

Ohio State University
Horticulture and Crop Science

PRE fb POST Weed Control in Corn I DEM-H-2009-US-C9F-02.0

Title No. 2:

Trial ID: 09PRPOC1 Protocol ID: 09PRPOC1
Location: Western Branch F-8 E Study Director: Anthony F. Dobbels
Project ID: 09PRPOC1 Investigator: Dr. Mark M. Loux
Sponsor Contact: Caren Judge, BASF

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: Seed Consultants 11AQ07 **Description:** RR/LL
 BBCH Scale: BCOR **Planting Date:** Apr-26-2009
 Planting Method: SEEDED seeded **Rate, Unit:** 37097 S/A
 Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
 Seed Bed: SMOOTH smooth
 Soil Moisture: NORMAL normal

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:** SOLPT *Solanum ptycanthum*
Common Name: Eastern black nightshade

- Pest 4 Type:** W **Code:** POLPY *Polygonum pensylvanicum*
Common Name: Pennsylvania smartweed

- Pest 5 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

- Pest 6 Type:** W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf

- Pest 7 Type:** W **Code:** CONSS *Convolvulus sp.*
Common Name: Morningglory

Site and Design

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 200.1 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Application Description

	A	B
Application Date:	Apr-27-2009	Jun-5-2009
Time of Day:	7:20 AM	8:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPLA	POST
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	67 F	62 F
% Relative Humidity:	59	82
Wind Velocity, Unit:	7.1 MPH	5 MPH
Wind Direction:	SW	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	56 F	58 F
Soil Moisture:	NORMAL	MOIST
% Cloud Cover:	5	0

Crop Stage At Each Application

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	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		16 100
Height, Unit:		13 IN
Height Minimum, Maximum:		12 15

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		15 50
Height, Unit:		6 in
Height Minimum, Maximum:		2 8
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		14 100
Height, Unit:		6 IN
Height Minimum, Maximum:		4 6
Pest 3 Code, Type, Scale:	SOLPT W	SOLPT W
Stage Majority, Percent:		16 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 3
Pest 4 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		16 100
Height, Unit:		6 IN
Height Minimum, Maximum:		4 6
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		16 100
Height, Unit:		6 IN
Height Minimum, Maximum:		4 6
Pest 6 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		14 100
Height, Unit:		4 IN
Height Minimum, Maximum:		2 4
Pest 7 Code, Type, Scale:	CONSS W	CONSS W
Stage Majority, Percent:		14 100
Height, Unit:		4 IN
Height Minimum, Maximum:		3 4

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:		SPRBAC
Operating Pressure, Unit:	53 PSI	53 PSI
Nozzle Type:	TEEJET DG	TEEJET DG
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 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:	3 L	3 L
Propellant:	CO2	CO2

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot No. Rep. 1	2	3	Notes
1	Lexar	3.7	SE	3.24	lb ai/a	3.5	qt/a	PRE	A	101	214	308	
2	Lumax	3.94	SE	2.96	lb ai/a	3	qt/a	PRE	A	102	206	309	
3	Harness Extra 5.6	5.6	EC	4.2	lb ai/a	3	qt/a	PRE	A	103	209	310	
4	Integrity	5.6	SC	1.09	lb ai/a	25	oz/a	PRE	A	104	213	314	
5	Integrity Atrazine	5.6 4	SC F	1.09 1.5	lb ai/a lb ai/a	25 1.5	oz/a qt/a	PRE PRE	A	105	203	301	
6	Corvus Atrazine	2.63 4	EC F	0.115 1	lb ai/a lb ai/a	5.6 1	oz/a qt/a	PRE PRE	A	106	201	307	
7	Integrity Roundup PowerMax NIS N-PAK AMS	5.6 4.5 100 100	SC SL SL L	0.744 0.77 0.25 5	lb ai/a lb ae/a % v/v % v/v	17 22 6.4 4	oz/a oz/a oz/a qt/a	PRE POST POST POST	A B	107	202	305	
8	Harness Extra 5.6 Roundup PowerMax NIS N-PAK AMS	5.6 4.5 100 100	EC SL SL L	2.1 0.77 0.25 5	lb ai/a lb ae/a % v/v % v/v	1.5 22 6.4 4	qt/a oz/a oz/a qt/a	PRE POST POST POST	A B	108	210	304	
9	Sharpen Roundup PowerMax NIS N-PAK AMS	2.85 4.5 100 100	SC SL SL L	0.067 0.77 0.25 5	lb ai/a lb ae/a % v/v % v/v	3 22 6.4 4	oz/a oz/a oz/a qt/a	PRE POST POST POST	A B	109	211	302	
10	Surestart Roundup PowerMax NIS N-PAK AMS	4.25 4.5 100 100	SE SL SL L	0.93 0.77 0.25 5	lb ai/a lb ae/a % v/v % v/v	1.75 22 6.4 4	pt/a oz/a oz/a qt/a	PRE POST POST POST	A B	110	207	306	
11	Integrity Roundup PowerMax Status NIS N-PAK AMS	5.6 4.5 56 100 100	SC SL WG SL L	0.744 0.77 0.0875 0.25 5	lb ai/a lb ae/a lb ai/a % v/v % v/v	17 22 2.5 6.4 4	oz/a oz/a oz/a oz/a qt/a	PRE POST POST POST POST	A B	111	208	313	
12	Bicep II Magnum Roundup PowerMax NIS N-PAK AMS	5.5 4.5 100 100	EC SL SL L	1.79 0.77 0.25 5	lb ai/a lb ae/a % v/v % v/v	1.3 22 6.4 4	qt/a oz/a oz/a qt/a	PRE POST POST POST	A B	112	205	303	
13	Lexar Roundup PowerMax NIS N-PAK AMS	3.7 4.5 100 100	SE SL SL L	2.08 0.77 0.25 5	lb ai/a lb ae/a % v/v % v/v	2.25 22 6.4 4	qt/a oz/a oz/a qt/a	PRE POST POST POST	A B	113	204	312	
14	Untreated Check									114	212	311	

Sort Order: Replicate 1