

Ohio State University
Horticulture and Crop Science

TO DETERMINE THE HERBICIDAL EFFICACY & SELECTIVITY OF CHA 023 & CHA 024 WHEN

Title No. 2: HZEAMXRIM0902

Trial ID: 09POC2

Protocol ID: 09POC2

Location: Western Branch F-8 M

Study Director: Anthony F. Dobbels

Project ID: 09POC2

Investigator: Dr. Mark M. Loux

Sponsor Contact: James Barrentine, Cheminova

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb 61-19 **Description:** RR
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:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

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

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Pest 6 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 7 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf

Pest 8 Type: W **Code:** HIBTR *Hibiscus trionum*
Common Name: Venice mallow

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

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Application Date: May-30-2009
Time of Day: 8:00 am
Application Method: SPRAY
Application Timing: POST
Application Placement: BROFOL
Air Temperature, Unit: 62 F
% Relative Humidity: 60
Wind Velocity, Unit: 2 MPH
Wind Direction: E
Dew Presence (Y/N): N no
Soil Temperature, Unit: 62 F
Soil Moisture: DRY
% Cloud Cover: 2

Crop Stage At Each Application

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Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: 13 100
Height, Unit: 5 IN
Height Minimum, Maximum: 5 6

Pest Stage At Each Application

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Pest 1 Code, Type, Scale: SETFA W
Stage Majority, Percent: 14 100
Height, Unit: 9 in
Height Minimum, Maximum: 7 9
Pest 2 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 14 100
Height, Unit: 4 in
Height Minimum, Maximum: 2 4
Pest 3 Code, Type, Scale: POLPY W
Stage Majority, Percent: 13 100
Height, Unit: 5 in
Height Minimum, Maximum: 3 5
Pest 4 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 19 100
Height, Unit: 10 in
Height Minimum, Maximum: 7 10
Pest 5 Code, Type, Scale: AMBEL W
Stage Majority, Percent: 19 100
Height, Unit: 4 in
Height Minimum, Maximum: 2 4
Pest 6 Code, Type, Scale: AMARE W
Stage Majority, Percent: 16 100
Height, Unit: 6 in
Height Minimum, Maximum: 4 6
Pest 7 Code, Type, Scale: ABUTH W
Stage Majority, Percent: 13 100
Height, Unit: 4 in
Height Minimum, Maximum: 3 4
Pest 8 Code, Type, Scale: HIBTR W
Stage Majority, Percent: 14 100
Height, Unit: 3 in
Height Minimum, Maximum: 2 3

Application Equipment

A

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

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot No. Rep. 1	2	3	Notes
1	CHA-023	25	WDG	0.0156	lb ai/a	1	oz/a	2-4 IN W	A	101	206	312	
	ATRAZINE	4	F		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
2	CHA-023	25	WDG	0.0234	lb ai/a	1.5	oz/a	2-4 IN W	A	102	204	303	
	ATRAZINE	4	F		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
3	CHA-023	25	WDG	0.0156	lb ai/a	1	oz/a	2-4 IN W	A	103	202	306	
	LUMAX	3.94	L		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
4	CHA-023	25	WDG	0.0234	lb ai/a	1.5	oz/a	2-4 IN W	A	104	211	301	
	LUMAX	3.94	L		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
5	CHA-023	25	WDG	0.0156	lb ai/a	1	oz/a	2-4 IN W	A	105	212	304	
	GLYFOS X-TRA	3	L		0.75 lb ae/a	32	fl oz/a	2-4 IN W					
6	CHA-023	25	WDG	0.0234	lb ai/a	1.5	oz/a	2-4 IN W	A	106	208	302	
	GLYFOS X-TRA	3	L		0.75 lb ae/a	32	fl oz/a	2-4 IN W					
7	CHA-023	25	WDG	0.0156	lb ai/a	1	oz/a	2-4 IN W	A	107	201	307	
	GLYFOS X-TRA	3	L		0.75 lb ae/a	32	fl oz/a	2-4 IN W					
	STATUS	56	DF		0.175 lb ai/a	5	oz/a	2-4 IN W					
8	CHA-023	25	WDG	0.0156	lb ai/a	1	oz/a	2-4 IN W	A	108	210	309	
	BANVEL	4	SL		0.38 lb ai/a	12.2	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
9	CHA-024	2	OD	0.018	lb ai/a	1.15	fl oz/a	2-4 IN W	A	109	203	305	
	ATRAZINE	4	F		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
10	CHA-024	2	OD	0.035	lb ai/a	2.24	fl oz/a	2-4 IN W	A	110	209	310	
	ATRAZINE	4	F		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					
11	Resolve 1 oz									111	205	308	
	Rimsulfuron	25	SG		0.25 oz ai/a	1	oz/a	2-4 IN W	A				
	Isoxadifen-Ethyl	50	WG		0.125 oz ai/a	0.25	oz/a	2-4 IN W					
	ATRAZINE	4	F		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W						
12	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	2-4 IN W	A	112	207	311	
	ATRAZINE	4	F		1 lb ai/a	32	fl oz/a	2-4 IN W					
	NIS	100	SL	0.25	% v/v	0.25	% v/v	2-4 IN W					
	N-PAK AMS	100	L		3 % v/v	3	% v/v	2-4 IN W					