

The Ohio State University

Valent actives in Roundup Xtend System - No-till

Trial ID: 19 FIERCE NT URB Location: Urbana, OH Trial Year: 2019
Protocol ID: 19 FIERCE NT Investigator: Dr. Mark M. Loux
Project ID: 2019FIERCEMD6402 Study Director: Bryan Reeb
Sponsor Contact: Eric Ott, Valent

General Trial Information

Study Director: Bryan Reeb
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: USWARM US Warm Continental

Latitude of LL Corner °: 40.04134 N
Longitude of LL Corner °: 83.7383 W
Altitude of LL Corner: 1092.00 ft

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb

Investigator: Dr. Mark M. Loux

Crop Description

C

Pest Description

Pest 1 Type: W Code: LAMPU Lamium purpureum
Common Name: Purple deadnettle Entry Date: Apr-24-2019

Pest 2 Type: W Code: ERICA Erigeron canadensis
Common Name: Canada horseweed 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: TARSS Taraxacum sp.
Common Name: Dandelion Entry Date: Apr-24-2019

Pest 5 Type: W Code: AMBTR Ambrosia trifida
Common Name: Giant ragweed Entry Date: Apr-24-2019

Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
Treated Plot Length: 25 FT Experimental Unit: 1 PLOT plot
Treated Plot Area: 250 FT2 Treatments: 10 Tillage Type: NOTILL no-till
Replications: 3 Study Design: RACOB L 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

Application Description

Application Date Apr-24-2019 A B
Appl. Start Time 9:15 AM
Appl. Stop Time 10:50 AM
Application Method SPRAY
Application Timing BURNDOWN
Application Placement BROADC
Applied By REEB/ACKLEY
Appl. Entry Date Apr-24-2019
Air Temperature Start, Stop 53 F
% Relative Humidity Start, Stop 68
Wind Velocity+Dir. Start 2 MPH E
Wet Leaves (Y/N) N no
Soil Temperature 50 F
Soil Moisture DRY
% Cloud Cover 90

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	LAMPU W	LAMPU W
Stage Majority, Percent	65	100
Diameter	4 IN	
Height Average	5 IN	
Height Minimum, Maximum	4 6	
Pest 2 Code, Type, Scale	ERICA W	ERICA W
Stage Majority, Percent	19	100
Height Average	3 IN	
Height Minimum, Maximum	2 4	
Pest 3 Code, Type, Scale	STEME W	STEME W
Stage Majority, Percent	65	100
Diameter	6 IN	
Height Average	5 IN	
Height Minimum, Maximum	4 6	
Pest 4 Code, Type, Scale	TARSS W	TARSS W
Stage Majority, Percent	65	100
Diameter	10 IN	
Height Average	3 IN	
Height Minimum, Maximum	2 4	
Pest 5 Code, Type, Scale	AMBTR W	AMBTR W
Stage Majority, Percent	12	100
Height Average	2 IN	
Height Minimum, Maximum	1 4	

Application Equipment

	A	B
Appl. Equipment	10' BACKPACK	
Equipment Type	BACCAI	
Operation Pressure	44 PSI	
Nozzle Type	TTI	
Nozzle Size	11015	
Nozzle Spacing	18 IN	
Nozzles/Row	6	
Boom Length	10 FT	
Boom Height	20 IN	
Ground Speed	3 MPH	
Carrier	WATER	
Application Amount	15 gal/ac	
Mix Size	2 liters	
Propellant	COMCO2	

Date	By	Context	Notes
Apr-2-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
Jun-5-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

SE Definitions

1.									
Crop Type, Code C									
Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	STEME	LAMPU	VERAR	ERICA				
Pest Scientific Name	Erigeron canad>	Stellaria media	Lamium purpure>	Veronica arven>	Erigeron canad>				
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>	Corn speedwell	Canada horsewe>				
Crop Type, Code	C -	C -	C -	C -	C -				
Rating Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019	May-22-2019				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Data Entry Date	May-9-2019	May-9-2019	May-9-2019	May-9-2019	May-22-2019				
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 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 b	0	0 c	0	0 c
2	Roundup Power Max	1.13 lb ae/a	A		75 a	73 -	33 b	60 -	90 b
	Xtendimax	0.5 lb ae/a	A						
	Induce	0.25 % v/v	A						
	On Target	0.5 % v/v	A						
	Roundup Power Max	1.13 lb ae/a	B						
	Select Max	0.07 lb ai/a	B						
	Induce	0.25 % v/v	B						
	N-pak ams	2.5 % v/v	B						

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU	VERAR	ERICA
Pest Scientific Name	Erigeron canad>	Stellaria media	Lamium purpure>	Veronica arven>	Erigeron canad>
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>	Corn speedwell	Canada horsewe>
Crop Type, Code	C -	C -	C -	C -	C -
Rating Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019	May-22-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-9-2019	May-9-2019	May-9-2019	May-9-2019	May-22-2019
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1*	2*	3*	4*	5*
3	Roundup Power Max	1.13	lb ae/a	A	77 a	80 -	33 b	65 -	90 b
	Xtendimax	0.5	lb ae/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Perpetuo	0.108	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
4	Roundup Power Max	1.13	lb ae/a	A	77 a	87 -	80 a	87 -	95 a
	Xtendimax	0.5	lb ae/a	A					
	Fierce EZ	0.143	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
5	Roundup Power Max	1.13	lb ae/a	A	75 a	87 -	76 a	87 -	90 b
	Xtendimax	0.5	lb ae/a	A					
	Fierce MTZ	0.33	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
6	Roundup Power Max	1.13	lb ae/a	A	75 a	87 -	49 ab	83 -	90 b
	Xtendimax	0.5	lb ae/a	A					
	Authority MTZ	0.31	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Anthem Maxx	0.084	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
7	Roundup Power Max	1.13	lb ae/a	A	78 a	90 -	53 ab	70 -	93 ab
	Xtendimax	0.5	lb ae/a	A					
	Zidua Pro	0.192	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Perpetuo	0.108	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
8	Roundup Power Max	1.13	lb ae/a	A	78 a	95 -	57 ab	91 -	92 ab
	Xtendimax	0.5	lb ae/a	A					
	Fierce EZ	0.143	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Perpetuo	0.108	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	STEME	LAMPU	VERAR	ERICA			
Pest Scientific Name	Erigeron canad>	Stellaria media	Lamium purpure>	Veronica arven>	Erigeron canad>			
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>	Corn speedwell	Canada horsewe>			
Crop Type, Code	C -	C -	C -	C -	C -			
Rating Date	May-8-2019	May-8-2019	May-8-2019	May-8-2019	May-22-2019			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	May-9-2019	May-9-2019	May-9-2019	May-9-2019	May-22-2019			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Rate	Appl					
No. Name	Unit	Unit	Code	1*	2*			
				3*	4*			
				5*				
9 Roundup Power Max	1.13 lb ae/a	A		75 a	95 -	66 a	90 -	92 ab
Xtendimax	0.5 lb ae/a	A						
Fierce MTZ	0.33 lb ai/a	A						
Induce	0.25 % v/v	A						
On Target	0.5 % v/v	A						
Roundup Power Max	1.13 lb ae/a	B						
Perpetuo	0.108 lb ai/a	B						
Select Max	0.07 lb ai/a	B						
Induce	0.25 % v/v	B						
N-pak ams	2.5 % v/v	B						
10 Roundup Power Max	1.13 lb ae/a	A		78 a	93 -	77 a	92 -	90 b
Xtendimax	0.5 lb ae/a	A						
Fierce XLT @ 4.0 oz		A						
Valor SX	0.063 lb ai/a	A						
Classic	0.021 lb ai/a	A						
Zidua WG	0.054 lb ai/a	A						
Induce	0.25 % v/v	A						
On Target	0.5 % v/v	A						
Roundup Power Max	1.13 lb ae/a	B						
Perpetuo	0.108 lb ai/a	B						
Select Max	0.07 lb ai/a	B						
Induce	0.25 % v/v	B						
N-pak ams	2.5 % v/v	B						
LSD P=.05				3.3	17.0	15.6 - 20.3	23.3	2.7
Standard Deviation				1.9	9.7	0.7t	13.4	1.6
CV				2.77	11.14	10.31t	16.7	1.91
Levene's F				0.769	0.281	2.458	0.148	1.356
Levene's Prob(F)				0.646	0.963	0.068	0.995	0.274
Skewness				-2.7057*	-0.7273	-1.3608*	-0.7402	-2.7186*
Kurtosis				5.8195*	-0.4172	1.3385	-0.4267	5.8617*
Replicate F				2.486	9.781	0.365	3.456	0.850
Replicate Prob(F)				0.1129	0.0019	0.7018	0.0583	0.4448
Treatment F				484.974	1.815	36.165	2.436	1021.127
Treatment Prob(F)				0.0001	0.1523	0.0001	0.0653	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	STEME	LAMPU	SETFA	ERICA	SETFA		
Pest Scientific Name	Stellaria media	Lamium purpure>	Setaria faberi	Erigeron canad>	Setaria faberi		
Pest Name	Common chickwe>	Purple deadnet>	Giant foxtail	Canada horsewe>	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	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-22-2019	May-22-2019	Jun-5-2019	Jun-5-2019	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	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	6*	7*	8*	9*	10*
1 UTC			0 b	0 c	0 -	0 b	0 -
2 Roundup Power Max	1.13 lb ae/a A		100 a	76 b	27 -	97 a	3 -
Xtendimax	0.5 lb ae/a A						
Induce	0.25 % v/v A						
On Target	0.5 % v/v A						
Roundup Power Max	1.13 lb ae/a B						
Select Max	0.07 lb ai/a B						
Induce	0.25 % v/v B						
N-pak ams	2.5 % v/v B						

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	SETFA	ERICA	SETFA
Pest Scientific Name	Stellaria media	Lamium purpure>	Setaria faberi	Erigeron canad>	Setaria faberi
Pest Name	Common chickwe>	Purple deadnet>	Giant foxtail	Canada horsewe>	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	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-22-2019	May-22-2019	Jun-5-2019	Jun-5-2019	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	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	6*	7*	8*	9*	10*
3	Roundup Power Max	1.13	lb ae/a	A	98 a	98 a	10 -	92 a	2 -
	Xtendimax	0.5	lb ae/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Perpetuo	0.108	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
4	Roundup Power Max	1.13	lb ae/a	A	100 a	100 a	55 -	100 a	3 -
	Xtendimax	0.5	lb ae/a	A					
	Fierce EZ	0.143	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
5	Roundup Power Max	1.13	lb ae/a	A	100 a	100 a	30 -	100 a	2 -
	Xtendimax	0.5	lb ae/a	A					
	Fierce MTZ	0.33	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
6	Roundup Power Max	1.13	lb ae/a	A	100 a	68 b	10 -	100 a	0 -
	Xtendimax	0.5	lb ae/a	A					
	Authority MTZ	0.31	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Anthem Maxx	0.084	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
7	Roundup Power Max	1.13	lb ae/a	A	100 a	76 b	27 -	100 a	0 -
	Xtendimax	0.5	lb ae/a	A					
	Zidua Pro	0.192	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Perpetuo	0.108	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					
8	Roundup Power Max	1.13	lb ae/a	A	99 a	100 a	37 -	96 a	17 -
	Xtendimax	0.5	lb ae/a	A					
	Fierce EZ	0.143	lb ai/a	A					
	Induce	0.25	% v/v	A					
	On Target	0.5	% v/v	A					
	Roundup Power Max	1.13	lb ae/a	B					
	Perpetuo	0.108	lb ai/a	B					
	Select Max	0.07	lb ai/a	B					
	Induce	0.25	% v/v	B					
	N-pak ams	2.5	% v/v	B					

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	SETFA	ERICA	SETFA
Pest Scientific Name	Stellaria media	Lamium purpure>	Setaria faberi	Erigeron canad>	Setaria faberi
Pest Name	Common chickwe>	Purple deadnet>	Giant foxtail	Canada horsewe>	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	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-22-2019	May-22-2019	Jun-5-2019	Jun-5-2019	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	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	6*	7*	8*	9*	10*
9	Roundup Power Max	1.13 lb ae/a	A		93 a	100 a	37 -	100 a	2 -
	Xtendimax	0.5 lb ae/a	A						
	Fierce MTZ	0.33 lb ai/a	A						
	Induce	0.25 % v/v	A						
	On Target	0.5 % v/v	A						
	Roundup Power Max	1.13 lb ae/a	B						
	Perpetuo	0.108 lb ai/a	B						
	Select Max	0.07 lb ai/a	B						
	Induce	0.25 % v/v	B						
	N-pak ams	2.5 % v/v	B						
10	Roundup Power Max	1.13 lb ae/a	A		100 a	100 a	58 -	98 a	81 -
	Xtendimax	0.5 lb ae/a	A						
	Fierce XLT @ 4.0 oz		A						
	Valor SX	0.063 lb ai/a	A						
	Classic	0.021 lb ai/a	A						
	Zidua WG	0.054 lb ai/a	A						
	Induce	0.25 % v/v	A						
	On Target	0.5 % v/v	A						
	Roundup Power Max	1.13 lb ae/a	B						
	Perpetuo	0.108 lb ai/a	B						
	Select Max	0.07 lb ai/a	B						
	Induce	0.25 % v/v	B						
	N-pak ams	2.5 % v/v	B						
	LSD P=.05				6.7	5.4 - 19.4	47.6	5.4	69.5 - 78.9
	Standard Deviation				3.9	7.7t	27.8	3.1	0.8t
	CV				4.4	11.38t	95.75	3.55	133.77t
	Levene's F				0.895	0.738	0.741	1.356	0.468
	Levene's Prob(F)				0.548	0.659	0.668	0.274	0.879
	Skewness				-2.68*	-1.4131*	0.756	-2.6733*	0.7918
	Kurtosis				5.6895*	1.1639	-0.4565	5.6853*	-1.41
	Replicate F				0.784	1.175	0.554	1.780	0.283
	Replicate Prob(F)				0.4723	0.3421	0.5839	0.1987	0.7570
	Treatment F				192.964	37.255	1.396	297.843	1.719
	Treatment Prob(F)				0.0001	0.0001	0.2608	0.0001	0.1568

Pest Type		W Weed	W Weed
Pest Code		ERICA	AMATA
Pest Scientific Name		Erigeron canad>	Amaranthus tam>
Pest Name		Canada horsewe>	Common waterhe>
Crop Type, Code		C -	C -
Rating Date		Jun-18-2019	Jun-18-2019
Rating Type		CONTRO	CONTRO
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		0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
		11*	12*
1 UTC		0	0 b
2 Roundup Power Max	1.13 lb ae/a A	80 -	95 a
Xtendimax	0.5 lb ae/a A		
Induce	0.25 % v/v A		
On Target	0.5 % v/v A		
Roundup Power Max	1.13 lb ae/a B		
Select Max	0.07 lb ai/a B		
Induce	0.25 % v/v B		
N-pak ams	2.5 % v/v B		

Pest Type	W Weed	W Weed
Pest Code	ERICA	AMATA
Pest Scientific Name	Erigeron canad>	Amaranthus tam>
Pest Name	Canada horsewe>	Common waterhe>
Crop Type, Code	C -	C -
Rating Date	Jun-18-2019	Jun-18-2019
Rating Type	CONTRO	CONTRO
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	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	11*	12*
3	Roundup Power Max	1.13 lb ae/a	A		82 -	55 a
	Xtendimax	0.5 lb ae/a	A			
	Induce	0.25 % v/v	A			
	On Target	0.5 % v/v	A			
	Roundup Power Max	1.13 lb ae/a	B			
	Perpetuo	0.108 lb ai/a	B			
	Select Max	0.07 lb ai/a	B			
	Induce	0.25 % v/v	B			
	N-pak ams	2.5 % v/v	B			
4	Roundup Power Max	1.13 lb ae/a	A		93 -	100 a
	Xtendimax	0.5 lb ae/a	A			
	Fierce EZ	0.143 lb ai/a	A			
	Induce	0.25 % v/v	A			
	On Target	0.5 % v/v	A			
	Roundup Power Max	1.13 lb ae/a	B			
	Select Max	0.07 lb ai/a	B			
	Induce	0.25 % v/v	B			
	N-pak ams	2.5 % v/v	B			
5	Roundup Power Max	1.13 lb ae/a	A		75 -	104 a
	Xtendimax	0.5 lb ae/a	A			
	Fierce MTZ	0.33 lb ai/a	A			
	Induce	0.25 % v/v	A			
	On Target	0.5 % v/v	A			
	Roundup Power Max	1.13 lb ae/a	B			
	Select Max	0.07 lb ai/a	B			
	Induce	0.25 % v/v	B			
	N-pak ams	2.5 % v/v	B			
6	Roundup Power Max	1.13 lb ae/a	A		80 -	104 a
	Xtendimax	0.5 lb ae/a	A			
	Authority MTZ	0.31 lb ai/a	A			
	Induce	0.25 % v/v	A			
	On Target	0.5 % v/v	A			
	Roundup Power Max	1.13 lb ae/a	B			
	Anthem Maxx	0.084 lb ai/a	B			
	Select Max	0.07 lb ai/a	B			
	Induce	0.25 % v/v	B			
	N-pak ams	2.5 % v/v	B			
7	Roundup Power Max	1.13 lb ae/a	A		87 -	80 a
	Xtendimax	0.5 lb ae/a	A			
	Zidua Pro	0.192 lb ai/a	A			
	Induce	0.25 % v/v	A			
	On Target	0.5 % v/v	A			
	Roundup Power Max	1.13 lb ae/a	B			
	Perpetuo	0.108 lb ai/a	B			
	Select Max	0.07 lb ai/a	B			
	Induce	0.25 % v/v	B			
	N-pak ams	2.5 % v/v	B			
8	Roundup Power Max	1.13 lb ae/a	A		72 -	104 a
	Xtendimax	0.5 lb ae/a	A			
	Fierce EZ	0.143 lb ai/a	A			
	Induce	0.25 % v/v	A			
	On Target	0.5 % v/v	A			
	Roundup Power Max	1.13 lb ae/a	B			
	Perpetuo	0.108 lb ai/a	B			
	Select Max	0.07 lb ai/a	B			
	Induce	0.25 % v/v	B			
	N-pak ams	2.5 % v/v	B			

Pest Type	W Weed	W Weed
Pest Code	ERICA	AMATA
Pest Scientific Name	Erigeron canad>	Amaranthus tam>
Pest Name	Canada horsewe>	Common waterhe>
Crop Type, Code	C -	C -
Rating Date	Jun-18-2019	Jun-18-2019
Rating Type	CONTRO	CONTRO
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	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	11*	12*
9	Roundup Power Max	1.13 lb	ae/a	A	77 -	100 a
	Xtendimax	0.5 lb	ae/a	A		
	Fierce MTZ	0.33 lb	ai/a	A		
	Induce	0.25 %	v/v	A		
	On Target	0.5 %	v/v	A		
	Roundup Power Max	1.13 lb	ae/a	B		
	Perpetuo	0.108 lb	ai/a	B		
	Select Max	0.07 lb	ai/a	B		
	Induce	0.25 %	v/v	B		
	N-pak ams	2.5 %	v/v	B		
10	Roundup Power Max	1.13 lb	ae/a	A	78 -	95 a
	Xtendimax	0.5 lb	ae/a	A		
	Fierce XLT @ 4.0 oz			A		
	Valor SX	0.063 lb	ai/a	A		
	Classic	0.021 lb	ai/a	A		
	Zidua WG	0.054 lb	ai/a	A		
	Induce	0.25 %	v/v	A		
	On Target	0.5 %	v/v	A		
	Roundup Power Max	1.13 lb	ae/a	B		
	Perpetuo	0.108 lb	ai/a	B		
	Select Max	0.07 lb	ai/a	B		
	Induce	0.25 %	v/v	B		
	N-pak ams	2.5 %	v/v	B		
	LSD P=.05				29.3	22.7
	Standard Deviation				16.8	11.3
	CV				20.91	15.12
	Levene's F				0.409	0.00
	Levene's Prob(F)				0.90	.
	Skewness				-0.546	-1.3484*
	Kurtosis				-1.065	0.3513
	Replicate F				1.193	0.694
	Replicate Prob(F)				0.3306	0.5354
	Treatment F				0.433	20.481
	Treatment Prob(F)				0.8831	0.0008

Valent actives in Roundup Xtend System - No-till

Trial ID: 19 FIERCE NT URB Location: Urbana, OH Trial Year: 2019
Protocol ID: 19 FIERCE NT Investigator: Dr. Mark M. Loux
Project ID: 2019FIERCEMD6402 Study Director: Bryan Reeb
Sponsor Contact: Eric Ott, Valent

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