Ohio State University
Horticulture and Crop Science

PRE fb POST WEED CONTROL IN CORN I

Title No. 2:
Trial ID: 10PRPOC1 Protocol ID: 10PRPOC1
Location: WESTERN BRANCH F-7 Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact:

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.86024 N
State/Prov.: Ohio **Longitude of LL Corner °:** 83.67149 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1109.00 FT
Country: USA

Personnel

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Affiliation: The Ohio State University
Address: 7721 South Charleston Pike
Location: South Charleston OH
Postal Code: 45368 **E-mail:** dobbels.1@osu.edu
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: SEED CONSULTANTS 11HQ38 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** 4/20/10
Planting Method: SEEDED seeded **Rate, Unit:** 32097 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: SMOOTH smooth **Soil Temperature, Unit:** 55 F
Soil Moisture: DRY dry **Emergence Date:** 5/3/10
Harvest Date: 9/14/10 **Harvest Equipment:** MASSEY 8 XP
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 30 FT
% Standard Moisture: 15.5 **Moisture Meter:** HARVEST MASTER
Weighing Equipment: HARVEST MASTER 401

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 3 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed

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

Pest 5 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 200.1 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-7 East
% OM: 1.8 **Texture:** SIL silt loam
pH: 6.1 **Soil Name:** Crosby
CEC: 16 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	4/20/10	5/31/10
Time of Day:	3:00 P.M.	10:00 A.M
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOI	BROFO
Applied By:	Loux	Ackley
Air Temperature, Unit:	64 F	78 F
% Relative Humidity:	32	72
Wind Velocity, Unit:	3 MPH	6 MPH
Wind Direction:	N	ESE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	58 F	74 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	15	15
Next Rain Occurred On:	4/24/10	6/2/10

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
Height, Unit:		15 IN
Height Minimum, Maximum:		14 17

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		14 100
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		62.4 M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		18 100
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		5.2 M2
Pest 3 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		15 100
Height, Unit:		4 IN
Height Minimum, Maximum:		4 5
Density, Unit:		13.2 M2
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		16 100
Height, Unit:		4 IN
Height Minimum, Maximum:		2 4
Density, Unit:		32 M2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		15 100
Height, Unit:		4 IN
Height Minimum, Maximum:		3 4

Application Equipment

	A	B
Appl. Equipment:	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	53 PSI	53 PSI
Nozzle Type:	TEEJET DG	TEEJET DG
Nozzle Size:	8002	8002
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:	20 GPA	20 GPA
Mix Size, Unit:	0.33 Gallons	0.33 Gallons
Propellant:	CO2	CO2

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Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Code				SETFA	AMBTR	CHEAL	AMARE	ABUTH	POLPY	AMBEL	
Crop Code											ZEAMX
Rating Date				5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	6/7/10
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN
Rating Unit				%	%	%	%	%	%	%	%
Trt-Eval Interval				41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	7 DA-B
Plant-Eval Interval				41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	48 DP-1
Days After Emergence				28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	35 DE-
Trt No. Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5	6	7	8
1 Integrity	5.57	16	oz/a	A	92	87	100	100	100	100	100	0
1 Guardsman Max	5	1.5	pt/a									
2 Integrity	5.57	16	oz/a	A	98	83	100	100	97	97	100	0
2 Roundup PowerMax	4.5	22	oz/a	B								
2 NIS	100	6.4	oz/a									
2 N-PAK AMS	100	4	qt/a									
3 Lexar	3.7	2.25	qt/a	A	100	79	100	100	100	93	100	0
3 Roundup PowerMax	4.5	22	oz/a	B								
3 NIS	100	6.4	oz/a									
3 N-PAK AMS	100	4	qt/a									
4 Corvus	2.63	3.33	oz/a	A	92	86	100	100	100	100	100	0
4 Atrazine	4	1	qt/a									
4 Roundup PowerMax	4.5	22	oz/a	B								
4 NIS	100	6.4	oz/a									
4 N-PAK AMS	100	4	qt/a									
5 Harness Extra 5.6	5.6	1.5	qt/a	A	98	72	94	100	88	88	100	0
5 Roundup PowerMax	4.5	22	oz/a	B								
5 NIS	100	6.4	oz/a									
5 N-PAK AMS	100	4	qt/a									
6 Surestart	4.25	1.75	pt/a	A	88	83	100	100	88	100	100	0
6 Roundup PowerMax	4.5	22	oz/a	B								
6 NIS	100	6.4	oz/a									
6 N-PAK AMS	100	4	qt/a									
7 Integrity	5.57	16	oz/a	A	76	75	95	100	85	80	100	0
7 Roundup PowerMax	4.5	22	oz/a	B								
7 Status	56	2.5	oz/a									
7 NIS	100	6.4	oz/a									
7 N-PAK AMS	100	4	qt/a									
8 Lumax	3.94	2	qt/a	A	99	85	100	100	95	100	100	0
8 Touchdown Total	4.17	24	oz/a	B								
8 N-PAK AMS	100	4	qt/a									
9 Lexar	3.7	2.25	qt/a	A	98	86	100	100	100	100	100	0
9 Touchdown Total	4.17	24	oz/a	B								
9 N-PAK AMS	100	4	qt/a									
10 Bicep II Magnum	5.5	1.3	qt/a	A	71	53	53	93	57	67	83	0
10 Touchdown Total	4.17	24	oz/a	B								
10 N-PAK AMS	100	4	qt/a									
11 Bicep II Magnum	5.5	1.3	qt/a	A	72	57	60	100	27	55	91	0
11 Halex GT	4.38	3.6	pt/a	B								
11 NIS	100	6.4	oz/a									
11 N-PAK AMS	100	4	qt/a									
12 Lexar	3.7	1.75	qt/a	A	92	83	100	100	99	100	100	0
12 Halex GT	4.38	3.6	pt/a	B								
12 NIS	100	6.4	oz/a									
12 N-PAK AMS	100	4	qt/a									

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Pest Code					SETFA	AMBTR	CHEAL	AMARE	ABUTH	POLPY	AMBEL	
Crop Code												ZEAMX
Rating Date					5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	6/7/10
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN
Rating Unit					%	%	%	%	%	%	%	%
Trt-Eval Interval					41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	7 DA-B
Plant-Eval Interval					41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	48 DP-1
Days After Emergence					28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	28 DE-	35 DE-
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5	6	7	8
13	Lumax	3.94	1.5	qt/a	A	98	80	99	100	100	87	100	0
13	Halex GT	4.38	3.6	pt/a	B								
13	NIS	100	6.4	oz/a									
13	N-PAK AMS	100	4	qt/a									
14	Harness Extra 5.6	5.6	1.5	qt/a	A	95	78	99	100	79	100	100	0
14	Yukon	67.5	4	oz/a	B								
14	Roundup PowerMax	4.5	22	oz/a									
14	NIS	100	3.2	oz/a									
14	N-PAK AMS	100	2	qt/a									
15	Prequel	100			A	50	47	93	83	100	47	93	0
15	rimsulfuron	25	1	oz/a	A								
15	isoxaflutole	75	0.67	oz/a									
15	Abundit	3	32	oz/a	B								
15	N-PAK AMS	100	4	qt/a									
16	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						14.1	14.7	5.4	10.0	19.0	22.0	13.2	0.0
Standard Deviation						8.5	8.8	3.2	6.0	11.4	13.2	7.9	0.0
CV						10.31	12.42	3.7	6.5	13.9	16.05	8.65	0.0
Bartlett's X2						26.979	24.726	8.864	0.648	15.645	11.987	1.682	0.0
P(Bartlett's X2)						0.013*	0.037*	0.115	0.421	0.048*	0.101	0.431	.
Replicate F						3.651	1.149	0.342	0.753	1.078	0.064	2.471	0.000
Replicate Prob(F)						0.0381	0.3306	0.7129	0.4797	0.3531	0.9385	0.1021	1.0000
Treatment F						28.057	19.878	215.804	52.104	20.146	13.422	29.572	0.000
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Pest Code					SETFA	AMBTR	CHEAL	AMARE	ABUTH	POLPY	AMBEL
Crop Code				ZEAMX							
Rating Date				6/14/10	6/14/10	6/14/10	6/14/10	6/14/10	6/14/10	6/14/10	6/14/10
Rating Type				PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%	%	%
Trt-Eval Interval				14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval				55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence				42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	9	10	11	12	13	14	15	16
1	Integrity	5.57	16	oz/a	A	0	68	70	97	87	100	100	100
1	Guardsman Max	5	1.5	pt/a									
2	Integrity	5.57	16	oz/a	A	0	91	87	100	100	100	100	100
2	Roundup PowerMax	4.5	22	oz/a	B								
2	NIS	100	6.4	oz/a									
2	N-PAK AMS	100	4	qt/a									
3	Lexar	3.7	2.25	qt/a	A	0	99	88	100	100	100	100	100
3	Roundup PowerMax	4.5	22	oz/a	B								
3	NIS	100	6.4	oz/a									
3	N-PAK AMS	100	4	qt/a									
4	Corvus	2.63	3.33	oz/a	A	0	94	91	100	100	100	100	100
4	Atrazine	4	1	qt/a									
4	Roundup PowerMax	4.5	22	oz/a	B								
4	NIS	100	6.4	oz/a									
4	N-PAK AMS	100	4	qt/a									
5	Harness Extra 5.6	5.6	1.5	qt/a	A	0	92	87	100	100	100	100	100
5	Roundup PowerMax	4.5	22	oz/a	B								
5	NIS	100	6.4	oz/a									
5	N-PAK AMS	100	4	qt/a									
6	Surestart	4.25	1.75	pt/a	A	0	85	92	100	100	100	100	100
6	Roundup PowerMax	4.5	22	oz/a	B								
6	NIS	100	6.4	oz/a									
6	N-PAK AMS	100	4	qt/a									
7	Integrity	5.57	16	oz/a	A	0	93	91	98	100	100	91	100
7	Roundup PowerMax	4.5	22	oz/a	B								
7	Status	56	2.5	oz/a									
7	NIS	100	6.4	oz/a									
7	N-PAK AMS	100	4	qt/a									
8	Lumax	3.94	2	qt/a	A	0	99	93	100	100	100	98	100
8	Touchdown Total	4.17	24	oz/a	B								
8	N-PAK AMS	100	4	qt/a									
9	Lexar	3.7	2.25	qt/a	A	0	98	92	100	100	100	100	100
9	Touchdown Total	4.17	24	oz/a	B								
9	N-PAK AMS	100	4	qt/a									
10	Bicep II Magnum	5.5	1.3	qt/a	A	0	95	80	68	100	100	78	100
10	Touchdown Total	4.17	24	oz/a	B								
10	N-PAK AMS	100	4	qt/a									
11	Bicep II Magnum	5.5	1.3	qt/a	A	0	90	85	80	100	100	87	100
11	Halex GT	4.38	3.6	pt/a	B								
11	NIS	100	6.4	oz/a									
11	N-PAK AMS	100	4	qt/a									
12	Lexar	3.7	1.75	qt/a	A	0	100	97	100	100	100	100	100
12	Halex GT	4.38	3.6	pt/a	B								
12	NIS	100	6.4	oz/a									
12	N-PAK AMS	100	4	qt/a									

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Pest Code					SETFA	AMBTR	CHEAL	AMARE	ABUTH	POLPY	AMBEL
Crop Code				ZEAMX							
Rating Date				6/14/10	6/14/10	6/14/10	6/14/10	6/14/10	6/14/10	6/14/10	6/14/10
Rating Type				PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%	%	%
Trt-Eval Interval				14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval				55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence				42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-	42 DE-
Trt Treatment No. Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	9	10	11	12	13	14	15	16
13 Lumax	3.94	1.5	qt/a	A	0	100	97	100	100	100	95	100
13 Halex GT	4.38	3.6	pt/a	B								
13 NIS	100	6.4	oz/a									
13 N-PAK AMS	100	4	qt/a									
14 Harness Extra 5.6	5.6	1.5	qt/a	A	0	94	95	100	100	100	100	100
14 Yukon	67.5	4	oz/a	B								
14 Roundup PowerMax	4.5	22	oz/a									
14 NIS	100	3.2	oz/a									
14 N-PAK AMS	100	2	qt/a									
15 Prequel	100			A	0	88	90	82	100	100	57	100
15 rimsulfuron	25	1	oz/a	A								
15 isoxaflutole	75	0.67	oz/a									
15 Abundit	3	32	oz/a	B								
15 N-PAK AMS	100	4	qt/a									
16 UTC					0	0	0	0	0	0	0	0
LSD (P=.05)					0.0	10.0	10.5	10.6	9.6	0.2	14.3	0.0
Standard Deviation					0.0	6.0	6.3	6.3	5.8	0.1	8.6	0.0
CV					0.0	6.9	7.54	7.11	6.21	0.15	9.75	0.0
Bartlett's X2					0.0	14.886	9.425	7.78	0.0	0.0	8.561	0.0
P(Bartlett's X2)					.	0.188	0.803	0.10	.	.	0.128	.
Replicate F					0.000	3.193	3.657	1.620	1.000	1.000	2.131	0.000
Replicate Prob(F)					1.0000	0.0553	0.0379	0.2147	0.3798	0.3798	0.1363	1.0000
Treatment F					0.000	49.934	40.856	49.101	56.250	89961.009	27.993	0.000
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Pest Code					SETFA	AMBTR	CHEAL	AMARE	ABUTH	POLPY	AMBEL	SIDSP
Crop Code												
Rating Date					6/28/10	6/28/10	6/28/10	6/28/10	6/28/10	6/28/10	6/28/10	6/28/10
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%	%	%	%
Trt-Eval Interval					28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval					69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1
Days After Emergence					56 DE-	56 DE-	56 DE-	56 DE-	56 DE-	56 DE-	56 DE-	56 DE-
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	17	18	19	20	21	22	23	24
1	Integrity	5.57	16	oz/a	A	70	75	100	93	100	100	100	87
1	Guardsman Max	5	1.5	pt/a									
2	Integrity	5.57	16	oz/a	A	88	88	100	100	100	100	100	87
2	Roundup PowerMax	4.5	22	oz/a	B								
2	NIS	100	6.4	oz/a									
2	N-PAK AMS	100	4	qt/a									
3	Lexar	3.7	2.25	qt/a	A	100	92	100	100	100	100	100	92
3	Roundup PowerMax	4.5	22	oz/a	B								
3	NIS	100	6.4	oz/a									
3	N-PAK AMS	100	4	qt/a									
4	Corvus	2.63	3.33	oz/a	A	90	96	100	100	98	100	100	92
4	Atrazine	4	1	qt/a									
4	Roundup PowerMax	4.5	22	oz/a	B								
4	NIS	100	6.4	oz/a									
4	N-PAK AMS	100	4	qt/a									
5	Harness Extra 5.6	5.6	1.5	qt/a	A	91	92	100	100	95	100	100	83
5	Roundup PowerMax	4.5	22	oz/a	B								
5	NIS	100	6.4	oz/a									
5	N-PAK AMS	100	4	qt/a									
6	Surestart	4.25	1.75	pt/a	A	81	92	100	100	100	100	100	96
6	Roundup PowerMax	4.5	22	oz/a	B								
6	NIS	100	6.4	oz/a									
6	N-PAK AMS	100	4	qt/a									
7	Integrity	5.57	16	oz/a	A	89	94	100	100	100	100	100	96
7	Roundup PowerMax	4.5	22	oz/a	B								
7	Status	56	2.5	oz/a									
7	NIS	100	6.4	oz/a									
7	N-PAK AMS	100	4	qt/a									
8	Lumax	3.94	2	qt/a	A	100	98	100	100	100	100	100	91
8	Touchdown Total	4.17	24	oz/a	B								
8	N-PAK AMS	100	4	qt/a									
9	Lexar	3.7	2.25	qt/a	A	99	96	100	100	99	100	100	93
9	Touchdown Total	4.17	24	oz/a	B								
9	N-PAK AMS	100	4	qt/a									
10	Bicep II Magnum	5.5	1.3	qt/a	A	89	79	88	100	100	95	100	82
10	Touchdown Total	4.17	24	oz/a	B								
10	N-PAK AMS	100	4	qt/a									
11	Bicep II Magnum	5.5	1.3	qt/a	A	99	97	100	100	100	100	100	99
11	Halex GT	4.38	3.6	pt/a	B								
11	NIS	100	6.4	oz/a									
11	N-PAK AMS	100	4	qt/a									
12	Lexar	3.7	1.75	qt/a	A	100	100	100	100	100	100	100	100
12	Halex GT	4.38	3.6	pt/a	B								
12	NIS	100	6.4	oz/a									
12	N-PAK AMS	100	4	qt/a									

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Pest Code					SETFA	AMBTR	CHEAL	AMARE	ABUTH	POLPY	AMBEL	SIDSP
Crop Code												
Rating Date					6/28/10	6/28/10	6/28/10	6/28/10	6/28/10	6/28/10	6/28/10	6/28/10
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%	%	%	%
Trt-Eval Interval					28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval					69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1	69 DP-1
Days After Emergence					56 DE-	56 DE-	56 DE-	56 DE-	56 DE-	56 DE-	56 DE-	56 DE-
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	17	18	19	20	21	22	23	24
13	Lumax	3.94	1.5	qt/a	A	100	100	100	100	100	100	100	100
13	Halex GT	4.38	3.6	pt/a	B								
13	NIS	100	6.4	oz/a									
13	N-PAK AMS	100	4	qt/a									
14	Harness Extra 5.6	5.6	1.5	qt/a	A	88	99	100	100	100	100	100	88
14	Yukon	67.5	4	oz/a	B								
14	Roundup PowerMax	4.5	22	oz/a									
14	NIS	100	3.2	oz/a									
14	N-PAK AMS	100	2	qt/a									
15	Prequel	100			A	85	91	91	100	100	97	94	85
15	rimsulfuron	25	1	oz/a	A								
15	isoxaflutole	75	0.67	oz/a									
15	Abundit	3	32	oz/a	B								
15	N-PAK AMS	100	4	qt/a									
16	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						8.6	11.5	5.4	4.8	3.7	4.4	4.1	10.6
Standard Deviation						5.1	6.9	3.3	2.9	2.2	2.6	2.5	6.3
CV						6.0	7.94	3.53	3.09	2.39	2.83	2.63	7.41
Bartlett's X2						22.312	20.789	0.162	0.0	6.412	0.315	0.0	16.217
P(Bartlett's X2)						0.014*	0.054	0.688	.	0.041*	0.574	.	0.181
Replicate F						5.774	2.430	2.060	1.000	2.028	0.522	1.000	6.391
Replicate Prob(F)						0.0076	0.1052	0.1451	0.3798	0.1493	0.5984	0.3798	0.0049
Treatment F						67.375	36.905	174.899	224.000	374.408	266.582	310.066	41.453
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Code					SETFA	AMBTR	AMBEL	CHEAL	AMARE	ABUTH	POLPY	SIDSP
Crop Code												
Rating Date					7/20/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%	%	%	%
Trt-Eval Interval					50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B
Plant-Eval Interval					91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1
Days After Emergence					78 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	25	26	27	28	29	30	31	32
1	Integrity	5.57	16	oz/a	A	68	86	100	98	97	100	100	84
1	Guardsman Max	5	1.5	pt/a									
2	Integrity	5.57	16	oz/a	A	86	93	100	100	100	100	100	88
2	Roundup PowerMax	4.5	22	oz/a	B								
2	NIS	100	6.4	oz/a									
2	N-PAK AMS	100	4	qt/a									
3	Lexar	3.7	2.25	qt/a	A	100	93	100	100	100	100	100	86
3	Roundup PowerMax	4.5	22	oz/a	B								
3	NIS	100	6.4	oz/a									
3	N-PAK AMS	100	4	qt/a									
4	Corvus	2.63	3.33	oz/a	A	90	97	100	100	100	100	100	94
4	Atrazine	4	1	qt/a									
4	Roundup PowerMax	4.5	22	oz/a	B								
4	NIS	100	6.4	oz/a									
4	N-PAK AMS	100	4	qt/a									
5	Harness Extra 5.6	5.6	1.5	qt/a	A	93	93	100	100	100	99	100	89
5	Roundup PowerMax	4.5	22	oz/a	B								
5	NIS	100	6.4	oz/a									
5	N-PAK AMS	100	4	qt/a									
6	Surestart	4.25	1.75	pt/a	A	83	91	100	100	100	100	100	91
6	Roundup PowerMax	4.5	22	oz/a	B								
6	NIS	100	6.4	oz/a									
6	N-PAK AMS	100	4	qt/a									
7	Integrity	5.57	16	oz/a	A	89	95	100	100	100	100	100	93
7	Roundup PowerMax	4.5	22	oz/a	B								
7	Status	56	2.5	oz/a									
7	NIS	100	6.4	oz/a									
7	N-PAK AMS	100	4	qt/a									
8	Lumax	3.94	2	qt/a	A	96	98	100	100	100	100	100	94
8	Touchdown Total	4.17	24	oz/a	B								
8	N-PAK AMS	100	4	qt/a									
9	Lexar	3.7	2.25	qt/a	A	97	98	100	100	100	98	100	90
9	Touchdown Total	4.17	24	oz/a	B								
9	N-PAK AMS	100	4	qt/a									
10	Bicep II Magnum	5.5	1.3	qt/a	A	91	87	100	88	100	100	100	84
10	Touchdown Total	4.17	24	oz/a	B								
10	N-PAK AMS	100	4	qt/a									
11	Bicep II Magnum	5.5	1.3	qt/a	A	100	100	100	100	100	100	100	100
11	Halex GT	4.38	3.6	pt/a	B								
11	NIS	100	6.4	oz/a									
11	N-PAK AMS	100	4	qt/a									
12	Lexar	3.7	1.75	qt/a	A	100	100	100	100	100	100	100	100
12	Halex GT	4.38	3.6	pt/a	B								
12	NIS	100	6.4	oz/a									
12	N-PAK AMS	100	4	qt/a									

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Pest Code					SETFA	AMBTR	AMBEL	CHEAL	AMARE	ABUTH	POLPY	SIDSP
Crop Code												
Rating Date					7/20/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10	7/20/10
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit					%	%	%	%	%	%	%	%
Trt-Eval Interval					50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B	50 DA-B
Plant-Eval Interval					91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1
Days After Emergence					78 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-	78 DE-
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	25	26	27	28	29	30	31	32
13	Lumax	3.94	1.5	qt/a	A	100	100	100	100	100	100	100	100
13	Halex GT	4.38	3.6	pt/a	B								
13	NIS	100	6.4	oz/a									
13	N-PAK AMS	100	4	qt/a									
14	Harness Extra 5.6	5.6	1.5	qt/a	A	88	97	100	100	100	100	100	87
14	Yukon	67.5	4	oz/a	B								
14	Roundup PowerMax	4.5	22	oz/a									
14	NIS	100	3.2	oz/a									
14	N-PAK AMS	100	2	qt/a									
15	Prequel	100			A	84	94	100	95	100	100	100	85
15	rimsulfuron	25	1	oz/a	A								
15	isoxaflutole	75	0.67	oz/a									
15	Abundit	3	32	oz/a	B								
15	N-PAK AMS	100	4	qt/a									
16	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						8.7	9.2	0.0	4.6	2.4	1.3	0.2	7.4
Standard Deviation						5.2	5.5	0.0	2.8	1.4	0.8	0.1	4.5
CV						6.08	6.25	0.0	3.01	1.54	0.81	0.15	5.23
Bartlett's X2						19.775	16.999	0.0	1.989	0.0	1.463	0.0	14.691
P(Bartlett's X2)						0.031*	0.15	.	0.37	.	0.226	.	0.144
Replicate F						9.892	1.288	0.000	0.943	1.000	1.771	1.000	5.175
Replicate Prob(F)						0.0005	0.2907	1.0000	0.4008	0.3798	0.1875	0.3798	0.0117
Treatment F						65.459	56.478	0.000	239.652	897.000	3243.892	89961.009	82.536
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Code	IPOHE
Crop Code	
Rating Date	7/20/10
Rating Type	CONTROL
Rating Unit	%
Trt-Eval Interval	50 DA-B
Plant-Eval Interval	91 DP-1
Days After Emergence	78 DE-

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	33
1	Integrity	5.57	16	oz/a	A	94
1	Guardsman Max	5	1.5	pt/a		
2	Integrity	5.57	16	oz/a	A	93
2	Roundup PowerMax	4.5	22	oz/a	B	
2	NIS	100	6.4	oz/a		
2	N-PAK AMS	100	4	qt/a		
3	Lexar	3.7	2.25	qt/a	A	95
3	Roundup PowerMax	4.5	22	oz/a	B	
3	NIS	100	6.4	oz/a		
3	N-PAK AMS	100	4	qt/a		
4	Corvus	2.63	3.33	oz/a	A	93
4	Atrazine	4	1	qt/a		
4	Roundup PowerMax	4.5	22	oz/a	B	
4	NIS	100	6.4	oz/a		
4	N-PAK AMS	100	4	qt/a		
5	Harness Extra 5.6	5.6	1.5	qt/a	A	100
5	Roundup PowerMax	4.5	22	oz/a	B	
5	NIS	100	6.4	oz/a		
5	N-PAK AMS	100	4	qt/a		
6	Surestart	4.25	1.75	pt/a	A	90
6	Roundup PowerMax	4.5	22	oz/a	B	
6	NIS	100	6.4	oz/a		
6	N-PAK AMS	100	4	qt/a		
7	Integrity	5.57	16	oz/a	A	98
7	Roundup PowerMax	4.5	22	oz/a	B	
7	Status	56	2.5	oz/a		
7	NIS	100	6.4	oz/a		
7	N-PAK AMS	100	4	qt/a		
8	Lumax	3.94	2	qt/a	A	87
8	Touchdown Total	4.17	24	oz/a	B	
8	N-PAK AMS	100	4	qt/a		
9	Lexar	3.7	2.25	qt/a	A	95
9	Touchdown Total	4.17	24	oz/a	B	
9	N-PAK AMS	100	4	qt/a		
10	Bicep II Magnum	5.5	1.3	qt/a	A	95
10	Touchdown Total	4.17	24	oz/a	B	
10	N-PAK AMS	100	4	qt/a		
11	Bicep II Magnum	5.5	1.3	qt/a	A	95
11	Halex GT	4.38	3.6	pt/a	B	
11	NIS	100	6.4	oz/a		
11	N-PAK AMS	100	4	qt/a		
12	Lexar	3.7	1.75	qt/a	A	100
12	Halex GT	4.38	3.6	pt/a	B	
12	NIS	100	6.4	oz/a		
12	N-PAK AMS	100	4	qt/a		

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Pest Code	IPOHE
Crop Code	
Rating Date	7/20/10
Rating Type	CONTROL
Rating Unit	%
Trt-Eval Interval	50 DA-B
Plant-Eval Interval	91 DP-1
Days After Emergence	78 DE-

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	33
13	Lumax	3.94	1.5	qt/a	A	100
13	Halex GT	4.38	3.6	pt/a	B	
13	NIS	100	6.4	oz/a		
13	N-PAK AMS	100	4	qt/a		
14	Harness Extra 5.6	5.6	1.5	qt/a	A	97
14	Yukon	67.5	4	oz/a	B	
14	Roundup PowerMax	4.5	22	oz/a		
14	NIS	100	3.2	oz/a		
14	N-PAK AMS	100	2	qt/a		
15	Prequel	100			A	83
15	rimsulfuron	25	1	oz/a	A	
15	isoxaflutole	75	0.67	oz/a		
15	Abundit	3	32	oz/a	B	
15	N-PAK AMS	100	4	qt/a		
16	UTC					0

LSD (P=.05)	9.8
Standard Deviation	5.9
CV	6.62
Bartlett's X2	6.696
P(Bartlett's X2)	0.823
Replicate F	3.065
Replicate Prob(F)	0.0615
Treatment F	50.652
Treatment Prob(F)	0.0001

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PRE fb POST WEED CONTROL IN CORN I

Title No. 2:
Trial ID: 10PRPOC1 Protocol ID: 10PRPOC1
Location: WESTERN BRANCH F-7 Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Code
SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
AMARE, Amaranthus retroflexus, = US
ABUTH, Abutilon theophrasti, = US
POLPY, Polygonum pensylvanicum, = US
AMBEL, Ambrosia artemisiifolia, = US
SIDSP, Sida spinosa, = US
IPOHE, Ipomoea hederacea, = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
PHYGEN = phytotoxicity - general / injury
Rating Unit
% = percent
Plant-Eval Interval
41 DP-1 = 1 4/20/10
48 DP-1 = 1 4/20/10
55 DP-1 = 1 4/20/10
69 DP-1 = 1 4/20/10
91 DP-1 = 1 4/20/10