

The Ohio State University

Parazone Burndown Performance
 Trial ID: 18PARAZONE Location: Trial Year: 2018
 Protocol ID: 18C07H073 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

General Trial Information

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 °: 39.85957 N
 Longitude of LL Corner °: 83.67321 W
 Altitude of LL Corner, Unit: 1084.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No

Investigator: Dr. Mark M. Loux

Pest Description

Pest 1 Type: W Code: ERICA Erigeron canadensis
 Common Name: Canada horseweed

Pest 2 Type: W Code: ERYRE Erysimum repandum
 Common Name: Bushy wallflower

Pest 3 Type: W Code: CAPBP Capsella bursa-pastoris
 Common Name: Shepherd's purse

Pest 4 Type: W Code: VERAG Veronica agrestis
 Common Name: Field speedwell

Pest 5 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed

Pest 6 Type: W Code: VERPG Veronica peregrina
 Common Name: Purslane speedwell

Site and Design

Treated Plot Width: 6.67 FT
 Treated Plot Length: 25 FT
 Treated Plot Area: 166.75 FT² Treatments: 8
 Replications: 4
 Site Type: FIELD field
 Experimental Unit: 1 PLOT plot
 Tillage Type: NOTILL no-till
 Study Design: RACOBL Randomized Complete Block (RCB)

No. Previous Crop Year

1. Corn 2017

Soil Description

Description Name: F-9 West
 % Sand: 32 % OM: 1.6 Texture: SICL silty clay loam
 % Silt: 53 pH: 6 Soil Name: Crosby
 % Clay: 15 CEC: 8.6 Fert. Level: G good
 Soil Drainage: G good

Application Description

A
 Application Date: May-17-2018
 Appl. Start Time: 9:38 AM
 Appl. Stop Time: 9:55 AM
 Application Method: SPRAY
 Application Timing: ERICA
 Application Placement: BROFOL
 Applied By: Dobbels
 Air Temperature, Unit: 75.6 F
 % Relative Humidity: 62
 Wind Velocity, Unit: 4 MPH
 Wind Direction: SE
 Dew Presence (Y/N): N no
 Soil Temperature, Unit: 68 F
 Soil Moisture: NORMAL
 % Cloud Cover: 30
 Next Moisture Occurred On: May-17-2018
 Time to Next Moisture, Unit: 8 HR
 Moisture 1 Week after Appl.: 1.41 IN

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Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: ERICA W
Stage Majority, Percent: 15
Diameter, Unit: 6 IN
Height, Unit: 5 IN
Height Minimum, Maximum: 3 7
Pest 2 Code, Type, Scale: ERYRE W
Stage Majority, Percent: 65 100
Height, Unit: 15 IN
Height Minimum, Maximum: 9 19
Pest 3 Code, Type, Scale: CAPBP W
Stage Majority, Percent: 65 100
Diameter, Unit: 9 IN
Height, Unit: 19 IN
Pest 4 Code, Type, Scale: VERAG W
Stage Majority, Percent: 19
Diameter, Unit: 8 IN
Height, Unit: 7 IN
Pest 5 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 14
Height, Unit: 6 IN
Height Minimum, Maximum: 4 9
Pest 6 Code, Type, Scale: VERPG W
Stage Majority, Percent: 19
Diameter, Unit: 8 IN
Height, Unit: 7 IN

Application Equipment

A

Appl. Equipment: 6' AI XR
Equipment Type: SPRBAC
Operation Pressure, Unit: 46 PSI
Nozzle Type: AI XR
Nozzle Size: 110015
Nozzle Spacing, Unit: 18 IN
Boom Length, Unit: 6 FT
Boom Height, Unit: 20 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 15 GPA
Mix Size, Unit: 2 L
Propellant: CO2

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	VERPU	CAPBP	AMBTR	ERICA
Pest Name	Canada horsewe>	Veronica pulvi>	Shepherd's pur>	Giant ragweed	Canada horsewe>
Rating Date	May-23-2018	May-23-2018	May-23-2018	May-23-2018	Jun-7-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	6 6	6 6	6 6	6 6	21 21
Trt-Eval Interval	6 DA-A	6 DA-A	6 DA-A	6 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	1*	2*	3*	4*	5*
1	UTC				0	0 b	0 b	0 b	0
2	Parazone	2 pt/a	A		77 -	101 a	99 a	93 a	79 -
	NIS	0.25 % v/v	A						
3	Parazone	2 pt/a	A		62 -	100 a	100 a	94 a	80 -
	2,4-D LVE	1 pt/a	A						
	COC	1 % v/v	A						
4	Parazone	2 pt/a	A		92 -	100 a	100 a	99 a	100 -
	Clarity	0.5 pt/a	A						
	COC	1 % v/v	A						
5	Parazone	2 pt/a	A		89 -	100 a	100 a	99 a	95 -
	Atrazine	1.5 pt/a	A						
	COC	1 % v/v	A						
6	Parazone	2 pt/a	A		76 -	96 a	99 a	98 a	93 -
	2,4-D LVE	1 pt/a	A						
	Atrazine	1.5 pt/a	A						
	COC	1 % v/v	A						

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Rating Unit	%	%	%	%	%			
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Days After First/Last Applic.	6 6	6 6	6 6	6 6	21 21			
Trt-Eval Interval	6 DA-A	6 DA-A	6 DA-A	6 DA-A	21 DA-A			
Number of Decimals	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	1*	2*	3*	4*	5*
7	Parazone	2 pt/a	A	91 -	101 a	100 a	101 a	100 -
	Clarity	0.5 pt/a	A					
	Atrazine	1.5 pt/a	A					
	COC	1 % v/v	A					
8	Parazone	2 pt/a	A	87 -	94 a	97 a	94 a	74 -
	Sencor 75DF	5.3 oz/a	A					
	COC	1 % v/v	A					
	LSD P=.05			23.4	7.2	2.1 - 2.8	9.0	18.0
	Standard Deviation			15.4	4.8	6.3t	5.8	11.9
	CV			19.2	5.73	8.73t	7.31	13.41
	Levene's F			0.999	0.957	1.127	1.432	0.548
	Levene's Prob(F)			0.457	0.487	0.392	0.267	0.765
	Skewness			-0.7233	-2.0901*	-1.8353*	-1.7675*	-0.6574
	Kurtosis			-0.9104	2.66*	1.7174	1.3519	-1.1085
	Replicate F			3.194	0.529	1.392	0.610	0.139
	Replicate Prob(F)			0.0565	0.6684	0.2863	0.6214	0.9353
	Treatment F			1.615	203.872	89.803	130.036	2.613
	Treatment Prob(F)			0.2152	0.0001	0.0001	0.0001	0.0650

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

VERPU, Veronica pulvinaris, Veronica pulvinaris = US

CAPBP, Capsella bursa-pastoris, Shepherd's purse = US

AMBTR, Ambrosia trifida, Giant ragweed = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent