

Ohio State University
Horticulture and Crop Science

TO DETERMINE THE SELECTIVITY AND EFFICACY OF NIC-IT WHEN APPLIED POST ALONE AND IN COMBINATIONS

Title No. 2: HZEAMXNIC0901

Trial ID: 09POC3 Protocol ID: 09POC3
Location: U.S. Study Director: Anthony F. Dobbels
Project ID: 09POC3 Investigator: Dr. Mark M. Loux
Sponsor Contact: James Barrentine, Cheminova

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:** 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

	A	B
Application Date:	Apr-27-2009	May-30-2009
Time of Day:	7:30 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	60
Wind Velocity, Unit:	7.1 MPH	2 MPH
Wind Direction:	SW	E
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	56 F	62 F
Soil Moisture:	NORMAL	DRY
% Cloud Cover:	5	2

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:	13	100
Height, Unit:	5	IN
Height Minimum, Maximum:	5	6

Pest Stage At Each Application

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

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	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot No. Rep.	1	2	3	Notes
1	NIC-IT	2	OD	0.0234	lb ai/a	1.5	fl oz/a	2-4 IN W B	B	101	210	302		
	ATRAZINE	4	F	1	lb ai/a	32	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
2	NIC-IT	2	OD	0.0313	lb ai/a	2	fl oz/a	2-4 IN W B	B	102	205	301		
	ATRAZINE	4	F	1	lb ai/a	32	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
3	NIC-IT	2	OD	0.0234	lb ai/a	1.5	fl oz/a	2-4 IN W B	B	103	208	309		
	BANVEL	4	SL	0.375	lb ai/a	12	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
4	NIC-IT	2	OD	0.0313	lb ai/a	2	fl oz/a	2-4 IN W B	B	104	201	303		
	BANVEL	4	SL	0.375	lb ai/a	12	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
5	NIC-IT	2	OD	0.0234	lb ai/a	1.5	fl oz/a	2-4 IN W B	B	105	202	305		
	BANVEL	4	SL	0.25	lb ai/a	8	fl oz/a	2-4 IN W B	B					
	ATRAZINE	4	F	1	lb ai/a	32	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
6	NIC-IT	2	OD	0.0313	lb ai/a	2	fl oz/a	2-4 IN W B	B	106	207	304		
	HARASS	75	DF	0.00234	lb ai/a	0.05	oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
7	ACCENT	75	DF	0.031	lb ai/a	0.66	oz/a	2-4 IN W B	B	107	206	310		
	ATRAZINE	4	F	1	lb ai/a	32	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
8	STOUT 0.75 oz nicosulfuron	75	DF	0.0313	lb ai/a	0.67	oz/a	2-4 IN W B	B	108	209	308		
	Thifensulfuron	50	SG	0.0024	lb ai/a	0.077	oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
9	ACETOCHLOR REDUCED RATE	7	EC	1.25	lb ai/a	22.9	fl oz/a	PRE	A	109	204	307		
	NIC-IT	2	OD	0.0313	lb ai/a	2	fl oz/a	2-4 IN W B	B					
	COC	100	SL	1	% v/v	1	% v/v	2-4 IN W B	B					
	N-PAK AMS	100	L	3	% v/v	3	% v/v	2-4 IN W B	B					
10	UNTREATED									110	203	306		

Sort Order: Replicate 1