

The Ohio State University

Evaluate soybean herbicide programs at universities for control of resistant weeds especially marestail and ragweed species - No-Till

Trial ID: 17 NTLIB Location: F-10 West end Trial Year: 2017
 Protocol ID: 17 NTLIB Investigator: Dr. Mark M. Loux
 Project ID: US111/17/01 Study Director: Bryan Reeb
 Sponsor Contact: Marsha Martin, DuPont

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 °: 39.85872 N
Longitude of LL Corner °: 83.67241 W
Altitude of LL Corner, Unit: 1059.00 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: Seed Consultants 3357 LL
Description: Liberty Link

Planting Rate, Unit: 175000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Moisture: GOOD good
Seed Bed: NOTILL

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

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Pest Description

- Pest 1 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettle
- Pest 2 Type:** W **Code:** ERICA *Erigeron canadensis*
Common Name: Canada horseweed
- Pest 3 Type:** W **Code:** STEME *Stellaria media*
Common Name: Common chickweed
- Pest 4 Type:** W **Code:** ERYRE *Erysimum repandum*
Common Name: Bushy wallflower
- Pest 5 Type:** W **Code:** TARSS *Taraxacum sp.*
Common Name: Dandelion
- Pest 6 Type:** W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel
- Pest 7 Type:** W **Code:** CARPE *Cardamine pensylvanica*
Common Name: Pennsylvania bittercress
- Pest 8 Type:** W **Code:** BROTE *Anisantha tectorum*
Common Name: Downy brome
- Pest 9 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest10 Type:** W **Code:** TRZAW *Triticum aestivum*
Common Name: Winter wheat
- Pest11 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Site and Design

Treated Plot Width: 10 FT	Site Type: FIELD field
Treated Plot Length: 30 FT	Experimental Unit: 1 PLOT plot
Treated Plot Area: 300 FT ²	Tillage Type: NOTILL no-till
Treatments: 12	Study Design: RACOB L Randomized Complete Block (RCB)
Replications: 3	

Soil Description

Description Name: F-10 West	Texture: SIL silt loam
% OM: 1.5	Soil Name: Crosby Silt Loam
pH: 5.8	Fert. Level: G good
CEC: 13	Soil Drainage: G good

Application Description

	A	B
Application Date:	Apr-17-2017	Jun-12-2017
Appl. Start Time:	10:00 AM	10:04 AM
Appl. Stop Time:	10:30 AM	10:20 AM
Application Method:	SPRAY	SPRAY
Application Timing:	14 EPP	
Application Placement:	BROSOI	BROFOL
Applied By:	LOUX	REEB
Air Temperature, Unit:	66.9 F	81 F
% Relative Humidity:	41	55
Wind Velocity, Unit:	4.5 MPH	4 MPH
Wind Direction:	ENE	ENE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	57 F	72 F
Soil Moisture:	GOOD	DRY
% Cloud Cover:	20	30
Next Moisture Occurred On:	Apr-20-2017	Jun-13-2017
Time to Next Moisture, Unit:	3 DAY	1 DAY

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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:		4.5 IN
Height Minimum, Maximum:		4 5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	65 100	
Diameter, Unit:	4 IN	
Height, Unit:	3.5 IN	
Height Minimum, Maximum:	3 4	
Density, Unit:	1 m2	
Pest 2 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	19 100	30 100
Diameter, Unit:	2.5 IN	
Height, Unit:	2 IN	15 IN
Height Minimum, Maximum:	1 3	10 23
Density, Unit:	68 m2	
Pest 3 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	65 100	
Diameter, Unit:	9 IN	
Height, Unit:	3.5 IN	
Height Minimum, Maximum:	3 4	
Density, Unit:	1 m2	
Pest 4 Code, Type, Scale:	ERYRE W	ERYRE W
Stage Majority, Percent:	65 100	
Height, Unit:	10 IN	
Height Minimum, Maximum:	8 14	
Density, Unit:	31 m2	
Pest 5 Code, Type, Scale:	TARSS W	TARSS W
Stage Majority, Percent:	65 100	67 100
Diameter, Unit:	10 IN	9 IN
Height, Unit:	2.5 IN	7 IN
Height Minimum, Maximum:	2 3	
Density, Unit:	1 m2	
Pest 6 Code, Type, Scale:	SENGL W	SENGL W
Stage Majority, Percent:	65 100	65 100
Height, Unit:	7 IN	
Height Minimum, Maximum:	5 8	
Density, Unit:	16 m2	
Pest 7 Code, Type, Scale:	CARPE W	CARPE W
Stage Majority, Percent:	69 100	
Height, Unit:	4 IN	
Height Minimum, Maximum:	3 4	
Density, Unit:	1 m2	
Pest 8 Code, Type, Scale:	BROTE W	BROTE W
Stage Majority, Percent:	23 100	
Height, Unit:	6 IN	
Height Minimum, Maximum:	4 8	
Density, Unit:	1 m2	
Pest 9 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		13 100
Height, Unit:		4 IN
Height Minimum, Maximum:		3 5
Pest10 Code, Type, Scale:	TRZAW W	TRZAW W
Stage Majority, Percent:		79 100
Height, Unit:		20 IN
Height Minimum, Maximum:		14 26
Pest11 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		21 100
Height, Unit:		14 IN
Height Minimum, Maximum:		14 15

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Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	10' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	50 PSI	44 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	6
Boom Length, Unit:	6.67 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 liters	2 liters
Propellant:	COMCO2	COMCO2

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- No-Till

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 Project ID: US111/17/01 Study Director: Bryan Reeb
 Sponsor Contact: Marsha Martin, DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERYRE	SENGL	VERAG
Pest Name	Purple deadnet>	Common chickwe>	Bushy wallflow>	Cressleaf grou>	Field speedwell
Rating Date	May-1-2017	May-1-2017	May-1-2017	May-1-2017	May-1-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	-28 DE-1	-28 DE-1	-28 DE-1	-28 DE-1	-28 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	Trivence @ 8 oz				100.0 a	100.0 a	98.3 a	100.0 a	100.0 a
	1 Classic	1.25 oz/a		A					
	1 Valor SX	2 oz/a		A					
	1 Metribuzin	4.76 oz/a		A					
	1 2,4-D Ester	2 pt/a		A					
	1 Roundup Power Max	22 oz/a		A					
	1 N-pak ams	1.8 qt/a		A					
	1 Liberty	29 oz/a		B					
	1 Cinch	1 pt/a		B					
	1 N-pak ams	1.8 qt/a		B					
2	Trivence @ 8 oz				100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
	2 Classic	1.25 oz/a		A					
	2 Valor SX	2 oz/a		A					
	2 Metribuzin	4.76 oz/a		A					
	2 Zidua WG	1.5 oz/a		A					
	2 2,4-D Ester	2 pt/a		A					
	2 Roundup Power Max	22 oz/a		A					
	2 N-pak ams	1.8 qt/a		A					
	2 Liberty	29 oz/a		B					
	2 Cinch	1 pt/a		B					
	2 N-pak ams	1.8 qt/a		B					
3	Canopy	4 oz/a		A	100.0 a	100.0 a	96.7 a	91.7 ab	100.0 a
	3 2,4-D Ester	2 pt/a		A					
	3 Roundup Power Max	22 oz/a		A					
	3 N-pak ams	1.8 qt/a		A					
	3 Liberty	29 oz/a		B					
	3 Cinch	1 pt/a		B					
	3 N-pak ams	1.8 qt/a		B					
4	Canopy	4 oz/a		A	100.0 a	100.0 a	93.3 a	78.3 b	100.0 a
	4 Metribuzin	4 oz/a		A					
	4 2,4-D Ester	2 pt/a		A					
	4 Roundup Power Max	22 oz/a		A					
	4 N-pak ams	1.8 qt/a		A					
	4 Liberty	29 oz/a		B					
	4 Cinch	1 pt/a		B					
	4 N-pak ams	1.8 qt/a		B					

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,13
 Could not calculate LSD (% mean diff) for columns 1,2,10,12 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERYRE	SENGL	VERAG
Pest Name	Purple deadnet>	Common chickwe>	Bushy wallflow>	Cressleaf grou>	Field speedwell
Rating Date	May-1-2017	May-1-2017	May-1-2017	May-1-2017	May-1-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	-28 DE-1	-28 DE-1	-28 DE-1	-28 DE-1	-28 DE-1

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
5 Canopy	4 oz/a		A	100.0 a	100.0 a	96.7 a	88.3 ab	100.0 a
5 Cinch	1 pt/a		A					
5 2,4-D Ester	2 pt/a		A					
5 Roundup Power Max	22 oz/a		A					
5 N-pak ams	1.8 qt/a		A					
5 Liberty	29 oz/a		B					
5 Cinch	1 pt/a		B					
5 N-pak ams	1.8 qt/a		B					
6 Canopy	2.25 oz/a		A	100.0 a	100.0 a	93.3 a	96.7 a	96.7 a
6 2,4-D Ester	2 pt/a		A					
6 Roundup Power Max	22 oz/a		A					
6 N-pak ams	1.8 qt/a		A					
6 Liberty	29 oz/a		B					
6 Cinch	1 pt/a		B					
6 N-pak ams	1.8 qt/a		B					
7 Canopy	2.25 oz/a		A	100.0 a	100.0 a	96.7 a	86.7 ab	100.0 a
7 Metribuzin	6 oz/a		A					
7 2,4-D Ester	2 pt/a		A					
7 Roundup Power Max	22 oz/a		A					
7 N-pak ams	1.8 qt/a		A					
7 Liberty	29 oz/a		B					
7 Cinch	1 pt/a		B					
7 N-pak ams	1.8 qt/a		B					
8 Canopy	2.25 oz/a		A	100.0 a	100.0 a	96.7 a	86.7 ab	100.0 a
8 Cinch	1 pt/a		A					
8 2,4-D Ester	2 pt/a		A					
8 Roundup Power Max	22 oz/a		A					
8 N-pak ams	1.8 qt/a		A					
8 Liberty	29 oz/a		B					
8 Cinch	1 pt/a		B					
8 N-pak ams	1.8 qt/a		B					
9 Envive @ 2.5 oz				100.0 a	100.0 a	100.0 a	100.0 a	96.7 a
9 Classic	0.92 oz/a		A					
9 Valor SX	1.4 oz/a		A					
9 Thifensulfuron	0.14 oz/a		A					
9 Metribuzin	4 oz/a		A					
9 2,4-D Ester	2 pt/a		A					
9 Roundup Power Max	22 oz/a		A					
9 N-pak ams	1.8 qt/a		A					
9 Liberty	29 oz/a		B					
9 Cinch	1 pt/a		B					
9 N-pak ams	1.8 qt/a		B					

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Pest Code	LAMPU	STEME	ERYRE	SENGL	VERAG			
Pest Name	Purple deadnet>	Common chickwe>	Bushy wallflow>	Cressleaf grou>	Field speedwell			
Rating Date	May-1-2017	May-1-2017	May-1-2017	May-1-2017	May-1-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A			
Days After Emergence	-28 DE-1	-28 DE-1	-28 DE-1	-28 DE-1	-28 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
10 Envive @ 3.5 oz				100.0 a	100.0 a	100.0 a	100.0 a	98.3 a
10 Classic	1.28 oz/a		A					
10 Valor SX	1.96 oz/a		A					
10 Thifensulfuron	0.208 oz/a		A					
10 2,4-D Ester	2 pt/a		A					
10 Roundup Power Max	22 oz/a		A					
10 N-pak ams	1.8 qt/a		A					
10 Liberty	29 oz/a		B					
10 Cinch	1 pt/a		B					
10 N-pak ams	1.8 qt/a		B					
11 Boundary	1.5 pt/a		A	100.0 a	100.0 a	96.7 a	88.3 ab	100.0 a
11 2,4-D Ester	2 pt/a		A					
11 Roundup Power Max	22 oz/a		A					
11 N-pak ams	1.8 qt/a		A					
11 Liberty	29 oz/a		B					
11 Cinch	1 pt/a		B					
11 N-pak ams	1.8 qt/a		B					
12 UTC				0.0 b	0.0 b	0.0 b	0.0 c	0.0 b
LSD P=.05				.	.	7.21	13.74	3.88
Standard Deviation				0.00	0.00	4.26	8.11	2.29
CV				0.0	0.0	4.78	9.58	2.52
Bartlett's X2				0.0	0.0	1.079	3.593	1.009
P(Bartlett's X2)				.	.	0.993	0.732	0.604
Replicate F				0.000	0.000	2.338	0.517	3.313
Replicate Prob(F)				1.0000	1.0000	0.1200	0.6035	0.0552
Treatment F				0.000	0.000	130.993	34.696	470.880
Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	0.0001

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Pest Type			W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code			BROTE	TARSS	ERICA	ERICA	AMBTR	
Pest Name			Downy brome	Dandelion	Canada horsewe>	Canada horsewe>	Giant ragweed	
Rating Date			May-1-2017	May-1-2017	May-1-2017	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.			14 14	14 14	14 14	29 29	29 29	
Trt-Eval Interval			14 DA-A	14 DA-A	14 DA-A	29 DA-A	29 DA-A	
Days After Emergence			-28 DE-1	-28 DE-1	-28 DE-1	-13 DE-1	-13 DE-1	
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	6	7	8	9	
							10	
1 Trivence @ 8 oz				65.0 abc	89.0 a	83.3 abc	96.0 ab	100.0 a
1 Classic	1.25 oz/a		A					
1 Valor SX	2 oz/a		A					
1 Metribuzin	4.76 oz/a		A					
1 2,4-D Ester	2 pt/a		A					
1 Roundup Power Max	22 oz/a		A					
1 N-pak ams	1.8 qt/a		A					
1 Liberty	29 oz/a		B					
1 Cinch	1 pt/a		B					
1 N-pak ams	1.8 qt/a		B					
2 Trivence @ 8 oz				100.0 a	82.5 ab	91.7 a	95.0 ab	100.0 a
2 Classic	1.25 oz/a		A					
2 Valor SX	2 oz/a		A					
2 Metribuzin	4.76 oz/a		A					
2 Zidua WG	1.5 oz/a		A					
2 2,4-D Ester	2 pt/a		A					
2 Roundup Power Max	22 oz/a		A					
2 N-pak ams	1.8 qt/a		A					
2 Liberty	29 oz/a		B					
2 Cinch	1 pt/a		B					
2 N-pak ams	1.8 qt/a		B					
3 Canopy	4 oz/a		A	80.0 ab	55.0 d	70.0 bc	90.0 ab	100.0 a
3 2,4-D Ester	2 pt/a		A					
3 Roundup Power Max	22 oz/a		A					
3 N-pak ams	1.8 qt/a		A					
3 Liberty	29 oz/a		B					
3 Cinch	1 pt/a		B					
3 N-pak ams	1.8 qt/a		B					
4 Canopy	4 oz/a		A	40.0 bcd	43.3 d	68.3 bc	90.0 ab	100.0 a
4 Metribuzin	4 oz/a		A					
4 2,4-D Ester	2 pt/a		A					
4 Roundup Power Max	22 oz/a		A					
4 N-pak ams	1.8 qt/a		A					
4 Liberty	29 oz/a		B					
4 Cinch	1 pt/a		B					
4 N-pak ams	1.8 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	BROTE	TARSS	ERICA	ERICA	AMBTR
Pest Name	Downy brome	Dandelion	Canada horsewe>	Canada horsewe>	Giant ragweed
Rating Date	May-1-2017	May-1-2017	May-1-2017	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.	14 14	14 14	14 14	29 29	29 29
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	29 DA-A	29 DA-A
Days After Emergence	-28 DE-1	-28 DE-1	-28 DE-1	-13 DE-1	-13 DE-1

Trt Treatment	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
5 Canopy	4 oz/a		A	43.3 bcd	50.0 d	71.7 abc	96.0 ab	100.0 a
5 Cinch	1 pt/a		A					
5 2,4-D Ester	2 pt/a		A					
5 Roundup Power Max	22 oz/a		A					
5 N-pak ams	1.8 qt/a		A					
5 Liberty	29 oz/a		B					
5 Cinch	1 pt/a		B					
5 N-pak ams	1.8 qt/a		B					
6 Canopy	2.25 oz/a		A	100.0 a	40.0 d	68.3 bc	93.3 ab	100.0 a
6 2,4-D Ester	2 pt/a		A					
6 Roundup Power Max	22 oz/a		A					
6 N-pak ams	1.8 qt/a		A					
6 Liberty	29 oz/a		B					
6 Cinch	1 pt/a		B					
6 N-pak ams	1.8 qt/a		B					
7 Canopy	2.25 oz/a		A	60.0 abc	57.5 cd	88.3 ab	100.0 a	100.0 a
7 Metribuzin	6 oz/a		A					
7 2,4-D Ester	2 pt/a		A					
7 Roundup Power Max	22 oz/a		A					
7 N-pak ams	1.8 qt/a		A					
7 Liberty	29 oz/a		B					
7 Cinch	1 pt/a		B					
7 N-pak ams	1.8 qt/a		B					
8 Canopy	2.25 oz/a		A	70.0 abc	63.3 bcd	66.7 c	93.3 ab	100.0 a
8 Cinch	1 pt/a		A					
8 2,4-D Ester	2 pt/a		A					
8 Roundup Power Max	22 oz/a		A					
8 N-pak ams	1.8 qt/a		A					
8 Liberty	29 oz/a		B					
8 Cinch	1 pt/a		B					
8 N-pak ams	1.8 qt/a		B					
9 Envive @ 2.5 oz				45.0 bcd	55.0 d	71.7 abc	75.0 c	100.0 a
9 Classic	0.92 oz/a		A					
9 Valor SX	1.4 oz/a		A					
9 Thifensulfuron	0.14 oz/a		A					
9 Metribuzin	4 oz/a		A					
9 2,4-D Ester	2 pt/a		A					
9 Roundup Power Max	22 oz/a		A					
9 N-pak ams	1.8 qt/a		A					
9 Liberty	29 oz/a		B					
9 Cinch	1 pt/a		B					
9 N-pak ams	1.8 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	BROTE	TARSS	ERICA	ERICA	AMBTR			
Pest Name	Downy brome	Dandelion	Canada horsewe>	Canada horsewe>	Giant ragweed			
Rating Date	May-1-2017	May-1-2017	May-1-2017	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.	14 14	14 14	14 14	29 29	29 29			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	29 DA-A	29 DA-A			
Days After Emergence	-28 DE-1	-28 DE-1	-28 DE-1	-13 DE-1	-13 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
10 Envive @ 3.5 oz				67.5 abc	80.0 abc	81.7 abc	89.3 b	100.0 a
10 Classic	1.28 oz/a		A					
10 Valor SX	1.96 oz/a		A					
10 Thifensulfuron	0.208 oz/a		A					
10 2,4-D Ester	2 pt/a		A					
10 Roundup Power Max	22 oz/a		A					
10 N-pak ams	1.8 qt/a		A					
10 Liberty	29 oz/a		B					
10 Cinch	1 pt/a		B					
10 N-pak ams	1.8 qt/a		B					
11 Boundary	1.5 pt/a		A	30.0 cd	50.0 d	66.7 c	85.7 b	100.0 a
11 2,4-D Ester	2 pt/a		A					
11 Roundup Power Max	22 oz/a		A					
11 N-pak ams	1.8 qt/a		A					
11 Liberty	29 oz/a		B					
11 Cinch	1 pt/a		B					
11 N-pak ams	1.8 qt/a		B					
12 UTC				0.0 d	0.0 e	0.0 d	0.0 d	0.0 b
LSD P=.05				45.35	23.70	21.53	10.54	.
Standard Deviation				24.93	13.19	12.72	6.23	0.00
CV				42.68	23.78	18.42	7.44	0.0
Bartlett's X2				5.917	4.4	4.155	3.457	0.0
P(Bartlett's X2)				0.314	0.733	0.94	0.943	.
Replicate F				0.213	0.307	2.968	5.129	0.000
Replicate Prob(F)				0.8116	0.7419	0.0723	0.0148	1.0000
Treatment F				4.017	9.479	10.191	56.823	0.000
Treatment Prob(F)				0.0184	0.0004	0.0001	0.0001	1.0000

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 Missing data estimates are included in columns: Average=6,7,13
 Could not calculate LSD (% mean diff) for columns 1,2,10,12 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	O Other	W Weed			
Pest Code	ERYRE	SENGL	BROTE		SETFA			
Pest Name	Bushy wallflow>	Cressleaf grou>	Downy brome		Giant foxtail			
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-30-2017	May-30-2017			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	29 29	29 29	29 29	43 43	43 43			
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	43 DA-A	43 DA-A			
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	1 DE-1	1 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	11	12	13	14	15
1 Trivence @ 8 oz				100.0 a	100.0 a	85.0 a	1.0 a	46.7 a
1 Classic	1.25 oz/a		A					
1 Valor SX	2 oz/a		A					
1 Metribuzin	4.76 oz/a		A					
1 2,4-D Ester	2 pt/a		A					
1 Roundup Power Max	22 oz/a		A					
1 N-pak ams	1.8 qt/a		A					
1 Liberty	29 oz/a		B					
1 Cinch	1 pt/a		B					
1 N-pak ams	1.8 qt/a		B					
2 Trivence @ 8 oz				100.0 a	100.0 a	83.5 a	1.0 a	73.3 a
2 Classic	1.25 oz/a		A					
2 Valor SX	2 oz/a		A					
2 Metribuzin	4.76 oz/a		A					
2 Zidua WG	1.5 oz/a		A					
2 2,4-D Ester	2 pt/a		A					
2 Roundup Power Max	22 oz/a		A					
2 N-pak ams	1.8 qt/a		A					
2 Liberty	29 oz/a		B					
2 Cinch	1 pt/a		B					
2 N-pak ams	1.8 qt/a		B					
3 Canopy	4 oz/a		A	98.3 a	100.0 a	100.0 a	0.0 a	26.7 a
3 2,4-D Ester	2 pt/a		A					
3 Roundup Power Max	22 oz/a		A					
3 N-pak ams	1.8 qt/a		A					
3 Liberty	29 oz/a		B					
3 Cinch	1 pt/a		B					
3 N-pak ams	1.8 qt/a		B					
4 Canopy	4 oz/a		A	100.0 a	100.0 a	80.0 a	0.0 a	13.3 a
4 Metribuzin	4 oz/a		A					
4 2,4-D Ester	2 pt/a		A					
4 Roundup Power Max	22 oz/a		A					
4 N-pak ams	1.8 qt/a		A					
4 Liberty	29 oz/a		B					
4 Cinch	1 pt/a		B					
4 N-pak ams	1.8 qt/a		B					

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	O Other	W Weed
Pest Code	ERYRE	SENGL	BROTE		SETFA
Pest Name	Bushy wallflow>	Cressleaf grou>	Downy brome		Giant foxtail
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-30-2017	May-30-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	29 29	29 29	29 29	43 43	43 43
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	43 DA-A	43 DA-A
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	1 DE-1	1 DE-1

Trt Treatment	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
5 Canopy	4 oz/a		A	100.0 a	100.0 a	80.0 a	1.0 a	36.7 a
5 Cinch	1 pt/a		A					
5 2,4-D Ester	2 pt/a		A					
5 Roundup Power Max	22 oz/a		A					
5 N-pak ams	1.8 qt/a		A					
5 Liberty	29 oz/a		B					
5 Cinch	1 pt/a		B					
5 N-pak ams	1.8 qt/a		B					
6 Canopy	2.25 oz/a		A	96.7 a	100.0 a	100.0 a	0.0 a	23.3 a
6 2,4-D Ester	2 pt/a		A					
6 Roundup Power Max	22 oz/a		A					
6 N-pak ams	1.8 qt/a		A					
6 Liberty	29 oz/a		B					
6 Cinch	1 pt/a		B					
6 N-pak ams	1.8 qt/a		B					
7 Canopy	2.25 oz/a		A	100.0 a	100.0 a	80.0 a	1.7 a	10.0 a
7 Metribuzin	6 oz/a		A					
7 2,4-D Ester	2 pt/a		A					
7 Roundup Power Max	22 oz/a		A					
7 N-pak ams	1.8 qt/a		A					
7 Liberty	29 oz/a		B					
7 Cinch	1 pt/a		B					
7 N-pak ams	1.8 qt/a		B					
8 Canopy	2.25 oz/a		A	96.7 a	100.0 a	100.0 a	2.7 a	26.7 a
8 Cinch	1 pt/a		A					
8 2,4-D Ester	2 pt/a		A					
8 Roundup Power Max	22 oz/a		A					
8 N-pak ams	1.8 qt/a		A					
8 Liberty	29 oz/a		B					
8 Cinch	1 pt/a		B					
8 N-pak ams	1.8 qt/a		B					
9 Envive @ 2.5 oz				100.0 a	100.0 a	90.0 a	0.0 a	36.7 a
9 Classic	0.92 oz/a		A					
9 Valor SX	1.4 oz/a		A					
9 Thifensulfuron	0.14 oz/a		A					
9 Metribuzin	4 oz/a		A					
9 2,4-D Ester	2 pt/a		A					
9 Roundup Power Max	22 oz/a		A					
9 N-pak ams	1.8 qt/a		A					
9 Liberty	29 oz/a		B					
9 Cinch	1 pt/a		B					
9 N-pak ams	1.8 qt/a		B					

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	O Other	W Weed			
Pest Code	ERYRE	SENGL	BROTE		SETFA			
Pest Name	Bushy wallflow>	Cressleaf grou>	Downy brome		Giant foxtail			
Rating Date	May-16-2017	May-16-2017	May-16-2017	May-30-2017	May-30-2017			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	29 29	29 29	29 29	43 43	43 43			
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	43 DA-A	43 DA-A			
Days After Emergence	-13 DE-1	-13 DE-1	-13 DE-1	1 DE-1	1 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
10 Envive @ 3.5 oz				100.0 a	100.0 a	96.7 a	2.7 a	43.3 a
10 Classic	1.28 oz/a		A					
10 Valor SX	1.96 oz/a		A					
10 Thifensulfuron	0.208 oz/a		A					
10 2,4-D Ester	2 pt/a		A					
10 Roundup Power Max	22 oz/a		A					
10 N-pak ams	1.8 qt/a		A					
10 Liberty	29 oz/a		B					
10 Cinch	1 pt/a		B					
10 N-pak ams	1.8 qt/a		B					
11 Boundary	1.5 pt/a		A	93.3 a	100.0 a	85.0 a	3.3 a	16.7 a
11 2,4-D Ester	2 pt/a		A					
11 Roundup Power Max	22 oz/a		A					
11 N-pak ams	1.8 qt/a		A					
11 Liberty	29 oz/a		B					
11 Cinch	1 pt/a		B					
11 N-pak ams	1.8 qt/a		B					
12 UTC				0.0 b	0.0 b	0.0 b	0.0 a	0.0 a
LSD P=.05				7.11	.	22.01	3.00	44.84
Standard Deviation				4.20	0.00	12.57	1.77	26.48
CV				4.64	0.0	15.38	159.32	89.94
Bartlett's X2				3.394	0.0	4.371	1.232	3.708
P(Bartlett's X2)				0.335	.	0.736	0.975	0.96
Replicate F				0.828	0.000	0.857	1.232	0.170
Replicate Prob(F)				0.4501	1.0000	0.4457	0.3110	0.8445
Treatment F				138.849	0.000	13.828	1.418	1.649
Treatment Prob(F)				0.0001	1.0000	0.0001	0.2332	0.1530

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	ERICA	SENGL	TARSS	SETFA				
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Dandelion	Giant foxtail				
Rating Date	May-30-2017	May-30-2017	May-30-2017	May-30-2017	Jul-7-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	43 43	43 43	43 43	43 43	81 25				
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A					
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1	39 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
1	Trivence @ 8 oz				60.0 a	78.3 ab	100.0 a	95.0 a	88.7 a
1	Classic	1.25 oz/a		A					
1	Valor SX	2 oz/a		A					
1	Metribuzin	4.76 oz/a		A					
1	2,4-D Ester	2 pt/a		A					
1	Roundup Power Max	22 oz/a		A					
1	N-pak ams	1.8 qt/a		A					
1	Liberty	29 oz/a		B					
1	Cinch	1 pt/a		B					
1	N-pak ams	1.8 qt/a		B					
2	Trivence @ 8 oz				68.3 a	76.7 b	100.0 a	98.3 a	92.0 a
2	Classic	1.25 oz/a		A					
2	Valor SX	2 oz/a		A					
2	Metribuzin	4.76 oz/a		A					
2	Zidua WG	1.5 oz/a		A					
2	2,4-D Ester	2 pt/a		A					
2	Roundup Power Max	22 oz/a		A					
2	N-pak ams	1.8 qt/a		A					
2	Liberty	29 oz/a		B					
2	Cinch	1 pt/a		B					
2	N-pak ams	1.8 qt/a		B					
3	Canopy	4 oz/a		A	56.7 a	78.3 ab	100.0 a	88.3 a	92.0 a
3	2,4-D Ester	2 pt/a		A					
3	Roundup Power Max	22 oz/a		A					
3	N-pak ams	1.8 qt/a		A					
3	Liberty	29 oz/a		B					
3	Cinch	1 pt/a		B					
3	N-pak ams	1.8 qt/a		B					
4	Canopy	4 oz/a		A	66.7 a	80.0 ab	100.0 a	73.3 a	85.0 a
4	Metribuzin	4 oz/a		A					
4	2,4-D Ester	2 pt/a		A					
4	Roundup Power Max	22 oz/a		A					
4	N-pak ams	1.8 qt/a		A					
4	Liberty	29 oz/a		B					
4	Cinch	1 pt/a		B					
4	N-pak ams	1.8 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	AMBTR	ERICA	SENGL	TARSS	SETFA
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Dandelion	Giant foxtail
Rating Date	May-30-2017	May-30-2017	May-30-2017	May-30-2017	Jul-7-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	43 43	43 43	43 43	43 43	81 25
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1	39 DE-1

Trt Treatment	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
5 Canopy	4 oz/a		A	43.3 a	83.3 ab	100.0 a	90.0 a	86.7 a
5 Cinch	1 pt/a		A					
5 2,4-D Ester	2 pt/a		A					
5 Roundup Power Max	22 oz/a		A					
5 N-pak ams	1.8 qt/a		A					
5 Liberty	29 oz/a		B					
5 Cinch	1 pt/a		B					
5 N-pak ams	1.8 qt/a		B					
6 Canopy	2.25 oz/a		A	51.7 a	73.3 b	100.0 a	90.0 a	79.3 a
6 2,4-D Ester	2 pt/a		A					
6 Roundup Power Max	22 oz/a		A					
6 N-pak ams	1.8 qt/a		A					
6 Liberty	29 oz/a		B					
6 Cinch	1 pt/a		B					
6 N-pak ams	1.8 qt/a		B					
7 Canopy	2.25 oz/a		A	63.3 a	93.3 a	100.0 a	78.3 a	71.7 a
7 Metribuzin	6 oz/a		A					
7 2,4-D Ester	2 pt/a		A					
7 Roundup Power Max	22 oz/a		A					
7 N-pak ams	1.8 qt/a		A					
7 Liberty	29 oz/a		B					
7 Cinch	1 pt/a		B					
7 N-pak ams	1.8 qt/a		B					
8 Canopy	2.25 oz/a		A	66.7 a	81.7 ab	100.0 a	90.0 a	85.0 a
8 Cinch	1 pt/a		A					
8 2,4-D Ester	2 pt/a		A					
8 Roundup Power Max	22 oz/a		A					
8 N-pak ams	1.8 qt/a		A					
8 Liberty	29 oz/a		B					
8 Cinch	1 pt/a		B					
8 N-pak ams	1.8 qt/a		B					
9 Envive @ 2.5 oz				53.3 a	56.7 c	100.0 a	76.7 a	83.3 a
9 Classic	0.92 oz/a		A					
9 Valor SX	1.4 oz/a		A					
9 Thifensulfuron	0.14 oz/a		A					
9 Metribuzin	4 oz/a		A					
9 2,4-D Ester	2 pt/a		A					
9 Roundup Power Max	22 oz/a		A					
9 N-pak ams	1.8 qt/a		A					
9 Liberty	29 oz/a		B					
9 Cinch	1 pt/a		B					
9 N-pak ams	1.8 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	ERICA	SENGL	TARSS	SETFA			
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Dandelion	Giant foxtail			
Rating Date	May-30-2017	May-30-2017	May-30-2017	May-30-2017	Jul-7-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	43 43	43 43	43 43	43 43	81 25			
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A				
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1	39 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
10 Envive @ 3.5 oz				60.0 a	86.7 ab	100.0 a	96.7 a	79.3 a
10 Classic	1.28 oz/a		A					
10 Valor SX	1.96 oz/a		A					
10 Thifensulfuron	0.208 oz/a		A					
10 2,4-D Ester	2 pt/a		A					
10 Roundup Power Max	22 oz/a		A					
10 N-pak ams	1.8 qt/a		A					
10 Liberty	29 oz/a		B					
10 Cinch	1 pt/a		B					
10 N-pak ams	1.8 qt/a		B					
11 Boundary	1.5 pt/a		A	55.0 a	80.0 ab	96.7 b	90.0 a	79.3 a
11 2,4-D Ester	2 pt/a		A					
11 Roundup Power Max	22 oz/a		A					
11 N-pak ams	1.8 qt/a		A					
11 Liberty	29 oz/a		B					
11 Cinch	1 pt/a		B					
11 N-pak ams	1.8 qt/a		B					
12 UTC				0.0 b	0.0 d	0.0 c	0.0 b	0.0 b
LSD P=.05				26.45	16.00	2.82	32.69	23.49
Standard Deviation				15.62	9.45	1.67	19.30	13.87
CV				29.06	13.06	1.82	23.96	18.05
Bartlett's X2				11.48	3.962	0.0	14.285	3.935
P(Bartlett's X2)				0.321	0.949	.	0.16	0.95
Replicate F				2.084	6.351	1.000	0.002	3.483
Replicate Prob(F)				0.1483	0.0066	0.3840	0.9981	0.0485
Treatment F				4.168	19.971	895.546	5.681	9.670
Treatment Prob(F)				0.0021	0.0001	0.0001	0.0003	0.0001

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The Ohio State University

Pest Type			W Weed	W Weed	W Weed
Pest Code			ECHCG	AMBTR	ERICA
Pest Name			Common barnyar>	Giant ragweed	Canada horsewe>
Rating Date			Jul-7-2017	Jul-7-2017	Jul-7-2017
Rating Type			CONTRO	CONTRO	CONTRO
Rating Unit			%	%	%
Number of Subsamples			1	1	1
Days After First/Last Applic.			81 25	81 25	81 25
Trt-Eval Interval					
Days After Emergence			39 DE-1	39 DE-1	39 DE-1
Trt Treatment	Other	Other	Appl		
No. Name	Rate	Rate	Unit Code	21	22
				23	
1 Trivence @ 8 oz				33.3 a	83.3 ab
1 Classic	1.25 oz/a		A		83.3 a
1 Valor SX	2 oz/a		A		
1 Metribuzin	4.76 oz/a		A		
1 2,4-D Ester	2 pt/a		A		
1 Roundup Power Max	22 oz/a		A		
1 N-pak ams	1.8 qt/a		A		
1 Liberty	29 oz/a		B		
1 Cinch	1 pt/a		B		
1 N-pak ams	1.8 qt/a		B		
2 Trivence @ 8 oz				63.3 a	90.0 a
2 Classic	1.25 oz/a		A		93.3 a
2 Valor SX	2 oz/a		A		
2 Metribuzin	4.76 oz/a		A		
2 Zidua WG	1.5 oz/a		A		
2 2,4-D Ester	2 pt/a		A		
2 Roundup Power Max	22 oz/a		A		
2 N-pak ams	1.8 qt/a		A		
2 Liberty	29 oz/a		B		
2 Cinch	1 pt/a		B		
2 N-pak ams	1.8 qt/a		B		
3 Canopy	4 oz/a		A	33.3 a	76.7 ab
3 2,4-D Ester	2 pt/a		A		90.0 a
3 Roundup Power Max	22 oz/a		A		
3 N-pak ams	1.8 qt/a		A		
3 Liberty	29 oz/a		B		
3 Cinch	1 pt/a		B		
3 N-pak ams	1.8 qt/a		B		
4 Canopy	4 oz/a		A	23.3 a	86.7 ab
4 Metribuzin	4 oz/a		A		90.0 a
4 2,4-D Ester	2 pt/a		A		
4 Roundup Power Max	22 oz/a		A		
4 N-pak ams	1.8 qt/a		A		
4 Liberty	29 oz/a		B		
4 Cinch	1 pt/a		B		
4 N-pak ams	1.8 qt/a		B		

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,13
 Could not calculate LSD (% mean diff) for columns 1,2,10,12 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	ERICA
Pest Name	Common barnyar>	Giant ragweed	Canada horsewe>
Rating Date	Jul-7-2017	Jul-7-2017	Jul-7-2017
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	81 25	81 25	81 25
Trt-Eval Interval			
Days After Emergence	39 DE-1	39 DE-1	39 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	21	22	23
5	Canopy	4 oz/a		A	33.3 a	70.0 b	99.0 a
5	Cinch	1 pt/a		A			
5	2,4-D Ester	2 pt/a		A			
5	Roundup Power Max	22 oz/a		A			
5	N-pak ams	1.8 qt/a		A			
5	Liberty	29 oz/a		B			
5	Cinch	1 pt/a		B			
5	N-pak ams	1.8 qt/a		B			
6	Canopy	2.25 oz/a		A	23.3 a	95.0 a	86.7 a
6	2,4-D Ester	2 pt/a		A			
6	Roundup Power Max	22 oz/a		A			
6	N-pak ams	1.8 qt/a		A			
6	Liberty	29 oz/a		B			
6	Cinch	1 pt/a		B			
6	N-pak ams	1.8 qt/a		B			
7	Canopy	2.25 oz/a		A	6.7 a	86.7 ab	100.0 a
7	Metribuzin	6 oz/a		A			
7	2,4-D Ester	2 pt/a		A			
7	Roundup Power Max	22 oz/a		A			
7	N-pak ams	1.8 qt/a		A			
7	Liberty	29 oz/a		B			
7	Cinch	1 pt/a		B			
7	N-pak ams	1.8 qt/a		B			
8	Canopy	2.25 oz/a		A	20.0 a	76.7 ab	93.3 a
8	Cinch	1 pt/a		A			
8	2,4-D Ester	2 pt/a		A			
8	Roundup Power Max	22 oz/a		A			
8	N-pak ams	1.8 qt/a		A			
8	Liberty	29 oz/a		B			
8	Cinch	1 pt/a		B			
8	N-pak ams	1.8 qt/a		B			
9	Envive @ 2.5 oz				33.3 a	83.3 ab	56.7 b
9	Classic	0.92 oz/a		A			
9	Valor SX	1.4 oz/a		A			
9	Thifensulfuron	0.14 oz/a		A			
9	Metribuzin	4 oz/a		A			
9	2,4-D Ester	2 pt/a		A			
9	Roundup Power Max	22 oz/a		A			
9	N-pak ams	1.8 qt/a		A			
9	Liberty	29 oz/a		B			
9	Cinch	1 pt/a		B			
9	N-pak ams	1.8 qt/a		B			

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	ERICA
Pest Name	Common barnyar>	Giant ragweed	Canada horsewe>
Rating Date	Jul-7-2017	Jul-7-2017	Jul-7-2017
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	81 25	81 25	81 25
Trt-Eval Interval			
Days After Emergence	39 DE-1	39 DE-1	39 DE-1
Trt Treatment	Other Other	Appl	
No. Name	Rate Rate	Unit Code	
			21 22 23
10 Envive @ 3.5 oz			13.3 a 91.7 a 86.7 a
10 Classic	1.28 oz/a	A	
10 Valor SX	1.96 oz/a	A	
10 Thifensulfuron	0.208 oz/a	A	
10 2,4-D Ester	2 pt/a	A	
10 Roundup Power Max	22 oz/a	A	
10 N-pak ams	1.8 qt/a	A	
10 Liberty	29 oz/a	B	
10 Cinch	1 pt/a	B	
10 N-pak ams	1.8 qt/a	B	
11 Boundary	1.5 pt/a	A	23.3 a 80.0 ab 93.3 a
11 2,4-D Ester	2 pt/a	A	
11 Roundup Power Max	22 oz/a	A	
11 N-pak ams	1.8 qt/a	A	
11 Liberty	29 oz/a	B	
11 Cinch	1 pt/a	B	
11 N-pak ams	1.8 qt/a	B	
12 UTC			0.0 a 0.0 c 0.0 c
LSD P=.05			36.09 19.95 18.04
Standard Deviation			21.31 11.78 10.65
CV			83.4 15.37 13.14
Bartlett's X2			5.039 8.428 10.472
P(Bartlett's X2)			0.889 0.587 0.233
Replicate F			0.300 0.585 3.204
Replicate Prob(F)			0.7441 0.5654 0.0601
Treatment F			1.725 13.675 20.497
Treatment Prob(F)			0.1330 0.0001 0.0001

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The Ohio State University

Evaluate soybean herbicide programs at universities for control of resistant weeds especially marestail and ragweed species

- No-Till

Trial ID: 17 NTLIB Location: F-10 West end Trial Year: 2017
Protocol ID: 17 NTLIB Investigator: Dr. Mark M. Loux
Project ID: US111/17/01 Study Director: Bryan Reeb
Sponsor Contact: Marsha Martin, DuPont

Pest Type

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

Pest Code

LAMPU, Lamium purpureum, Purple deadnettle = US
STEME, Stellaria media, Common chickweed = US
ERYRE, Erysimum repandum, Bushy wallflower = US
SENGL, Senecio glabellus, Cressleaf groundsel = US
VERAG, Veronica agrestis, Field speedwell = US
BROTE, Anisantha tectorum, Downy brome = US
TARSS, Taraxacum sp., Dandelion = US
ERICA, Erigeron canadensis, Canada horseweed = US
AMBTR, Ambrosia trifida, Giant ragweed = US
SETFA, Setaria faberi, Giant foxtail = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US

Rating Type

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

Rating Unit

% = percent