

The Ohio State University
 No-Till Marestalk and Giant Ragweed management in the Enlist Duo system with blanket Fall App.
 Trial ID: 18 FALLHOWE24D Location: G-8 Trial Year: 2018
 Protocol ID: 18 FALLHOWE24D Investigator: Dr. Mark M. Loux
 Project ID: 18 HOWE24D Study Director: Bryan Reeb
 Sponsor Contact: Mark Loux

General Trial Information

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

Discipline: H herbicide
Initiation Date: Nov-14-2017

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 °: 39.83793 N
Longitude of LL Corner °: 83.67551 W
Altitude of LL Corner, Unit: 1089.00 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: Enlist 29E16L7 **BBCH Scale:** BSOY
Description: Enlist E3

Planting Date: Apr-30-2018
Planting Method: PLANTD planted
Planting Equipment: FE field equipment
Emergence Date: May-11-2018

Planting Rate, Unit: 139500 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 60 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDTRA medium/trashy

Pest Description

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

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed

Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

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

Pest 5 Type: W **Code:** POAAN Poa annua
Common Name: Annual bluegrass

Pest 6 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: common lambsquarters

Pest 8 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 22
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. SOYBEAN 2017

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Soil Description

Description Name: G-8
% Sand: 27 **% OM:** 2.4 **Texture:** SICL silty clay loam
% Silt: 47 **pH:** 6.2 **Soil Name:** Crosby Silt Loam
% Clay: 17 **CEC:** 13.4 **Fert. Level:** G good
Soil Drainage: F fair

Application Description

	A	B	C
Application Date:	Nov-14-2017	Apr-30-2018	Jun-18-2018
Appl. Start Time:	10:15 AM	1:00 PM	8:20 AM
Appl. Stop Time:	10:30 AM	1:20 PM	8:40 AM
Interval to Prev. Appl., Unit:		167 DAYS	49 DAYS
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	FALL BRDWN	ATPLAN	POST
Application Placement:	BROSOI	BROSOI	BROFOL
Applied By:	DOBBELS		Ackley,Lamb
Air Temperature, Unit:	43 F	64 F	79.5 F
% Relative Humidity:	62	25	74
Wind Velocity, Unit:	4 MPH	4 MPH	2.5 MPH
Wind Direction:	SE	SW	WSW
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	38 F	60 F	79 F
Soil Moisture:	WET	NORMAL	GOOD
% Cloud Cover:	0	20	10
Next Moisture Occurred On:	Nov-15-2017	May-3-2018	Jun-19-2018
Time to Next Moisture, Unit:	1 DAY	3 DAY	1 DAY
Moisture 1 Week after Appl.:	1.08 IN	0.71 IN	1.35 IN

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:			BBCH
Stage Majority, Percent:			60 100
Height, Unit:			12 IN
Height Minimum, Maximum:			11 13

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	16 100		
Diameter, Unit:	1 IN		
Height, Unit:	1 IN		
Height Minimum, Maximum:	0.5 1.5		
Pest 2 Code, Type, Scale:	STEME W	STEME W	STEME W
Stage Majority, Percent:	19 100		
Diameter, Unit:	1 IN		
Height, Unit:	1 IN		
Height Minimum, Maximum:	0.5 1.5		
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		12 100	18 70
Stage Minimum, Percent:			16 20
Stage Maximum, Percent:			19 10
Height, Unit:		1 IN	12 IN
Height Minimum, Maximum:		0.5 2	6 16
Pest 4 Code, Type, Scale:	VERAG W	VERAG W	VERAG W
Stage Majority, Percent:		65 100	
Diameter, Unit:		2.5 IN	
Height, Unit:		1.5 IN	
Height Minimum, Maximum:		1 2	
Pest 5 Code, Type, Scale:	POAAN W	POAAN W	POAAN W
Stage Majority, Percent:		12 100	
Height Minimum, Maximum:		1 2	
Pest 6 Code, Type, Scale:	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:			19 100
Height, Unit:			12 IN
Height Minimum, Maximum:			11 14
Pest 7 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:			19 100
Height, Unit:			13 IN
Height Minimum, Maximum:			6 14
Pest 8 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:			18 100
Height, Unit:			13 IN
Height Minimum, Maximum:			12 16

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Application Equipment

	A	B	C
Appl. Equipment:	10' BACKPACK	6' BACKPACK	6' BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	48 PSI	44 PSI	44 PSI
Nozzle Type:	TEEJET VS	AIXR	AIXR
Nozzle Size:	11101	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Nozzles/Row:	6	4	4
Boom Length, Unit:	10 FT	6.67 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	10 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	3 GAL	1 L	1 L
Propellant:	COMCO2	COMCO2	COMCO2

Date	By	Notes
Nov-14-2017		Fall Burndown overlay of RUP + 2,4-D
Jun-2-2018	Dobbels	Overlay of Select Max @ 12oz/acre

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	ERICA	ERICA	AMBTR	AMBTR
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Erigeron canad>	Erigeron canad>	Ambrosia trifi>	Ambrosia trifi>
Pest Name	Giant ragweed	Giant ragweed	Canada horsewe>	Canada horsewe>	Giant ragweed	Giant ragweed
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jul-17-2018	Jul-17-2018
Rating Type	CONTRO	COUPLA	CONTRO	COUPLA	CONTRO	COUPLA
Rating Unit	%	2/row/mi	%	2/row/mi	%	2/row/mi
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	211 44	211 44	211 44	211 44	245 29	245 29
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	44 DP-1	78 DP-1	78 DP-1
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	67 DE-1	67 DE-1

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3	4*	5*	6*
1	Roundup Power Max	1.13 lb	ae/a	A	66.7 -	2.3 -		0.0 -	100.0 a	0.0 b
	2,4-D Ester	0.5 lb	ai/a	A						
	Clarity	0.125 lb	ai/a	A						
	N-pak ams	2.5 %	v/v	A						
	Enlist Duo	1.98 lb	ai/a	B						
	Sonic	0.197 lb	ai/a	B						
	N-pak ams	2.5 %	v/v	B						
	Enlist Duo	1.98 lb	ai/a	C						
	N-pak ams	2.5 %	v/v	C						
2	Enlist Duo	1.98 lb	ai/a	B	30.0 -	7.4 -		0.0 -	100.0 a	0.0 b
	Sonic	0.197 lb	ai/a	B						
	N-pak ams	2.5 %	v/v	B						
	2,4-D Choline Salt	0.5 lb	ai/a	C						
	Liberty	0.53 lb	ai/a	C						
	N-pak ams	2.5 %	v/v	C						
3	Enlist Duo	1.98 lb	ai/a	B	50.0 -	2.3 -		0.0 -	99.4 a	0.4 b
	Sonic	0.197 lb	ai/a	B						
	N-pak ams	2.5 %	v/v	B						
	Liberty	0.53 lb	ai/a	C						
	N-pak ams	2.5 %	v/v	C						
4	Enlist Duo	1.98 lb	ai/a	B	30.0 -	5.6 -		0.0 -	96.8 a	1.0 b
	Sonic	0.197 lb	ai/a	B						
	N-pak ams	2.5 %	v/v	B						
	Durango DMA	1 lb	ae/a	C						
	N-pak ams	2.5 %	v/v	C						
5	Enlist Duo	1.98 lb	ai/a	B	50.0 -	4.2 -		0.0 -	100.0 a	0.0 b
	Sonic	0.197 lb	ai/a	B						
	N-pak ams	2.5 %	v/v	B						
	Durango DMA	1 lb	ae/a	C						
	Flexstar	0.353 lb	ai/a	C						
	MSO	0.5 %	v/v	C						
	N-pak ams	2.5 %	v/v	C						
6	Enlist Duo	1.98 lb	ai/a	B	50.0 -	2.6 -		0.0 -	99.4 a	0.3 b
	Sonic	0.197 lb	ai/a	B						
	Metribuzin	0.28 lb	ai/a	B						
	N-pak ams	2.5 %	v/v	B						
	Durango DMA	1 lb	ae/a	C						
	N-pak ams	2.5 %	v/v	C						

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Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Erigeron canad>	Erigeron canad>	Ambrosia trifi>	Ambrosia trifi>
Pest Name	Giant ragweed	Giant ragweed	Canada horsewe>	Canada horsewe>	Giant ragweed	Giant ragweed
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jul-17-2018	Jul-17-2018
Rating Type	CONTRO	COUPLA	CONTRO	COUPLA	CONTRO	COUPLA
Rating Unit	%	2/row/mi	%	2/row/mi	%	2/row/mi
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	211 44	211 44	211 44	211 44	245 29	245 29
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	44 DP-1	78 DP-1	78 DP-1
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	67 DE-1	67 DE-1

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3	4*	5*	6*
7	Gramoxone SL	1 lb ai/a	B		40.0 -	7.8 -		0.0 -	98.5 a	0.6 b
	2,4-D Choline Salt	0.5 lb ai/a	B							
	Sonic	0.197 lb ai/a	B							
	Metribuzin	0.28 lb ai/a	B							
	Crop Oil Concentrat	1 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Durango DMA	1 lb ae/a	C							
	N-pak ams	2.5 % v/v	C							
8	Gramoxone SL	1 lb ai/a	B		46.7 -	3.3 -		0.0 -	100.0 a	0.0 b
	2,4-D Choline Salt	0.5 lb ai/a	B							
	Sonic	0.197 lb ai/a	B							
	Crop Oil Concentrat	1 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Enlist Duo	1.98 lb ai/a	C							
	N-pak ams	2.5 % v/v	C							
9	Gramoxone SL	1 lb ai/a	B		66.7 -	2.4 -		0.0 -	98.9 a	0.3 b
	2,4-D Choline Salt	0.5 lb ai/a	B							
	Sonic	0.197 lb ai/a	B							
	Crop Oil Concentrat	1 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Liberty	0.53 lb ai/a	C							
	N-pak ams	2.5 % v/v	C							
10	Gramoxone SL	1 lb ai/a	B		66.7 -	2.1 -		0.0 -	100.0 a	0.0 b
	2,4-D Choline Salt	0.5 lb ai/a	B							
	Sonic	0.197 lb ai/a	B							
	Crop Oil Concentrat	1 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	2,4-D Choline Salt	0.5 lb ai/a	C							
	Liberty	0.53 lb ai/a	C							
	N-pak ams	2.5 % v/v	C							
11	Gramoxone SL	1 lb ai/a	B		58.3 -	2.0 -		0.0 -	98.9 a	0.3 b
	2,4-D Choline Salt	0.5 lb ai/a	B							
	Sonic	0.197 lb ai/a	B							
	Crop Oil Concentrat	1 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Durango DMA	1 lb ae/a	C							
	N-pak ams	2.5 % v/v	C							
12	Gramoxone SL	1 lb ai/a	B		40.0 -	7.4 -		0.0 -	98.9 a	0.3 b
	2,4-D Choline Salt	0.5 lb ai/a	B							
	Sonic	0.197 lb ai/a	B							
	Crop Oil Concentrat	1 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Durango DMA	1 lb ae/a	C							
	Flexstar	0.353 lb ai/a	C							
	MSO	0.5 % v/v	C							
	N-pak ams	2.5 % v/v	C							
13	Zidua Pro	0.192 lb ai/a	B		40.0 -	2.6 -		0.0 -	100.0 a	0.0 b
	Metribuzin	0.28 lb ai/a	B							
	Durango DMA	1 lb ae/a	B							
	MSO	0.5 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Enlist Duo	1.98 lb ai/a	C							
	N-pak ams	2.5 % v/v	C							
14	Zidua Pro	0.192 lb ai/a	B		50.0 -	2.3 -		0.0 -	97.6 a	0.3 b
	Metribuzin	0.28 lb ai/a	B							
	Durango DMA	1 lb ae/a	B							
	MSO	0.5 % v/v	B							
	N-pak ams	2.5 % v/v	B							
	Liberty	0.53 lb ai/a	C							
	N-pak ams	2.5 % v/v	C							

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Pest Code	AMBTR	AMBTR	ERICA	ERICA	AMBTR	AMBTR
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Erigeron canad>	Erigeron canad>	Ambrosia trifi>	Ambrosia trifi>
Pest Name	Giant ragweed	Giant ragweed	Canada horsewe>	Canada horsewe>	Giant ragweed	Giant ragweed
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jul-17-2018	Jul-17-2018
Rating Type	CONTRO	COUPLA	CONTRO	COUPLA	CONTRO	COUPLA
Rating Unit	%	2/row/mi	%	2/row/mi	%	2/row/mi
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	211 44	211 44	211 44	211 44	245 29	245 29
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	44 DP-1	78 DP-1	78 DP-1
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	67 DE-1	67 DE-1

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3	4*	5*	6*
15	Zidua Pro	0.192	lb ai/a	B	26.7 -	4.4 -		0.0 -	100.0 a	0.0 b
	Metribuzin	0.28	lb ai/a	B						
	Durango DMA	1	lb ae/a	B						
	MSO	0.5	% v/v	B						
	N-pak ams	2.5	% v/v	B						
	Liberty	0.53	lb ai/a	C						
	2,4-D Choline Salt	0.5	lb ai/a	C						
	N-pak ams	2.5	% v/v	C						
16	Zidua Pro	0.192	lb ai/a	B	93.3 -	0.0 -		0.0 -	100.0 a	0.0 b
	Metribuzin	0.28	lb ai/a	B						
	Durango DMA	1	lb ae/a	B						
	MSO	0.5	% v/v	B						
	N-pak ams	2.5	% v/v	B						
	Durango DMA	1	lb ae/a	C						
	N-pak ams	2.5	% v/v	C						
17	Zidua Pro	0.192	lb ai/a	B	50.0 -	2.6 -		0.0 -	99.8 a	0.3 b
	Metribuzin	0.28	lb ai/a	B						
	Durango DMA	1	lb ae/a	B						
	MSO	0.5	% v/v	B						
	N-pak ams	2.5	% v/v	B						
	Durango DMA	1	lb ae/a	C						
	Flexstar	0.353	lb ai/a	C						
	MSO	0.5	% v/v	C						
	N-pak ams	2.5	% v/v	C						
18	Liberty	0.585	lb ai/a	B	53.3 -	2.3 -		0.0 -	98.9 a	0.3 b
	2,4-D Choline Salt	0.5	lb ai/a	B						
	Sonic	0.197	lb ai/a	B						
	Metribuzin	0.28	lb ai/a	B						
	N-pak ams	2.5	% v/v	B						
	Durango DMA	1	lb ae/a	C						
	N-pak ams	2.5	% v/v	C						
19	Liberty	0.585	lb ai/a	B	46.7 -	1.6 -		0.0 -	100.0 a	0.0 b
	2,4-D Choline Salt	0.5	lb ai/a	B						
	Sonic	0.197	lb ai/a	B						
	N-pak ams	2.5	% v/v	B						
	Enlist Duo	1.98	lb ai/a	C						
	N-pak ams	2.5	% v/v	C						
20	Liberty	0.585	lb ai/a	B	70.0 -	0.8 -		0.0 -	100.0 a	0.0 b
	2,4-D Choline Salt	0.5	lb ai/a	B						
	Sonic	0.197	lb ai/a	B						
	N-pak ams	2.5	% v/v	B						
	Durango DMA	1	lb ae/a	C						
	N-pak ams	2.5	% v/v	C						
21	Liberty	0.585	lb ai/a	B	46.7 -	5.7 -		0.0 -	94.4 a	0.0 b
	2,4-D Choline Salt	0.5	lb ai/a	B						
	Sonic	0.197	lb ai/a	B						
	N-pak ams	2.5	% v/v	B						
	Durango DMA	1	lb ae/a	C						
	Flexstar	0.353	lb ai/a	C						
	MSO	0.5	% v/v	C						
	N-pak ams	2.5	% v/v	C						

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Pest Code	AMBTR	AMBTR	ERICA	ERICA	AMBTR	AMBTR		
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Erigeron canad>	Erigeron canad>	Ambrosia trifi>	Ambrosia trifi>		
Pest Name	Giant ragweed	Giant ragweed	Canada horsewe>	Canada horsewe>	Giant ragweed	Giant ragweed		
Rating Date	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jun-13-2018	Jul-17-2018	Jul-17-2018		
Rating Type	CONTRO	COUPLA	CONTRO	COUPLA	CONTRO	COUPLA		
Rating Unit	%	2/row/mi	%	2/row/mi	%	2/row/mi		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	211 44	211 44	211 44	211 44	245 29	245 29		
Plant-Eval Interval	44 DP-1	44 DP-1	44 DP-1	44 DP-1	78 DP-1	78 DP-1		
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	67 DE-1	67 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate	Unit Code	1*	2*	3	4*	5*	6*
22 UTC			-1.1 -	6.0 -		0.0 -	16.4 b	6.1 a
LSD P=.05			41.87	5.82 - 6.71	.	.	8.95 - 27.14	1.47 - 3.81
Standard Deviation			25.39	0.38t	.	0.00	10.57t	0.20t
CV			51.34	62.58t	.	0.0	12.65t	202.07t
Levene's F			0.40	0.342	.	.	0.764	0.859
Levene's Prob(F)			0.987	0.995	.	.	0.744	0.638
Skewness			-0.0947	0.1909	.	.	-4.1719*	3.4897*
Kurtosis			-1.0124	-0.8456	.	.	19.2806*	13.7352*
Replicate F			0.757	0.704		0.000	3.196	2.052
Replicate Prob(F)			0.4756	0.5004		1.0000	0.0511	0.1412
Treatment F			1.446	1.089		0.000	5.217	2.514
Treatment Prob(F)			0.1533	0.3951		1.0000	0.0001	0.0054

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Trt No.	Treatment Name	Rate	Unit	Appl Code	7*	8*
	Pest Type				W Weed	W Weed
	Pest Code				ERICA	ERICA
	Pest Scientific Name				Erigeron canad>	Erigeron canad>
	Pest Name				Canada horsewe>	Canada horsewe>
	Rating Date				Jul-17-2018	Jul-17-2018
	Rating Type				CONTRO	COUPLA
	Rating Unit				%	2/row/mi
	Number of Subsamples				1	1
	Days After First/Last Applic.				245 29	245 29
	Plant-Eval Interval				78 DP-1	78 DP-1
	Days After Emergence				67 DE-1	67 DE-1
1	Roundup Power Max	1.13 lb ae/a	A		100.0 -	0.0 -
	2,4-D Ester	0.5 lb ai/a	A			
	Clarity	0.125 lb ai/a	A			
	N-pak ams	2.5 % v/v	A			
	Enlist Duo	1.98 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	N-pak ams	2.5 % v/v	B			
	Enlist Duo	1.98 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
2	Enlist Duo	1.98 lb ai/a	B		100.0 -	0.0 -
	Sonic	0.197 lb ai/a	B			
	N-pak ams	2.5 % v/v	B			
	2,4-D Choline Salt	0.5 lb ai/a	C			
	Liberty	0.53 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
3	Enlist Duo	1.98 lb ai/a	B		100.0 -	0.0 -
	Sonic	0.197 lb ai/a	B			
	N-pak ams	2.5 % v/v	B			
	Liberty	0.53 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
4	Enlist Duo	1.98 lb ai/a	B		100.0 -	0.0 -
	Sonic	0.197 lb ai/a	B			
	N-pak ams	2.5 % v/v	B			
	Durango DMA	1 lb ae/a	C			
	N-pak ams	2.5 % v/v	C			
5	Enlist Duo	1.98 lb ai/a	B		100.0 -	0.0 -
	Sonic	0.197 lb ai/a	B			
	N-pak ams	2.5 % v/v	B			
	Durango DMA	1 lb ae/a	C			
	Flexstar	0.353 lb ai/a	C			
	MSO	0.5 % v/v	C			
	N-pak ams	2.5 % v/v	C			
6	Enlist Duo	1.98 lb ai/a	B		100.0 -	0.0 -
	Sonic	0.197 lb ai/a	B			
	Metribuzin	0.28 lb ai/a	B			
	N-pak ams	2.5 % v/v	B			
	Durango DMA	1 lb ae/a	C			
	N-pak ams	2.5 % v/v	C			

The Ohio State University
 No-Till Marestalk and Giant Ragweed management in the Enlist Duo system with blanket Fall App.
 Trial ID: 18 FALLHOWE24D Location: G-8 Trial Year: 2018
 Protocol ID: 18 FALLHOWE24D Investigator: Dr. Mark M. Loux
 Project ID: 18 HOWE24D Study Director: Bryan Reeb
 Sponsor Contact: Mark Loux

Pest Type	W Weed	W Weed
Pest Code	ERICA	ERICA
Pest Scientific Name	Erigeron canad>	Erigeron canad>
Pest Name	Canada horsewe>	Canada horsewe>
Rating Date	Jul-17-2018	Jul-17-2018
Rating Type	CONTRO	COUPLA
Rating Unit	%	2/row/mi
Number of Subsamples	1	1
Days After First/Last Applic.	245 29	245 29
Plant-Eval Interval	78 DP-1	78 DP-1
Days After Emergence	67 DE-1	67 DE-1

Trt No.	Treatment Name	Rate	Unit	Appl Code	7*	8*
7	Gramoxone SL	1 lb ai/a	B		100.0 -	0.0 -
	2,4-D Choline Salt	0.5 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	Metribuzin	0.28 lb ai/a	B			
	Crop Oil Concentrat	1 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Durango DMA	1 lb ae/a	C			
	N-pak ams	2.5 % v/v	C			
8	Gramoxone SL	1 lb ai/a	B		100.0 -	0.0 -
	2,4-D Choline Salt	0.5 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	Crop Oil Concentrat	1 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Enlist Duo	1.98 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
9	Gramoxone SL	1 lb ai/a	B		100.0 -	0.0 -
	2,4-D Choline Salt	0.5 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	Crop Oil Concentrat	1 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Liberty	0.53 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
10	Gramoxone SL	1 lb ai/a	B		100.0 -	0.0 -
	2,4-D Choline Salt	0.5 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	Crop Oil Concentrat	1 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	2,4-D Choline Salt	0.5 lb ai/a	C			
	Liberty	0.53 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
11	Gramoxone SL	1 lb ai/a	B		100.0 -	0.0 -
	2,4-D Choline Salt	0.5 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	Crop Oil Concentrat	1 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Durango DMA	1 lb ae/a	C			
	N-pak ams	2.5 % v/v	C			
12	Gramoxone SL	1 lb ai/a	B		100.0 -	0.0 -
	2,4-D Choline Salt	0.5 lb ai/a	B			
	Sonic	0.197 lb ai/a	B			
	Crop Oil Concentrat	1 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Durango DMA	1 lb ae/a	C			
	Flexstar	0.353 lb ai/a	C			
	MSO	0.5 % v/v	C			
	N-pak ams	2.5 % v/v	C			
13	Zidua Pro	0.192 lb ai/a	B		100.0 -	0.0 -
	Metribuzin	0.28 lb ai/a	B			
	Durango DMA	1 lb ae/a	B			
	MSO	0.5 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Enlist Duo	1.98 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			
14	Zidua Pro	0.192 lb ai/a	B		100.0 -	0.0 -
	Metribuzin	0.28 lb ai/a	B			
	Durango DMA	1 lb ae/a	B			
	MSO	0.5 % v/v	B			
	N-pak ams	2.5 % v/v	B			
	Liberty	0.53 lb ai/a	C			
	N-pak ams	2.5 % v/v	C			

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 Protocol ID: 18 FALLHOWE24D Investigator: Dr. Mark M. Loux
 Project ID: 18 HOWE24D Study Director: Bryan Reeb
 Sponsor Contact: Mark Loux

Pest Type	W Weed	W Weed
Pest Code	ERICA	ERICA
Pest Scientific Name	Erigeron canad>	Erigeron canad>
Pest Name	Canada horsewe>	Canada horsewe>
Rating Date	Jul-17-2018	Jul-17-2018
Rating Type	CONTRO	COUPLA
Rating Unit	%	2/row/mi
Number of Subsamples	1	1
Days After First/Last Applic.	245 29	245 29
Plant-Eval Interval	78 DP-1	78 DP-1
Days After Emergence	67 DE-1	67 DE-1

Trt No.	Treatment Name	Rate	Unit	Appl Code	7*	8*
15	Zidua Pro	0.192	lb ai/a	B	100.0 -	0.0 -
	Metribuzin	0.28	lb ai/a	B		
	Durango DMA	1	lb ae/a	B		
	MSO	0.5	% v/v	B		
	N-pak ams	2.5	% v/v	B		
	Liberty	0.53	lb ai/a	C		
	2,4-D Choline Salt	0.5	lb ai/a	C		
	N-pak ams	2.5	% v/v	C		
16	Zidua Pro	0.192	lb ai/a	B	100.0 -	0.0 -
	Metribuzin	0.28	lb ai/a	B		
	Durango DMA	1	lb ae/a	B		
	MSO	0.5	% v/v	B		
	N-pak ams	2.5	% v/v	B		
	Durango DMA	1	lb ae/a	C		
	N-pak ams	2.5	% v/v	C		
17	Zidua Pro	0.192	lb ai/a	B	100.0 -	0.0 -
	Metribuzin	0.28	lb ai/a	B		
	Durango DMA	1	lb ae/a	B		
	MSO	0.5	% v/v	B		
	N-pak ams	2.5	% v/v	B		
	Durango DMA	1	lb ae/a	C		
	Flexstar	0.353	lb ai/a	C		
	MSO	0.5	% v/v	C		
	N-pak ams	2.5	% v/v	C		
18	Liberty	0.585	lb ai/a	B	100.0 -	0.0 -
	2,4-D Choline Salt	0.5	lb ai/a	B		
	Sonic	0.197	lb ai/a	B		
	Metribuzin	0.28	lb ai/a	B		
	N-pak ams	2.5	% v/v	B		
	Durango DMA	1	lb ae/a	C		
	N-pak ams	2.5	% v/v	C		
19	Liberty	0.585	lb ai/a	B	100.0 -	0.0 -
	2,4-D Choline Salt	0.5	lb ai/a	B		
	Sonic	0.197	lb ai/a	B		
	N-pak ams	2.5	% v/v	B		
	Enlist Duo	1.98	lb ai/a	C		
	N-pak ams	2.5	% v/v	C		
20	Liberty	0.585	lb ai/a	B	100.0 -	0.0 -
	2,4-D Choline Salt	0.5	lb ai/a	B		
	Sonic	0.197	lb ai/a	B		
	N-pak ams	2.5	% v/v	B		
	Durango DMA	1	lb ae/a	C		
	N-pak ams	2.5	% v/v	C		
21	Liberty	0.585	lb ai/a	B	100.0 -	0.0 -
	2,4-D Choline Salt	0.5	lb ai/a	B		
	Sonic	0.197	lb ai/a	B		
	N-pak ams	2.5	% v/v	B		
	Durango DMA	1	lb ae/a	C		
	Flexstar	0.353	lb ai/a	C		
	MSO	0.5	% v/v	C		
	N-pak ams	2.5	% v/v	C		

The Ohio State University

No-Till Marestalk and Giant Ragweed management in the Enlist Duo system with blanket Fall App.

Trial ID: 18 FALLHOWE24D Location: G-8 Trial Year: 2018

Protocol ID: 18 FALLHOWE24D Investigator: Dr. Mark M. Loux

Project ID: 18 HOWE24D Study Director: Bryan Reeb

Sponsor Contact: Mark Loux

Pest Type	W Weed	W Weed
Pest Code	ERICA	ERICA
Pest Scientific Name	Erigeron canad>	Erigeron canad>
Pest Name	Canada horsewe>	Canada horsewe>
Rating Date	Jul-17-2018	Jul-17-2018
Rating Type	CONTRO	COUPLA
Rating Unit	%	2/row/mi
Number of Subsamples	1	1
Days After First/Last Applic.	245 29	245 29
Plant-Eval Interval	78 DP-1	78 DP-1
Days After Emergence	67 DE-1	67 DE-1

Trt	Treatment	Rate	Appl		
No.	Name	Rate	Unit	Code	
	22 UTC				
	LSD P=.05			7*	8*
	Standard Deviation			100.0 -	0.0 -
	CV			.	.
	Levene's F			0.00	0.00
	Levene's Prob(F)			0.0	0.0
	Skewness			.	.
	Kurtosis			.	.
	Replicate F			0.000	0.000
	Replicate Prob(F)			1.0000	1.0000
	Treatment F			0.000	0.000
	Treatment Prob(F)			1.0000	1.0000

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Project ID: 18 HOWE24D Study Director: Bryan Reeb
Sponsor Contact: Mark Loux

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

ERICA, Erigeron canadensis, Canada horseweed = US

Rating Type

CONTRO = control / burndown or knockdown

COUPLA = count - plant / emergence - objective

Rating Unit

% = percent

Plant-Eval Interval

44 DP-1 = 1 GLXMA Apr-30-2018

78 DP-1 = 1 GLXMA Apr-30-2018