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Determine Efficacy of fusilade dx on volunteer corn in a tank mix with xtendimax

Trial ID: 17 VOLCORN Location: Trial Year: 2017
 Protocol ID: 17 VOLCORN Investigator: Dr. Mark M. Loux
 Project ID: EHL SOY 07-2017 Study Director: Bryan Reeb
 Sponsor Contact: Dain Bruns, Syngenta

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.79182 N
Longitude of LL Corner °: 83.76766 W
Altitude of LL Corner, Unit: 906.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG 36X6
Description: RoundUp Ready
Planting Rate, Unit: 175000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Moisture: GOOD good
Seed Bed: GOOD
Planting Date: May-31-2017
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: Jun-8-2017

Pest Description

Pest 1 Type: W **Code:** ZEAMX Zea mays
Common Name: Corn
Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
Pest 3 Type: W **Code:** IPOHE Ipomoea hederacea
Common Name: ivy-leaf morning glory

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT2 **Treatments:** 10
Replications: 3
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB L Randomized Complete Block (RCB)

Soil Description

Description Name: G-6
% OM: 2.2 **Texture:** SICL silty clay loam
pH: 6.3 **Soil Name:** Crosby
CEC: 13.6 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	Jun-1-2017	Jun-21-2017
Appl. Start Time:	9:15 AM	9:00 AM
Appl. Stop Time:	9:30 AM	9:20 AM
Application Method:	SPRAY	SPRAY
Application Placement:	BROSOI	BROFOL
Applied By:	DOBBELS	ACKLEY
Air Temperature, Unit:	67 F	71 F
% Relative Humidity:	46	63
Wind Velocity, Unit:	3 MPH	3.5 MPH
Wind Direction:	NE	ENE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	58 F	64 F
Soil Moisture:	GOOD	SLIWET
% Cloud Cover:	30	35
Next Moisture Occurred On:	Jun-4-2017	Jun-23-2017
Time to Next Moisture, Unit:	3 DAY	2 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		13 100
Height, Unit:		5.5 IN
Height Minimum, Maximum:		5 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ZEAMX W	ZEAMX W
Stage Majority, Percent:		14 100
Height, Unit:		14 IN
Height Minimum, Maximum:		10 15
Density, Unit:		16 m2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		17 80
Stage Minimum, Percent:		16 10
Stage Maximum, Percent:		18 10
Height, Unit:		6 IN
Density, Unit:		2 m2
Pest 3 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		10 100
Height, Unit:		2 IN
Density, Unit:		1 m2

Application Equipment

	A	B
Appl. Equipment:	TRACTOR SPRA	6" BACKPACK
Equipment Type:	TRMOSP	BACCAI
Operation Pressure, Unit:	40 PSI	44 PSI
Nozzle Type:	AI 11002	TTI
Nozzle Size:	20 GPA	11015
Nozzle Spacing, Unit:	20 IN	18 IN
Nozzles/Row:		4
Boom Length, Unit:	20 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3.8 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	30 Gallons	1 liters
Propellant:	PUMROL	COMCO2

Date	By	Notes
Jun-1-2017	Reeb	Overlaid with 2 pt/ac of Boundry and 1 Oz/ac of classic

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Pest Type	O Other	W Weed	O Other	W Weed
Pest Code		ZEAMX		ZEAMX
Pest Name		Corn		Corn
Rating Date	Jul-5-2017	Jul-5-2017	Jul-18-2017	Jul-18-2017
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	34 14	34 14	47 27	47 27
Days After Emergence	27 DE-1	27 DE-1	40 DE-1	40 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4
1	Boundary	2 pt/a		A	0.0 a	10.0 d	0.0 a	10.0 b
1	Roundup Power Max	22 oz/a		B				
1	Xtendimax	22 oz/a		B				
1	Class Act Ridion	0.6 qt/a		B				
2	Boundary	2 pt/a		A	0.0 a	95.3 abc	0.0 a	100.0 a
2	Fusilade DX	4 oz/a		B				
2	Roundup Power Max	22 oz/a		B				
2	Class Act Ridion	0.6 qt/a		B				
3	Boundary	2 pt/a		A	0.0 a	96.0 ab	0.0 a	100.0 a
3	Clethodim	8 oz/a		B				
3	Roundup Power Max	22 oz/a		B				
3	Class Act Ridion	0.6 qt/a		B				
4	Boundary	2 pt/a		A	0.0 a	91.7 c	0.0 a	100.0 a
4	Fusilade DX	4 oz/a		B				
4	Roundup Power Max	22 oz/a		B				
4	Xtendimax	22 oz/a		B				
4	Class Act Ridion	0.6 qt/a		B				
5	Boundary	2 pt/a		A	0.0 a	93.3 bc	0.0 a	100.0 a
5	Clethodim	8 oz/a		B				
5	Roundup Power Max	22 oz/a		B				
5	Xtendimax	22 oz/a		B				
5	Class Act Ridion	0.6 qt/a		B				
6	Boundary	2 pt/a		A	0.0 a	96.7 ab	0.0 a	100.0 a
6	Fusilade DX	6 oz/a		B				
6	Roundup Power Max	22 oz/a		B				
6	Xtendimax	22 oz/a		B				
6	Class Act Ridion	0.6 qt/a		B				
7	Boundary	2 pt/a		A	0.0 a	98.7 a	0.0 a	100.0 a
7	Clethodim	12 oz/a		B				
7	Roundup Power Max	22 oz/a		B				
7	Xtendimax	22 oz/a		B				
7	Class Act Ridion	0.6 qt/a		B				
8	Boundary	2 pt/a		A	0.0 a	92.7 bc	0.0 a	100.0 a
8	Fusilade DX	4 oz/a		B				
8	Roundup Power Max	22 oz/a		B				
8	Xtendimax	22 oz/a		B				
8	Class Act Ridion	0.6 qt/a		B				
8	Superb HC	0.3 qt/a		B				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,3,4 because error mean square = 0.

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Pest Type	O Other	W Weed	O Other	W Weed
Pest Code	ZEAMX		ZEAMX	
Pest Name	Corn		Corn	
Rating Date	Jul-5-2017	Jul-5-2017	Jul-18-2017	Jul-18-2017
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	34 14	34 14	47 27	47 27
Days After Emergence	27 DE-1	27 DE-1	40 DE-1	40 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4
9	Boundary	2 pt/a		A	0.0 a	98.0 a	0.0 a	100.0 a
9	Clethodim	8 oz/a		B				
9	Roundup Power Max	22 oz/a		B				
9	Xtendimax	22 oz/a		B				
9	Class Act Ridion	0.6 qt/a		B				
9	Superb HC	0.3 qt/a		B				
10	UTC				0.0 a	0.0 e	0.0 a	0.0 c
LSD	P=.05					4.21		
Standard Deviation					0.00	2.46	0.00	0.00
CV					0.0	3.18	0.0	0.0
Bartlett's X2					0.0	4.393	0.0	0.0
P(Bartlett's X2)					.	0.624	.	.
Replicate F					0.000	2.941	0.000	0.000
Replicate Prob(F)					1.0000	0.0785	1.0000	1.0000
Treatment F					0.000	726.364	0.000	0.000
Treatment Prob(F)					1.0000	0.0001	1.0000	1.0000

Pest Type

O, Other, G-BYRO7, G-OthStg = Other animal or nematode
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ZEAMX, Zea mays, Corn = US

Rating Type

PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown

Rating Unit

% = percent

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