

The Ohio State University

Fierce Plus Dicamba - Burndown

Trial ID: 17 VALXTEND
 Protocol ID: 17 VALXTEND
 Project ID: VUSA2017FIERCEMD64.06

Trial Year: 2017
 Investigator: Dr. Mark M. Loux

Sponsor Contact: Eric Ott, Valent

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 °: 39.85867 N
 Longitude of LL Corner °: 83.67153 W
 Altitude of LL Corner, Unit: 1055.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No

Study Rules: Default

No.	Guideline	Description
1.	ADM-C-PUB Confidentiality - Public Trial - No Secrecy Agreement Required	

Objectives:

To demonstrate the advantage of including Valor EZ (2.5 fl oz/A) Fierce (3 oz/ A) or Fierce MTZ (1 pt/A) to an Xtend herbicide program for residual control of glyphosate resistant marestail, Palmer, waterhemp, ragweeds, or Italian ryegrass. MOS is total burndown of emerged weeds, acceptable crop tolerance, and excellent preemergence weed control. Std = ZiduaPro @ 6 fl oz/A.

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXM06 Glycine max GMO Soybean, Glyph./Dicamba Tol.
 Variety: Asgrow AG36X6 BBCH Scale: BSOY
 Description: Dicamba Tolerant

Planting Rate, Unit: 175000 P/A
 Depth, Unit: 1 IN
 Row Spacing, Unit: 15 IN
 Soil Moisture: GOOD good

Planting Date: May-17-2017
 Planting Method: PLANTD planted
 Planting Equipment: FE Field Equipment
 Emergence Date: May-29-2017

Pest Description

Pest 1 Type: W Code: LAMPU Lamium purpureum
 Common Name: Purple deadnettle

Pest 2 Type: W Code: ERICA Erigeron canadensis
 Common Name: Canada horseweed

Pest 3 Type: W Code: STEME Stellaria media
 Common Name: Common chickweed

Pest 4 Type: W Code: ERYRE Erysimum repandum
 Common Name: Bushy wallflower

Pest 5 Type: W Code: TARSS Taraxacum sp.
 Common Name: Dandelion

Pest 6 Type: W Code: CAPBP Capsella bursa-pastoris
 Common Name: Shepherd's purse

Pest 7 Type: W Code: SETFA Setaria faberi
 Common Name: Giant foxtail

Pest 8 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed

Site and Design

Treated Plot Width: 6.67 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 200.1 FT2 Treatments: 12
 Replications: 3

Site Type: FIELD field
 Experimental Unit: 1 PLOT plot
 Tillage Type: NOTILL no-till
 Study Design: RACOB L Randomized Complete Block (RCB)

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Soil Description

Description Name: F-10 East
% OM: 3
pH: 6
CEC: 19.5
Texture: SICL silty clay loam
Soil Name: Kokomo
Fert. Level: G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	Apr-17-2017	Jun-1-2017
Appl. Start Time:	10:00 AM	10:20 AM
Appl. Stop Time:	10:30 AM	10:40 AM
Application Method:	SPRAY	SPRAY
Application Timing:	14 EPP	POST
Application Placement:	BROSOI	BROFOL
Applied By:	LOUX	REEB
Air Temperature, Unit:	66.9 F	67 F
% Relative Humidity:	41	46
Wind Velocity, Unit:	4.5 MPH	5 MPH
Wind Direction:	ENE	NE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	57 F	58 F
Soil Moisture:	GOOD	SLIDRY
% Cloud Cover:	20	0
Next Moisture Occurred On:	Apr-20-2017	Jun-4-2017
Time to Next Moisture, Unit:	3 DAY	3 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXM0 BSOY	GLXM0 BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		12 100
Height, Unit:		3 IN

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Pest Stage At Each Application

	A			B
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W
Stage Majority, Percent:	65	100		
Diameter, Unit:	4	IN		
Height, Unit:	3.5	IN		
Height Minimum, Maximum:	3	4		
Density, Unit:	4	m2		
Pest 2 Code, Type, Scale:	ERICA	W	ERICA	W
Stage Majority, Percent:	19	100	19	100
Diameter, Unit:	2.5	IN		
Height, Unit:	2	IN	7	IN
Height Minimum, Maximum:	1	3	6	9
Density, Unit:	98	m2		
Pest 3 Code, Type, Scale:	STEME	W	STEME	W
Stage Majority, Percent:	65	100		
Diameter, Unit:	9	IN		
Height, Unit:	3.5	IN		
Height Minimum, Maximum:	3	4		
Density, Unit:	1	m2		
Pest 4 Code, Type, Scale:	ERYRE	W	ERYRE	W
Stage Majority, Percent:	65	100		
Height, Unit:	13	IN		
Height Minimum, Maximum:	12	14		
Density, Unit:	64	m2		
Pest 5 Code, Type, Scale:	TARSS	W	TARSS	W
Stage Majority, Percent:	65	100	60	100
Diameter, Unit:	10	IN	9	IN
Height, Unit:	2.5	IN	8	IN
Height Minimum, Maximum:	2	3		
Density, Unit:	2	m2		
Pest 6 Code, Type, Scale:	CAPBP	W	CAPBP	W
Stage Majority, Percent:	65	100		
Diameter, Unit:	5.5	IN		
Height, Unit:	19	IN		
Height Minimum, Maximum:	18	20		
Density, Unit:	1	m2		
Pest 7 Code, Type, Scale:	SETFA	W	SETFA	W
Stage Majority, Percent:			13	100
Height, Unit:			3	IN
Pest 8 Code, Type, Scale:	AMBTR	W	AMBTR	W
Stage Majority, Percent:			18	100
Height, Unit:			7	IN

Application Equipment

	A			B
Appl. Equipment:	6' BACKPACK		10' BACKPACK	
Equipment Type:	BACCAI		BACCAI	
Operation Pressure, Unit:	48	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	liters	2	liters
Propellant:	COMCO2		COMCO2	

Date	By	Notes
Jul-24-2017	Reeb	Overlaid with Rounup to clean up for harvest

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Pest Type	W Weed	W Weed	W Weed	O Other
Pest Code	ERICA	AMBTR	ERYRE	
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Erysimum repa>	
Pest Name	Canada horsewe>	Giant ragweed	Bushy wallflow>	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-30-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	29 29	29 29	29 29	43 43
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	13 DP-1
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	1 DE-1

Trt Treatment No. Name	Rate	Growth Stage	Appl Code	1	2	3	4
1 UTC				0.0 c	0.0 b	0.0 c	0.0 a
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	88.3 ab	100.0 a	100.0 a	1.0 a
2 CLARITY (AE)	1 pt/a	NTLL	A				
2 NIS	0.25 % v/v	NTLL	A				
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
2 CLARITY (AE)	1 pt/a	POST	B				
2 NIS	0.25 % v/v	POST	B				
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	95.0 a	100.0 a	100.0 a	2.0 a
3 CLARITY (AE)	1 pt/a	NTLL	A				
3 ZIDUA PRO	6 fl oz/a	NTLL	A				
3 NIS	0.25 % v/v	NTLL	A				
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
3 CLARITY (AE)	1 pt/a	POST	B				
3 NIS	0.25 % v/v	POST	B				
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	91.7 ab	100.0 a	100.0 a	2.0 a
4 CLARITY (AE)	1 pt/a	NTLL	A				
4 VALOR EZ1	2.5 fl oz/a	NTLL	A				
4 NIS	0.25 % v/v	NTLL	A				
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
4 CLARITY (AE)	1 pt/a	POST	B				
4 NIS	0.25 % v/v	POST	B				
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	95.3 a	100.0 a	100.0 a	1.7 a
5 CLARITY (AE)	1 pt/a	NTLL	A				
5 FIERCE	3 oz wt/a	NTLL	A				
5 NIS	0.25 % v/v	NTLL	A				
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
5 CLARITY (AE)	1 pt/a	POST	B				
5 NIS	0.25 % v/v	POST	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.
 Missing data estimates are included in columns: Average=5
 Could not calculate LSD (% mean diff) for columns 2,8,16 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	O Other
Pest Code	ERICA	AMBTR	ERYRE	
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Erysimum repa>	
Pest Name	Canada horsewe>	Giant ragweed	Bushy wallflow>	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-30-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	29 29	29 29	29 29	43 43
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	13 DP-1
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	1 DE-1

Trt Treatment	Rate	Growth	Appl				
No. Name	Rate Unit	Stage	Code	1	2	3	4
6 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	89.3 ab	100.0 a	100.0 a	1.0 a
6 CLARITY (AE)	1 pt/a	NTLL	A				
6 FIERCE MTZ SC (2030)	1 pt/a	NTLL	A				
6 NIS	0.25 % v/v	NTLL	A				
6 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
6 CLARITY (AE)	1 pt/a	POST	B				
6 NIS	0.25 % v/v	POST	B				
7 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	95.0 a	100.0 a	93.3 ab	2.0 a
7 CLARITY (AE)	1 pt/a	NTLL	A				
7 VALOR EZ1	2.5 fl oz/a	NTLL	A				
7 SENCOR	4 fl oz/a	NTLL	A				
7 NIS	0.25 % v/v	NTIL	A				
7 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
7 CLARITY (AE)	1 pt/a	POST	B				
7 NIS	0.25 % v/v	POST	B				
8 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	91.0 ab	100.0 a	90.0 b	1.7 a
8 CLARITY (AE)	1 pt/a	NTLL	A				
8 AUTHORITY MTZ	11 oz wt/a	NTLL	A				
8 NIS	0.25 % v/v	NTLL	A				
8 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
8 CLARITY (AE)	1 pt/a	POST	B				
8 NIS	0.25 % v/v	POST	B				
9 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	98.3 a	100.0 a	100.0 a	0.0 a
9 CLARITY (AE)	1 pt/a	NTLL	A				
9 NIS	0.25 % v/v	NTLL	A				
9 AUTHORITY ELITE	26 fl oz/a	NTLL	A				
9 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
9 CLARITY (AE)	1 pt/a	POST	B				
9 NIS	0.25 % v/v	POST	B				
10 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	96.7 a	100.0 a	100.0 a	2.0 a
10 CLARITY (AE)	1 pt/a	NTLL	A				
10 NIS	0.25 % v/v	NTIL	A				
10 VALOR EZ1	2 fl oz/a	NTLL	A				
10 NIS	0.25 % v/v	POST	B				
10 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
10 CLARITY (AE)	1 pt/a	POST	B				

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Pest Code	ERICA	AMBTR	ERYRE	
Pest Scientific Name	Erigeron canad>	Ambrosia trifi>	Erysimum repa>	
Pest Name	Canada horsewe>	Giant ragweed	Bushy wallflow>	
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-30-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	29 29	29 29	29 29	43 43
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	13 DP-1
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	1 DE-1

Trt Treatment	Rate	Growth	Appl	1	2	3	4
No. Name	Rate Unit	Stage	Code				
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	83.3 b	100.0 a	100.0 a	2.7 a
11 CLARITY (AE)	1 pt/a	NTLL	A				
11 NIS	0.25 % v/v	NTLL	A				
11 FIERCE XLT	4 oz wt/a	NTLL	A				
11 NIS	0.25 % v/v	POST	B				
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
11 CLARITY (AE)	1 pt/a	POST	B				
11 NIS	0.25 % v/v	POST	B				
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	95.0 a	100.0 a	100.0 a	1.0 a
12 CLARITY (AE)	1 pt/a	NTLL	A				
12 NIS	0.25 % v/v	NTLL	A				
12 FIERCE XLT	4 oz wt/a	NTLL	A				
12 NIS	0.25 % v/v	POST	B				
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B				
LSD P=.05				11.04	.	7.17	3.39
Standard Deviation				6.52	0.00	4.23	2.00
CV				7.68	0.0	4.69	141.18
Bartlett's X2				4.488	0.0	0.04	1.828
P(Bartlett's X2)				0.923	.	0.841	0.994
Replicate F				2.097	0.000	2.014	0.000
Replicate Prob(F)				0.1467	1.0000	0.1573	1.0000
Treatment F				51.741	0.000	137.056	0.517
Treatment Prob(F)				0.0001	1.0000	0.0001	0.8713

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Pest Type	W Weed	W Weed	W Weed	O Other	W Weed		
Pest Code	SETFA	AMBTR	ERICA		SETFA		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Erigeron canad>		Setaria faberi		
Pest Name	Giant foxtail	Giant ragweed	Canada horsewe>		Giant foxtail		
Crop Code				GLXMA			
BBCH Scale				BSOY			
Crop Scientific Name				Glycine max			
Crop Name				Soybean			
Rating Date	May-30-2017	May-30-2017	May-30-2017	Jun-12-2017	Jun-12-2017		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	43 43	43 43	43 43	56 11	56 11		
Trt-Eval Interval							
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	26 DP-1	26 DP-1		
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	14 DE-1	14 DE-1		
Trt Treatment	Rate	Growth Appl					
No. Name	Rate Unit	Stage Code	5	6	7	8	9
1 UTC			0.0 d	0.0 c	0.0 e	0.0 a	100.0 a
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	50.0 bc	30.0 ab	88.3 abc	0.0 a	99.3 a
2 CLARITY (AE)	1 pt/a	NTLL A					
2 NIS	0.25 % v/v	NTLL A					
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
2 CLARITY (AE)	1 pt/a	POST B					
2 NIS	0.25 % v/v	POST B					
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	50.0 bc	30.0 ab	76.7 d	0.0 a	100.0 a
3 CLARITY (AE)	1 pt/a	NTLL A					
3 ZIDUA PRO	6 fl oz/a	NTLL A					
3 NIS	0.25 % v/v	NTLL A					
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
3 CLARITY (AE)	1 pt/a	POST B					
3 NIS	0.25 % v/v	POST B					
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	71.3 abc	23.3 b	86.7 a-d	0.0 a	100.0 a
4 CLARITY (AE)	1 pt/a	NTLL A					
4 VALOR EZ1	2.5 fl oz/a	NTLL A					
4 NIS	0.25 % v/v	NTLL A					
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
4 CLARITY (AE)	1 pt/a	POST B					
4 NIS	0.25 % v/v	POST B					
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	40.0 cd	26.7 ab	83.3 cd	0.0 a	100.0 a
5 CLARITY (AE)	1 pt/a	NTLL A					
5 FIERCE	3 oz wt/a	NTLL A					
5 NIS	0.25 % v/v	NTLL A					
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
5 CLARITY (AE)	1 pt/a	POST B					
5 NIS	0.25 % v/v	POST B					

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Pest Code	SETFA	AMBTR	ERICA		SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Erigeron canadensis		Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Canada horseweed		Giant foxtail
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	May-30-2017	May-30-2017	May-30-2017	Jun-12-2017	Jun-12-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	43 43	43 43	43 43	56 11	56 11
Trt-Eval Interval					
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	26 DP-1	26 DP-1
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	14 DE-1	14 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	5	6	7	8	9
6	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	95.0 a	26.7 ab	76.7 d	0.0 a	100.0 a
6	CLARITY (AE)	1 pt/a		NTLL	A					
6	FIERCE MTZ SC (2030)	1 pt/a		NTLL	A					
6	NIS	0.25 % v/v		NTLL	A					
6	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B					
6	CLARITY (AE)	1 pt/a		POST	B					
6	NIS	0.25 % v/v		POST	B					
7	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	55.0 abc	23.3 b	95.7 a	0.0 a	100.0 a
7	CLARITY (AE)	1 pt/a		NTLL	A					
7	VALOR EZ1	2.5 fl oz/a		NTLL	A					
7	SENCOR	4 fl oz/a		NTLL	A					
7	NIS	0.25 % v/v		NTIL	A					
7	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B					
7	CLARITY (AE)	1 pt/a		POST	B					
7	NIS	0.25 % v/v		POST	B					
8	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	65.0 abc	26.7 ab	95.7 a	0.0 a	100.0 a
8	CLARITY (AE)	1 pt/a		NTLL	A					
8	AUTHORITY MTZ	11 oz wt/a		NTLL	A					
8	NIS	0.25 % v/v		NTLL	A					
8	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B					
8	CLARITY (AE)	1 pt/a		POST	B					
8	NIS	0.25 % v/v		POST	B					
9	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	90.0 ab	23.3 b	95.0 ab	0.0 a	100.0 a
9	CLARITY (AE)	1 pt/a		NTLL	A					
9	NIS	0.25 % v/v		NTLL	A					
9	AUTHORITY ELITE	26 fl oz/a		NTLL	A					
9	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B					
9	CLARITY (AE)	1 pt/a		POST	B					
9	NIS	0.25 % v/v		POST	B					
10	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	82.5 abc	33.3 ab	85.0 bcd	0.0 a	99.3 a
10	CLARITY (AE)	1 pt/a		NTLL	A					
10	NIS	0.25 % v/v		NTIL	A					
10	VALOR EZ1	2 fl oz/a		NTLL	A					
10	NIS	0.25 % v/v		POST	B					
10	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B					
10	CLARITY (AE)	1 pt/a		POST	B					

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Pest Code	SETFA	AMBTR	ERICA		SETFA			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Erigeron canadensis		Setaria faberi			
Pest Name	Giant foxtail	Giant ragweed	Canada horseweed		Giant foxtail			
Crop Code				GLXMA				
BBCH Scale				BSOY				
Crop Scientific Name				Glycine max				
Crop Name				Soybean				
Rating Date	May-30-2017	May-30-2017	May-30-2017	Jun-12-2017	Jun-12-2017			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	43 43	43 43	43 43	56 11	56 11			
Trt-Eval Interval								
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	26 DP-1	26 DP-1			
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	14 DE-1	14 DE-1			
Trt Treatment	Rate	Growth	Appl					
No. Name	Rate Unit	Stage	Code	5	6	7	8	9
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	76.7 abc	36.7 a	76.7 d	0.0 a	100.0 a
11 CLARITY (AE)	1 pt/a	NTLL	A					
11 NIS	0.25 % v/v	NTLL	A					
11 FIERCE XLT	4 oz wt/a	NTLL	A					
11 NIS	0.25 % v/v	POST	B					
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
11 CLARITY (AE)	1 pt/a	POST	B					
11 NIS	0.25 % v/v	POST	B					
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	55.0 abc	33.3 ab	96.7 a	0.0 a	100.0 a
12 CLARITY (AE)	1 pt/a	NTLL	A					
12 NIS	0.25 % v/v	NTLL	A					
12 FIERCE XLT	4 oz wt/a	NTLL	A					
12 NIS	0.25 % v/v	POST	B					
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
LSD P=.05				44.54	12.99	10.11	.	0.82
Standard Deviation				25.59	7.67	5.97	0.00	0.48
CV				42.04	29.38	7.49	0.0	0.48
Bartlett's X2				3.368	5.144	2.747	0.0	0.0
P(Bartlett's X2)				0.909	0.881	0.987	.	.
Replicate F				0.051	4.296	1.230	0.000	0.478
Replicate Prob(F)				0.9504	0.0266	0.3115	1.0000	0.6262
Treatment F				3.042	4.412	57.958	0.000	0.870
Treatment Prob(F)				0.0239	0.0015	0.0001	1.0000	0.5803

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 Missing data estimates are included in columns: Average=5
 Could not calculate LSD (% mean diff) for columns 2,8,16 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	O Other	W Weed	W Weed		
Pest Code	AMBTR	ERICA		SETFA	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Erigeron canad>		Setaria faberi	Ambrosia trifi>		
Pest Name	Giant ragweed	Canada horsewe>		Giant foxtail	Giant ragweed		
Crop Code			GLXMA				
BBCH Scale			BSOY				
Crop Scientific Name			Glycine max				
Crop Name			Soybean				
Rating Date	Jun-12-2017	Jun-12-2017	Jun-26-2017	Jun-26-2017	Jun-26-2017		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	56 11	56 11	70 25	70 25	70 25		
Trt-Eval Interval							
Plant-Eval Interval	26 DP-1	26 DP-1	40 DP-1	40 DP-1	40 DP-1		
Days After Emergence	14 DE-1	14 DE-1	28 DE-1	28 DE-1	28 DE-1		
Trt Treatment	Rate	Growth Appl					
No. Name	Rate Unit	Stage Code	10	11	12	13	14
1 UTC			83.3 b	66.7 b	0.0 a	73.3 a	95.0 ab
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	94.0 ab	92.7 a	1.0 a	73.3 a	86.7 abc
2 CLARITY (AE)	1 pt/a	NTLL A					
2 NIS	0.25 % v/v	NTLL A					
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
2 CLARITY (AE)	1 pt/a	POST B					
2 NIS	0.25 % v/v	POST B					
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	94.3 ab	91.0 a	1.0 a	83.0 a	73.3 c
3 CLARITY (AE)	1 pt/a	NTLL A					
3 ZIDUA PRO	6 fl oz/a	NTLL A					
3 NIS	0.25 % v/v	NTLL A					
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
3 CLARITY (AE)	1 pt/a	POST B					
3 NIS	0.25 % v/v	POST B					
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	94.0 ab	96.3 a	1.0 a	76.7 a	73.3 c
4 CLARITY (AE)	1 pt/a	NTLL A					
4 VALOR EZ1	2.5 fl oz/a	NTLL A					
4 NIS	0.25 % v/v	NTLL A					
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
4 CLARITY (AE)	1 pt/a	POST B					
4 NIS	0.25 % v/v	POST B					
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL A	94.0 ab	95.7 a	0.0 a	66.7 a	80.0 bc
5 CLARITY (AE)	1 pt/a	NTLL A					
5 FIERCE	3 oz wt/a	NTLL A					
5 NIS	0.25 % v/v	NTLL A					
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST B					
5 CLARITY (AE)	1 pt/a	POST B					
5 NIS	0.25 % v/v	POST B					

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The Ohio State University

Pest Type	W Weed	W Weed	O Other	W Weed	W Weed
Pest Code	AMBTR	ERICA		SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Erigeron canad>		Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Canada horsewe>		Giant foxtail	Giant ragweed
Crop Code			GLXMA		
BBCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	Jun-12-2017	Jun-12-2017	Jun-26-2017	Jun-26-2017	Jun-26-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	56 11	56 11	70 25	70 25	70 25
Trt-Eval Interval					
Plant-Eval Interval	26 DP-1	26 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	14 DE-1	14 DE-1	28 DE-1	28 DE-1	28 DE-1

Trt Treatment	Rate	Growth	Appl					
No. Name	Rate Unit	Stage	Code	10	11	12	13	14
6 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	95.0 ab	86.7 a	0.0 a	66.7 a	93.3 ab
6 CLARITY (AE)	1 pt/a	NTLL	A					
6 FIERCE MTZ SC (2030)	1 pt/a	NTLL	A					
6 NIS	0.25 % v/v	NTLL	A					
6 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
6 CLARITY (AE)	1 pt/a	POST	B					
6 NIS	0.25 % v/v	POST	B					
7 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	91.7 ab	93.3 a	1.0 a	65.0 a	76.7 c
7 CLARITY (AE)	1 pt/a	NTLL	A					
7 VALOR EZ1	2.5 fl oz/a	NTLL	A					
7 SENCOR	4 fl oz/a	NTLL	A					
7 NIS	0.25 % v/v	NTIL	A					
7 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
7 CLARITY (AE)	1 pt/a	POST	B					
7 NIS	0.25 % v/v	POST	B					
8 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	94.0 ab	97.3 a	1.0 a	70.0 a	80.0 bc
8 CLARITY (AE)	1 pt/a	NTLL	A					
8 AUTHORITY MTZ	11 oz wt/a	NTLL	A					
8 NIS	0.25 % v/v	NTLL	A					
8 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
8 CLARITY (AE)	1 pt/a	POST	B					
8 NIS	0.25 % v/v	POST	B					
9 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	95.0 ab	92.7 a	1.7 a	49.0 a	100.0 a
9 CLARITY (AE)	1 pt/a	NTLL	A					
9 NIS	0.25 % v/v	NTLL	A					
9 AUTHORITY ELITE	26 fl oz/a	NTLL	A					
9 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
9 CLARITY (AE)	1 pt/a	POST	B					
9 NIS	0.25 % v/v	POST	B					
10 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	96.7 a	98.7 a	1.0 a	63.3 a	76.7 c
10 CLARITY (AE)	1 pt/a	NTLL	A					
10 NIS	0.25 % v/v	NTIL	A					
10 VALOR EZ1	2 fl oz/a	NTLL	A					
10 NIS	0.25 % v/v	POST	B					
10 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
10 CLARITY (AE)	1 pt/a	POST	B					

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The Ohio State University

Pest Type	W Weed	W Weed	O Other	W Weed	W Weed			
Pest Code	AMBTR	ERICA		SETFA	AMBTR			
Pest Scientific Name	Ambrosia trifi>	Erigeron canad>		Setaria faberi	Ambrosia trifi>			
Pest Name	Giant ragweed	Canada horsewe>		Giant foxtail	Giant ragweed			
Crop Code			GLXMA					
BBCH Scale			BSOY					
Crop Scientific Name			Glycine max					
Crop Name			Soybean					
Rating Date	Jun-12-2017	Jun-12-2017	Jun-26-2017	Jun-26-2017	Jun-26-2017			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	56 11	56 11	70 25	70 25	70 25			
Trt-Eval Interval								
Plant-Eval Interval	26 DP-1	26 DP-1	40 DP-1	40 DP-1	40 DP-1			
Days After Emergence	14 DE-1	14 DE-1	28 DE-1	28 DE-1	28 DE-1			
Trt Treatment	Rate	Growth	Appl					
No. Name	Rate Unit	Stage	Code	10	11	12	13	14
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	94.7 ab	86.7 a	1.0 a	82.7 a	71.7 c
11 CLARITY (AE)	1 pt/a	NTLL	A					
11 NIS	0.25 % v/v	NTLL	A					
11 FIERCE XLT	4 oz wt/a	NTLL	A					
11 NIS	0.25 % v/v	POST	B					
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
11 CLARITY (AE)	1 pt/a	POST	B					
11 NIS	0.25 % v/v	POST	B					
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	55.0 c	88.3 a	0.0 a	70.0 a	40.0 d
12 CLARITY (AE)	1 pt/a	NTLL	A					
12 NIS	0.25 % v/v	NTLL	A					
12 FIERCE XLT	4 oz wt/a	NTLL	A					
12 NIS	0.25 % v/v	POST	B					
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B					
LSD P=.05				13.02	12.17	2.76	44.65	16.17
Standard Deviation				7.69	7.19	1.63	26.37	9.55
CV				8.53	7.94	226.0	37.68	12.11
Bartlett's X2				23.52	16.023	1.052	10.287	9.924
P(Bartlett's X2)				0.009*	0.14	0.994	0.505	0.357
Replicate F				0.483	0.305	0.010	1.005	2.520
Replicate Prob(F)				0.6235	0.7401	0.9896	0.3822	0.1034
Treatment F				6.788	4.194	0.360	0.364	7.812
Treatment Prob(F)				0.0001	0.0021	0.9586	0.9570	0.0001

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 Could not calculate LSD (% mean diff) for columns 2,8,16 because error mean square = 0.

The Ohio State University

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Erigeron canad>
 Pest Name Canada horsewe>
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jun-26-2017
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Days After First/Last Applic. 70 25
 Trt-Eval Interval
 Plant-Eval Interval 40 DP-1
 Days After Emergence 28 DE-1

Trt Treatment No. Name	Rate Rate Unit	Growth Stage	Appl Code	15	16
1 UTC				80.0	bc
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	90.0	ab
2 CLARITY (AE)	1 pt/a	NTLL	A		
2 NIS	0.25 % v/v	NTLL	A		
2 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B		
2 CLARITY (AE)	1 pt/a	POST	B		
2 NIS	0.25 % v/v	POST	B		
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	100.0	a
3 CLARITY (AE)	1 pt/a	NTLL	A		
3 ZIDUA PRO	6 fl oz/a	NTLL	A		
3 NIS	0.25 % v/v	NTLL	A		
3 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B		
3 CLARITY (AE)	1 pt/a	POST	B		
3 NIS	0.25 % v/v	POST	B		
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	100.0	a
4 CLARITY (AE)	1 pt/a	NTLL	A		
4 VALOR EZ1	2.5 fl oz/a	NTLL	A		
4 NIS	0.25 % v/v	NTLL	A		
4 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B		
4 CLARITY (AE)	1 pt/a	POST	B		
4 NIS	0.25 % v/v	POST	B		
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	100.0	a
5 CLARITY (AE)	1 pt/a	NTLL	A		
5 FIERCE	3 oz wt/a	NTLL	A		
5 NIS	0.25 % v/v	NTLL	A		
5 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B		
5 CLARITY (AE)	1 pt/a	POST	B		
5 NIS	0.25 % v/v	POST	B		

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The Ohio State University

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Erigeron canad>
 Pest Name Canada horsewe>
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jun-26-2017
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Days After First/Last Applic. 70 25
 Trt-Eval Interval
 Plant-Eval Interval 40 DP-1
 Days After Emergence 28 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	15	16
6	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	100.0 a	
6	CLARITY (AE)	1 pt/a		NTLL	A		
6	FIERCE MTZ SC (2030)	1 pt/a		NTLL	A		
6	NIS	0.25 % v/v		NTLL	A		
6	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B		
6	CLARITY (AE)	1 pt/a		POST	B		
6	NIS	0.25 % v/v		POST	B		
7	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	100.0 a	
7	CLARITY (AE)	1 pt/a		NTLL	A		
7	VALOR EZ1	2.5 fl oz/a		NTLL	A		
7	SENCOR	4 fl oz/a		NTLL	A		
7	NIS	0.25 % v/v		NTIL	A		
7	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B		
7	CLARITY (AE)	1 pt/a		POST	B		
7	NIS	0.25 % v/v		POST	B		
8	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	100.0 a	
8	CLARITY (AE)	1 pt/a		NTLL	A		
8	AUTHORITY MTZ	11 oz wt/a		NTLL	A		
8	NIS	0.25 % v/v		NTLL	A		
8	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B		
8	CLARITY (AE)	1 pt/a		POST	B		
8	NIS	0.25 % v/v		POST	B		
9	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	100.0 a	
9	CLARITY (AE)	1 pt/a		NTLL	A		
9	NIS	0.25 % v/v		NTLL	A		
9	AUTHORITY ELITE	26 fl oz/a		NTLL	A		
9	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B		
9	CLARITY (AE)	1 pt/a		POST	B		
9	NIS	0.25 % v/v		POST	B		
10	ROUNDUP PWR MAX(AE)	32 fl oz/a		NTLL	A	100.0 a	
10	CLARITY (AE)	1 pt/a		NTLL	A		
10	NIS	0.25 % v/v		NTIL	A		
10	VALOR EZ1	2 fl oz/a		NTLL	A		
10	NIS	0.25 % v/v		POST	B		
10	ROUNDUP PWR MAX(AE)	32 fl oz/a		POST	B		
10	CLARITY (AE)	1 pt/a		POST	B		

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 Missing data estimates are included in columns: Average=5
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The Ohio State University

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Erigeron canad>
Pest Name	Canada horsewe>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	Jun-26-2017
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1
Days After First/Last Applic.	70 25
Trt-Eval Interval	
Plant-Eval Interval	40 DP-1
Days After Emergence	28 DE-1

Trt Treatment No. Name	Rate Rate Unit	Growth Stage	Appl Code	15	16
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	96.7	a
11 CLARITY (AE)	1 pt/a	NTLL	A		
11 NIS	0.25 % v/v	NTLL	A		
11 FIERCE XLT	4 oz wt/a	NTLL	A		
11 NIS	0.25 % v/v	POST	B		
11 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B		
11 CLARITY (AE)	1 pt/a	POST	B		
11 NIS	0.25 % v/v	POST	B		
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	NTLL	A	71.7	c
12 CLARITY (AE)	1 pt/a	NTLL	A		
12 NIS	0.25 % v/v	NTLL	A		
12 FIERCE XLT	4 oz wt/a	NTLL	A		
12 NIS	0.25 % v/v	POST	B		
12 ROUNDUP PWR MAX(AE)	32 fl oz/a	POST	B		

LSD P=.05	10.41	.
Standard Deviation	6.15	.
CV	6.48	.
Bartlett's X2	2.083	.
P(Bartlett's X2)	0.353	.
Replicate F	0.679	
Replicate Prob(F)	0.5172	
Treatment F	7.190	
Treatment Prob(F)	0.0001	

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
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The Ohio State University

Fierce Plus Dicamba - Burndown

Trial ID: 17 VALXTEND
Protocol ID: 17 VALXTEND
Project ID: VUSA2017FIERCEMD64.06

Trial Year: 2017
Investigator: Dr. Mark M. Loux

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

ERICA, Erigeron canadensis, Canada horseweed = US
AMBTR, Ambrosia trifida, Giant ragweed = US
ERYRE, Erysimum repandum, Bushy wallflower = US
SETFA, Setaria faberi, Giant foxtail = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

-1 DP-1 = 1 GLXM06 May-17-2017
13 DP-1 = 1 GLXM06 May-17-2017
26 DP-1 = 1 GLXM06 May-17-2017
40 DP-1 = 1 GLXM06 May-17-2017