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No-Till Marestalk and Giant Ragweed management in the Enlist Duo system

Trial ID: 17 HOWE24D Location: F-10 East End Trial Year: 2017
 Protocol ID: 17 HOWE24D Investigator: Dr. Mark M. Loux
 Project ID: 17 HOWE24D Study Director: Bryan Reeb
 Sponsor Contact: Mark Loux

General Trial Information

Study Director: Bryan Reeb
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 °: 39.85857 N
Longitude of LL Corner °: 83.67023 W
Altitude of LL Corner, Unit: 1046.00 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 e3
Description: 29E16L7
Planting Rate, Unit: 175000 S/A **Planting Date:** May-17-2017
Depth, Unit: 1 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 15 IN **Planting Equipment:** FE Field Equipment
Soil Moisture: GOOD good **Emergence Date:** May-29-2017
Seed Bed: NOTILL

Pest Description

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

Pest 2 Type: W **Code:** ERYRE Erysimum repandum
Common Name: Bushy wallflower

Pest 3 Type: W **Code:** ERICA Erigeron canadensis
Common Name: Canada horseweed

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

Pest 5 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 6 Type: W **Code:** SENGL Senecio glabellus
Common Name: Cressleaf groundsel

Pest 7 Type: W **Code:** BROTE Anisantha tectorum
Common Name: Downy brome

Pest 8 Type: W **Code:** SIESP Sideritis spinulosa
Common Name: Sideritis spinulosa

Pest 9 Type: W **Code:** TARSS Taraxacum sp.
Common Name: Dandelion

Pest10 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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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 L Randomized Complete Block (RCB)

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:	May-3-2017	Jun-12-2017
Appl. Start Time:	10:15 AM	9:30 AM
Appl. Stop Time:	11:00 AM	9:45 AM
Application Method:	SPRAY	SPRAY
Application Placement:	BROSOI	BROFOL
Applied By:	ACKLEY	DOBBELS
Air Temperature, Unit:	46 F	81 F
% Relative Humidity:	62	55
Wind Velocity, Unit:	7 MPH	4 MPH
Wind Direction:	N	ENE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	50 F	72 F
Soil Moisture:	SLIWET	DRY
% Cloud Cover:	90	30
Next Moisture Occurred On:	May-4-2017	Jun-13-2017
Time to Next Moisture, Unit:	1 DAY	1 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		12 100
Height, Unit:		3.5 IN
Height Minimum, Maximum:		3 4

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Pest Stage At Each Application

	A			B
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W
Stage Majority, Percent:	89	100		
Height, Unit:	4	IN		
Height Minimum, Maximum:	4	5		
Density, Unit:	8	m2		
Pest 2 Code, Type, Scale:	ERYRE	W	ERYRE	W
Stage Majority, Percent:	89	100		
Height, Unit:	11	IN		
Height Minimum, Maximum:	10	12		
Density, Unit:	33	m2		
Pest 3 Code, Type, Scale:	ERICA	W	ERICA	W
Stage Majority, Percent:	30	100	21	80
Diameter, Unit:	3	IN		
Height, Unit:	3	IN	9	IN
Height Minimum, Maximum:	1	5	3	14
Density, Unit:	3	m2		
Pest 4 Code, Type, Scale:	VERAG	W	VERAG	W
Stage Majority, Percent:	65	100		
Diameter, Unit:	3	IN		
Height, Unit:	2	IN		
Height Minimum, Maximum:	1	2		
Density, Unit:	8	m2		
Pest 5 Code, Type, Scale:	AMBTR	W	AMBTR	W
Stage Majority, Percent:	14	100	16	100
Height, Unit:	2.5	IN	5	IN
Height Minimum, Maximum:	2	4	4	6
Density, Unit:	3	m2		
Pest 6 Code, Type, Scale:	SENGL	W	SENGL	W
Stage Majority, Percent:	65		15	100
Height, Unit:	16	IN	3.5	IN
Height Minimum, Maximum:	15	18	3	4
Density, Unit:	3	m2		
Pest 7 Code, Type, Scale:	BROTE	W	BROTE	W
Stage Majority, Percent:	65			
Height, Unit:	8	IN		
Height Minimum, Maximum:	6	10		
Density, Unit:	1	m2		
Pest 8 Code, Type, Scale:	SIESP	W	SIESP	W
Stage Majority, Percent:			15	100
Height, Unit:			1.5	IN
Height Minimum, Maximum:			1	2
Pest 9 Code, Type, Scale:	TARSS	W	TARSS	W
Stage Majority, Percent:			8LVS	100
Diameter, Unit:			9	IN
Height, Unit:			4	IN
Height Minimum, Maximum:			3	6
Pest10 Code, Type, Scale:	SETFA	W	SETFA	W
Stage Majority, Percent:			14	100
Height, Unit:			5	IN
Height Minimum, Maximum:			3	6

Application Equipment

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	ERYRE	SENGL	VERAG
Pest Name	Canada horsewe>	Giant ragweed	Bushy wallflow>	Cressleaf grou>	Field speedwell
Crop Code					
Crop Name					
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-16-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	Enlist Duo	4.75 pt/a		A	56.7 fg	100.0 a	43.3 cd	100.0 a	90.0 bc
1	Sonic	4.5 oz/a		A					
1	N-pak ams	1.5 qt/a		A					
1	Enlist Duo	4.75 pt/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Enlist Duo	4.75 pt/a		A	36.7 g	100.0 a	43.3 cd	96.7 a	86.7 c
2	Sonic	4.5 oz/a		A					
2	N-pak ams	1.5 qt/a		A					
2	2,4-D Choline Salt	1 pt/a		B					
2	Liberty	29 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Enlist Duo	4.75 pt/a		A	66.7 c-f	100.0 a	53.3 c	95.0 ab	96.7 ab
3	Sonic	4.5 oz/a		A					
3	N-pak ams	1.5 qt/a		A					
3	Liberty	29 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Enlist Duo	4.75 pt/a		A	63.3 def	100.0 a	36.7 d	86.7 abc	93.3 abc
4	Sonic	4.5 oz/a		A					
4	N-pak ams	1.5 qt/a		A					
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Enlist Duo	4.75 pt/a		A	60.0 ef	100.0 a	36.7 d	81.7 bc	96.7 ab
5	Sonic	4.5 oz/a		A					
5	N-pak ams	1.5 qt/a		A					
5	Durango DMA	32 oz/a		B					
5	Flexstar	1.5 pt/a		B					
5	MSO	0.3 qt/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Enlist Duo	4.75 pt/a		A	71.7 c-f	100.0 a	73.3 b	80.0 c	100.0 a
6	Sonic	4.5 oz/a		A					
6	Metribuzin	6 oz/a		A					
6	N-pak ams	1.5 qt/a		A					
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		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=4,6
 Could not calculate LSD (% mean diff) for columns 2 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	ERYRE	SENGL	VERAG
Pest Name	Canada horsewe> Giant ragweed Bushy wallflow> Cressleaf grou> Field speedwell				
Crop Code					
Crop Name					
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-16-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
7	Gramoxone SL	4 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
7	2,4-D Choline Salt	1 pt/a		A					
7	Sonic	4.5 oz/a		A					
7	Metribuzin	6 oz/a		A					
7	Crop Oil Concentrat	0.6 qt/a		A					
7	N-pak ams	1.5 qt/a		A					
7	Durango DMA	32 oz/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Gramoxone SL	4 pt/a		A	86.7 abc	100.0 a	100.0 a	100.0 a	100.0 a
8	2,4-D Choline Salt	1 pt/a		A					
8	Sonic	4.5 oz/a		A					
8	Crop Oil Concentrat	0.6 qt/a		A					
8	N-pak ams	1.5 qt/a		A					
8	Enlist Duo	4.75 pt/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Gramoxone SL	4 pt/a		A	82.3 a-d	100.0 a	100.0 a	100.0 a	100.0 a
9	2,4-D Choline Salt	1 pt/a		A					
9	Sonic	4.5 oz/a		A					
9	Crop Oil Concentrat	0.6 qt/a		A					
9	N-pak ams	1.5 qt/a		A					
9	Liberty	29 oz/a		B					
9	N-pak ams	1.5 qt/a		B					
10	Gramoxone SL	4 pt/a		A	81.0 a-e	100.0 a	100.0 a	100.0 a	100.0 a
10	2,4-D Choline Salt	1 pt/a		A					
10	Sonic	4.5 oz/a		A					
10	Crop Oil Concentrat	0.6 qt/a		A					
10	N-pak ams	1.5 qt/a		A					
10	2,4-D Choline Salt	1 pt/a		B					
10	Liberty	29 oz/a		B					
10	N-pak ams	1.5 qt/a		B					
11	Gramoxone SL	4 pt/a		A	86.7 abc	100.0 a	100.0 a	100.0 a	100.0 a
11	2,4-D Choline Salt	1 pt/a		A					
11	Sonic	4.5 oz/a		A					
11	Crop Oil Concentrat	0.6 qt/a		A					
11	N-pak ams	1.5 qt/a		A					
11	Durango DMA	32 oz/a		B					
11	N-pak ams	1.5 qt/a		B					

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Pest Code	ERICA	AMBTR	ERYRE	SENGL	VERAG				
Pest Name	Canada horsewe> Giant ragweed Bushy wallflow> Cressleaf grou> Field speedwell								
Crop Code									
Crop Name									
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-16-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13				
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A				
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
12	Gramoxone SL	4 pt/a		A	71.7 c-f	100.0 a	100.0 a	100.0 a	100.0 a
12	2,4-D Choline Salt	1 pt/a		A					
12	Sonic	4.5 oz/a		A					
12	Crop Oil Concentrat	0.6 qt/a		A					
12	N-pak ams	1.5 qt/a		A					
12	Durango DMA	32 oz/a		B					
12	Flexstar	1.5 pt/a		B					
12	MSO	0.3 qt/a		B					
12	N-pak ams	1.5 qt/a		B					
13	Zidua Pro	6 oz/a		A	93.3 ab	100.0 a	88.3 ab	100.0 a	100.0 a
13	Metribuzin	6 oz/a		A					
13	Durango DMA	32 oz/a		A					
13	MSO	0.3 qt/a		A					
13	N-pak ams	1.5 qt/a		A					
13	Enlist Duo	4.75 pt/a		B					
13	N-pak ams	1.5 qt/a		B					
14	Zidua Pro	6 oz/a		A	100.0 a	100.0 a	90.0 a	100.0 a	100.0 a
14	Metribuzin	6 oz/a		A					
14	Durango DMA	32 oz/a		A					
14	MSO	0.3 qt/a		A					
14	N-pak ams	1.5 qt/a		A					
14	Liberty	29 oz/a		B					
14	N-pak ams	1.5 qt/a		B					
15	Zidua Pro	6 oz/a		A	96.7 ab	100.0 a	95.0 a	100.0 a	100.0 a
15	Metribuzin	6 oz/a		A					
15	Durango DMA	32 oz/a		A					
15	MSO	0.3 qt/a		A					
15	N-pak ams	1.5 qt/a		A					
15	Liberty	29 oz/a		B					
15	2,4-D Choline Salt	1 pt/a		B					
15	N-pak ams	1.5 qt/a		B					
16	Zidua Pro	6 oz/a		A	100.0 a	100.0 a	88.3 ab	100.0 a	100.0 a
16	Metribuzin	6 oz/a		A					
16	Durango DMA	32 oz/a		A					
16	MSO	0.3 qt/a		A					
16	N-pak ams	1.5 qt/a		A					
16	Durango DMA	32 oz/a		B					
16	N-pak ams	1.5 qt/a		B					

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Pest Code	ERICA	AMBTR	ERYRE	SENGL	VERAG
Pest Name	Canada horsewe> Giant ragweed Bushy wallflow> Cressleaf grou> Field speedwell				
Crop Code					
Crop Name					
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-16-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Unit Code	1	2	3	4	5
17	Zidua Pro	6 oz/a		A	70.0 c-f	100.0 a	93.3 a	100.0 a	100.0 a
17	Metribuzin	6 oz/a		A					
17	Durango DMA	32 oz/a		A					
17	MSO	0.3 qt/a		A					
17	N-pak ams	1.5 qt/a		A					
17	Durango DMA	32 oz/a		B					
17	Flexstar	1.5 pt/a		B					
17	MSO	0.3 qt/a		B					
17	N-pak ams	1.5 qt/a		B					
18	Liberty	32 oz/a		A	99.3 a	100.0 a	96.7 a	100.0 a	100.0 a
18	2,4-D Choline Salt	1 pt/a		A					
18	Sonic	4.5 oz/a		A					
18	Metribuzin	6 oz/a		A					
18	N-pak ams	1.5 qt/a		A					
18	Durango DMA	32 oz/a		B					
18	N-pak ams	1.5 qt/a		B					
19	Liberty	32 oz/a		A	99.3 a	100.0 a	96.7 a	100.0 a	100.0 a
19	2,4-D Choline Salt	1 pt/a		A					
19	Sonic	4.5 oz/a		A					
19	N-pak ams	1.5 qt/a		A					
19	Enlist Duo	4.75 pt/a		B					
19	N-pak ams	1.5 qt/a		B					
20	Liberty	32 oz/a		A	76.7 b-f	100.0 a	86.7 ab	100.0 a	96.7 ab
20	2,4-D Choline Salt	1 pt/a		A					
20	Sonic	4.5 oz/a		A					
20	N-pak ams	1.5 qt/a		A					
20	Durango DMA	32 oz/a		B					
20	N-pak ams	1.5 qt/a		B					
21	Liberty	32 oz/a		A	96.7 ab	100.0 a	96.7 a	100.0 a	100.0 a
21	2,4-D Choline Salt	1 pt/a		A					
21	Sonic	4.5 oz/a		A					
21	N-pak ams	1.5 qt/a		A					
21	Durango DMA	32 oz/a		B					
21	Flexstar	1.5 pt/a		B					
21	MSO	0.3 qt/a		B					
21	N-pak ams	1.5 qt/a		B					

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Pest Code	ERICA	AMBTR	ERYRE	SENGL	VERAG			
Pest Name	Canada horsewe> Giant ragweed Bushy wallflow> Cressleaf grou> Field speedwell							
Crop Code								
Crop Name								
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-16-2017	May-16-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	13 13	13 13	13 13	13 13	13 13			
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A			
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1	-13 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	1	2	3	4	5
22 UTC				0.0 h	0.0 b	0.0 e	0.0 d	0.0 d
LSD P=.05				21.09	.	16.45	14.20	9.12
Standard Deviation				12.80	0.00	9.98	8.39	5.54
CV				16.61	0.0	12.78	9.05	5.91
Bartlett's X2				38.003	0.0	19.904	3.722	4.852
P(Bartlett's X2)				0.002*	.	0.133	0.293	0.434
Replicate F				0.746	0.000	1.657	1.082	4.002
Replicate Prob(F)				0.4803	1.0000	0.2030	0.3562	0.0256
Treatment F				10.914	0.000	24.996	19.872	44.094
Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	0.0001

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Pest Code	BROTE	SETFA	AMBTR	ERICA	ERICA			
Pest Name	Downy brome Giant foxtail Giant ragweed Canada horsewe> Canada horsewe>							
Crop Code								
Crop Name								
Rating Date	May-16-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	COUNT			
Rating Unit	%	%	%	%	1/4 m2			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	13 13	36 36	36 36	36 36	36 36			
Trt-Eval Interval	13 DA-A	36 DA-A	36 DA-A	36 DA-A				
Days After Emergence	-13 DE-1	10 DE-1	10 DE-1	10 DE-1	10 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
1 Enlist Duo	4.75 pt/a		A	40.0 bcd	37.0 def	40.0 bcd	70.0 a-e	1.67 a
1 Sonic	4.5 oz/a		A					
1 N-pak ams	1.5 qt/a		A					
1 Enlist Duo	4.75 pt/a		B					
1 N-pak ams	1.5 qt/a		B					
2 Enlist Duo	4.75 pt/a		A	50.0 abc	36.7 def	43.3 bcd	73.3 a-e	0.67 a
2 Sonic	4.5 oz/a		A					
2 N-pak ams	1.5 qt/a		A					
2 2,4-D Choline Salt	1 pt/a		B					
2 Liberty	29 oz/a		B					
2 N-pak ams	1.5 qt/a		B					
3 Enlist Duo	4.75 pt/a		A	30.0 b-e	43.3 def	66.7 a	76.0 a-e	1.17 a
3 Sonic	4.5 oz/a		A					
3 N-pak ams	1.5 qt/a		A					
3 Liberty	29 oz/a		B					
3 N-pak ams	1.5 qt/a		B					
4 Enlist Duo	4.75 pt/a		A	60.0 ab	43.3 def	50.0 abc	63.3 cde	4.00 a
4 Sonic	4.5 oz/a		A					
4 N-pak ams	1.5 qt/a		A					
4 Durango DMA	32 oz/a		B					
4 N-pak ams	1.5 qt/a		B					
5 Enlist Duo	4.75 pt/a		A	40.0 bcd	50.0 b-e	53.3 abc	80.0 a-d	1.50 a
5 Sonic	4.5 oz/a		A					
5 N-pak ams	1.5 qt/a		A					
5 Durango DMA	32 oz/a		B					
5 Flexstar	1.5 pt/a		B					
5 MSO	0.3 qt/a		B					
5 N-pak ams	1.5 qt/a		B					
6 Enlist Duo	4.75 pt/a		A	50.0 abc	43.3 def	46.7 a-d	80.0 a-d	0.50 a
6 Sonic	4.5 oz/a		A					
6 Metribuzin	6 oz/a		A					
6 N-pak ams	1.5 qt/a		A					
6 Durango DMA	32 oz/a		B					
6 N-pak ams	1.5 qt/a		B					

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	BROTE	SETFA	AMBTR	ERICA	ERICA
Pest Name	Downy brome Giant foxtail Giant ragweed Canada horsewe> Canada horsewe>				
Crop Code					
Crop Name					
Rating Date	May-16-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	COUNT
Rating Unit	%	%	%	%	1/4 m2
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	13 13	36 36	36 36	36 36	36 36
Trt-Eval Interval	13 DA-A	36 DA-A	36 DA-A	36 DA-A	
Days After Emergence	-13 DE-1	10 DE-1	10 DE-1	10 DE-1	10 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
7	Gramoxone SL	4 pt/a		A	40.0 bcd	6.7 gh	43.3 bcd	100.0 a	0.00 a
7	2,4-D Choline Salt	1 pt/a		A					
7	Sonic	4.5 oz/a		A					
7	Metribuzin	6 oz/a		A					
7	Crop Oil Concentrat	0.6 qt/a		A					
7	N-pak ams	1.5 qt/a		A					
7	Durango DMA	32 oz/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Gramoxone SL	4 pt/a		A	40.0 bcd	30.0 efg	26.7 d	75.0 a-e	0.33 a
8	2,4-D Choline Salt	1 pt/a		A					
8	Sonic	4.5 oz/a		A					
8	Crop Oil Concentrat	0.6 qt/a		A					
8	N-pak ams	1.5 qt/a		A					
8	Enlist Duo	4.75 pt/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Gramoxone SL	4 pt/a		A	80.0 a	36.7 def	36.7 cd	91.7 abc	0.17 a
9	2,4-D Choline Salt	1 pt/a		A					
9	Sonic	4.5 oz/a		A					
9	Crop Oil Concentrat	0.6 qt/a		A					
9	N-pak ams	1.5 qt/a		A					
9	Liberty	29 oz/a		B					
9	N-pak ams	1.5 qt/a		B					
10	Gramoxone SL	4 pt/a		A	40.0 bcd	16.7 fgh	36.7 cd	66.7 b-e	0.33 a
10	2,4-D Choline Salt	1 pt/a		A					
10	Sonic	4.5 oz/a		A					
10	Crop Oil Concentrat	0.6 qt/a		A					
10	N-pak ams	1.5 qt/a		A					
10	2,4-D Choline Salt	1 pt/a		B					
10	Liberty	29 oz/a		B					
10	N-pak ams	1.5 qt/a		B					
11	Gramoxone SL	4 pt/a		A	80.0 a	45.0 c-f	53.3 abc	83.3 a-d	0.00 a
11	2,4-D Choline Salt	1 pt/a		A					
11	Sonic	4.5 oz/a		A					
11	Crop Oil Concentrat	0.6 qt/a		A					
11	N-pak ams	1.5 qt/a		A					
11	Durango DMA	32 oz/a		B					
11	N-pak ams	1.5 qt/a		B					

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	BROTE	SETFA	AMBTR	ERICA	ERICA				
Pest Name	Downy brome Giant foxtail Giant ragweed Canada horsewe> Canada horsewe>								
Crop Code									
Crop Name									
Rating Date	May-16-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	COUNT				
Rating Unit	%	%	%	%	1/4 m2				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	13 13	36 36	36 36	36 36	36 36				
Trt-Eval Interval	13 DA-A	36 DA-A	36 DA-A	36 DA-A					
Days After Emergence	-13 DE-1	10 DE-1	10 DE-1	10 DE-1	10 DE-1				
Trt Treatment	Other Rate	Other Rate	Appl Unit	Code	6	7	8	9	10
12 Gramoxone SL	4 pt/a		A		50.0 abc	16.7 fgh	43.3 bcd	46.7 e	0.83 a
12 2,4-D Choline Salt	1 pt/a		A						
12 Sonic	4.5 oz/a		A						
12 Crop Oil Concentrat	0.6 qt/a		A						
12 N-pak ams	1.5 qt/a		A						
12 Durango DMA	32 oz/a		B						
12 Flexstar	1.5 pt/a		B						
12 MSO	0.3 qt/a		B						
12 N-pak ams	1.5 qt/a		B						
13 Zidua Pro	6 oz/a		A		10.0 de	73.3 abc	43.3 bcd	83.3 a-d	3.33 a
13 Metribuzin	6 oz/a		A						
13 Durango DMA	32 oz/a		A						
13 MSO	0.3 qt/a		A						
13 N-pak ams	1.5 qt/a		A						
13 Enlist Duo	4.75 pt/a		B						
13 N-pak ams	1.5 qt/a		B						
14 Zidua Pro	6 oz/a		A		30.0 b-e	85.0 a	60.0 ab	83.3 a-d	0.00 a
14 Metribuzin	6 oz/a		A						
14 Durango DMA	32 oz/a		A						
14 MSO	0.3 qt/a		A						
14 N-pak ams	1.5 qt/a		A						
14 Liberty	29 oz/a		B						
14 N-pak ams	1.5 qt/a		B						
15 Zidua Pro	6 oz/a		A		40.0 bcd	65.0 a-d	46.7 a-d	76.7 a-e	0.33 a
15 Metribuzin	6 oz/a		A						
15 Durango DMA	32 oz/a		A						
15 MSO	0.3 qt/a		A						
15 N-pak ams	1.5 qt/a		A						
15 Liberty	29 oz/a		B						
15 2,4-D Choline Salt	1 pt/a		B						
15 N-pak ams	1.5 qt/a		B						
16 Zidua Pro	6 oz/a		A		30.0 b-e	76.7 ab	43.3 bcd	81.7 a-d	0.00 a
16 Metribuzin	6 oz/a		A						
16 Durango DMA	32 oz/a		A						
16 MSO	0.3 qt/a		A						
16 N-pak ams	1.5 qt/a		A						
16 Durango DMA	32 oz/a		B						
16 N-pak ams	1.5 qt/a		B						

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	BROTE	SETFA	AMBTR	ERICA	ERICA
Pest Name	Downy brome Giant foxtail Giant ragweed Canada horsewe> Canada horsewe>				
Crop Code					
Crop Name					
Rating Date	May-16-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	COUNT
Rating Unit	%	%	%	%	1/4 m2
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	13 13	36 36	36 36	36 36	36 36
Trt-Eval Interval	13 DA-A	36 DA-A	36 DA-A	36 DA-A	
Days After Emergence	-13 DE-1	10 DE-1	10 DE-1	10 DE-1	10 DE-1

Trt Treatment No. Name	Other Rate	Other Rate Unit	Appl Code	6	7	8	9	10
17 Zidua Pro	6 oz/a		A	20.0 cde	73.3 abc	50.0 abc	63.3 cde	0.33 a
17 Metribuzin	6 oz/a		A					
17 Durango DMA	32 oz/a		A					
17 MSO	0.3 qt/a		A					
17 N-pak ams	1.5 qt/a		A					
17 Durango DMA	32 oz/a		B					
17 Flexstar	1.5 pt/a		B					
17 MSO	0.3 qt/a		B					
17 N-pak ams	1.5 qt/a		B					
18 Liberty	32 oz/a		A	30.0 b-e	26.7 e-h	33.3 cd	100.0 a	0.00 a
18 2,4-D Choline Salt	1 pt/a		A					
18 Sonic	4.5 oz/a		A					
18 Metribuzin	6 oz/a		A					
18 N-pak ams	1.5 qt/a		A					
18 Durango DMA	32 oz/a		B					
18 N-pak ams	1.5 qt/a		B					
19 Liberty	32 oz/a		A	50.0 abc	30.0 efg	36.7 cd	96.7 ab	0.33 a
19 2,4-D Choline Salt	1 pt/a		A					
19 Sonic	4.5 oz/a		A					
19 N-pak ams	1.5 qt/a		A					
19 Enlist Duo	4.75 pt/a		B					
19 N-pak ams	1.5 qt/a		B					
20 Liberty	32 oz/a		A	30.0 b-e	16.7 fgh	36.7 cd	56.7 de	2.50 a
20 2,4-D Choline Salt	1 pt/a		A					
20 Sonic	4.5 oz/a		A					
20 N-pak ams	1.5 qt/a		A					
20 Durango DMA	32 oz/a		B					
20 N-pak ams	1.5 qt/a		B					
21 Liberty	32 oz/a		A	30.0 b-e	23.3 e-h	40.0 bcd	83.3 a-d	0.67 a
21 2,4-D Choline Salt	1 pt/a		A					
21 Sonic	4.5 oz/a		A					
21 N-pak ams	1.5 qt/a		A					
21 Durango DMA	32 oz/a		B					
21 Flexstar	1.5 pt/a		B					
21 MSO	0.3 qt/a		B					
21 N-pak ams	1.5 qt/a		B					

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	BROTE	SETFA	AMBTR	ERICA	ERICA			
Pest Name	Downy brome Giant foxtail Giant ragweed Canada horsewe> Canada horsewe>							
Crop Code								
Crop Name								
Rating Date	May-16-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017	Jun-8-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	COUNT			
Rating Unit	%	%	%	%	1/4 m2			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	13 13	36 36	36 36	36 36	36 36			
Trt-Eval Interval	13 DA-A	36 DA-A	36 DA-A	36 DA-A				
Days After Emergence	-13 DE-1	10 DE-1	10 DE-1	10 DE-1	10 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	6	7	8	9	10
22 UTC				0.0 e	0.0 h	0.0 e	0.0 f	1.83 a
LSD P=.05				33.32	29.83	20.19	30.83	2.756
Standard Deviation				19.56	18.10	12.25	18.71	1.673
CV				49.47	45.49	28.98	25.24	179.51
Bartlett's X2				4.658	20.83	15.046	14.638	47.064
P(Bartlett's X2)				0.968	0.407	0.774	0.687	0.001*
Replicate F				0.190	3.198	13.206	1.262	1.369
Replicate Prob(F)				0.8284	0.0510	0.0001	0.2935	0.2655
Treatment F				2.798	4.973	3.393	3.872	1.349
Treatment Prob(F)				0.0125	0.0001	0.0004	0.0001	0.2004

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The Ohio State University

Pest Type	W Weed	O Other	W Weed	W Weed	W Weed			
Pest Code	AMBTR		SETFA	ECHCG	AMBTR			
Pest Name	Giant ragweed		Giant foxtail	Common barnyar>	Giant ragweed			
Crop Code		GLXMA						
Crop Name		Soybean						
Rating Date	Jun-8-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017			
Rating Type	COUNT	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	1/4 m2	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	36 36	57 17	57 17	57 17	57 17			
Trt-Eval Interval								
Days After Emergence	10 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
1 Enlist Duo	4.75 pt/a		A	2.17 a	8.3 a	73.3 abc	63.3 a-d	85.0 ab
1 Sonic	4.5 oz/a		A					
1 N-pak ams	1.5 qt/a		A					
1 Enlist Duo	4.75 pt/a		B					
1 N-pak ams	1.5 qt/a		B					
2 Enlist Duo	4.75 pt/a		A	2.17 a	0.0 a	53.3 cd	53.3 cde	85.0 ab
2 Sonic	4.5 oz/a		A					
2 N-pak ams	1.5 qt/a		A					
2 2,4-D Choline Salt	1 pt/a		B					
2 Liberty	29 oz/a		B					
2 N-pak ams	1.5 qt/a		B					
3 Enlist Duo	4.75 pt/a		A	2.17 a	0.0 a	60.0 bcd	53.3 cde	96.7 a
3 Sonic	4.5 oz/a		A					
3 N-pak ams	1.5 qt/a		A					
3 Liberty	29 oz/a		B					
3 N-pak ams	1.5 qt/a		B					
4 Enlist Duo	4.75 pt/a		A	1.67 a	0.0 a	70.0 a-d	70.0 abc	85.0 ab
4 Sonic	4.5 oz/a		A					
4 N-pak ams	1.5 qt/a		A					
4 Durango DMA	32 oz/a		B					
4 N-pak ams	1.5 qt/a		B					
5 Enlist Duo	4.75 pt/a		A	2.17 a	3.3 a	66.7 a-d	63.3 a-d	71.7 b
5 Sonic	4.5 oz/a		A					
5 N-pak ams	1.5 qt/a		A					
5 Durango DMA	32 oz/a		B					
5 Flexstar	1.5 pt/a		B					
5 MSO	0.3 qt/a		B					
5 N-pak ams	1.5 qt/a		B					
6 Enlist Duo	4.75 pt/a		A	1.83 a	0.0 a	80.0 ab	80.0 ab	93.3 a
6 Sonic	4.5 oz/a		A					
6 Metribuzin	6 oz/a		A					
6 N-pak ams	1.5 qt/a		A					
6 Durango DMA	32 oz/a		B					
6 N-pak ams	1.5 qt/a		B					

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Pest Type	W Weed	O Other	W Weed	W Weed	W Weed			
Pest Code	AMBTR		SETFA	ECHCG	AMBTR			
Pest Name	Giant ragweed		Giant foxtail		Common barnyar>			
Crop Code			GLXMA					
Crop Name			Soybean					
Rating Date	Jun-8-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017			
Rating Type	COUNT	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	1/4 m2	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	36 36	57 17	57 17	57 17	57 17			
Trt-Eval Interval								
Days After Emergence	10 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	11	12			
				13	14			
				15				
7 Gramoxone SL	4 pt/a		A	2.50 a	0.0 a	60.0 bcd	56.7 b-e	93.3 a
7 2,4-D Choline Salt	1 pt/a		A					
7 Sonic	4.5 oz/a		A					
7 Metribuzin	6 oz/a		A					
7 Crop Oil Concentrat	0.6 qt/a		A					
7 N-pak ams	1.5 qt/a		A					
7 Durango DMA	32 oz/a		B					
7 N-pak ams	1.5 qt/a		B					
8 Gramoxone SL	4 pt/a		A	5.00 a	1.7 a	78.3 ab	78.3 abc	86.7 ab
8 2,4-D Choline Salt	1 pt/a		A					
8 Sonic	4.5 oz/a		A					
8 Crop Oil Concentrat	0.6 qt/a		A					
8 N-pak ams	1.5 qt/a		A					
8 Enlist Duo	4.75 pt/a		B					
8 N-pak ams	1.5 qt/a		B					
9 Gramoxone SL	4 pt/a		A	3.33 a	0.0 a	50.0 d	43.3 de	83.3 ab
9 2,4-D Choline Salt	1 pt/a		A					
9 Sonic	4.5 oz/a		A					
9 Crop Oil Concentrat	0.6 qt/a		A					
9 N-pak ams	1.5 qt/a		A					
9 Liberty	29 oz/a		B					
9 N-pak ams	1.5 qt/a		B					
10 Gramoxone SL	4 pt/a		A	0.83 a	0.0 a	53.3 cd	36.7 e	96.7 a
10 2,4-D Choline Salt	1 pt/a		A					
10 Sonic	4.5 oz/a		A					
10 Crop Oil Concentrat	0.6 qt/a		A					
10 N-pak ams	1.5 qt/a		A					
10 2,4-D Choline Salt	1 pt/a		B					
10 Liberty	29 oz/a		B					
10 N-pak ams	1.5 qt/a		B					
11 Gramoxone SL	4 pt/a		A	1.33 a	0.0 a	73.3 abc	70.0 abc	93.3 a
11 2,4-D Choline Salt	1 pt/a		A					
11 Sonic	4.5 oz/a		A					
11 Crop Oil Concentrat	0.6 qt/a		A					
11 N-pak ams	1.5 qt/a		A					
11 Durango DMA	32 oz/a		B					
11 N-pak ams	1.5 qt/a		B					

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Pest Type	W Weed	O Other	W Weed	W Weed	W Weed			
Pest Code	AMBTR		SETFA	ECHCG	AMBTR			
Pest Name	Giant ragweed		Giant foxtail		Common barnyar>			
Crop Code			GLXMA					
Crop Name			Soybean					
Rating Date	Jun-8-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017			
Rating Type	COUNT	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	1/4 m2	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	36 36	57 17	57 17	57 17	57 17			
Trt-Eval Interval								
Days After Emergence	10 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
12 Gramoxone SL	4 pt/a		A	1.67 a	1.7 a	76.7 ab	70.0 abc	86.7 ab
12 2,4-D Choline Salt	1 pt/a		A					
12 Sonic	4.5 oz/a		A					
12 Crop Oil Concentrat	0.6 qt/a		A					
12 N-pak ams	1.5 qt/a		A					
12 Durango DMA	32 oz/a		B					
12 Flexstar	1.5 pt/a		B					
12 MSO	0.3 qt/a		B					
12 N-pak ams	1.5 qt/a		B					
13 Zidua Pro	6 oz/a		A	5.50 a	0.0 a	76.7 ab	66.7 a-d	96.0 a
13 Metribuzin	6 oz/a		A					
13 Durango DMA	32 oz/a		A					
13 MSO	0.3 qt/a		A					
13 N-pak ams	1.5 qt/a		A					
13 Enlist Duo	4.75 pt/a		B					
13 N-pak ams	1.5 qt/a		B					
14 Zidua Pro	6 oz/a		A	2.50 a	1.7 a	73.3 abc	73.3 abc	86.7 ab
14 Metribuzin	6 oz/a		A					
14 Durango DMA	32 oz/a		A					
14 MSO	0.3 qt/a		A					
14 N-pak ams	1.5 qt/a		A					
14 Liberty	29 oz/a		B					
14 N-pak ams	1.5 qt/a		B					
15 Zidua Pro	6 oz/a		A	3.17 a	0.0 a	53.3 cd	36.7 e	96.7 a
15 Metribuzin	6 oz/a		A					
15 Durango DMA	32 oz/a		A					
15 MSO	0.3 qt/a		A					
15 N-pak ams	1.5 qt/a		A					
15 Liberty	29 oz/a		B					
15 2,4-D Choline Salt	1 pt/a		B					
15 N-pak ams	1.5 qt/a		B					
16 Zidua Pro	6 oz/a		A	2.50 a	1.7 a	76.7 ab	70.0 abc	86.7 ab
16 Metribuzin	6 oz/a		A					
16 Durango DMA	32 oz/a		A					
16 MSO	0.3 qt/a		A					
16 N-pak ams	1.5 qt/a		A					
16 Durango DMA	32 oz/a		B					
16 N-pak ams	1.5 qt/a		B					

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The Ohio State University

Pest Type	W Weed	O Other	W Weed	W Weed	W Weed			
Pest Code	AMBTR		SETFA	ECHCG	AMBTR			
Pest Name	Giant ragweed		Giant foxtail		Common barnyar>			
Crop Code			GLXMA					
Crop Name			Soybean					
Rating Date	Jun-8-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017			
Rating Type	COUNT	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	1/4 m2	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	36 36	57 17	57 17	57 17	57 17			
Trt-Eval Interval								
Days After Emergence	10 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	11	12	13	14	15
17 Zidua Pro	6 oz/a		A	2.33 a	1.7 a	83.3 a	83.3 a	96.7 a
17 Metribuzin	6 oz/a		A					
17 Durango DMA	32 oz/a		A					
17 MSO	0.3 qt/a		A					
17 N-pak ams	1.5 qt/a		A					
17 Durango DMA	32 oz/a		B					
17 Flexstar	1.5 pt/a		B					
17 MSO	0.3 qt/a		B					
17 N-pak ams	1.5 qt/a		B					
18 Liberty	32 oz/a		A	6.33 a	0.0 a	66.7 a-d	66.7 a-d	83.3 ab
18 2,4-D Choline Salt	1 pt/a		A					
18 Sonic	4.5 oz/a		A					
18 Metribuzin	6 oz/a		A					
18 N-pak ams	1.5 qt/a		A					
18 Durango DMA	32 oz/a		B					
18 N-pak ams	1.5 qt/a		B					
19 Liberty	32 oz/a		A	9.00 a	0.0 a	73.3 abc	63.3 a-d	91.7 ab
19 2,4-D Choline Salt	1 pt/a		A					
19 Sonic	4.5 oz/a		A					
19 N-pak ams	1.5 qt/a		A					
19 Enlist Duo	4.75 pt/a		B					
19 N-pak ams	1.5 qt/a		B					
20 Liberty	32 oz/a		A	2.33 a	0.0 a	70.0 a-d	70.0 abc	90.0 ab
20 2,4-D Choline Salt	1 pt/a		A					
20 Sonic	4.5 oz/a		A					
20 N-pak ams	1.5 qt/a		A					
20 Durango DMA	32 oz/a		B					
20 N-pak ams	1.5 qt/a		B					
21 Liberty	32 oz/a		A	2.33 a	5.0 a	86.7 a	86.7 a	97.3 a
21 2,4-D Choline Salt	1 pt/a		A					
21 Sonic	4.5 oz/a		A					
21 N-pak ams	1.5 qt/a		A					
21 Durango DMA	32 oz/a		B					
21 Flexstar	1.5 pt/a		B					
21 MSO	0.3 qt/a		B					
21 N-pak ams	1.5 qt/a		B					

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The Ohio State University

Pest Type	W Weed	O Other	W Weed	W Weed	W Weed
Pest Code	AMBTR		SETFA	ECHCG	AMBTR
Pest Name	Giant ragweed		Giant foxtail Common barnyar> Giant ragweed		
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	Jun-8-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017
Rating Type	COUNT	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	1/4 m2	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	36 36	57 17	57 17	57 17	57 17
Trt-Eval Interval					
Days After Emergence	10 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
Trt Treatment	Other	Other	Appl		
No. Name	Rate	Rate	Unit Code	11	12
22 UTC				2.50 a	0.0 a
					0.0 e
					0.0 f
					0.0 c
LSD P=.05	6.159	4.67		22.67	25.11
Standard Deviation	3.738	2.83		13.76	15.24
CV	125.86	249.32		20.8	24.74
Bartlett's X2	39.62	8.36		27.395	20.995
P(Bartlett's X2)	0.008*	0.302		0.096	0.28
Replicate F	10.139	1.840		3.045	1.179
Replicate Prob(F)	0.0003	0.1713		0.0582	0.3174
Treatment F	0.767	1.620		5.156	4.801
Treatment Prob(F)	0.7401	0.0906		0.0001	0.0001

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The Ohio State University

Pest Type	W Weed		W Weed		W Weed		W Weed		W Weed		
Pest Code	ERICA		ERICA		AMBTR		AMBTR		ERICA		
Pest Name	Canada horsewe>		Canada horsewe>		Giant ragweed		Giant ragweed		Canada horsewe>		
Crop Code											
Crop Name											
Rating Date	Jun-29-2017		Jun-29-2017		Jun-29-2017		Jul-20-2017		Jul-20-2017		
Rating Type	CONTRO		COUNT		COUNT		COUNT		COUNT		
Rating Unit	%		1/4 m2		1/4 m2		1/4 m2		1/4 m2		
Number of Subsamples	1		1		1		1		1		
Days After First/Last Applic.	57 17		57 17		57 17		78 38		78 38		
Trt-Eval Interval											
Days After Emergence	31 DE-1		31 DE-1		31 DE-1		52 DE-1		52 DE-1		
Trt Treatment	Other	Other	Appl								
No. Name	Rate	Rate	Unit Code	16	17	18	19	20			
1 Enlist Duo	4.75 pt/a		A	92.7 ab	0.50 c	1.50 a	2.50 a	1.00 b			
1 Sonic	4.5 oz/a		A								
1 N-pak ams	1.5 qt/a		A								
1 Enlist Duo	4.75 pt/a		B								
1 N-pak ams	1.5 qt/a		B								
2 Enlist Duo	4.75 pt/a		A	90.7 abc	0.17 c	1.17 a	1.50 a	0.00 b			
2 Sonic	4.5 oz/a		A								
2 N-pak ams	1.5 qt/a		A								
2 2,4-D Choline Salt	1 pt/a		B								
2 Liberty	29 oz/a		B								
2 N-pak ams	1.5 qt/a		B								
3 Enlist Duo	4.75 pt/a		A	90.0 abc	0.00 c	0.67 a	0.83 a	0.00 b			
3 Sonic	4.5 oz/a		A								
3 N-pak ams	1.5 qt/a		A								
3 Liberty	29 oz/a		B								
3 N-pak ams	1.5 qt/a		B								
4 Enlist Duo	4.75 pt/a		A	56.7 efg	6.17 a	0.67 a	1.67 a	4.33 a			
4 Sonic	4.5 oz/a		A								
4 N-pak ams	1.5 qt/a		A								
4 Durango DMA	32 oz/a		B								
4 N-pak ams	1.5 qt/a		B								
5 Enlist Duo	4.75 pt/a		A	66.7 c-f	3.33 b	1.17 a	0.83 a	0.50 b			
5 Sonic	4.5 oz/a		A								
5 N-pak ams	1.5 qt/a		A								
5 Durango DMA	32 oz/a		B								
5 Flexstar	1.5 pt/a		B								
5 MSO	0.3 qt/a		B								
5 N-pak ams	1.5 qt/a		B								
6 Enlist Duo	4.75 pt/a		A	65.0 c-f	0.83 bc	0.00 a	0.83 a	1.17 b			
6 Sonic	4.5 oz/a		A								
6 Metribuzin	6 oz/a		A								
6 N-pak ams	1.5 qt/a		A								
6 Durango DMA	32 oz/a		B								
6 N-pak ams	1.5 qt/a		B								

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	AMBTR	AMBTR	ERICA			
Pest Name	Canada horsewe>	Canada horsewe>	Giant ragweed	Giant ragweed	Canada horsewe>			
Crop Code								
Crop Name								
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	COUNT	COUNT	COUNT	COUNT			
Rating Unit	%	1/4 m2	1/4 m2	1/4 m2	1/4 m2			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	57 17	57 17	57 17	78 38	78 38			
Trt-Eval Interval								
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
7 Gramoxone SL	4 pt/a		A	100.0 a	0.00 c	0.83 a	0.83 a	0.33 b
7 2,4-D Choline Salt	1 pt/a		A					
7 Sonic	4.5 oz/a		A					
7 Metribuzin	6 oz/a		A					
7 Crop Oil Concentrat	0.6 qt/a		A					
7 N-pak ams	1.5 qt/a		A					
7 Durango DMA	32 oz/a		B					
7 N-pak ams	1.5 qt/a		B					
8 Gramoxone SL	4 pt/a		A	90.0 abc	0.00 c	0.83 a	1.33 a	0.00 b
8 2,4-D Choline Salt	1 pt/a		A					
8 Sonic	4.5 oz/a		A					
8 Crop Oil Concentrat	0.6 qt/a		A					
8 N-pak ams	1.5 qt/a		A					
8 Enlist Duo	4.75 pt/a		B					
8 N-pak ams	1.5 qt/a		B					
9 Gramoxone SL	4 pt/a		A	80.0 a-e	0.17 c	0.67 a	1.50 a	0.00 b
9 2,4-D Choline Salt	1 pt/a		A					
9 Sonic	4.5 oz/a		A					
9 Crop Oil Concentrat	0.6 qt/a		A					
9 N-pak ams	1.5 qt/a		A					
9 Liberty	29 oz/a		B					
9 N-pak ams	1.5 qt/a		B					
10 Gramoxone SL	4 pt/a		A	83.3 a-d	0.50 c	0.33 a	1.00 a	0.33 b
10 2,4-D Choline Salt	1 pt/a		A					
10 Sonic	4.5 oz/a		A					
10 Crop Oil Concentrat	0.6 qt/a		A					
10 N-pak ams	1.5 qt/a		A					
10 2,4-D Choline Salt	1 pt/a		B					
10 Liberty	29 oz/a		B					
10 N-pak ams	1.5 qt/a		B					
11 Gramoxone SL	4 pt/a		A	73.3 b-e	0.67 bc	0.33 a	1.17 a	0.50 b
11 2,4-D Choline Salt	1 pt/a		A					
11 Sonic	4.5 oz/a		A					
11 Crop Oil Concentrat	0.6 qt/a		A					
11 N-pak ams	1.5 qt/a		A					
11 Durango DMA	32 oz/a		B					
11 N-pak ams	1.5 qt/a		B					

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	AMBTR	AMBTR	ERICA			
Pest Name	Canada horsewe>		Giant ragweed	Giant ragweed	Canada horsewe>			
Crop Code								
Crop Name								
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	COUNT	COUNT	COUNT	COUNT			
Rating Unit	%	1/4 m2	1/4 m2	1/4 m2	1/4 m2			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	57 17	57 17	57 17	78 38	78 38			
Trt-Eval Interval								
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
12 Gramoxone SL	4 pt/a		A	36.7 g	1.17 bc	1.17 a	0.83 a	2.00 ab
12 2,4-D Choline Salt	1 pt/a		A					
12 Sonic	4.5 oz/a		A					
12 Crop Oil Concentrat	0.6 qt/a		A					
12 N-pak ams	1.5 qt/a		A					
12 Durango DMA	32 oz/a		B					
12 Flexstar	1.5 pt/a		B					
12 MSO	0.3 qt/a		B					
12 N-pak ams	1.5 qt/a		B					
13 Zidua Pro	6 oz/a		A	93.3 ab	0.00 c	1.83 a	1.17 a	0.17 b
13 Metribuzin	6 oz/a		A					
13 Durango DMA	32 oz/a		A					
13 MSO	0.3 qt/a		A					
13 N-pak ams	1.5 qt/a		A					
13 Enlist Duo	4.75 pt/a		B					
13 N-pak ams	1.5 qt/a		B					
14 Zidua Pro	6 oz/a		A	90.0 abc	0.33 c	0.83 a	2.00 a	0.17 b
14 Metribuzin	6 oz/a		A					
14 Durango DMA	32 oz/a		A					
14 MSO	0.3 qt/a		A					
14 N-pak ams	1.5 qt/a		A					
14 Liberty	29 oz/a		B					
14 N-pak ams	1.5 qt/a		B					
15 Zidua Pro	6 oz/a		A	85.0 a-d	0.00 c	1.00 a	0.33 a	0.17 b
15 Metribuzin	6 oz/a		A					
15 Durango DMA	32 oz/a		A					
15 MSO	0.3 qt/a		A					
15 N-pak ams	1.5 qt/a		A					
15 Liberty	29 oz/a		B					
15 2,4-D Choline Salt	1 pt/a		B					
15 N-pak ams	1.5 qt/a		B					
16 Zidua Pro	6 oz/a		A	63.3 def	0.00 c	1.00 a	1.33 a	0.33 b
16 Metribuzin	6 oz/a		A					
16 Durango DMA	32 oz/a		A					
16 MSO	0.3 qt/a		A					
16 N-pak ams	1.5 qt/a		A					
16 Durango DMA	32 oz/a		B					
16 N-pak ams	1.5 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	AMBTR	AMBTR	ERICA			
Pest Name	Canada horsewe>	Canada horsewe>	Giant ragweed	Giant ragweed	Canada horsewe>			
Crop Code								
Crop Name								
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	COUNT	COUNT	COUNT	COUNT			
Rating Unit	%	1/4 m2	1/4 m2	1/4 m2	1/4 m2			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	57 17	57 17	57 17	78 38	78 38			
Trt-Eval Interval								
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	16	17	18	19	20
17 Zidua Pro	6 oz/a		A	60.0 d-g	0.83 bc	0.50 a	0.17 a	2.00 ab
17 Metribuzin	6 oz/a		A					
17 Durango DMA	32 oz/a		A					
17 MSO	0.3 qt/a		A					
17 N-pak ams	1.5 qt/a		A					
17 Durango DMA	32 oz/a		B					
17 Flexstar	1.5 pt/a		B					
17 MSO	0.3 qt/a		B					
17 N-pak ams	1.5 qt/a		B					
18 Liberty	32 oz/a		A	100.0 a	0.00 c	0.83 a	1.17 a	0.00 b
18 2,4-D Choline Salt	1 pt/a		A					
18 Sonic	4.5 oz/a		A					
18 Metribuzin	6 oz/a		A					
18 N-pak ams	1.5 qt/a		A					
18 Durango DMA	32 oz/a		B					
18 N-pak ams	1.5 qt/a		B					
19 Liberty	32 oz/a		A	96.7 ab	0.17 c	0.67 a	1.00 a	0.00 b
19 2,4-D Choline Salt	1 pt/a		A					
19 Sonic	4.5 oz/a		A					
19 N-pak ams	1.5 qt/a		A					
19 Enlist Duo	4.75 pt/a		B					
19 N-pak ams	1.5 qt/a		B					
20 Liberty	32 oz/a		A	43.3 fg	2.33 bc	0.50 a	0.67 a	1.00 b
20 2,4-D Choline Salt	1 pt/a		A					
20 Sonic	4.5 oz/a		A					
20 N-pak ams	1.5 qt/a		A					
20 Durango DMA	32 oz/a		B					
20 N-pak ams	1.5 qt/a		B					
21 Liberty	32 oz/a		A	78.3 a-e	0.83 bc	0.33 a	0.17 a	0.83 b
21 2,4-D Choline Salt	1 pt/a		A					
21 Sonic	4.5 oz/a		A					
21 N-pak ams	1.5 qt/a		A					
21 Durango DMA	32 oz/a		B					
21 Flexstar	1.5 pt/a		B					
21 MSO	0.3 qt/a		B					
21 N-pak ams	1.5 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	AMBTR	AMBTR	ERICA			
Pest Name	Canada horsewe>		Giant ragweed		Canada horsewe>			
Crop Code								
Crop Name								
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	COUNT	COUNT	COUNT	COUNT			
Rating Unit	%	1/4 m2	1/4 m2	1/4 m2	1/4 m2			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	57 17	57 17	57 17	78 38	78 38			
Trt-Eval Interval								
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	16	17	18	19	20
22 UTC				0.0 h	6.50 a	3.00 a	1.83 a	4.33 a
LSD P=.05				25.69	2.820	2.014	1.909	2.462
Standard Deviation				15.59	1.711	1.222	1.159	1.494
CV				20.98	153.65	135.6	103.34	171.53
Bartlett's X2				13.598	46.474	30.453	30.77	49.826
P(Bartlett's X2)				0.755	0.001*	0.063	0.078	0.001*
Replicate F				0.046	1.712	0.915	3.456	1.762
Replicate Prob(F)				0.9554	0.1929	0.4083	0.0408	0.1841
Treatment F				7.317	3.617	0.784	0.740	2.164
Treatment Prob(F)				0.0001	0.0002	0.7212	0.7684	0.0165

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The Ohio State University

Pest Type							
Pest Code							
Pest Name							
Crop Code							
Crop Name							
Rating Date							
Rating Type							
Rating Unit							
Number of Subsamples							
Days After First/Last Applic.							
Trt-Eval Interval							
Days After Emergence							
Trt Treatment	Other	Other	Appl				
No. Name	Rate	Rate	Unit Code	21	22	23	24
1 Enlist Duo	4.75 pt/a		A	66.7 bcd	43.3 b-f	40.0 e	100.0 a
1 Sonic	4.5 oz/a		A				
1 N-pak ams	1.5 qt/a		A				
1 Enlist Duo	4.75 pt/a		B				
1 N-pak ams	1.5 qt/a		B				
2 Enlist Duo	4.75 pt/a		A	53.3 d	16.7 fgh	53.3 b-e	93.3 a
2 Sonic	4.5 oz/a		A				
2 N-pak ams	1.5 qt/a		A				
2 2,4-D Choline Salt	1 pt/a		B				
2 Liberty	29 oz/a		B				
2 N-pak ams	1.5 qt/a		B				
3 Enlist Duo	4.75 pt/a		A	76.7 abc	30.0 d-g	76.7 ab	86.7 ab
3 Sonic	4.5 oz/a		A				
3 N-pak ams	1.5 qt/a		A				
3 Liberty	29 oz/a		B				
3 N-pak ams	1.5 qt/a		B				
4 Enlist Duo	4.75 pt/a		A	83.3 ab	46.7 b-e	53.3 b-e	46.7 def
4 Sonic	4.5 oz/a		A				
4 N-pak ams	1.5 qt/a		A				
4 Durango DMA	32 oz/a		B				
4 N-pak ams	1.5 qt/a		B				
5 Enlist Duo	4.75 pt/a		A	72.7 a-d	50.0 bcd	52.3 cde	51.7 def
5 Sonic	4.5 oz/a		A				
5 N-pak ams	1.5 qt/a		A				
5 Durango DMA	32 oz/a		B				
5 Flexstar	1.5 pt/a		B				
5 MSO	0.3 qt/a		B				
5 N-pak ams	1.5 qt/a		B				
6 Enlist Duo	4.75 pt/a		A	83.3 ab	66.7 ab	66.7 a-d	61.7 cde
6 Sonic	4.5 oz/a		A				
6 Metribuzin	6 oz/a		A				
6 N-pak ams	1.5 qt/a		A				
6 Durango DMA	32 oz/a		B				
6 N-pak ams	1.5 qt/a		B				

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 Missing data estimates are included in columns: Average=4,6
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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	ERICA
Pest Name	Giant foxtail Common barnyar> Giant ragweed Canada horsewe>			
Crop Code				
Crop Name				
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	78 38	78 38	78 38	78 38
Trt-Eval Interval				
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	
No. Name	Rate	Rate	Unit Code	
7 Gramoxone SL	4 pt/a		A	60.0 cd
7 2,4-D Choline Salt	1 pt/a		A	
7 Sonic	4.5 oz/a		A	
7 Metribuzin	6 oz/a		A	
7 Crop Oil Concentrat	0.6 qt/a		A	
7 N-pak ams	1.5 qt/a		A	
7 Durango DMA	32 oz/a		B	
7 N-pak ams	1.5 qt/a		B	
8 Gramoxone SL	4 pt/a		A	81.7 ab
8 2,4-D Choline Salt	1 pt/a		A	
8 Sonic	4.5 oz/a		A	
8 Crop Oil Concentrat	0.6 qt/a		A	
8 N-pak ams	1.5 qt/a		A	
8 Enlist Duo	4.75 pt/a		B	
8 N-pak ams	1.5 qt/a		B	
9 Gramoxone SL	4 pt/a		A	70.0 a-d
9 2,4-D Choline Salt	1 pt/a		A	
9 Sonic	4.5 oz/a		A	
9 Crop Oil Concentrat	0.6 qt/a		A	
9 N-pak ams	1.5 qt/a		A	
9 Liberty	29 oz/a		B	
9 N-pak ams	1.5 qt/a		B	
10 Gramoxone SL	4 pt/a		A	70.0 a-d
10 2,4-D Choline Salt	1 pt/a		A	
10 Sonic	4.5 oz/a		A	
10 Crop Oil Concentrat	0.6 qt/a		A	
10 N-pak ams	1.5 qt/a		A	
10 2,4-D Choline Salt	1 pt/a		B	
10 Liberty	29 oz/a		B	
10 N-pak ams	1.5 qt/a		B	
11 Gramoxone SL	4 pt/a		A	86.0 ab
11 2,4-D Choline Salt	1 pt/a		A	
11 Sonic	4.5 oz/a		A	
11 Crop Oil Concentrat	0.6 qt/a		A	
11 N-pak ams	1.5 qt/a		A	
11 Durango DMA	32 oz/a		B	
11 N-pak ams	1.5 qt/a		B	

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	ERICA			
Pest Name	Giant foxtail Common barnyar> Giant ragweed Canada horsewe>						
Crop Code							
Crop Name							
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	78 38	78 38	78 38	78 38			
Trt-Eval Interval							
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other	Other	Appl				
No. Name	Rate	Rate	Unit Code				
				21			
				22			
				23			
				24			
12 Gramoxone SL	4 pt/a		A	82.7 ab	50.0 bcd	71.7 abc	40.0 ef
12 2,4-D Choline Salt	1 pt/a		A				
12 Sonic	4.5 oz/a		A				
12 Crop Oil Concentrat	0.6 qt/a		A				
12 N-pak ams	1.5 qt/a		A				
12 Durango DMA	32 oz/a		B				
12 Flexstar	1.5 pt/a		B				
12 MSO	0.3 qt/a		B				
12 N-pak ams	1.5 qt/a		B				
13 Zidua Pro	6 oz/a		A	76.7 abc	40.0 b-g	56.7 b-e	100.0 a
13 Metribuzin	6 oz/a		A				
13 Durango DMA	32 oz/a		A				
13 MSO	0.3 qt/a		A				
13 N-pak ams	1.5 qt/a		A				
13 Enlist Duo	4.75 pt/a		B				
13 N-pak ams	1.5 qt/a		B				
14 Zidua Pro	6 oz/a		A	73.3 abc	50.0 bcd	56.7 b-e	91.7 a
14 Metribuzin	6 oz/a		A				
14 Durango DMA	32 oz/a		A				
14 MSO	0.3 qt/a		A				
14 N-pak ams	1.5 qt/a		A				
14 Liberty	29 oz/a		B				
14 N-pak ams	1.5 qt/a		B				
15 Zidua Pro	6 oz/a		A	76.7 abc	30.0 d-g	63.3 a-e	86.7 ab
15 Metribuzin	6 oz/a		A				
15 Durango DMA	32 oz/a		A				
15 MSO	0.3 qt/a		A				
15 N-pak ams	1.5 qt/a		A				
15 Liberty	29 oz/a		B				
15 2,4-D Choline Salt	1 pt/a		B				
15 N-pak ams	1.5 qt/a		B				
16 Zidua Pro	6 oz/a		A	86.7 a	60.0 abc	56.7 b-e	66.7 bcd
16 Metribuzin	6 oz/a		A				
16 Durango DMA	32 oz/a		A				
16 MSO	0.3 qt/a		A				
16 N-pak ams	1.5 qt/a		A				
16 Durango DMA	32 oz/a		B				
16 N-pak ams	1.5 qt/a		B				

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	ERICA			
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>			
Crop Code							
Crop Name							
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	78 38	78 38	78 38	78 38			
Trt-Eval Interval							
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other	Other	Appl				
No. Name	Rate	Rate	Unit Code				
				21			
				22			
				23			
				24			
17 Zidua Pro	6 oz/a		A	80.0 ab	36.7 c-g	73.3 abc	60.0 de
17 Metribuzin	6 oz/a		A				
17 Durango DMA	32 oz/a		A				
17 MSO	0.3 qt/a		A				
17 N-pak ams	1.5 qt/a		A				
17 Durango DMA	32 oz/a		B				
17 Flexstar	1.5 pt/a		B				
17 MSO	0.3 qt/a		B				
17 N-pak ams	1.5 qt/a		B				
18 Liberty	32 oz/a		A	73.3 abc	30.0 d-g	53.3 b-e	100.0 a
18 2,4-D Choline Salt	1 pt/a		A				
18 Sonic	4.5 oz/a		A				
18 Metribuzin	6 oz/a		A				
18 N-pak ams	1.5 qt/a		A				
18 Durango DMA	32 oz/a		B				
18 N-pak ams	1.5 qt/a		B				
19 Liberty	32 oz/a		A	80.0 ab	50.0 bcd	60.0 a-e	100.0 a
19 2,4-D Choline Salt	1 pt/a		A				
19 Sonic	4.5 oz/a		A				
19 N-pak ams	1.5 qt/a		A				
19 Enlist Duo	4.75 pt/a		B				
19 N-pak ams	1.5 qt/a		B				
20 Liberty	32 oz/a		A	76.0 abc	50.0 bcd	66.7 a-d	36.7 f
20 2,4-D Choline Salt	1 pt/a		A				
20 Sonic	4.5 oz/a		A				
20 N-pak ams	1.5 qt/a		A				
20 Durango DMA	32 oz/a		B				
20 N-pak ams	1.5 qt/a		B				
21 Liberty	32 oz/a		A	88.3 a	80.0 a	83.3 a	66.7 bcd
21 2,4-D Choline Salt	1 pt/a		A				
21 Sonic	4.5 oz/a		A				
21 N-pak ams	1.5 qt/a		A				
21 Durango DMA	32 oz/a		B				
21 Flexstar	1.5 pt/a		B				
21 MSO	0.3 qt/a		B				
21 N-pak ams	1.5 qt/a		B				

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	ERICA
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>
Crop Code				
Crop Name				
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	78 38	78 38	78 38	78 38
Trt-Eval Interval				
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1
Trt Treatment	Other	Other	Appl	
No. Name	Rate	Rate	Unit Code	
22 UTC	21	22	23	24
	0.0 e	0.0 h	0.0 f	0.0 g
LSD P=.05	19.84	27.35	24.16	22.74
Standard Deviation	12.04	16.60	14.66	13.80
CV	16.59	41.65	25.32	18.4
Bartlett's X2	9.748	8.723	25.829	13.718
P(Bartlett's X2)	0.94	0.966	0.172	0.547
Replicate F	9.492	4.564	2.723	0.095
Replicate Prob(F)	0.0004	0.0161	0.0773	0.9091
Treatment F	6.954	4.662	3.734	11.459
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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The Ohio State University

No-Till Marestalk and Giant Ragweed management in the Enlist Duo system

Trial ID: 17 HOWE24D Location: F-10 East End Trial Year: 2017
Protocol ID: 17 HOWE24D Investigator: Dr. Mark M. Loux
Project ID: 17 HOWE24D Study Director: Bryan Reeb
Sponsor Contact: Mark Loux

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
SENGL, Senecio glabellus, Cressleaf groundsel = US
VERAG, Veronica agrestis, Field speedwell = US
BROTE, Anisantha tectorum, Downy brome = US
SETFA, Setaria faberi, Giant foxtail = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

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

Rating Unit

% = percent