

Ohio State University
Horticulture and Crop Science

Halex GT One and Two Pass Programs HAJM01A4

Title No. 2:

Trial ID: 09POC4 Protocol ID: 09POC4
Location: WESTERN BRANCH F-8 M Study Director: Anthony F. Dobbels
Project ID: 09POC4 Investigator: Dr. Mark M. Loux
Sponsor Contact: Dane Bowers, Syngenta

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 33W84 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** Apr-26-2009
Planting Method: SEEDED seeded **Rate, Unit:** 32097 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:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters
Pest 4 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed
Pest 5 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
Pest 6 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

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:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Application Description

	A	B	C	D
Application Date:	Apr-27-2009	May-13-2009	May-30-2009	Jun-5-2009
Time of Day:	7:30 AM	7:30 AM	8:00 AM	8:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PREPLA	EAPOCR	POST	LPO
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	67 F	52 F	62 F	62 F
% Relative Humidity:	59	64	60	82
Wind Velocity, Unit:	7.1 MPH	5.7 MPH	2 MPH	5 MPH
Wind Direction:	SW	E	E	E
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	56 F	51 F	62 F	58 F
Soil Moisture:	NORMAL	DRY	DRY	WET
% Cloud Cover:	5	90	2	0

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:			BBCH		BBCH		BBCH	
Stage Majority, Percent:			12	100	14	100	15	100
Height, Unit:			4	IN	6	IN	12	IN
Height Minimum, Maximum:			3	5	5	7	10	13

Pest Stage At Each Application

Ohio State University
Horticulture and Crop Science

	A	B	C	D
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	14 100	17 50	16 100	14 100
Height, Unit:	9 in	2 IN	6 IN	4 IN
Height Minimum, Maximum:	7 9	1 2	4 6	4 5
Pest 2 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	14 100	10 100	13 100	12 100
Height, Unit:	4 in	1 IN	5 IN	2 IN
Height Minimum, Maximum:	2 4	0.5 1	3 5	2 2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	19 100			
Height, Unit:	10 in			
Height Minimum, Maximum:	7 10			
Pest 4 Code, Type, Scale:	POLPY W	POLPY W	POLPY W	POLPY W
Stage Majority, Percent:	19 100			
Height, Unit:	4 in			
Height Minimum, Maximum:	2 4			
Pest 5 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:	13 100			
Height, Unit:	4 in			
Height Minimum, Maximum:	3 4			
Pest 6 Code, Type, Scale:	AMARE W	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:	14 100			
Height, Unit:	3 in			
Height Minimum, Maximum:	2 3			

Application Equipment

	A	B	C	D
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	
Equipment Type:			SPRBAC	
Operating Pressure, Unit:	53 PSI	53 PSI	53 PSI	
Nozzle Type:	TEEJET DG	TEEJET DG	TEEJET DG	
Nozzle Size:	11002	11002	11002	
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	
Boom Length, Unit:	10 FT	10 FT	10 FT	
Boom Height, Unit:	20 IN	20 IN	20 IN	
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	
Carrier:	WATER	WATER	WATER	
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	
Mix Size, Unit:	3 L	3 L	3 L	
Propellant:	CO2	CO2	CO2	

