

(19WINBURN-urb)

The Ohio State University

Horseweed Burndown and Residual Control with Dimetric Charged
Trial ID: 19WINBURN-urb Location: Terry Farms, Urbana, Ohio Trial Year: 2019
Protocol ID: 19WINBURN Investigator: Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact:

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Status: E established
ARM Trial Created On: Apr-23-2019

Trial Location

City: Urbana **Country:** USA United States
State/Prov.: Ohio
Postal Code: 43078 **Climate Zone:** EPPONE EPPO North East

Latitude of LL Corner °: 40.04136 N
Longitude of LL Corner °: 83.73762 W
Altitude of LL Corner: 1094.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

C

Pest Description

Pest 1 Type: W **Code:** ERICA *Erigeron canadensis*
Common Name: Canada horseweed **Entry Date:** Apr-24-2019
Attributes: glyphosate resistant

Pest 2 Type: W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettle **Entry Date:** Apr-24-2019

Pest 3 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed **Entry Date:** Apr-24-2019

Pest 4 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Blowball **Entry Date:** Apr-24-2019

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300 FT2 **Treatments:** 8 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Previous

No. Crop Year
1. CORN 2018

Soil Description

Description Name: Urbana Road
% Sand: 31 **% OM:** 1.4 **Texture:** CL clay loam
% Silt: 39 **pH:** 7.4
% Clay: 30 **CEC:** 11.2 **Fert. Level:** G good

Analyzed By:

Spectrum Analytic, Inc. Washington Court House, OH

Application Description

A

Application Date Apr-24-2019
Appl. Start Time 9:15 AM
Appl. Stop Time 9:45 AM
Application Method SPRAY
Application Timing BRNDOWN
Application Placement BROFOL
Applied By Reeb
Appl. Entry Date Apr-24-2019
Air Temperature Start, Stop 53 53 F
% Relative Humidity Start, Stop 68 69
Wind Velocity+Dir. Start 2 MPH E
Wind Velocity+Dir. Stop 2 MPH E
Wind Velocity+Dir. Max 2 MPH E
Wet Leaves (Y/N) N no
Soil Temperature 50 F
Soil Moisture MOIST
Soil Surface Condition DRY
% Cloud Cover 90

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale ERICA W
Stage Majority, Percent 19 100
Diameter 3 IN
Height Average 3 IN
Height Minimum, Maximum 2 3
Density Average 8 M2
Density Min, Max 1 12
Pest 2 Code, Type, Scale LAMPU W
Stage Majority, Percent 65 100
Diameter 4 IN
Height Average 5 IN
Height Minimum, Maximum 4 6
Pest 3 Code, Type, Scale STEME W
Stage Majority, Percent 65 100
Diameter 6 IN
Height Average 3 IN
Height Minimum, Maximum 3 5
Pest 4 Code, Type, Scale TAROF W
Stage Majority, Percent 65 100
Diameter 9 IN
Height Average 4 IN
Height Minimum, Maximum 3 4

Application Equipment

A

Appl. Equipment 10' TTI
Equipment Type SPRBAC
Operation Pressure 46 PSI
Nozzle Type AI XR
Nozzle Size 110015
Nozzle Spacing 18 IN
Boom Length 10 FT
Boom Height 20 IN
Ground Speed 3 MPH
Carrier WATER
Application Amount 15 GPA
Mix Size 2 Liters
Propellant CO2

Date	By	Context	Notes
Apr-23-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
Mar-26-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
Apr-24-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.
May-8-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

SE Definitions

- Crop Type, Code C**

The Ohio State University

Horseweed Burndown and Residual Control with Dimetric Charged

Trial ID: 19WINBURN-urb Location: Terry Farms, Urbana, Ohio Trial Year: 2019
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Table with 5 columns: Pest Type, W Weed ERICA, W Weed STEME, W Weed LAMPU, W Weed VERAR. Rows include Rating Date, Rating Type, Rating Unit, Number of Subsamples, Data Entry Date, Days After First/Last Applic., Trt-Eval Interval, and Number of Decimals.

Main data table with columns: Trt No., Treatment Name, Rate, Unit, Other Rate, Other Unit, Appl Code, 1*, 2*, 3*, 4*. Rows list various herbicide treatments like Roundup Powermax, Xtendimax, Class Act NG, Dimetric Charged, and Strikelock across different replicates.

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls). Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL. Due to missing data, the effective replicates used for mean comparisons are: col. 3=2.8; 15=1.4 * Adjusted means Could not calculate LSD (% mean diff) for columns 6,7,8,10,12 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	STEME	LAMPU	VERAR				
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>	Corn speedwell				
Crop Type, Code	C -	C -	C -	C -				
Rating Date	May-1-2019	May-1-2019	May-1-2019	May-1-2019				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Data Entry Date	May-1-2019	May-1-2019	May-1-2019	May-1-2019				
Days After First/Last Applic.	7 7	7 7	7 7	7 7				
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A				
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	1*	2*	3*	4*
No. Name	Rate Unit	Rate	Rate	Unit Code				
8 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	75 a	53 a	50 ab	60 a
8 Xtendimax	0.5 lb ae/a	22 oz/a		A				
8 Class Act NG	2.5 % v/v	2.5 % v/v		A				
8 Dimetric Charged	18 oz/a	18 oz/a		A				
8 Strikelock	8 oz/a	8 oz/a		A				
LSD P=.05					6.7	10.0	8.1	18.7
Standard Deviation					3.8	5.7	4.5	10.7
CV					6.02	12.83	11.38	22.06
Levene's F					1.247	0.633	1.977	1.814
Levene's Prob(F)					0.335	0.723	0.143	0.153
Skewness					-2.2294*	-1.9896*	-1.2347*	-0.9889*
Kurtosis					3.5301*	2.8486*	0.5817	0.262
Replicate F					2.814	0.127	1.100	0.037
Replicate Prob(F)					0.0939	0.8815	0.3669	0.9641
Treatment F					139.124	31.109	56.334	13.738
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU	VERAR
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>	Corn speedwell
Crop Type, Code	C -	C -	C -	C -
Rating Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	5*	6*	7*	8*
1 UTC				0 b	0 -	0 -	0 -
2 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	75 a	100 -	100 -	100 -
2 Xtendimax	0.5 lb ae/a	22 oz/a	A				
2 Class Act NG	2.5 % v/v	2.5 % v/v	A				
3 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	75 a	100 -	100 -	100 -
3 Xtendimax	0.5 lb ae/a	22 oz/a	A				
3 Class Act NG	2.5 % v/v	2.5 % v/v	A				
3 Dimetric Charged	12 oz/a	12 oz/a	A				
4 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	80 a	100 -	100 -	100 -
4 Xtendimax	0.5 lb ae/a	22 oz/a	A				
4 Class Act NG	2.5 % v/v	2.5 % v/v	A				
4 Dimetric Charged	15 oz/a	15 oz/a	A				
5 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	83 a	100 -	100 -	100 -
5 Xtendimax	0.5 lb ae/a	22 oz/a	A				
5 Class Act NG	2.5 % v/v	2.5 % v/v	A				
5 Dimetric Charged	18 oz/a	18 oz/a	A				
6 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	82 a	100 -	100 -	100 -
6 Xtendimax	0.5 lb ae/a	22 oz/a	A				
6 Class Act NG	2.5 % v/v	2.5 % v/v	A				
6 Dimetric Charged	12 oz/a	12 oz/a	A				
6 Strikelock	8 oz/a	8 oz/a	A				
7 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	83 a	100 -	100 -	100 -
7 Xtendimax	0.5 lb ae/a	22 oz/a	A				
7 Class Act NG	2.5 % v/v	2.5 % v/v	A				
7 Dimetric Charged	15 oz/a	15 oz/a	A				
7 Strikelock	8 oz/a	8 oz/a	A				

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls). Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL. Due to missing data, the effective replicates used for mean comparisons are: col. 3=2.8; 15=1.4
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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU	VERAR
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>	Corn speedwell
Crop Type, Code	C -	C -	C -	C -
Rating Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	5*	6*	7*	8*
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	87 a	100 -	100 -	100 -
8	Xtendimax	0.5 lb ae/a	22 oz/a		A				
8	Class Act NG	2.5 % v/v	2.5 % v/v		A				
8	Dimetric Charged	18 oz/a	18 oz/a		A				
8	Strikelock	8 oz/a	8 oz/a		A				
LSD P=.05						8.9	.	.	.
Standard Deviation						5.1	0.0	0.0	0.0
CV						7.18	0.0	0.0	0.0
Levene's F						0.878	0.00	0.00	0.00
Levene's Prob(F)						0.545	.	.	.
Skewness						-2.14*	-2.4219*	-2.4219*	-2.4219*
Kurtosis						3.4734*	4.2103*	4.2103*	4.2103*
Replicate F						5.948	0.000	0.000	0.000
Replicate Prob(F)						0.0135	1.0000	1.0000	1.0000
Treatment F						96.827	0.000	0.000	0.000
Treatment Prob(F)						0.0001	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	ERICA	SETFA	SETFA
Pest Name	Canada horsewe>	Common chickwe>	Canada horsewe>	Giant foxtail	Giant foxtail
Crop Type, Code	C -	C -	C -	C -	C -
Rating Date	May-22-2019	May-22-2019	Jun-4-2019	Jun-4-2019	Jun-18-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-22-2019	May-22-2019	Jun-4-2019	Jun-4-2019	Jun-18-2019
Days After First/Last Applic.	28 28	28 28	41 41	41 41	55 55
Trt-Eval Interval	28 DA-A	28 DA-A	41 DA-A	41 DA-A	55 DA-A
Number of Decimals	0	0	0	0	

Trt Treatment	Rate	Other	Other	Appl	9*	10*	11*	12*	13*
No. Name	Rate Unit	Rate	Rate	Unit Code					
1 UTC					0 c	0 -	0 b	0 -	0.0 -
2 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	93 b	100 -	93 a	0 -	40.0 -
2 Xtendimax	0.5 lb ae/a	22 oz/a		A					
2 Class Act NG	2.5 % v/v	2.5 % v/v		A					
3 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	99 a	100 -	100 a	0 -	26.7 -
3 Xtendimax	0.5 lb ae/a	22 oz/a		A					
3 Class Act NG	2.5 % v/v	2.5 % v/v		A					
3 Dimetric Charged	12 oz/a	12 oz/a		A					
4 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	99 a	100 -	100 a	0 -	26.7 -
4 Xtendimax	0.5 lb ae/a	22 oz/a		A					
4 Class Act NG	2.5 % v/v	2.5 % v/v		A					
4 Dimetric Charged	15 oz/a	15 oz/a		A					
5 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	100 -	95 a	0 -	46.7 -
5 Xtendimax	0.5 lb ae/a	22 oz/a		A					
5 Class Act NG	2.5 % v/v	2.5 % v/v		A					
5 Dimetric Charged	18 oz/a	18 oz/a		A					
6 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100 a	100 -	98 a	0 -	0.0 -
6 Xtendimax	0.5 lb ae/a	22 oz/a		A					
6 Class Act NG	2.5 % v/v	2.5 % v/v		A					
6 Dimetric Charged	12 oz/a	12 oz/a		A					
6 Strikelock	8 oz/a	8 oz/a		A					
7 Roundup Powermax	1.13 lb ae/a	32 oz/a		A	99 a	100 -	95 a	0 -	20.0 -
7 Xtendimax	0.5 lb ae/a	22 oz/a		A					
7 Class Act NG	2.5 % v/v	2.5 % v/v		A					
7 Dimetric Charged	15 oz/a	15 oz/a		A					
7 Strikelock	8 oz/a	8 oz/a		A					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	ERICA	SETFA	SETFA
Pest Name	Canada horsewe>	Common chickwe>	Canada horsewe>	Giant foxtail	Giant foxtail
Crop Type, Code	C -	C -	C -	C -	C -
Rating Date	May-22-2019	May-22-2019	Jun-4-2019	Jun-4-2019	Jun-18-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-22-2019	May-22-2019	Jun-4-2019	Jun-4-2019	Jun-18-2019
Days After First/Last Applic.	28 28	28 28	41 41	41 41	55 55
Trt-Eval Interval	28 DA-A	28 DA-A	41 DA-A	41 DA-A	55 DA-A
Number of Decimals	0	0	0	0	

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	9*	10*	11*	12*	13*
8	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	99 a	100 -	100 a	0 -	48.3 -
8	Xtendimax	0.5 lb ae/a	22 oz/a		A					
8	Class Act NG	2.5 % v/v	2.5 % v/v		A					
8	Dimetric Charged	18 oz/a	18 oz/a		A					
8	Strikelock	8 oz/a	8 oz/a		A					
LSD P=.05						3.0	.	9.4	.	61.94
Standard Deviation						1.7	0.0	5.4	0.0	35.37
CV						1.97	0.0	6.32	0.0	135.82
Levene's F						0.686	0.00	0.805	0.00	0.397
Levene's Prob(F)						0.683	.	0.595	.	0.89
Skewness						-2.3901*	-2.4219*	-2.3192*	.	0.6726
Kurtosis						4.1102*	4.2103*	3.8804*	.	-1.5102
Replicate F						2.256	0.000	0.467	0.000	1.240
Replicate Prob(F)						0.1415	1.0000	0.6365	1.0000	0.3194
Treatment F						1270.868	0.000	123.277	0.000	0.860
Treatment Prob(F)						0.0001	1.0000	0.0001	1.0000	0.5592

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Pest Type	W Weed	W Weed
Pest Code	ERICA	AMATA
Pest Name	Canada horsewe>	Common waterhe>
Crop Type, Code	C -	C -
Rating Date	Jun-18-2019	Jun-18-2019
Rating Type		
Rating Unit		
Number of Subsamples	1	1
Data Entry Date	Jun-18-2019	Jun-18-2019
Days After First/Last Applic.	55 55	55 55
Trt-Eval Interval	55 DA-A	55 DA-A
Number of Decimals		

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	14*	15*
1	UTC					0.0 c	0.0 b
2	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	98.3 a	94.7 a
2	Xtendimax	0.5 lb ae/a	22 oz/a		A		
2	Class Act NG	2.5 % v/v	2.5 % v/v		A		
3	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100.0 a	89.3 a
3	Xtendimax	0.5 lb ae/a	22 oz/a		A		
3	Class Act NG	2.5 % v/v	2.5 % v/v		A		
3	Dimetric Charged	12 oz/a	12 oz/a		A		
4	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	86.7 ab	74.7 a
4	Xtendimax	0.5 lb ae/a	22 oz/a		A		
4	Class Act NG	2.5 % v/v	2.5 % v/v		A		
4	Dimetric Charged	15 oz/a	15 oz/a		A		
5	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	85.0 b	102.7 a
5	Xtendimax	0.5 lb ae/a	22 oz/a		A		
5	Class Act NG	2.5 % v/v	2.5 % v/v		A		
5	Dimetric Charged	18 oz/a	18 oz/a		A		
6	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100.0 a	
6	Xtendimax	0.5 lb ae/a	22 oz/a		A		
6	Class Act NG	2.5 % v/v	2.5 % v/v		A		
6	Dimetric Charged	12 oz/a	12 oz/a		A		
6	Strikelock	8 oz/a	8 oz/a		A		
7	Roundup Powermax	1.13 lb ae/a	32 oz/a		A	100.0 a	79.7 a
7	Xtendimax	0.5 lb ae/a	22 oz/a		A		
7	Class Act NG	2.5 % v/v	2.5 % v/v		A		
7	Dimetric Charged	15 oz/a	15 oz/a		A		
7	Strikelock	8 oz/a	8 oz/a		A		

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 Could not calculate LSD (% mean diff) for columns 6,7,8,10,12 because error mean square = 0.

Pest Type		W Weed	W Weed		
Pest Code		ERICA	AMATA		
Pest Name		Canada horsewe>	Common waterhe>		
Crop Type, Code		C -	C -		
Rating Date		Jun-18-2019	Jun-18-2019		
Rating Type					
Rating Unit					
Number of Subsamples		1	1		
Data Entry Date		Jun-18-2019	Jun-18-2019		
Days After First/Last Applic.		55 55	55 55		
Trt-Eval Interval		55 DA-A	55 DA-A		
Number of Decimals					
Trt Treatment	Rate	Other Other	Appl		
No. Name	Rate Unit	Rate Rate Unit	Code	14*	15*
8 Roundup Powermax	1.13 lb ae/a	32 oz/a	A	95.0 ab	
8 Xtendimax	0.5 lb ae/a	22 oz/a	A		
8 Class Act NG	2.5 % v/v	2.5 % v/v	A		
8 Dimetric Charged	18 oz/a	18 oz/a	A		
8 Strikelock	8 oz/a	8 oz/a	A		
LSD P=.05				8.78	25.66
Standard Deviation				5.01	7.30
CV				6.03	11.32
Levene's F				0.741	0.00
Levene's Prob(F)				0.642	.
Skewness				-2.1969*	-0.9148
Kurtosis				3.4987*	-1.2885
Replicate F				2.609	0.875
Replicate Prob(F)				0.1088	0.5333
Treatment F				138.929	68.334
Treatment Prob(F)				0.0001	0.0145

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Horseweed Burndown and Residual Control with Dimetric Charged

Trial ID: 19WINBURN-urb Location: Terry Farms, Urbana, Ohio Trial Year: 2019

Protocol ID: 19WINBURN Investigator: Dr. Mark M. Loux

Project ID: Study Director:

Sponsor Contact:

Pest Type

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

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

STEME, Stellaria media, Common chickweed = US

LAMPU, Lamium purpureum, Purple deadnettle = US

VERAR, Veronica arvensis, Corn speedwell = US

SETFA, Setaria faberi, Giant foxtail = US

AMATA, Amaranthus tamariscinus, Common waterhemp = US

Crop Type, Code

C, G-ByrC7 = EPPO species (Bayer) codes

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent