

The Ohio State University

Fierce burndown plus residual control of marestail vs others.

Trial ID: 18 FIERCEBURN Location: F-9 East End Trial Year: 2018
 Protocol ID: 18 FIERCEBURN Investigator: Dr. Mark M. Loux
 Project ID: VUSA2018FIERCEMD64.06 Study Director: Bryan Reeb
 Sponsor Contact: Eric Ott, Valent

General Trial Information

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

Discipline: H herbicide
Initiation Date: Apr-30-2018

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 °: 39.85873 N
Longitude of LL Corner °: 83.67117 W
Altitude of LL Corner, Unit: 1088.00 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: Pioneer 36T36X **BBCH Scale:** BSOY
Planting Date: Apr-30-2018
Planting Method: PLANTD planted
Planting Equipment: FE field equipment
Emergence Date: May-11-2018
Planting Rate, Unit: 166000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 55 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDTRA medium/trashy

Pest Description

Pest 1 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed
Pest 2 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettle
Pest 3 Type: W **Code:** RANAB Ranunculus abortivus
Common Name: Smallflower buttercup
Pest 4 Type: W **Code:** VERAG Veronica agrestis
Common Name: Field speedwell
Pest 5 Type: W **Code:** TARSS Taraxacum sp.
Common Name: Dandelion
Pest 6 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
Pest 7 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
Pest 8 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed
Pest 9 Type: W **Code:** CHEAL Chenopodium album
Common Name: common lambsquarters

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: NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

No. Previous Crop Year
 1. CORN 2017

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Soil Description

Description Name: F-9 East
% Sand: 37 **% OM:** 3 **Texture:** L loam
% Silt: 49 **pH:** 6.4 **Soil Name:** Kokomo
% Clay: 15 **CEC:** 17.8 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	Apr-30-2018	Jun-6-2018
Appl. Start Time:	1:00 PM	8:30 AM
Appl. Stop Time:	1:20 PM	8:45 AM
Interval to Prev. Appl., Unit:		37 DAYS
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	POST
Application Placement:	BROSOI	BROFOL
Applied By:		Reeb,Dobbel
Air Temperature, Unit:	64 F	59 F
% Relative Humidity:	25	73
Wind Velocity, Unit:	4 MPH	6 MPH
Wind Direction:	SW	NE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	60 F	60 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	20	0
Next Moisture Occurred On:	May-3-2018	Jun-8-2018
Time to Next Moisture, Unit:	3 DAY	2 DAY
Moisture 1 Week after Appl.:	0.71 IN	1.1 IN

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		15 100
Height, Unit:		7 IN
Height Minimum, Maximum:		6 8

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	65	
Diameter, Unit:	11 IN	
Height, Unit:	2.5 IN	
Height Minimum, Maximum:	2 3	
Density, Unit:	4 M2	
Pest 2 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	65	
Diameter, Unit:	2 IN	
Height, Unit:	3 IN	
Height Minimum, Maximum:	2 4	
Density, Unit:	8 M2	
Pest 3 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	65	
Diameter, Unit:	5 IN	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2.5 11.5	
Density, Unit:	2 M2	
Pest 4 Code, Type, Scale:	VERAG W	VERAG W
Stage Majority, Percent:	65	65
Diameter, Unit:	6 IN	
Height, Unit:	2 IN	2 IN
Height Minimum, Maximum:		1 2
Density, Unit:	7 M2	
Pest 5 Code, Type, Scale:	TARSS W	TARSS W
Stage Majority, Percent:	65	
Diameter, Unit:	10 IN	
Height, Unit:	0.75 IN	
Height Minimum, Maximum:	0.5 1	
Density, Unit:	0.25 M2	
Pest 6 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	12	16
Diameter, Unit:	2 IN	
Height, Unit:	1.5 IN	8 IN
Height Minimum, Maximum:	1 1.5	6 12
Density, Unit:	7 m2	
Pest 7 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		15
Stage Minimum, Percent:		14
Stage Maximum, Percent:		16
Height, Unit:		8 IN
Height Minimum, Maximum:		2 12
Density, Unit:	393 PLA/m2	
Pest 8 Code, Type, Scale:	AMARE W	AMARE W
Density, Unit:	31 PLA/m2	
Pest 9 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:	9 PLA/m2	

Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	10' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	46 PSI
Nozzle Type:	TTI	TTI
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	4
Boom Length, Unit:	6.67 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 L	3 GAL
Propellant:	COMCO2	COMCO2

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed
Pest Code	LAMPU	STEME	VERAG	AMBTR		SETFA
Pest Scientific Name	Lamium purpure>	Stellaria media	Veronica agres>	Ambrosia trifi>		Setaria faberi
Pest Name	Purple deadnet>	Common chickwe>	Field speedwell	Giant ragweed		Giant foxtail
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	May-28-2018	May-28-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A		28 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	17 DE-1	17 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1	UTC				0.0	0.0 b	0.0 d	0.0 b	0.0 -	0.0 b
2	Roundup Power Max	32 oz/a		A	63.3 -	100.0 a	66.7 abc	100.0 a	0.0 -	0.0 b
	Xtendimax	22 oz/a		A						
	Intact	0.3 qt/a		A						
	Induce	0.15 qt/a		A						
2	Roundup Power Max	32 oz/a		B						
	Xtendimax	22 oz/a		B						
	Intact	0.3 qt/a		B						
	Induce	0.15 qt/a		B						
3	Zidua Pro	6 oz/a		A	63.3 -	100.0 a	68.3 abc	98.3 a	0.0 -	56.7 a
3	Roundup Power Max	32 oz/a		A						
	Xtendimax	22 oz/a		A						
	Intact	0.3 qt/a		A						
	Induce	0.15 qt/a		A						
3	Roundup Power Max	32 oz/a		B						
	Xtendimax	22 oz/a		B						
	Intact	0.3 qt/a		B						
	Induce	0.15 qt/a		B						
4	Valor EZ	2.5 oz/a		A	76.7 -	100.0 a	50.0 c	100.0 a	0.0 -	33.3 ab
4	Roundup Power Max	32 oz/a		A						
	Xtendimax	22 oz/a		A						
	Intact	0.3 qt/a		A						
	Induce	0.15 qt/a		A						
4	Roundup Power Max	32 oz/a		B						
	Xtendimax	22 oz/a		B						
	Intact	0.3 qt/a		B						
	Induce	0.15 qt/a		B						
5	Fierce	3 oz/a		A	75.0 -	100.0 a	50.0 c	100.0 a	0.0 -	26.7 ab
5	Roundup Power Max	32 oz/a		A						
	Xtendimax	22 oz/a		A						
	Intact	0.3 qt/a		A						
	Induce	0.15 qt/a		A						
5	Roundup Power Max	32 oz/a		B						
	Xtendimax	22 oz/a		B						
	Intact	0.3 qt/a		B						
	Induce	0.15 qt/a		B						
6	Fierce	3.75 oz/a		A	73.3 -	100.0 a	60.0 bc	100.0 a	0.0 -	13.3 b
6	Roundup Power Max	32 oz/a		A						
	Xtendimax	22 oz/a		A						
	Intact	0.3 qt/a		A						
	Induce	0.15 qt/a		A						
6	Roundup Power Max	32 oz/a		B						
	Xtendimax	22 oz/a		B						
	Intact	0.3 qt/a		B						
	Induce	0.15 qt/a		B						

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.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 5,10,12,13,15 because error mean square = 0.

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Pest Code	LAMPU	STEME	VERAG	AMBTR		SETFA				
Pest Scientific Name	Lamium purpure>	Stellaria media	Veronica agres>	Ambrosia trifi>		Setaria faberi				
Pest Name	Purple deadnet>	Common chickwe>	Field speedwell	Giant ragweed		Giant foxtail				
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	May-28-2018	May-28-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A		28 DA-A				
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1				
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	17 DE-1	17 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Unit Code	1*	2*	3*	4*	5*	6*
7	Fierce MTZ	1 pt/a	A		81.7 -	100.0 a	86.7 a	100.0 a	0.0 -	30.0 ab
	7 Roundup Power Max	32 oz/a	A							
	7 Xtendimax	22 oz/a	A							
	7 Intact	0.3 qt/a	A							
	7 Induce	0.15 qt/a	A							
	7 Roundup Power Max	32 oz/a	B							
	7 Xtendimax	22 oz/a	B							
	7 Intact	0.3 qt/a	B							
	7 Induce	0.15 qt/a	B							
8	Authority Supreme	7.7 oz/a	A		61.7 -	100.0 a	56.7 bc	100.0 a	0.0 -	36.7 ab
	8 Roundup Power Max	32 oz/a	A							
	8 Xtendimax	22 oz/a	A							
	8 Intact	0.3 qt/a	A							
	8 Induce	0.15 qt/a	A							
	8 Roundup Power Max	32 oz/a	B							
	8 Xtendimax	22 oz/a	B							
	8 Intact	0.3 qt/a	B							
	8 Induce	0.15 qt/a	B							
9	Authority MTZ	11 oz/a	A		70.0 -	96.7 a	76.7 ab	95.0 a	0.0 -	0.0 b
	9 Roundup Power Max	32 oz/a	A							
	9 Xtendimax	22 oz/a	A							
	9 Intact	0.3 qt/a	A							
	9 Induce	0.15 qt/a	A							
	9 Roundup Power Max	32 oz/a	B							
	9 Xtendimax	22 oz/a	B							
	9 Intact	0.3 qt/a	B							
	9 Induce	0.15 qt/a	B							
10	V-10452 (Fierce)	6 oz/a	A		73.3 -	100.0 a	66.7 abc	98.3 a	0.0 -	26.7 ab
	10 Roundup Power Max	32 oz/a	A							
	10 Xtendimax	22 oz/a	A							
	10 Intact	0.3 qt/a	A							
	10 Induce	0.15 qt/a	A							
	10 Roundup Power Max	32 oz/a	B							
	10 Xtendimax	22 oz/a	B							
	10 Intact	0.3 qt/a	B							
	10 Induce	0.15 qt/a	B							
	LSD P=.05				12.48	3.13	16.32	5.37	.	22.92
	Standard Deviation				7.21	1.83	9.51	3.13	0.00	13.36
	CV				10.16	2.04	16.35	3.51	0.0	59.83
	Levene's F				0.176	1.00	1.072	0.859	0.00	0.481
	Levene's Prob(F)				0.991	0.471	0.423	0.575	.	0.87
	Skewness				0.4742	-2.7914*	-1.1865*	-2.7635*	.	0.259
	Kurtosis				-0.6947	6.2406*	1.6487	6.131*	.	-1.3613
	Replicate F				3.706	1.000	1.225	0.340	0.000	0.523
	Replicate Prob(F)				0.0476	0.3874	0.3171	0.7165	1.0000	0.6016
	Treatment F				2.731	894.333	18.146	300.802	0.000	5.936
	Treatment Prob(F)				0.0415	0.0001	0.0001	0.0001	1.0000	0.0007

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMARE	VERAG	SETFA	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>	Veronica agres>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name	Giant ragweed	Redroot pigweed	Field speedwell	Giant foxtail	Giant ragweed	Redroot pigweed
Rating Date	May-28-2018	May-28-2018	May-28-2018	Jun-27-2018	Jun-27-2018	Jun-27-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	28 28	28 28	28 28	58 21	58 21	58 21
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A			
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	47 DE-1	47 DE-1	47 DE-1

Trt Treatment	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1 UTC				0.0	0.0 b	0.0	0.0 -	0.0 b	0.0 -
2 Roundup Power Max	32 oz/a		A	91.7 -	98.3 a	93.3 -	100.0 -	100.0 a	100.0 -
2 Xtendimax	22 oz/a		A						
2 Intact	0.3 qt/a		A						
2 Induce	0.15 qt/a		A						
2 Roundup Power Max	32 oz/a		B						
2 Xtendimax	22 oz/a		B						
2 Intact	0.3 qt/a		B						
2 Induce	0.15 qt/a		B						
3 Zidua Pro	6 oz/a		A	80.0 -	100.0 a	80.0 -	100.0 -	100.0 a	100.0 -
3 Roundup Power Max	32 oz/a		A						
3 Xtendimax	22 oz/a		A						
3 Intact	0.3 qt/a		A						
3 Induce	0.15 qt/a		A						
3 Roundup Power Max	32 oz/a		B						
3 Xtendimax	22 oz/a		B						
3 Intact	0.3 qt/a		B						
3 Induce	0.15 qt/a		B						
4 Valor EZ	2.5 oz/a		A	83.3 -	98.3 a	86.7 -	100.0 -	98.3 a	100.0 -
4 Roundup Power Max	32 oz/a		A						
4 Xtendimax	22 oz/a		A						
4 Intact	0.3 qt/a		A						
4 Induce	0.15 qt/a		A						
4 Roundup Power Max	32 oz/a		B						
4 Xtendimax	22 oz/a		B						
4 Intact	0.3 qt/a		B						
4 Induce	0.15 qt/a		B						
5 Fierce	3 oz/a		A	83.3 -	100.0 a	78.3 -	100.0 -	100.0 a	100.0 -
5 Roundup Power Max	32 oz/a		A						
5 Xtendimax	22 oz/a		A						
5 Intact	0.3 qt/a		A						
5 Induce	0.15 qt/a		A						
5 Roundup Power Max	32 oz/a		B						
5 Xtendimax	22 oz/a		B						
5 Intact	0.3 qt/a		B						
5 Induce	0.15 qt/a		B						
6 Fierce	3.75 oz/a		A	90.0 -	100.0 a	83.3 -	100.0 -	100.0 a	100.0 -
6 Roundup Power Max	32 oz/a		A						
6 Xtendimax	22 oz/a		A						
6 Intact	0.3 qt/a		A						
6 Induce	0.15 qt/a		A						
6 Roundup Power Max	32 oz/a		B						
6 Xtendimax	22 oz/a		B						
6 Intact	0.3 qt/a		B						
6 Induce	0.15 qt/a		B						

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Pest Code	AMBTR	AMARE	VERAG	SETFA	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>	Veronica agres>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>
Pest Name	Giant ragweed	Redroot pigweed	Field speedwell	Giant foxtail	Giant ragweed	Redroot pigweed
Rating Date	May-28-2018	May-28-2018	May-28-2018	Jun-27-2018	Jun-27-2018	Jun-27-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	28 28	28 28	28 28	58 21	58 21	58 21
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A			
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	47 DE-1	47 DE-1	47 DE-1

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	7*	8*	9*	10*	11*	12*
7	Fierce MTZ	1 pt/a		A	88.3 -	95.0 a	96.7 -	100.0 -	100.0 a	100.0 -
	7 Roundup Power Max	32 oz/a		A						
	7 Xtendimax	22 oz/a		A						
	7 Intact	0.3 qt/a		A						
	7 Induce	0.15 qt/a		A						
	7 Roundup Power Max	32 oz/a		B						
	7 Xtendimax	22 oz/a		B						
	7 Intact	0.3 qt/a		B						
	7 Induce	0.15 qt/a		B						
8	Authority Supreme	7.7 oz/a		A	73.3 -	100.0 a	81.7 -	100.0 -	100.0 a	100.0 -
	8 Roundup Power Max	32 oz/a		A						
	8 Xtendimax	22 oz/a		A						
	8 Intact	0.3 qt/a		A						
	8 Induce	0.15 qt/a		A						
	8 Roundup Power Max	32 oz/a		B						
	8 Xtendimax	22 oz/a		B						
	8 Intact	0.3 qt/a		B						
	8 Induce	0.15 qt/a		B						
9	Authority MTZ	11 oz/a		A	83.3 -	91.7 a	93.3 -	100.0 -	100.0 a	100.0 -
	9 Roundup Power Max	32 oz/a		A						
	9 Xtendimax	22 oz/a		A						
	9 Intact	0.3 qt/a		A						
	9 Induce	0.15 qt/a		A						
	9 Roundup Power Max	32 oz/a		B						
	9 Xtendimax	22 oz/a		B						
	9 Intact	0.3 qt/a		B						
	9 Induce	0.15 qt/a		B						
10	V-10452 (Fierce)	6 oz/a		A	86.7 -	98.3 a	86.7 -	100.0 -	100.0 a	100.0 -
	10 Roundup Power Max	32 oz/a		A						
	10 Xtendimax	22 oz/a		A						
	10 Intact	0.3 qt/a		A						
	10 Induce	0.15 qt/a		A						
	10 Roundup Power Max	32 oz/a		B						
	10 Xtendimax	22 oz/a		B						
	10 Intact	0.3 qt/a		B						
	10 Induce	0.15 qt/a		B						
	LSD P=.05				18.61	6.46	17.46	.	1.57	.
	Standard Deviation				10.75	3.76	10.09	0.00	0.91	0.00
	CV				12.73	4.27	11.64	0.0	1.02	0.0
	Levene's F				0.234	1.505	0.535	0.00	1.00	0.00
	Levene's Prob(F)				0.979	0.213	0.815	.	0.471	.
	Skewness				-0.3412	-2.7159*	-0.6911	-2.8091*	-2.8046*	-2.8091*
	Kurtosis				-0.4011	5.9453*	-0.3719	6.3081*	6.2913*	6.3081*
	Replicate F				1.369	2.176	6.662	0.000	1.000	0.000
	Replicate Prob(F)				0.2825	0.1424	0.0079	1.0000	0.3874	1.0000
	Treatment F				0.811	204.765	1.249	0.000	3587.667	0.000
	Treatment Prob(F)				0.6034	0.0001	0.3342	1.0000	0.0001	1.0000

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The Ohio State University

Fierce burndown plus residual control of marestalk vs others.

Trial ID: 18 FIERCEBURN Location: F-9 East End Trial Year: 2018
 Protocol ID: 18 FIERCEBURN Investigator: Dr. Mark M. Loux
 Project ID: VUSA2018FIERCEMD64.06 Study Director: Bryan Reeb
 Sponsor Contact: Eric Ott, Valent

Pest Type	W Weed	W Weed	O Other
Pest Code	VERAG	ECHCG	
Pest Scientific Name	Veronica agres>	Echinochloa cr>	
Pest Name	Field speedwell	Common barnyar>	
Rating Date	Jun-27-2018	Jun-27-2018	Jun-27-2018
Rating Type	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	58 21	58 21	58 21
Trt-Eval Interval			
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	47 DE-1	47 DE-1	47 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*
1	UTC				0.0 -	0.0	0.0 -
2	Roundup Power Max	32 oz/a		A	100.0 -	86.7 -	0.0 -
2	Xtendimax	22 oz/a		A			
2	Intact	0.3 qt/a		A			
2	Induce	0.15 qt/a		A			
2	Roundup Power Max	32 oz/a		B			
2	Xtendimax	22 oz/a		B			
2	Intact	0.3 qt/a		B			
2	Induce	0.15 qt/a		B			
3	Zidua Pro	6 oz/a		A	100.0 -	86.7 -	0.0 -
3	Roundup Power Max	32 oz/a		A			
3	Xtendimax	22 oz/a		A			
3	Intact	0.3 qt/a		A			
3	Induce	0.15 qt/a		A			
3	Roundup Power Max	32 oz/a		B			
3	Xtendimax	22 oz/a		B			
3	Intact	0.3 qt/a		B			
3	Induce	0.15 qt/a		B			
4	Valor EZ	2.5 oz/a		A	100.0 -	86.7 -	0.0 -
4	Roundup Power Max	32 oz/a		A			
4	Xtendimax	22 oz/a		A			
4	Intact	0.3 qt/a		A			
4	Induce	0.15 qt/a		A			
4	Roundup Power Max	32 oz/a		B			
4	Xtendimax	22 oz/a		B			
4	Intact	0.3 qt/a		B			
4	Induce	0.15 qt/a		B			
5	Fierce	3 oz/a		A	100.0 -	86.7 -	0.0 -
5	Roundup Power Max	32 oz/a		A			
5	Xtendimax	22 oz/a		A			
5	Intact	0.3 qt/a		A			
5	Induce	0.15 qt/a		A			
5	Roundup Power Max	32 oz/a		B			
5	Xtendimax	22 oz/a		B			
5	Intact	0.3 qt/a		B			
5	Induce	0.15 qt/a		B			
6	Fierce	3.75 oz/a		A	100.0 -	80.0 -	0.0 -
6	Roundup Power Max	32 oz/a		A			
6	Xtendimax	22 oz/a		A			
6	Intact	0.3 qt/a		A			
6	Induce	0.15 qt/a		A			
6	Roundup Power Max	32 oz/a		B			
6	Xtendimax	22 oz/a		B			
6	Intact	0.3 qt/a		B			
6	Induce	0.15 qt/a		B			

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Pest Type	W Weed	W Weed	O Other
Pest Code	VERAG	ECHCG	
Pest Scientific Name	Veronica agres>	Echinochloa cr>	
Pest Name	Field speedwell	Common barnyar>	
Rating Date	Jun-27-2018	Jun-27-2018	Jun-27-2018
Rating Type	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	58 21	58 21	58 21
Trt-Eval Interval			
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	47 DE-1	47 DE-1	47 DE-1

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	13*	14*	15*
7	Fierce MTZ	1 pt/a		A	100.0 -	86.7 -	0.0 -
7	Roundup Power Max	32 oz/a		A			
7	Xtendimax	22 oz/a		A			
7	Intact	0.3 qt/a		A			
7	Induce	0.15 qt/a		A			
7	Roundup Power Max	32 oz/a		B			
7	Xtendimax	22 oz/a		B			
7	Intact	0.3 qt/a		B			
7	Induce	0.15 qt/a		B			
8	Authority Supreme	7.7 oz/a		A	100.0 -	88.3 -	0.0 -
8	Roundup Power Max	32 oz/a		A			
8	Xtendimax	22 oz/a		A			
8	Intact	0.3 qt/a		A			
8	Induce	0.15 qt/a		A			
8	Roundup Power Max	32 oz/a		B			
8	Xtendimax	22 oz/a		B			
8	Intact	0.3 qt/a		B			
8	Induce	0.15 qt/a		B			
9	Authority MTZ	11 oz/a		A	100.0 -	86.7 -	0.0 -
9	Roundup Power Max	32 oz/a		A			
9	Xtendimax	22 oz/a		A			
9	Intact	0.3 qt/a		A			
9	Induce	0.15 qt/a		A			
9	Roundup Power Max	32 oz/a		B			
9	Xtendimax	22 oz/a		B			
9	Intact	0.3 qt/a		B			
9	Induce	0.15 qt/a		B			
10	V-10452 (Fierce)	6 oz/a		A	100.0 -	85.0 -	0.0 -
10	Roundup Power Max	32 oz/a		A			
10	Xtendimax	22 oz/a		A			
10	Intact	0.3 qt/a		A			
10	Induce	0.15 qt/a		A			
10	Roundup Power Max	32 oz/a		B			
10	Xtendimax	22 oz/a		B			
10	Intact	0.3 qt/a		B			
10	Induce	0.15 qt/a		B			
LSD	P=.05				.	6.34	.
Standard Deviation					0.00	3.66	0.00
CV					0.0	4.26	0.0
Levene's F					0.00	0.286	0.00
Levene's Prob(F)					.	0.962	.
Skewness					-2.8091*	-0.8632	.
Kurtosis					6.3081*	0.8223	.
Replicate F					0.000	1.931	0.000
Replicate Prob(F)					1.0000	0.1773	1.0000
Treatment F					0.000	1.259	0.000
Treatment Prob(F)					1.0000	0.3297	1.0000

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Protocol ID: 18 FIERCEBURN Investigator: Dr. Mark M. Loux
Project ID: VUSA2018FIERCEMD64.06 Study Director: Bryan Reeb
Sponsor Contact: Eric Ott, Valent

Pest Type

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

Pest Code

LAMPU, Lamium purpureum, Purple deadnettle = US
STEME, Stellaria media, Common chickweed = US
VERAG, Veronica agrestis, Field speedwell = US
AMBTR, Ambrosia trifida, Giant ragweed = US
SETFA, Setaria faberi, Giant foxtail = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

14 DP-1 = 1 GLXMA Apr-30-2018
28 DP-1 = 1 GLXMA Apr-30-2018
58 DP-1 = 1 GLXMA Apr-30-2018