	Abundit Extra	32 oz/a		POST	B		
7	N-PAK AMS	1.5 qt/a		POST	B		

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Pest Code	SOLPT		IPOHE				
Crop Code							
Rating Date	Jul-1-2013		Jul-1-2013				
Rating Type	CONTRO		CONTRO				
Rating Unit	%		%				
Days After First/Last Applic.	56	24	56	24			
Trt-Eval Interval	24 DA-B		24 DA-B				
Plant-Eval Interval	56 DP-1		56 DP-1				
Days After Emergence	45 DE-1		45 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	31	32
8	Realm Q 4 oz					100	96
8	Rimsulfuron	1.2 oz/a		POST	B		
8	Mesotrione	2.5 oz/a		POST	B		
8	Isoxadifen-Ethyl	0.3 oz/a		POST	B		
8	Atrazine	1 qt/a		POST	B		
8	Abundit Extra	32 oz/a		POST	B		
8	N-PAK AMS	1.5 qt/a		POST	B		
9	LUMAX EZ	3 qt/a		PRE	A	100	100
9	Abundit Extra	32 oz/a		POST	B		
9	N-PAK AMS	1.5 qt/a		POST	B		
10	Instigate 5.25 oz					100	99
10	Rimsulfuron	0.88 oz/a		PRE	A		
10	Mesotrione	4.38 oz/a		PRE	A		
10	Cinch ATZ	3 pt/a		PRE	A		
10	Abundit Extra	32 oz/a		POST	B		
10	N-PAK AMS	1.5 qt/a		POST	B		
11	Lexar EZ	2 qt/a		PRE	A	100	99
11	Abundit Extra	32 oz/a		POST	B		
11	N-PAK AMS	1.5 qt/a		POST	B		
12	UTC					0	0
LSD (P=.05)						0.0	15.1t
Standard Deviation						0.0	10.4t
CV						0.0	13.61
Replicate F						0.000	0.512
Replicate Prob(F)						1.0000	0.6770
Treatment F						0.000	22.888
Treatment Prob(F)						1.0000	0.0001

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Weed Control Programs with Instigate

Trial ID: 13PRPOC2 Location: WESTERN BRANCH F-8 E Trial Year: 2013
Protocol ID: 13PRPOC2 Investigator: Dr. Mark M. Loux
Project ID: US 004 Study Director: Anthony F. Dobbels
Sponsor Contact: Marsha Martin, DuPont

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
ABUTH, *Abutilon theophrasti*, = US
AMARE, *Amaranthus retroflexus*, = US
CHEAL, *Chenopodium album*, = US
POLPY, *Persicaria pensylvanica*, = US
SOLPT, *Solanum ptycanthum*, = US
IPOHE, *Ipomoea hederacea*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

PHYLMA = phytotoxicity - leaf malformation
CONTRO = control / burndown or knockdown
PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

24 DP-1 = 1 ZEAMX May-6-2013
31 DP-1 = 1 ZEAMX May-6-2013
39 DP-1 = 1 ZEAMX May-6-2013
45 DP-1 = 1 ZEAMX May-6-2013
56 DP-1 = 1 ZEAMX May-6-2013