

The Ohio State University

Residual control options for marestail - Enlist soybean
 Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

General Trial Information

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

Discipline: H herbicide
Initiation Date: Apr-20-2018

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.85798 N
Longitude of LL Corner °: 83.67629 W
Altitude of LL Corner, Unit: 1090.00 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 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

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

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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:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup
- Pest 4 Type:** W **Code:** VERAG *Veronica agrestis*
Common Name: Field speedwell
- Pest 5 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Dandelion
- Pest 6 Type:** W **Code:** ERPSS *Erophila* sp.
Common Name: Whitlowgrass
- Pest 7 Type:** W **Code:** SENGL *Packera glabella*
Common Name: Cressleaf groundsel
- Pest 8 Type:** W **Code:** TARSS *Taraxacum* sp.
Common Name: Dandelion
- Pest 9 Type:** W **Code:** CARPE *Cardamine pensylvanica*
Common Name: Pennsylvania bittercress
- Pest10 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest11 Type:** W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed
- Pest12 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: common lambsquarters
- Pest13 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:** 20
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

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

Analyzed By:
 Spectrum 11-27-17

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Application Description

	A	B	C
Application Date:	Apr-20-2018	Apr-30-2018	Jun-18-2018
Appl. Start Time:	2:30 PM	1:00 PM	8:20 AM
Appl. Stop Time:	3:00 PM	1:20 PM	8:40 AM
Interval to Prev. Appl., Unit:		10 DAYS	49 DAYS
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	14 EPP	ATPLAN	POST
Application Placement:	BROSOI	BROSOI	BROFOL
Applied By:	REEB		Ackley,Lamb
Air Temperature, Unit:	56 F	64 F	79.5 F
% Relative Humidity:	31	25	74
Wind Velocity, Unit:	6 MPH	4 MPH	2.5 MPH
Wind Direction:	ENE	SW	WSW
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	58 F	64 F	79 F
Soil Moisture:	SLIWET	NORMAL	GOOD
% Cloud Cover:	1	20	10
Next Moisture Occurred On:	Apr-23-2018	May-3-2018	Jun-19-2018
Time to Next Moisture, Unit:	3 DAY	3 DAY	1 DAY
Moisture 1 Week after Appl.:	0.24 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:			61 100
Height, Unit:			12 IN
Height Minimum, Maximum:			11 13

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Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	1	IN	1	IN		
Height, Unit:	3.5	IN	3	IN		
Height Minimum, Maximum:	1	4.5	2	5		
Pest 2 Code, Type, Scale:	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	65	100	19	100		
Diameter, Unit:	1.5	IN	3	IN		
Height, Unit:	0.5	IN	2	IN		
Height Minimum, Maximum:	0.25	1	1	2		
Pest 3 Code, Type, Scale:	RANAB	W	RANAB	W	RANAB	W
Stage Majority, Percent:	13	100	65	100		
Diameter, Unit:	3	IN	1	IN		
Height, Unit:	1.5	IN	3	IN		
Height Minimum, Maximum:	0.5	4	3	4		
Pest 4 Code, Type, Scale:	VERAG	W	VERAG	W	VERAG	W
Stage Majority, Percent:	55	100				
Diameter, Unit:	2	IN				
Height, Unit:	1	IN				
Height Minimum, Maximum:	0.25	1				
Pest 5 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent:	19	100				
Diameter, Unit:	8	IN				
Height, Unit:	1.5	IN				
Height Minimum, Maximum:	1	2				
Pest 6 Code, Type, Scale:	ERPSS	W	ERPSS	W	ERPSS	W
Stage Majority, Percent:	65	100				
Diameter, Unit:	3	IN				
Height, Unit:	4.5	IN				
Height Minimum, Maximum:	2	5				
Pest 7 Code, Type, Scale:	SENGL	W	SENGL	W	SENGL	W
Stage Majority, Percent:			65	100		
Diameter, Unit:			5	IN		
Height, Unit:			4	IN		
Height Minimum, Maximum:			3	7		
Pest 8 Code, Type, Scale:	TARSS	W	TARSS	W	TARSS	W
Stage Majority, Percent:			65	100		
Diameter, Unit:			9	IN		
Height, Unit:			3	IN		
Height Minimum, Maximum:			2	4		
Pest 9 Code, Type, Scale:	CARPE	W	CARPE	W	CARPE	W
Stage Majority, Percent:			64	100		
Diameter, Unit:			1	IN		
Height, Unit:			4	IN		
Height Minimum, Maximum:			2	10		
Pest10 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:					18	100
Height, Unit:					12	IN
Height Minimum, Maximum:					6	16
Pest11 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:					19	100
Height, Unit:					12	IN
Height Minimum, Maximum:					11	14
Pest12 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:					19	100
Height, Unit:					13	IN
Height Minimum, Maximum:					6	14
Pest13 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:	6' BACKPACK	6' BACKPACK	TRACTOR SPRA
Equipment Type:	BACCAI	BACCAI	TRMOSP
Operation Pressure, Unit:	44 PSI	44 PSI	40 PSI
Nozzle Type:	AIXR	AIXR	AI 11002
Nozzle Size:	11015	11015	20 GPA
Nozzle Spacing, Unit:	18 IN	18 IN	20 IN
Nozzles/Row:	4	4	
Boom Length, Unit:	6.67 FT	6.67 FT	20 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3.8 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:		1 L	30 GAL
Propellant:		COMCO2	PUMROL

Date By Notes
 Jun-2-2018 Dobbels overlay of Select Max @ 12oz/acre

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	SENGL	RANAB	ERICA
Pest Scientific Name	Lamium purpure>	Stellaria media	Packera glabel>	Ranunculus abo>	Erigeron canad>
Pest Name	Purple deadnet>	Common chickwe>	Cressleaf grou>	Smallflower bu>	Canada horsewe>
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	Jun-13-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	24 14	24 14	24 14	54 44
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	44 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	33 DE-1
ARM Action Codes		ET13		AA	AA

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
1	Metribuzin	8 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	98.9 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
2	Metribuzin	10 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	99.4 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
3	Valor SX	2.5 oz/a		A	99.3 a	100.0 -	98.3 -	100.0 -	72.0 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
4	Spartan	5 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	67.2 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
5	Sharpen	1.5 oz/a		A	96.7 a	100.0 -	100.0 -	100.0 -	97.6 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	MSO	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					

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Pest Code	LAMPU	STEME	SENGL	RANAB	ERICA
Pest Scientific Name	Lamium purpure>	Stellaria media	Packera glabel>	Ranunculus abo>	Erigeron canad>
Pest Name	Purple deadnet>	Common chickwe>	Cressleaf grou>	Smallflower bu>	Canada horsewe>
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	Jun-13-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	24 14	24 14	24 14	54 44
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	44 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	33 DE-1
ARM Action Codes		ET13		AA	AA

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
6	Metribuzin	8 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	MSO	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
7	Metribuzin	10 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	MSO	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
8	Valor SX	2.5 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	97.3 -
	Metribuzin	8 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
9	Spartan	5 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	98.3 -
	Metribuzin	8 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
10	Sonic	4 oz/a		A	100.0 a	100.0 -	100.0 -	100.0 -	98.2 -
	Metribuzin	8 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
11	Metribuzin	8 oz/a		B	100.0 a	100.0 -	96.7 -	100.0 -	83.6 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
12	Metribuzin	10 oz/a		B	100.0 a	100.0 -	95.0 -	99.4 -	100.0 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
13	Valor SX	2.5 oz/a		B	88.3 b	96.7	96.7 -	100.0 -	76.7 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					

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Pest Code	LAMPU	STEME	SENGL	RANAB	ERICA
Pest Scientific Name	Lamium purpure>	Stellaria media	Packera glabel>	Ranunculus abo>	Erigeron canad>
Pest Name	Purple deadnet>	Common chickwe>	Cressleaf grou>	Smallflower bu>	Canada horsewe>
Rating Date	May-14-2018	May-14-2018	May-14-2018	May-14-2018	Jun-13-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	24 14	24 14	24 14	54 44
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	44 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	33 DE-1
ARM Action Codes		ET13		AA	AA

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*	5*
14	Spartan	5 oz/a		B	83.3 b	100.0 -	93.3 -	100.0 -	87.1 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
15	Sharpen	1.5 oz/a		B	83.3 b	100.0 -	100.0 -	100.0 -	95.7 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	MSO	0.6 qt/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
16	Metribuzin	8 oz/a		B	100.0 a	100.0 -	100.0 -	96.3 -	100.0 -
	Sharpen	1.5 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	MSO	0.6 qt/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
17	Metribuzin	10 oz/a		B	100.0 a	100.0 -	98.3 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	MSO	0.6 qt/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
18	Valor SX	2.5 oz/a		B	100.0 a	100.0 -	96.7 -	100.0 -	97.6 -
	Metribuzin	8 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
19	Spartan	5 oz/a		B	100.0 a	100.0 -	100.0 -	100.0 -	87.1 -
	Metribuzin	8 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					

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Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 14	24 14	24 14	24 14	54 44
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	44 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	33 DE-1
ARM Action Codes		ET13		AA	AA

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
20	Sonic	4 oz/a		B	100.0 a	100.0 -	97.7 -	100.0 -	83.6 -
	Metribuzin	8 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
	LSD P=.05				4.78	.	5.55	1.78 - 3.34	13.96 - 27.73
	Standard Deviation				2.89	0.00	3.36	4.64t	13.27t
	CV				2.97	0.0	3.41	5.2t	17.13t
	Levene's F				1.49	0.00	0.826	0.964	0.696
	Levene's Prob(F)				0.142	.	0.665	0.518	0.801
	Skewness				-2.1781*	.	-3.3668*	-6.5795*	-0.9372*
	Kurtosis				3.1543*	.	13.2673*	45.2577*	-0.3508
	Replicate F				0.078	0.000	3.704	0.651	1.703
	Replicate Prob(F)				0.9254	1.0000	0.0339	0.5275	0.1957
	Treatment F				11.002	0.000	1.069	0.948	2.263
	Treatment Prob(F)				0.0001	1.0000	0.4165	0.5356	0.0158

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 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	SETFA	ECHCG	AMBTR	AMARE				
Pest Scientific Name	Erigeron canad>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>				
Pest Name	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed				
Rating Date	Jun-13-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018				
Rating Type	count	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	2row mi	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	54 44	89 30	89 30	89 30	89 30				
Plant-Eval Interval	44 DP-1	79 DP-1	79 DP-1	79 DP-1	79 DP-1				
Days After Emergence	33 DE-1	68 DE-1	68 DE-1	68 DE-1	68 DE-1				
ARM Action Codes	AL		ER1						
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
1	Metribuzin	8 oz/a		A	0.3 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
2	Metribuzin	10 oz/a		A	0.8 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
3	Valor SX	2.5 oz/a		A	2.5 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
4	Spartan	5 oz/a		A	2.8 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
5	Sharpen	1.5 oz/a		A	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	MSO	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					

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Residual control options for marestalk - Enlist soybean

Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	ECHCG	AMBTR	AMARE
Pest Scientific Name	Erigeron canad>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>
Pest Name	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed
Rating Date	Jun-13-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	count	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	2row mi	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	54 44	89 30	89 30	89 30	89 30
Plant-Eval Interval	44 DP-1	79 DP-1	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	33 DE-1	68 DE-1	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes	AL		ER1		

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
6	Metribuzin	8 oz/a		A	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	MSO	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
7	Metribuzin	10 oz/a		A	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	MSO	0.6 qt/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
8	Valor SX	2.5 oz/a		A	0.4 -	100.0 -	100.0 -	100.0 -	100.0 -
	Metribuzin	8 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
9	Spartan	5 oz/a		A	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Metribuzin	8 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
10	Sonic	4 oz/a		A	1.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Metribuzin	8 oz/a		A					
	Enlist One	32 oz/a		A					
	Roundup Power Max	42.7 oz/a		A					
	N-pak ams	1.5 qt/a		A					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
11	Metribuzin	8 oz/a		B	2.4 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
12	Metribuzin	10 oz/a		B	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
13	Valor SX	2.5 oz/a		B	3.3 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					

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Residual control options for marestalk - Enlist soybean

Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	ECHCG	AMBTR	AMARE
Pest Scientific Name	Erigeron canad>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>
Pest Name	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed
Rating Date	Jun-13-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	count	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	2row mi	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	54 44	89 30	89 30	89 30	89 30
Plant-Eval Interval	44 DP-1	79 DP-1	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	33 DE-1	68 DE-1	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes	AL		ER1		

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
14	Spartan	5 oz/a		B		3.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
15	Sharpen	1.5 oz/a		B	1.7 -	100.0 -	100.0 -	100.0 -	100.0 -
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	MSO	0.6 qt/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
16	Metribuzin	8 oz/a		B	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	MSO	0.6 qt/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
17	Metribuzin	10 oz/a		B	0.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Sharpen	1.5 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	MSO	0.6 qt/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
18	Valor SX	2.5 oz/a		B	0.3 -	100.0 -	100.0 -	100.0 -	100.0 -
	Metribuzin	8 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					
19	Spartan	5 oz/a		B	2.0 -	100.0 -	100.0 -	100.0 -	100.0 -
	Metribuzin	8 oz/a		B					
	Enlist One	32 oz/a		B					
	Roundup Power Max	42.7 oz/a		B					
	N-pak ams	1.5 qt/a		B					
	Enlist Duo	3.75 pt/a		C					
	N-pak ams	1.5 qt/a		C					

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Residual control options for marestail - Enlist soybean

Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	ECHCG	AMBTR	AMARE
Pest Scientific Name	Erigeron canad>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>
Pest Name	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed
Rating Date	Jun-13-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	count	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	2row mi	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	54 44	89 30	89 30	89 30	89 30
Plant-Eval Interval	44 DP-1	79 DP-1	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	33 DE-1	68 DE-1	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes	AL		ER1		

Trt Treatment	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
20 Sonic	4 oz/a		B	1.0 -	100.0 -	100.0 -	100.0 -	100.0 -
Metribuzin	8 oz/a		B					
Enlist One	32 oz/a		B					
Roundup Power Max	42.7 oz/a		B					
N-pak ams	1.5 qt/a		B					
Enlist Duo	3.75 pt/a		C					
N-pak ams	1.5 qt/a		C					
LSD P=.05				3.09 - 3.19	.	.	.	.
Standard Deviation				0.33t	0.00	0.00	0.00	0.00
CV				132.06t	0.0	0.0	0.0	0.0
Levene's F				0.733	0.00		0.00	0.00
Levene's Prob(F)				0.764	.	.	.	.
Skewness				1.5101*	.	.	.	.
Kurtosis				1.3757*	.	.	.	.
Replicate F				5.997	0.000	0.000	0.000	0.000
Replicate Prob(F)				0.0054	1.0000	1.0000	1.0000	1.0000
Treatment F				1.620	0.000	0.000	0.000	0.000
Treatment Prob(F)				0.1011	1.0000	1.0000	1.0000	1.0000

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Residual control options for marestalk - Enlist soybean
 Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	ERICA	ERICA
Pest Scientific Name	Abutilon theop>	Erigeron canad>	Erigeron canad>
Pest Name	velvetleaf	Canada horsewe>	Canada horsewe>
Rating Date	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	CONTRO	CONTRO	count
Rating Unit	%	%	2 row mi
Number of Subsamples	1	1	1 1
Days After First/Last Applic.	89 30	89 30	89 30
Plant-Eval Interval	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes			

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14
1	Metribuzin	8 oz/a		A	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
2	Metribuzin	10 oz/a		A	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
3	Valor SX	2.5 oz/a		A	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
4	Spartan	5 oz/a		A	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
5	Sharpen	1.5 oz/a		A	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	MSO	0.6 qt/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				

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Residual control options for marestalk - Enlist soybean

Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	ERICA	ERICA
Pest Scientific Name	Abutilon theop>	Erigeron canad>	Erigeron canad>
Pest Name	velvetleaf	Canada horsewe>	Canada horsewe>
Rating Date	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	CONTRO	CONTRO	count
Rating Unit	%	%	2 row mi
Number of Subsamples	1	1	1
Days After First/Last Applic.	89 30	89 30	89 30
Plant-Eval Interval	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes			

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	11*	12*	13*	14
6	Metribuzin	8 oz/a		A	100.0 -	100.0 -	0.0 -	
	Sharpen	1.5 oz/a		A				
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	MSO	0.6 qt/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
7	Metribuzin	10 oz/a		A	100.0 -	100.0 -	0.0 -	
	Sharpen	1.5 oz/a		A				
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	MSO	0.6 qt/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
8	Valor SX	2.5 oz/a		A	100.0 -	100.0 -	0.0 -	
	Metribuzin	8 oz/a		A				
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
9	Spartan	5 oz/a		A	100.0 -	100.0 -	0.0 -	
	Metribuzin	8 oz/a		A				
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
10	Sonic	4 oz/a		A	100.0 -	100.0 -	0.0 -	
	Metribuzin	8 oz/a		A				
	Enlist One	32 oz/a		A				
	Roundup Power Max	42.7 oz/a		A				
	N-pak ams	1.5 qt/a		A				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
11	Metribuzin	8 oz/a		B	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
12	Metribuzin	10 oz/a		B	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
13	Valor SX	2.5 oz/a		B	100.0 -	100.0 -	0.0 -	
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				

The Ohio State University

Residual control options for marestalk - Enlist soybean

Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	ERICA	ERICA
Pest Scientific Name	Abutilon theop>	Erigeron canad>	Erigeron canad>
Pest Name	velvetleaf	Canada horsewe>	Canada horsewe>
Rating Date	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	CONTRO	CONTRO	count
Rating Unit	%	%	2 row mi
Number of Subsamples	1	1	1
Days After First/Last Applic.	89 30	89 30	89 30
Plant-Eval Interval	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes			

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	11*	12*	13*	14
14	Spartan	5 oz/a		B	100.0 -	100.0 -		0.0 -
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
15	Sharpen	1.5 oz/a		B	100.0 -	100.0 -		0.0 -
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	MSO	0.6 qt/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
16	Metribuzin	8 oz/a		B	100.0 -	100.0 -		0.0 -
	Sharpen	1.5 oz/a		B				
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	MSO	0.6 qt/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
17	Metribuzin	10 oz/a		B	100.0 -	100.0 -		0.0 -
	Sharpen	1.5 oz/a		B				
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	MSO	0.6 qt/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
18	Valor SX	2.5 oz/a		B	100.0 -	100.0 -		0.0 -
	Metribuzin	8 oz/a		B				
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
19	Spartan	5 oz/a		B	100.0 -	100.0 -		0.0 -
	Metribuzin	8 oz/a		B				
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				

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Residual control options for marestail - Enlist soybean
 Trial ID: 18 ENLISTRESIDUAL Location: G-8 West End Trial Year: 2018
 Protocol ID: 18 ENLISTRESIDUAL Investigator: Dr. Mark M. Loux
 Project ID: OSU/CORTEVA Study Director: Bryan Reeb
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	ERICA	ERICA
Pest Scientific Name	Abutilon theop>	Erigeron canad>	Erigeron canad>
Pest Name	velvetleaf	Canada horsewe>	Canada horsewe>
Rating Date	Jul-18-2018	Jul-18-2018	Jul-18-2018
Rating Type	CONTRO	CONTRO	count
Rating Unit	%	%	2 row mi
Number of Subsamples	1	1	1 1
Days After First/Last Applic.	89 30	89 30	89 30
Plant-Eval Interval	79 DP-1	79 DP-1	79 DP-1
Days After Emergence	68 DE-1	68 DE-1	68 DE-1
ARM Action Codes			

Trt	Treatment	Other	Other	Appl				
No.	Name	Rate	Rate	Unit Code	11*	12*	13*	14
20	Sonic	4 oz/a		B	100.0 -	100.0 -		0.0 -
	Metribuzin	8 oz/a		B				
	Enlist One	32 oz/a		B				
	Roundup Power Max	42.7 oz/a		B				
	N-pak ams	1.5 qt/a		B				
	Enlist Duo	3.75 pt/a		C				
	N-pak ams	1.5 qt/a		C				
LSD	P=.05				.	.	.	.
Standard Deviation					0.00	0.00	0.00	.
CV					0.0	0.0	0.0	.
Levene's F					0.00	0.00	0.00	.
Levene's Prob(F)					.	.	.	.
Skewness					.	.	.	.
Kurtosis					.	.	.	.
Replicate F					0.000	0.000	0.000	
Replicate Prob(F)					1.0000	1.0000	1.0000	
Treatment F					0.000	0.000	0.000	
Treatment Prob(F)					1.0000	1.0000	1.0000	

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Pest Type

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

Pest Code

LAMPU, Lamium purpureum, Purple deadnettle = US
 STEME, Stellaria media, Common chickweed = US
 SENGL, Packera glabella, Cressleaf groundsel = US
 RANAB, Ranunculus abortivus, Smallflower buttercup = US
 ERICA, Erigeron canadensis, Canada horseweed = US
 SETFA, Setaria faberi, Giant foxtail = US
 ECHCG, Echinochloa crus-galli, Common barnyard grass = US
 AMBTR, Ambrosia trifida, Giant ragweed = US
 AMARE, Amaranthus retroflexus, Redroot pigweed = US
 ABUTH, Abutilon theophrasti, velvetleaf = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

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

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

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

ARM Action Codes

ET13 = Excluded treatment 13

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

ER1 = Excluded replicate 1