

# The Ohio State University

## Flumioxazin in a Liberty Link System

Trial ID: 17 PRPOSTLL  
Protocol ID: 17 PRPOSTLL  
Project ID: VUSA2017FIERCEMD64.01

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

Sponsor Contact: Eric Ott, Valent

### General Trial Information

Investigator: Dr. Mark M. Loux

#### Trial Location

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

Latitude of LL Corner °: 39.86026 N  
Longitude of LL Corner °: 83.67156 W  
Altitude of LL Corner, Unit: 1091.00 FT

Conducted Under GLP: No  
Conducted Under GEP: No

Study Rules: Default

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

#### Objectives:

To compare Fierce (3 and 3.75 oz/A) and Fierce MTZ with Authority Elite (25 fl oz/A), Zidua Pro (4.5 fl oz/A) and Boundary (2 pt/A) for preemergence weed control in a Liberty Link system. Key measures are weed control at 21, 28, 42 and 56 DAT with acceptable crop response. Goal is to see what PREE will allow just one Liberty application. All treatments are core.

Investigator: Dr. Mark M. Loux

#### Crop Description

Crop 1: GLXM01 Glycine max GMO  
Variety: Seed Consultants SC3357LL BBCH Scale: BSOY  
Description: Liberty Link

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

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

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## Pest Description

- Pest 1 Type:** W **Code:** AMAPA *Amaranthus palmeri*  
**Common Name:** Carelessweed
- Pest 2 Type:** W **Code:** AMATA *Amaranthus tamariscinus*  
**Common Name:** Common waterhemp
- Pest 3 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common ragweed
- Pest 4 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed
- Pest 5 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** common lambsquarters
- Pest 6 Type:** W **Code:** IPOHE *Ipomoea hederacea*  
**Common Name:** ivy-leaf morning glory
- Pest 7 Type:** W **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyard grass
- Pest 8 Type:** W **Code:** AMARE *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed
- Pest 9 Type:** W **Code:** SIDSP *Sida spinosa*  
**Common Name:** Prickly sida
- Pest10 Type:** W **Code:** HIBTR *Hibiscus trionum*  
**Common Name:** Venice mallow
- Pest11 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed

## Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT2 **Treatments:** 10  
**Replications:** 3

**Site Type:** FIELD field  
**Experimental Unit:** 1 PLOT plot  
**Tillage Type:** CONTIL conventional-till  
**Study Design:** RACOB� Randomized Complete Block (RCB)

## Soil Description

**Description Name:** F-7 Middle  
**% OM:** 1.9 **Texture:** SIL silt loam  
**pH:** 6.4 **Soil Name:** Crosby  
**CEC:** 13.3 **Fert. Level:** G good  
**Soil Drainage:** G good

## Application Description

	A	B	C
<b>Application Date:</b>	May-19-2017	Jun-21-2017	Jul-18-2017
<b>Appl. Start Time:</b>	10:10 AM	8:40 AM	9:50 AM
<b>Appl. Stop Time:</b>	10:30 AM	8:55 AM	10:00 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	POST	LPO
<b>Application Placement:</b>	BROSOI	BROFOL	BROFOL
<b>Applied By:</b>	DOBBELS	REEB	REEB
<b>Air Temperature, Unit:</b>	77 F	71 F	82 F
<b>% Relative Humidity:</b>	67	63	64
<b>Wind Velocity, Unit:</b>	1.5 MPH	3.5 MPH	3 MPH
<b>Wind Direction:</b>	SE	ENE	SSE
<b>Dew Presence (Y/N):</b>	N no	N no	Y yes
<b>Soil Temperature, Unit:</b>	68 F	64 F	75 F
<b>Soil Moisture:</b>	VERWET	SLIWET	GOOD
<b>% Cloud Cover:</b>	30	35	0
<b>Next Moisture Occurred On:</b>	May-19-2017	Jun-23-2017	Jul-21-2017
<b>Time to Next Moisture, Unit:</b>	0 DAY	2 DAY	3 DAY

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## Crop Stage At Each Application

	A		B		C	
<b>Crop 1 Code, BBCH Scale:</b>	GLXM0	BSOY	GLXM0	BSOY	GLXM0	BSOY
<b>Stage Scale Used:</b>			BBCH		BBCH	
<b>Stage Majority, Percent:</b>			14	100	65	100
<b>Height, Unit:</b>			6	IN	24	IN
<b>Height Minimum, Maximum:</b>			5	7	22	26

## Pest Stage At Each Application

	A		B		C	
<b>Pest 1 Code, Type, Scale:</b>	AMAPA	W	AMAPA	W	AMAPA	W
<b>Pest 2 Code, Type, Scale:</b>	AMATA	W	AMATA	W	AMATA	W
<b>Pest 3 Code, Type, Scale:</b>	AMBEL	W	AMBEL	W	AMBEL	W
<b>Pest 4 Code, Type, Scale:</b>	AMBTR	W	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>			21	100	19	100
<b>Height, Unit:</b>			8	IN	20	IN
<b>Height Minimum, Maximum:</b>			6	10	18	22
<b>Density, Unit:</b>	12	m2				
<b>Pest 5 Code, Type, Scale:</b>	CHEAL	W	CHEAL	W	CHEAL	W
<b>Stage Majority, Percent:</b>			19	100	19	100
<b>Height, Unit:</b>			4	IN	4	in
<b>Height Minimum, Maximum:</b>			1	6	2	5
<b>Density, Unit:</b>	4	m2				
<b>Pest 6 Code, Type, Scale:</b>	IPOHE	W	IPOHE	W	IPOHE	W
<b>Stage Majority, Percent:</b>			22	100		
<b>Diameter, Unit:</b>			6	IN		
<b>Height, Unit:</b>			3	IN		
<b>Height Minimum, Maximum:</b>			1	3		
<b>Pest 7 Code, Type, Scale:</b>	ECHCG	W	ECHCG	W	ECHCG	W
<b>Stage Majority, Percent:</b>			15	100	15	100
<b>Height, Unit:</b>			10	IN	12	IN
<b>Height Minimum, Maximum:</b>			8	12	4	18
<b>Density, Unit:</b>	4	m2				
<b>Pest 8 Code, Type, Scale:</b>	AMARE	W	AMARE	W	AMARE	W
<b>Stage Majority, Percent:</b>			15	100	19	100
<b>Height, Unit:</b>			1	IN	8	IN
<b>Height Minimum, Maximum:</b>			1	2	4	12
<b>Density, Unit:</b>	33	m2				
<b>Pest 9 Code, Type, Scale:</b>	SIDSP	W	SIDSP	W	SIDSP	W
<b>Stage Majority, Percent:</b>					16	100
<b>Height, Unit:</b>					4	IN
<b>Height Minimum, Maximum:</b>					2	5
<b>Density, Unit:</b>	11	m2				
<b>Pest10 Code, Type, Scale:</b>	HIBTR	W	HIBTR	W	HIBTR	W
<b>Stage Majority, Percent:</b>					14	100
<b>Height, Unit:</b>					3	IN
<b>Height Minimum, Maximum:</b>					2	5
<b>Density, Unit:</b>	1	m2				
<b>Pest11 Code, Type, Scale:</b>	AMBTR	W	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>			23	100		
<b>Height, Unit:</b>			18	IN		
<b>Height Minimum, Maximum:</b>			15	18		

## Application Equipment

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

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Pest Type	O Other	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	1	2	3	4
1						0.0 c	0.0 e	0.0 d	0.0 c
2	LIBERTY 280	29 fl oz/a		EPOT	B	0.0 c	0.0 e	0.0 d	0.0 c
	2 N-pak ams	4.5 % v/v		EPOT	B				
	2 LIBERTY 280	29 fl oz/a		POST	C				
	2 SELECT MAX	6 fl oz/a		POST	C				
	2 N-pak ams	4.5 % v/v		POST	C				
	2 NIS	0.25 % v/v		POST	C				
3	FIERCE	3 oz wt/a		PREE	A	1.7 bc	80.0 b	66.7 ab	0.0 c
	3 LIBERTY 280	29 fl oz/a		EPOT	B				
	3 N-pak ams	4.5 % v/v		EPOT	B				
	3 LIBERTY 280	29 fl oz/a		POST	C				
	3 SELECT MAX	6 fl oz/a		POST	C				
	3 N-pak ams	4.5 % v/v		POST	C				
	3 NIS	30.25 % v/v		POST	C				
4	BOUNDARY	2 pt/a		PREE	A	1.0 c	98.0 a	82.7 a	13.3 bc
	4 LIBERTY 280	29 fl oz/a		EPOT	B				
	4 N-pak ams	4.5 % v/v		EPOT	B				
	4 LIBERTY 280	29 fl oz/a		POST	C				
	4 SELECT MAX	6 fl oz/a		POST	C				
	4 N-pak ams	4.5 % v/v		POST	C				
	4 NIS	0.25 % v/v		POST	C				
5	AUTHORITY ELITE	25 fl oz/a		PREE	A	0.7 c	79.3 b	79.0 a	16.7 bc
	5 LIBERTY 280	29 fl oz/a		EPOT	B				
	5 N-pak ams	4.5 % v/v		EPOT	B				
	5 LIBERTY 280	29 fl oz/a		POST	B				
	5 SELECT MAX	6 fl oz/a		POST	C				
	5 N-pak ams	4.5 % v/v		POST	C				
	5 NIS	0.25 % v/v		POST	C				

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

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Pest Type	O Other	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	1	2	3	4
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	4.0 ab	83.3 ab	83.3 a	40.0 a
6	LIBERTY 280	29 fl oz/a		EPOT	B				
6	N-pak ams	4.5 % v/v		EPOT	B				
6	LIBERTY 280	29 fl oz/a		POST	C				
6	SELECT MAX	6 fl oz/a		POST	C				
6	N-pak ams	4.5 % v/v		POST	C				
6	NIS	0.25 % v/v		POST	C				
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	0.0 c	63.3 c	56.7 bc	13.3 bc
7	LIBERTY 280	29 fl oz/a		EPOT	B				
7	N-pak ams	4.5 % v/v		EPOT	B				
7	LIBERTY 280	29 fl oz/a		POST	C				
7	SELECT MAX	6 fl oz/a		POST	C				
7	N-pak ams	4.5 % v/v		POST	C				
7	NIS	0.25 % v/v		POST	C				
8	FIERCE	3.75 oz wt/a		PREE	A	1.7 bc	53.3 c	46.7 c	16.7 bc
8	LIBERTY 280	29 fl oz/a		EPOT	B				
8	N-pak ams	4.5 % v/v		EPOT	B				
8	LIBERTY 280	29 fl oz/a		POST	C				
8	SELECT MAX	6 fl oz/a		POST	C				
8	N-pak ams	4.5 % v/v		POST	C				
8	NIS	0.25 % v/v		POST	C				
9	FIERCE XLT	4 oz wt/a		PREE	A	5.0 a	79.3 b	76.7 a	40.0 a
9	LIBERTY 280	29 fl oz/a		EPOT	B				
9	N-pak ams	4.5 % v/v		EPOT	B				
9	SELECT MAX	6 fl oz/a		POST	C				
9	N-pak ams	4.5 % v/v		POST	C				
9	NIS	0.25 % v/v		POST	C				
9	LIBERTY 280	29 fl oz/a		POST	C				

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Pest Type	O Other	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1

Trt Treatment	Rate	Unit	Growth Stage	Appl Code	1	2	3	4
10 Canopy	4 oz/a		PREE	A	1.0 c	16.7 d	16.7 d	20.0 b
10 LIBERTY 280	29 fl oz/a		EPOT	B				
10 N-pak ams	4.5 % v/v		EPOT	B				
10 SELECT MAX	6 fl oz/a		POST	C				
10 N-pak ams	4.5 % v/v		POST	C				
10 NIS	0.25 % v/v		POST	C				
10 LIBERTY 280	29 fl oz/a		POST	C				
LSD P=.05					2.97	15.44	19.37	19.16
Standard Deviation					1.73	9.00	11.29	11.17
CV					115.47	16.27	22.22	69.83
Bartlett's X2					2.188	2.692	3.416	0.815
P(Bartlett's X2)					0.823	0.846	0.844	0.976
Replicate F					0.000	7.730	1.538	0.080
Replicate Prob(F)					1.0000	0.0038	0.2417	0.9233
Treatment F					2.944	49.563	26.569	5.211
Treatment Prob(F)					0.0245	0.0001	0.0001	0.0014

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Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMARE	POLPY	HIBTR			
Pest Scientific Name	Chenopodium al> Amaranthus ret> Persicaria pen> Hibiscus trion>						
Pest Name	common lambsqu> Redroot pigweed annual smartwe> Venice mallow						
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	33 33	33 33	33 33	33 33			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1			
Trt Treatment	Rate	Rate	Growth Appl				
No. Name	Rate	Unit	Stage Code				
				5			
				6			
				7			
				8			
1				0.0 b	0.0 c	0.0 b	0.0 b
2 LIBERTY 280	29 fl oz/a		EPOT B	0.0 b	0.0 c	0.0 b	0.0 b
2 N-pak ams	4.5 % v/v		EPOT B				
2 LIBERTY 280	29 fl oz/a		POST C				
2 SELECT MAX	6 fl oz/a		POST C				
2 N-pak ams	4.5 % v/v		POST C				
2 NIS	0.25 % v/v		POST C				
3 FIERCE	3 oz wt/a		PREE A	99.3 a	100.0 a	100.0 a	100.0 a
3 LIBERTY 280	29 fl oz/a		EPOT B				
3 N-pak ams	4.5 % v/v		EPOT B				
3 LIBERTY 280	29 fl oz/a		POST C				
3 SELECT MAX	6 fl oz/a		POST C				
3 N-pak ams	4.5 % v/v		POST C				
3 NIS	30.25 % v/v		POST C				
4 BOUNDARY	2 pt/a		PREE A	99.3 a	100.0 a	100.0 a	100.0 a
4 LIBERTY 280	29 fl oz/a		EPOT B				
4 N-pak ams	4.5 % v/v		EPOT B				
4 LIBERTY 280	29 fl oz/a		POST C				
4 SELECT MAX	6 fl oz/a		POST C				
4 N-pak ams	4.5 % v/v		POST C				
4 NIS	0.25 % v/v		POST C				
5 AUTHORITY ELITE	25 fl oz/a		PREE A	100.0 a	100.0 a	90.0 a	100.0 a
5 LIBERTY 280	29 fl oz/a		EPOT B				
5 N-pak ams	4.5 % v/v		EPOT B				
5 LIBERTY 280	29 fl oz/a		POST B				
5 SELECT MAX	6 fl oz/a		POST C				
5 N-pak ams	4.5 % v/v		POST C				
5 NIS	0.25 % v/v		POST C				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	POLPY	HIBTR
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Hibiscus trion>
Pest Name	common lambsqu>	Redroot pigweed	annual smartwe>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	5	6	7	8
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
6	LIBERTY 280	29 fl oz/a		EPOT	B				
6	N-pak ams	4.5 % v/v		EPOT	B				
6	LIBERTY 280	29 fl oz/a		POST	C				
6	SELECT MAX	6 fl oz/a		POST	C				
6	N-pak ams	4.5 % v/v		POST	C				
6	NIS	0.25 % v/v		POST	C				
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
7	LIBERTY 280	29 fl oz/a		EPOT	B				
7	N-pak ams	4.5 % v/v		EPOT	B				
7	LIBERTY 280	29 fl oz/a		POST	C				
7	SELECT MAX	6 fl oz/a		POST	C				
7	N-pak ams	4.5 % v/v		POST	C				
7	NIS	0.25 % v/v		POST	C				
8	FIERCE	3.75 oz wt/a		PREE	A	100.0 a	99.3 b	93.3 a	100.0 a
8	LIBERTY 280	29 fl oz/a		EPOT	B				
8	N-pak ams	4.5 % v/v		EPOT	B				
8	LIBERTY 280	29 fl oz/a		POST	C				
8	SELECT MAX	6 fl oz/a		POST	C				
8	N-pak ams	4.5 % v/v		POST	C				
8	NIS	0.25 % v/v		POST	C				
9	FIERCE XLT	4 oz wt/a		PREE	A	100.0 a	100.0 a	93.3 a	100.0 a
9	LIBERTY 280	29 fl oz/a		EPOT	B				
9	N-pak ams	4.5 % v/v		EPOT	B				
9	SELECT MAX	6 fl oz/a		POST	C				
9	N-pak ams	4.5 % v/v		POST	C				
9	NIS	0.25 % v/v		POST	C				
9	LIBERTY 280	29 fl oz/a		POST	C				

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	POLPY	HIBTR
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Hibiscus trion>
Pest Name	common lambsqu>	Redroot pigweed	annual smartwe>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1

Trt Treatment No. Name	Rate	Unit	Growth Stage	Appl Code	5	6	7	8
10 Canopy	4 oz/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
10 LIBERTY 280	29 fl oz/a		EPOT	B				
10 N-pak ams	4.5 % v/v		EPOT	B				
10 SELECT MAX	6 fl oz/a		POST	C				
10 N-pak ams	4.5 % v/v		POST	C				
10 NIS	0.25 % v/v		POST	C				
10 LIBERTY 280	29 fl oz/a		POST	C				
LSD P=.05					0.91	0.63	10.90	.
Standard Deviation					0.53	0.37	6.35	0.00
CV					0.66	0.46	8.18	0.0
Bartlett's X2					0.0	0.0	1.987	0.0
P(Bartlett's X2)					.	.	0.37	.
Replicate F					0.474	1.000	2.560	0.000
Replicate Prob(F)					0.6302	0.3874	0.1051	1.0000
Treatment F					18885.055	39934.337	125.514	0.000
Treatment Prob(F)					0.0001	0.0001	0.0001	1.0000

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	O Other	W Weed	W Weed			
Pest Code	SIDSP	ABUTH		SETFA	ECHCG			
Pest Scientific Name	Sida spinosa	Abutilon theop>		Setaria faberi	Echinochloa cr>			
Pest Name	Prickly sida	velvetleaf		Giant foxtail	Common barnyar>			
Crop Code			GLXMA					
BBCH Scale			BSOY					
Crop Scientific Name			Glycine max					
Crop Name			Soybean					
Rating Date	Jun-21-2017	Jun-21-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	33 33	33 33	53 20	53 20	53 20			
Trt-Eval Interval	33 DA-A	33 DA-A						
Plant-Eval Interval	35 DP-1	35 DP-1	55 DP-1	55 DP-1	55 DP-1			
Days After Emergence	23 DE-1	23 DE-1	43 DE-1	43 DE-1	43 DE-1			
Trt Treatment	Rate	Rate	Growth Appl					
No. Name	Rate	Unit	Stage Code	9	10	11	12	13
1				0.0 c	0.0 b	0.0 a	96.0 a	26.7 b
2 LIBERTY 280	29 fl oz/a		EPOT B	0.0 c	0.0 b	1.7 a	95.3 a	26.7 b
2 N-pak ams	4.5 % v/v		EPOT B					
2 LIBERTY 280	29 fl oz/a		POST C					
2 SELECT MAX	6 fl oz/a		POST C					
2 N-pak ams	4.5 % v/v		POST C					
2 NIS	0.25 % v/v		POST C					
3 FIERCE	3 oz wt/a		PREE A	100.0 a	100.0 a	1.7 a	97.7 a	81.7 a
3 LIBERTY 280	29 fl oz/a		EPOT B					
3 N-pak ams	4.5 % v/v		EPOT B					
3 LIBERTY 280	29 fl oz/a		POST C					
3 SELECT MAX	6 fl oz/a		POST C					
3 N-pak ams	4.5 % v/v		POST C					
3 NIS	30.25 % v/v		POST C					
4 BOUNDARY	2 pt/a		PREE A	100.0 a	100.0 a	0.0 a	100.0 a	95.0 a
4 LIBERTY 280	29 fl oz/a		EPOT B					
4 N-pak ams	4.5 % v/v		EPOT B					
4 LIBERTY 280	29 fl oz/a		POST C					
4 SELECT MAX	6 fl oz/a		POST C					
4 N-pak ams	4.5 % v/v		POST C					
4 NIS	0.25 % v/v		POST C					
5 AUTHORITY ELITE	25 fl oz/a		PREE A	86.7 b	100.0 a	0.0 a	99.3 a	83.3 a
5 LIBERTY 280	29 fl oz/a		EPOT B					
5 N-pak ams	4.5 % v/v		EPOT B					
5 LIBERTY 280	29 fl oz/a		POST B					
5 SELECT MAX	6 fl oz/a		POST C					
5 N-pak ams	4.5 % v/v		POST C					
5 NIS	0.25 % v/v		POST C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
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# The Ohio State University

Pest Type	W Weed	W Weed	O Other	W Weed	W Weed
Pest Code	SIDSP	ABUTH		SETFA	ECHCG
Pest Scientific Name	Sida spinosa	Abutilon theop>		Setaria faberi	Echinochloa cr>
Pest Name	Prickly sida	velvetleaf		Giant foxtail	Common barnyar>
Crop Code			GLXMA		
BBCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	Jun-21-2017	Jun-21-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	33 33	33 33	53 20	53 20	53 20
Trt-Eval Interval	33 DA-A	33 DA-A			
Plant-Eval Interval	35 DP-1	35 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	23 DE-1	23 DE-1	43 DE-1	43 DE-1	43 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	9	10	11	12	13
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a	100.0 a	0.0 a	100.0 a	93.3 a
6	LIBERTY 280	29 fl oz/a		EPOT	B					
6	N-pak ams	4.5 % v/v		EPOT	B					
6	LIBERTY 280	29 fl oz/a		POST	C					
6	SELECT MAX	6 fl oz/a		POST	C					
6	N-pak ams	4.5 % v/v		POST	C					
6	NIS	0.25 % v/v		POST	C					
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	100.0 a	100.0 a	0.0 a	99.3 a	79.3 a
7	LIBERTY 280	29 fl oz/a		EPOT	B					
7	N-pak ams	4.5 % v/v		EPOT	B					
7	LIBERTY 280	29 fl oz/a		POST	C					
7	SELECT MAX	6 fl oz/a		POST	C					
7	N-pak ams	4.5 % v/v		POST	C					
7	NIS	0.25 % v/v		POST	C					
8	FIERCE	3.75 oz wt/a		PREE	A	100.0 a	100.0 a	0.0 a	100.0 a	85.7 a
8	LIBERTY 280	29 fl oz/a		EPOT	B					
8	N-pak ams	4.5 % v/v		EPOT	B					
8	LIBERTY 280	29 fl oz/a		POST	C					
8	SELECT MAX	6 fl oz/a		POST	C					
8	N-pak ams	4.5 % v/v		POST	C					
8	NIS	0.25 % v/v		POST	C					
9	FIERCE XLT	4 oz wt/a		PREE	A	100.0 a	100.0 a	0.0 a	99.0 a	92.7 a
9	LIBERTY 280	29 fl oz/a		EPOT	B					
9	N-pak ams	4.5 % v/v		EPOT	B					
9	SELECT MAX	6 fl oz/a		POST	C					
9	N-pak ams	4.5 % v/v		POST	C					
9	NIS	0.25 % v/v		POST	C					
9	LIBERTY 280	29 fl oz/a		POST	C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
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# The Ohio State University

Pest Type	W Weed	W Weed	O Other	W Weed	W Weed
Pest Code	SIDSP	ABUTH		SETFA	ECHCG
Pest Scientific Name	Sida spinosa	Abutilon theop>		Setaria faberi	Echinochloa cr>
Pest Name	Prickly sida	velvetleaf		Giant foxtail	Common barnyar>
Crop Code			GLXMA		
BBCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	Jun-21-2017	Jun-21-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	33 33	33 33	53 20	53 20	53 20
Trt-Eval Interval	33 DA-A	33 DA-A			
Plant-Eval Interval	35 DP-1	35 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	23 DE-1	23 DE-1	43 DE-1	43 DE-1	43 DE-1

Trt Treatment No. Name	Rate	Unit	Growth Stage	Appl Code	9	10	11	12	13
10 Canopy	4 oz/a		PREE	A	100.0 a	100.0 a	0.0 a	93.3 a	86.4 a
10 LIBERTY 280	29 fl oz/a		EPOT	B					
10 N-pak ams	4.5 % v/v		EPOT	B					
10 SELECT MAX	6 fl oz/a		POST	C					
10 N-pak ams	4.5 % v/v		POST	C					
10 NIS	0.25 % v/v		POST	C					
10 LIBERTY 280	29 fl oz/a		POST	C					
LSD P=.05					8.29	.	2.09	6.75	18.79
Standard Deviation					4.83	0.00	1.22	3.94	10.91
CV					6.14	0.0	365.15	4.02	14.53
Bartlett's X2					0.0	0.0	0.0	15.207	7.769
P(Bartlett's X2)					.	.	.	0.019*	0.558
Replicate F					1.000	0.000	2.250	3.571	18.685
Replicate Prob(F)					0.3874	1.0000	0.1342	0.0494	0.0001
Treatment F					223.238	0.000	1.000	1.067	17.079
Treatment Prob(F)					0.0001	1.0000	0.4742	0.4306	0.0001

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# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	AMARE	POLPY			
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Persicaria pen>			
Pest Name	Giant ragweed	common lambsqu>	Redroot pigweed	annual smartwe>			
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	53 20	53 20	53 20	53 20			
Trt-Eval Interval							
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1			
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1			
Trt Treatment	Rate	Rate	Growth Appl				
No. Name	Rate	Unit	Stage Code	14			
				15			
				16			
				17			
1				95.0 a	90.0 ab	73.3 b	90.0 a
2 LIBERTY 280	29 fl oz/a	EPOT	B	85.0 a	80.0 b	73.3 b	100.0 a
2 N-pak ams	4.5 % v/v	EPOT	B				
2 LIBERTY 280	29 fl oz/a	POST	C				
2 SELECT MAX	6 fl oz/a	POST	C				
2 N-pak ams	4.5 % v/v	POST	C				
2 NIS	0.25 % v/v	POST	C				
3 FIERCE	3 oz wt/a	PREE	A	80.0 a	99.3 a	100.0 a	98.3 a
3 LIBERTY 280	29 fl oz/a	EPOT	B				
3 N-pak ams	4.5 % v/v	EPOT	B				
3 LIBERTY 280	29 fl oz/a	POST	C				
3 SELECT MAX	6 fl oz/a	POST	C				
3 N-pak ams	4.5 % v/v	POST	C				
3 NIS	30.25 % v/v	POST	C				
4 BOUNDARY	2 pt/a	PREE	A	70.0 a	95.7 a	100.0 a	100.0 a
4 LIBERTY 280	29 fl oz/a	EPOT	B				
4 N-pak ams	4.5 % v/v	EPOT	B				
4 LIBERTY 280	29 fl oz/a	POST	C				
4 SELECT MAX	6 fl oz/a	POST	C				
4 N-pak ams	4.5 % v/v	POST	C				
4 NIS	0.25 % v/v	POST	C				
5 AUTHORITY ELITE	25 fl oz/a	PREE	A	76.7 a	99.0 a	100.0 a	90.0 a
5 LIBERTY 280	29 fl oz/a	EPOT	B				
5 N-pak ams	4.5 % v/v	EPOT	B				
5 LIBERTY 280	29 fl oz/a	POST	B				
5 SELECT MAX	6 fl oz/a	POST	C				
5 N-pak ams	4.5 % v/v	POST	C				
5 NIS	0.25 % v/v	POST	C				

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE	POLPY
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Persicaria pen>
Pest Name	Giant ragweed common	lambsqu>	Redroot pigweed annual	smartwe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	53 20	53 20	53 20	53 20
Trt-Eval Interval				
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	14	15	16	17
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	73.3 a	100.0 a	100.0 a	100.0 a
6	LIBERTY 280	29 fl oz/a		EPOT	B				
6	N-pak ams	4.5 % v/v		EPOT	B				
6	LIBERTY 280	29 fl oz/a		POST	C				
6	SELECT MAX	6 fl oz/a		POST	C				
6	N-pak ams	4.5 % v/v		POST	C				
6	NIS	0.25 % v/v		POST	C				
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	83.3 a	96.7 a	100.0 a	100.0 a
7	LIBERTY 280	29 fl oz/a		EPOT	B				
7	N-pak ams	4.5 % v/v		EPOT	B				
7	LIBERTY 280	29 fl oz/a		POST	C				
7	SELECT MAX	6 fl oz/a		POST	C				
7	N-pak ams	4.5 % v/v		POST	C				
7	NIS	0.25 % v/v		POST	C				
8	FIERCE	3.75 oz wt/a		PREE	A	83.3 a	100.0 a	100.0 a	96.7 a
8	LIBERTY 280	29 fl oz/a		EPOT	B				
8	N-pak ams	4.5 % v/v		EPOT	B				
8	LIBERTY 280	29 fl oz/a		POST	C				
8	SELECT MAX	6 fl oz/a		POST	C				
8	N-pak ams	4.5 % v/v		POST	C				
8	NIS	0.25 % v/v		POST	C				
9	FIERCE XLT	4 oz wt/a		PREE	A	81.7 a	100.0 a	100.0 a	100.0 a
9	LIBERTY 280	29 fl oz/a		EPOT	B				
9	N-pak ams	4.5 % v/v		EPOT	B				
9	SELECT MAX	6 fl oz/a		POST	C				
9	N-pak ams	4.5 % v/v		POST	C				
9	NIS	0.25 % v/v		POST	C				
9	LIBERTY 280	29 fl oz/a		POST	C				

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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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		AMBTR	CHEAL	AMARE	POLPY		
Pest Scientific Name		Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Persicaria pen>		
Pest Name		Giant ragweed common	lambsqu>	Redroot pigweed	annual smartwe>		
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date		Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017		
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit		%	%	%	%		
Number of Subsamples		1	1	1	1		
Days After First/Last Applic.		53 20	53 20	53 20	53 20		
Trt-Eval Interval							
Plant-Eval Interval		55 DP-1	55 DP-1	55 DP-1	55 DP-1		
Days After Emergence		43 DE-1	43 DE-1	43 DE-1	43 DE-1		
Trt Treatment	Rate	Growth Stage	Appl Code	14	15	16	17
No. Name	Unit						
10 Canopy	4 oz/a	PREE	A	88.3 a	100.0 a	100.0 a	95.0 a
10 LIBERTY 280	29 fl oz/a	EPOT	B				
10 N-pak ams	4.5 % v/v	EPOT	B				
10 SELECT MAX	6 fl oz/a	POST	C				
10 N-pak ams	4.5 % v/v	POST	C				
10 NIS	0.25 % v/v	POST	C				
10 LIBERTY 280	29 fl oz/a	POST	C				
LSD P=.05				22.51	10.69	14.50	10.33
Standard Deviation				13.12	6.23	8.45	6.02
CV				16.07	6.49	8.93	6.21
Bartlett's X2				5.774	13.883	1.081	5.438
P(Bartlett's X2)				0.762	0.016*	0.298	0.245
Replicate F				0.150	2.953	1.725	5.235
Replicate Prob(F)				0.8617	0.0778	0.2063	0.0161
Treatment F				0.914	3.234	5.306	1.367
Treatment Prob(F)				0.5344	0.0163	0.0013	0.2727

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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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	O Other	W Weed			
Pest Code	HIBTR	SIDSP	ABUTH		SETFA			
Pest Scientific Name	Hibiscus trion>	Sida spinosa	Abutilon theop>		Setaria faberi			
Pest Name	Venice mallow	Prickly sida	velvetleaf		Giant foxtail			
Crop Code				GLXMA				
BBCH Scale				BSOY				
Crop Scientific Name				Glycine max				
Crop Name				Soybean				
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	53 20	53 20	53 20	62 2	62 2			
Trt-Eval Interval								
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	64 DP-1	64 DP-1			
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Rate	Rate	Growth Appl					
No. Name	Rate	Unit	Stage Code	18	19	20	21	22
1				96.7 a	56.7 b	100.0 a	0.0 a	94.3 a
2 LIBERTY 280	29 fl oz/a		EPOT B	83.3 b	63.3 b	96.7 a	0.0 a	91.7 a
2 N-pak ams	4.5 % v/v		EPOT B					
2 LIBERTY 280	29 fl oz/a		POST C					
2 SELECT MAX	6 fl oz/a		POST C					
2 N-pak ams	4.5 % v/v		POST C					
2 NIS	0.25 % v/v		POST C					
3 FIERCE	3 oz wt/a		PREE A	100.0 a	93.3 a	100.0 a	0.0 a	96.0 a
3 LIBERTY 280	29 fl oz/a		EPOT B					
3 N-pak ams	4.5 % v/v		EPOT B					
3 LIBERTY 280	29 fl oz/a		POST C					
3 SELECT MAX	6 fl oz/a		POST C					
3 N-pak ams	4.5 % v/v		POST C					
3 NIS	30.25 % v/v		POST C					
4 BOUNDARY	2 pt/a		PREE A	100.0 a	93.3 a	100.0 a	0.0 a	98.7 a
4 LIBERTY 280	29 fl oz/a		EPOT B					
4 N-pak ams	4.5 % v/v		EPOT B					
4 LIBERTY 280	29 fl oz/a		POST C					
4 SELECT MAX	6 fl oz/a		POST C					
4 N-pak ams	4.5 % v/v		POST C					
4 NIS	0.25 % v/v		POST C					
5 AUTHORITY ELITE	25 fl oz/a		PREE A	100.0 a	86.7 a	100.0 a	0.0 a	98.3 a
5 LIBERTY 280	29 fl oz/a		EPOT B					
5 N-pak ams	4.5 % v/v		EPOT B					
5 LIBERTY 280	29 fl oz/a		POST B					
5 SELECT MAX	6 fl oz/a		POST C					
5 N-pak ams	4.5 % v/v		POST C					
5 NIS	0.25 % v/v		POST C					

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	O Other	W Weed
Pest Code	HIBTR	SIDSP	ABUTH		SETFA
Pest Scientific Name	Hibiscus trion>	Sida spinosa	Abutilon theop>		Setaria faberi
Pest Name	Venice mallow	Prickly sida	velvetleaf		Giant foxtail
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-20-2017	Jul-20-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	53 20	53 20	53 20	62 2	62 2
Trt-Eval Interval					
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	64 DP-1	64 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	52 DE-1	52 DE-1

Trt	Treatment	Rate	Rate Unit	Growth Stage	Appl Code	18	19	20	21	22
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
6	LIBERTY 280	29 fl oz/a		EPOT	B					
6	N-pak ams	4.5 % v/v		EPOT	B					
6	LIBERTY 280	29 fl oz/a		POST	C					
6	SELECT MAX	6 fl oz/a		POST	C					
6	N-pak ams	4.5 % v/v		POST	C					
6	NIS	0.25 % v/v		POST	C					
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	96.7 a	96.0 a	100.0 a	0.0 a	98.7 a
7	LIBERTY 280	29 fl oz/a		EPOT	B					
7	N-pak ams	4.5 % v/v		EPOT	B					
7	LIBERTY 280	29 fl oz/a		POST	C					
7	SELECT MAX	6 fl oz/a		POST	C					
7	N-pak ams	4.5 % v/v		POST	C					
7	NIS	0.25 % v/v		POST	C					
8	FIERCE	3.75 oz wt/a		PREE	A	100.0 a	90.0 a	100.0 a	0.0 a	98.7 a
8	LIBERTY 280	29 fl oz/a		EPOT	B					
8	N-pak ams	4.5 % v/v		EPOT	B					
8	LIBERTY 280	29 fl oz/a		POST	C					
8	SELECT MAX	6 fl oz/a		POST	C					
8	N-pak ams	4.5 % v/v		POST	C					
8	NIS	0.25 % v/v		POST	C					
9	FIERCE XLT	4 oz wt/a		PREE	A	100.0 a	96.7 a	100.0 a	0.0 a	98.3 a
9	LIBERTY 280	29 fl oz/a		EPOT	B					
9	N-pak ams	4.5 % v/v		EPOT	B					
9	SELECT MAX	6 fl oz/a		POST	C					
9	N-pak ams	4.5 % v/v		POST	C					
9	NIS	0.25 % v/v		POST	C					
9	LIBERTY 280	29 fl oz/a		POST	C					

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	O Other	W Weed
Pest Code	HIBTR	SIDSP	ABUTH		SETFA
Pest Scientific Name	Hibiscus trion>	Sida spinosa	Abutilon theop>		Setaria faberi
Pest Name	Venice mallow	Prickly sida	velvetleaf		Giant foxtail
Crop Code				GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-20-2017	Jul-20-2017
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	53 20	53 20	53 20	62 2	62 2
Trt-Eval Interval					
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	64 DP-1	64 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	52 DE-1	52 DE-1

  

Trt Treatment	Rate	Unit	Growth Stage	Appl Code	18	19	20	21	22
10 Canopy	4 oz/a		PREE	A	100.0 a	92.3 a	100.0 a	0.0 a	96.7 a
10 LIBERTY 280	29 fl oz/a		EPOT	B					
10 N-pak ams	4.5 % v/v		EPOT	B					
10 SELECT MAX	6 fl oz/a		POST	C					
10 N-pak ams	4.5 % v/v		POST	C					
10 NIS	0.25 % v/v		POST	C					
10 LIBERTY 280	29 fl oz/a		POST	C					
LSD P=.05					9.16	19.48	3.13	.	5.13
Standard Deviation					5.34	11.35	1.83	0.00	2.99
CV					5.47	13.07	1.83	0.0	3.08
Bartlett's X2					2.585	6.147	0.0	0.0	10.71
P(Bartlett's X2)					0.275	0.631	.	.	0.219
Replicate F					1.519	3.757	1.000	0.000	2.236
Replicate Prob(F)					0.2456	0.0433	0.3874	1.0000	0.1357
Treatment F					2.870	5.020	1.000	0.000	2.135
Treatment Prob(F)					0.0272	0.0018	0.4742	1.0000	0.0817

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# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBTR	CHEAL	AMARE			
Pest Scientific Name	Echinochloa cr> Ambrosia trifi> Chenopodium al> Amaranthus ret>						
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed						
Crop Code							
BBCH Scale							
Crop Scientific Name							
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.	62 2	62 2	62 2	62 2			
Trt-Eval Interval							
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1			
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Rate	Rate	Growth Appl				
No. Name	Rate	Unit	Stage Code				
				23			
				24			
				25			
				26			
1				40.0 b	86.0 a	99.3 a	100.0 a
2 LIBERTY 280	29 fl oz/a		EPOT B	30.0 b	83.3 a	100.0 a	95.7 a
2 N-pak ams	4.5 % v/v		EPOT B				
2 LIBERTY 280	29 fl oz/a		POST C				
2 SELECT MAX	6 fl oz/a		POST C				
2 N-pak ams	4.5 % v/v		POST C				
2 NIS	0.25 % v/v		POST C				
3 FIERCE	3 oz wt/a		PREE A	73.3 a	71.7 a	100.0 a	100.0 a
3 LIBERTY 280	29 fl oz/a		EPOT B				
3 N-pak ams	4.5 % v/v		EPOT B				
3 LIBERTY 280	29 fl oz/a		POST C				
3 SELECT MAX	6 fl oz/a		POST C				
3 N-pak ams	4.5 % v/v		POST C				
3 NIS	30.25 % v/v		POST C				
4 BOUNDARY	2 pt/a		PREE A	86.3 a	73.3 a	100.0 a	100.0 a
4 LIBERTY 280	29 fl oz/a		EPOT B				
4 N-pak ams	4.5 % v/v		EPOT B				
4 LIBERTY 280	29 fl oz/a		POST C				
4 SELECT MAX	6 fl oz/a		POST C				
4 N-pak ams	4.5 % v/v		POST C				
4 NIS	0.25 % v/v		POST C				
5 AUTHORITY ELITE	25 fl oz/a		PREE A	80.0 a	75.7 a	100.0 a	100.0 a
5 LIBERTY 280	29 fl oz/a		EPOT B				
5 N-pak ams	4.5 % v/v		EPOT B				
5 LIBERTY 280	29 fl oz/a		POST B				
5 SELECT MAX	6 fl oz/a		POST C				
5 N-pak ams	4.5 % v/v		POST C				
5 NIS	0.25 % v/v		POST C				

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
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.	62 2	62 2	62 2	62 2
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1

Trt Treatment No. Name	Rate	Rate Unit	Growth Stage	Appl Code	23	24	25	26
6 ZIDUA PRO	4.5 fl oz/a		PREE	A	90.0 a	70.0 a	100.0 a	100.0 a
6 LIBERTY 280	29 fl oz/a		EPOT	B				
6 N-pak ams	4.5 % v/v		EPOT	B				
6 LIBERTY 280	29 fl oz/a		POST	C				
6 SELECT MAX	6 fl oz/a		POST	C				
6 N-pak ams	4.5 % v/v		POST	C				
6 NIS	0.25 % v/v		POST	C				
7 FIERCE MTZ SC (2030)	1 pt/a		PREE	A	79.3 a	73.3 a	100.0 a	100.0 a
7 LIBERTY 280	29 fl oz/a		EPOT	B				
7 N-pak ams	4.5 % v/v		EPOT	B				
7 LIBERTY 280	29 fl oz/a		POST	C				
7 SELECT MAX	6 fl oz/a		POST	C				
7 N-pak ams	4.5 % v/v		POST	C				
7 NIS	0.25 % v/v		POST	C				
8 FIERCE	3.75 oz wt/a		PREE	A	76.7 a	76.7 a	100.0 a	100.0 a
8 LIBERTY 280	29 fl oz/a		EPOT	B				
8 N-pak ams	4.5 % v/v		EPOT	B				
8 LIBERTY 280	29 fl oz/a		POST	C				
8 SELECT MAX	6 fl oz/a		POST	C				
8 N-pak ams	4.5 % v/v		POST	C				
8 NIS	0.25 % v/v		POST	C				
9 FIERCE XLT	4 oz wt/a		PREE	A	86.0 a	80.0 a	100.0 a	100.0 a
9 LIBERTY 280	29 fl oz/a		EPOT	B				
9 N-pak ams	4.5 % v/v		EPOT	B				
9 SELECT MAX	6 fl oz/a		POST	C				
9 N-pak ams	4.5 % v/v		POST	C				
9 NIS	0.25 % v/v		POST	C				
9 LIBERTY 280	29 fl oz/a		POST	C				

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: Yates=13,23

Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name		Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name		Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
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.		62 2	62 2	62 2	62 2
Trt-Eval Interval					
Plant-Eval Interval		64 DP-1	64 DP-1	64 DP-1	64 DP-1
Days After Emergence		52 DE-1	52 DE-1	52 DE-1	52 DE-1

  

Trt Treatment	Rate	Unit	Growth Stage	Appl Code	23	24	25	26
10 Canopy	4 oz/a		PREE	A	81.0 a	83.3 a	100.0 a	100.0 a
10 LIBERTY 280	29 fl oz/a		EPOT	B				
10 N-pak ams	4.5 % v/v		EPOT	B				
10 SELECT MAX	6 fl oz/a		POST	C				
10 N-pak ams	4.5 % v/v		POST	C				
10 NIS	0.25 % v/v		POST	C				
10 LIBERTY 280	29 fl oz/a		POST	C				
LSD P=.05					20.12	21.04	0.63	2.78
Standard Deviation					11.68	12.26	0.37	1.62
CV					16.16	15.86	0.37	1.63
Bartlett's X2					2.151	9.722	0.0	0.0
P(Bartlett's X2)					0.989	0.285	.	.
Replicate F					18.616	0.304	1.000	1.000
Replicate Prob(F)					0.0001	0.7415	0.3874	0.3874
Treatment F					9.129	0.610	1.000	2.139
Treatment Prob(F)					0.0001	0.7730	0.4742	0.0811

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	O Other			
Pest Code	POLPY	HIBTR	SIDSP	ABUTH				
Pest Scientific Name	Persicaria pen>	Hibiscus trion>	Sida spinosa	Abutilon theop>				
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf				
Crop Code					GLXMA			
BBCH Scale					BSOY			
Crop Scientific Name					Glycine max			
Crop Name					Soybean			
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Aug-17-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	62 2	62 2	62 2	62 2	90 30			
Trt-Eval Interval								
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	92 DP-1			
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	80 DE-1			
Trt Treatment	Rate	Rate	Growth Appl					
No. Name	Rate	Unit	Stage Code	27	28	29	30	31
1				100.0 a	98.3 a	83.3 a	100.0 a	0.0 a
2 LIBERTY 280	29 fl oz/a		EPOT B	93.3 a	96.7 a	96.7 a	100.0 a	0.0 a
2 N-pak ams	4.5 % v/v		EPOT B					
2 LIBERTY 280	29 fl oz/a		POST C					
2 SELECT MAX	6 fl oz/a		POST C					
2 N-pak ams	4.5 % v/v		POST C					
2 NIS	0.25 % v/v		POST C					
3 FIERCE	3 oz wt/a		PREE A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a
3 LIBERTY 280	29 fl oz/a		EPOT B					
3 N-pak ams	4.5 % v/v		EPOT B					
3 LIBERTY 280	29 fl oz/a		POST C					
3 SELECT MAX	6 fl oz/a		POST C					
3 N-pak ams	4.5 % v/v		POST C					
3 NIS	30.25 % v/v		POST C					
4 BOUNDARY	2 pt/a		PREE A	100.0 a	100.0 a	93.3 a	100.0 a	0.0 a
4 LIBERTY 280	29 fl oz/a		EPOT B					
4 N-pak ams	4.5 % v/v		EPOT B					
4 LIBERTY 280	29 fl oz/a		POST C					
4 SELECT MAX	6 fl oz/a		POST C					
4 N-pak ams	4.5 % v/v		POST C					
4 NIS	0.25 % v/v		POST C					
5 AUTHORITY ELITE	25 fl oz/a		PREE A	90.0 a	100.0 a	86.7 a	100.0 a	0.0 a
5 LIBERTY 280	29 fl oz/a		EPOT B					
5 N-pak ams	4.5 % v/v		EPOT B					
5 LIBERTY 280	29 fl oz/a		POST B					
5 SELECT MAX	6 fl oz/a		POST C					
5 N-pak ams	4.5 % v/v		POST C					
5 NIS	0.25 % v/v		POST C					

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: Yates=13,23  
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# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	O Other
Pest Code	POLPY	HIBTR	SIDSP	ABUTH	
Pest Scientific Name	Persicaria pen>	Hibiscus trion>	Sida spinosa	Abutilon theop>	
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Aug-17-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	62 2	62 2	62 2	62 2	90 30
Trt-Eval Interval					
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	92 DP-1
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	80 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	27	28	29	30	31
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a
6	LIBERTY 280	29 fl oz/a		EPOT	B					
6	N-pak ams	4.5 % v/v		EPOT	B					
6	LIBERTY 280	29 fl oz/a		POST	C					
6	SELECT MAX	6 fl oz/a		POST	C					
6	N-pak ams	4.5 % v/v		POST	C					
6	NIS	0.25 % v/v		POST	C					
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	100.0 a	96.7 a	100.0 a	100.0 a	0.0 a
7	LIBERTY 280	29 fl oz/a		EPOT	B					
7	N-pak ams	4.5 % v/v		EPOT	B					
7	LIBERTY 280	29 fl oz/a		POST	C					
7	SELECT MAX	6 fl oz/a		POST	C					
7	N-pak ams	4.5 % v/v		POST	C					
7	NIS	0.25 % v/v		POST	C					
8	FIERCE	3.75 oz wt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a
8	LIBERTY 280	29 fl oz/a		EPOT	B					
8	N-pak ams	4.5 % v/v		EPOT	B					
8	LIBERTY 280	29 fl oz/a		POST	C					
8	SELECT MAX	6 fl oz/a		POST	C					
8	N-pak ams	4.5 % v/v		POST	C					
8	NIS	0.25 % v/v		POST	C					
9	FIERCE XLT	4 oz wt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a
9	LIBERTY 280	29 fl oz/a		EPOT	B					
9	N-pak ams	4.5 % v/v		EPOT	B					
9	SELECT MAX	6 fl oz/a		POST	C					
9	N-pak ams	4.5 % v/v		POST	C					
9	NIS	0.25 % v/v		POST	C					
9	LIBERTY 280	29 fl oz/a		POST	C					

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.  
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 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	O Other				
Pest Code	POLPY	HIBTR	SIDSP	ABUTH					
Pest Scientific Name	Persicaria pen>	Hibiscus trion>	Sida spinosa	Abutilon theop>					
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf					
Crop Code					GLXMA				
BBCH Scale					BSOY				
Crop Scientific Name					Glycine max				
Crop Name					Soybean				
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Aug-17-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	62 2	62 2	62 2	62 2	90 30				
Trt-Eval Interval									
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	92 DP-1				
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	80 DE-1				
Trt Treatment	Rate	Unit	Growth Stage	Appl Code	27	28	29	30	31
10 Canopy	4 oz/a		PREE	A	100.0 a	100.0 a	93.3 a	100.0 a	0.0 a
10 LIBERTY 280	29 fl oz/a		EPOT	B					
10 N-pak ams	4.5 % v/v		EPOT	B					
10 SELECT MAX	6 fl oz/a		POST	C					
10 N-pak ams	4.5 % v/v		POST	C					
10 NIS	0.25 % v/v		POST	C					
10 LIBERTY 280	29 fl oz/a		POST	C					
LSD P=.05					11.58	4.58	15.59	.	.
Standard Deviation					6.75	2.67	9.09	0.00	0.00
CV					6.86	2.69	9.53	0.0	0.0
Bartlett's X2					0.312	1.002	3.316	0.0	0.0
P(Bartlett's X2)					0.576	0.606	0.506	.	.
Replicate F					0.512	1.519	3.915	0.000	0.000
Replicate Prob(F)					0.6077	0.2456	0.0388	1.0000	1.0000
Treatment F					0.854	0.844	1.363	0.000	0.000
Treatment Prob(F)					0.5798	0.5871	0.2745	1.0000	1.0000

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-17-2017	Aug-17-2017	Aug-17-2017	Aug-17-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	90 30	90 30	90 30	90 30
Trt-Eval Interval				
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1	92 DP-1
Days After Emergence	80 DE-1	80 DE-1	80 DE-1	80 DE-1
Trt Treatment	Rate	Rate	Growth Appl	
No. Name	Rate	Unit	Stage Code	
				32
				33
				34
				35
1				100.0 a
2 LIBERTY 280	29 fl oz/a		EPOT B	100.0 a
2 N-pak ams	4.5 % v/v		EPOT B	
2 LIBERTY 280	29 fl oz/a		POST C	
2 SELECT MAX	6 fl oz/a		POST C	
2 N-pak ams	4.5 % v/v		POST C	
2 NIS	0.25 % v/v		POST C	
3 FIERCE	3 oz wt/a		PREE A	100.0 a
3 LIBERTY 280	29 fl oz/a		EPOT B	100.0 a
3 N-pak ams	4.5 % v/v		EPOT B	
3 LIBERTY 280	29 fl oz/a		POST C	
3 SELECT MAX	6 fl oz/a		POST C	
3 N-pak ams	4.5 % v/v		POST C	
3 NIS	30.25 % v/v		POST C	
4 BOUNDARY	2 pt/a		PREE A	100.0 a
4 LIBERTY 280	29 fl oz/a		EPOT B	100.0 a
4 N-pak ams	4.5 % v/v		EPOT B	
4 LIBERTY 280	29 fl oz/a		POST C	
4 SELECT MAX	6 fl oz/a		POST C	
4 N-pak ams	4.5 % v/v		POST C	
4 NIS	0.25 % v/v		POST C	
5 AUTHORITY ELITE	25 fl oz/a		PREE A	100.0 a
5 LIBERTY 280	29 fl oz/a		EPOT B	100.0 a
5 N-pak ams	4.5 % v/v		EPOT B	
5 LIBERTY 280	29 fl oz/a		POST B	
5 SELECT MAX	6 fl oz/a		POST C	
5 N-pak ams	4.5 % v/v		POST C	
5 NIS	0.25 % v/v		POST C	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
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 Missing data estimates are included in columns: Yates=13,23  
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# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-17-2017	Aug-17-2017	Aug-17-2017	Aug-17-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	90 30	90 30	90 30	90 30
Trt-Eval Interval				
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1	92 DP-1
Days After Emergence	80 DE-1	80 DE-1	80 DE-1	80 DE-1

Trt Treatment No. Name	Rate	Rate Unit	Growth Stage	Appl Code	32	33	34	35
6 ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
6 LIBERTY 280	29 fl oz/a		EPOT	B				
6 N-pak ams	4.5 % v/v		EPOT	B				
6 LIBERTY 280	29 fl oz/a		POST	C				
6 SELECT MAX	6 fl oz/a		POST	C				
6 N-pak ams	4.5 % v/v		POST	C				
6 NIS	0.25 % v/v		POST	C				
7 FIERCE MTZ SC (2030)	1 pt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
7 LIBERTY 280	29 fl oz/a		EPOT	B				
7 N-pak ams	4.5 % v/v		EPOT	B				
7 LIBERTY 280	29 fl oz/a		POST	C				
7 SELECT MAX	6 fl oz/a		POST	C				
7 N-pak ams	4.5 % v/v		POST	C				
7 NIS	0.25 % v/v		POST	C				
8 FIERCE	3.75 oz wt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
8 LIBERTY 280	29 fl oz/a		EPOT	B				
8 N-pak ams	4.5 % v/v		EPOT	B				
8 LIBERTY 280	29 fl oz/a		POST	C				
8 SELECT MAX	6 fl oz/a		POST	C				
8 N-pak ams	4.5 % v/v		POST	C				
8 NIS	0.25 % v/v		POST	C				
9 FIERCE XLT	4 oz wt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
9 LIBERTY 280	29 fl oz/a		EPOT	B				
9 N-pak ams	4.5 % v/v		EPOT	B				
9 SELECT MAX	6 fl oz/a		POST	C				
9 N-pak ams	4.5 % v/v		POST	C				
9 NIS	0.25 % v/v		POST	C				
9 LIBERTY 280	29 fl oz/a		POST	C				

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: Yates=13,23

Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	ECHCG	AMBTR	CHEAL		
Pest Scientific Name		Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>		
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>		
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date		Aug-17-2017	Aug-17-2017	Aug-17-2017	Aug-17-2017		
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit		%	%	%	%		
Number of Subsamples		1	1	1	1		
Days After First/Last Applic.		90 30	90 30	90 30	90 30		
Trt-Eval Interval							
Plant-Eval Interval		92 DP-1	92 DP-1	92 DP-1	92 DP-1		
Days After Emergence		80 DE-1	80 DE-1	80 DE-1	80 DE-1		
Trt Treatment							
No. Name	Rate Unit	Growth Stage	Appl Code	32	33	34	35
10 Canopy	4 oz/a	PREE A		100.0 a	100.0 a	100.0 a	100.0 a
10 LIBERTY 280	29 fl oz/a	EPOT B					
10 N-pak ams	4.5 % v/v	EPOT B					
10 SELECT MAX	6 fl oz/a	POST C					
10 N-pak ams	4.5 % v/v	POST C					
10 NIS	0.25 % v/v	POST C					
10 LIBERTY 280	29 fl oz/a	POST C					
LSD P=.05				.	.	.	.
Standard Deviation				0.00	0.00	0.00	0.00
CV				0.0	0.0	0.0	0.0
Bartlett's X2				0.0	0.0	0.0	0.0
P(Bartlett's X2)				.	.	.	.
Replicate F				0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
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# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMARE	POLPY	HIBTR	SIDSP			
Pest Scientific Name	Amaranthus ret>	Persicaria pen>	Hibiscus trion>	Sida spinosa			
Pest Name	Redroot pigweed	annual smartwe>	Venice mallow	Prickly sida			
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Aug-17-2017	Aug-17-2017	Aug-17-2017	Aug-17-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	90 30	90 30	90 30	90 30			
Trt-Eval Interval							
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1	92 DP-1			
Days After Emergence	80 DE-1	80 DE-1	80 DE-1	80 DE-1			
Trt Treatment	Rate	Rate	Growth Appl				
No. Name	Rate	Unit	Stage Code	36			
				37			
				38			
				39			
1				100.0 a	100.0 a	100.0 a	100.0 a
2 LIBERTY 280	29 fl oz/a	EPOT	B	100.0 a	100.0 a	100.0 a	100.0 a
2 N-pak ams	4.5 % v/v	EPOT	B				
2 LIBERTY 280	29 fl oz/a	POST	C				
2 SELECT MAX	6 fl oz/a	POST	C				
2 N-pak ams	4.5 % v/v	POST	C				
2 NIS	0.25 % v/v	POST	C				
3 FIERCE	3 oz wt/a	PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
3 LIBERTY 280	29 fl oz/a	EPOT	B				
3 N-pak ams	4.5 % v/v	EPOT	B				
3 LIBERTY 280	29 fl oz/a	POST	C				
3 SELECT MAX	6 fl oz/a	POST	C				
3 N-pak ams	4.5 % v/v	POST	C				
3 NIS	30.25 % v/v	POST	C				
4 BOUNDARY	2 pt/a	PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
4 LIBERTY 280	29 fl oz/a	EPOT	B				
4 N-pak ams	4.5 % v/v	EPOT	B				
4 LIBERTY 280	29 fl oz/a	POST	C				
4 SELECT MAX	6 fl oz/a	POST	C				
4 N-pak ams	4.5 % v/v	POST	C				
4 NIS	0.25 % v/v	POST	C				
5 AUTHORITY ELITE	25 fl oz/a	PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
5 LIBERTY 280	29 fl oz/a	EPOT	B				
5 N-pak ams	4.5 % v/v	EPOT	B				
5 LIBERTY 280	29 fl oz/a	POST	B				
5 SELECT MAX	6 fl oz/a	POST	C				
5 N-pak ams	4.5 % v/v	POST	C				
5 NIS	0.25 % v/v	POST	C				

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# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	POLPY	HIBTR	SIDSP
Pest Scientific Name	Amaranthus ret>	Persicaria pen>	Hibiscus trion>	Sida spinosa
Pest Name	Redroot pigweed	annual smartwe>	Venice mallow	Prickly sida
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-17-2017	Aug-17-2017	Aug-17-2017	Aug-17-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	90 30	90 30	90 30	90 30
Trt-Eval Interval				
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1	92 DP-1
Days After Emergence	80 DE-1	80 DE-1	80 DE-1	80 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	36	37	38	39
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
6	LIBERTY 280	29 fl oz/a		EPOT	B				
6	N-pak ams	4.5 % v/v		EPOT	B				
6	LIBERTY 280	29 fl oz/a		POST	C				
6	SELECT MAX	6 fl oz/a		POST	C				
6	N-pak ams	4.5 % v/v		POST	C				
6	NIS	0.25 % v/v		POST	C				
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
7	LIBERTY 280	29 fl oz/a		EPOT	B				
7	N-pak ams	4.5 % v/v		EPOT	B				
7	LIBERTY 280	29 fl oz/a		POST	C				
7	SELECT MAX	6 fl oz/a		POST	C				
7	N-pak ams	4.5 % v/v		POST	C				
7	NIS	0.25 % v/v		POST	C				
8	FIERCE	3.75 oz wt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
8	LIBERTY 280	29 fl oz/a		EPOT	B				
8	N-pak ams	4.5 % v/v		EPOT	B				
8	LIBERTY 280	29 fl oz/a		POST	C				
8	SELECT MAX	6 fl oz/a		POST	C				
8	N-pak ams	4.5 % v/v		POST	C				
8	NIS	0.25 % v/v		POST	C				
9	FIERCE XLT	4 oz wt/a		PREE	A	100.0 a	100.0 a	100.0 a	100.0 a
9	LIBERTY 280	29 fl oz/a		EPOT	B				
9	N-pak ams	4.5 % v/v		EPOT	B				
9	SELECT MAX	6 fl oz/a		POST	C				
9	N-pak ams	4.5 % v/v		POST	C				
9	NIS	0.25 % v/v		POST	C				
9	LIBERTY 280	29 fl oz/a		POST	C				

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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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	POLPY	HIBTR	SIDSP
Pest Scientific Name	Amaranthus ret>	Persicaria pen>	Hibiscus trion>	Sida spinosa
Pest Name	Redroot pigweed	annual smartwe>	Venice mallow	Prickly sida
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-17-2017	Aug-17-2017	Aug-17-2017	Aug-17-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	90 30	90 30	90 30	90 30
Trt-Eval Interval				
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1	92 DP-1
Days After Emergence	80 DE-1	80 DE-1	80 DE-1	80 DE-1
Trt Treatment				
No. Name	Rate	Unit	Growth Stage	Appl Code
10 Canopy	4 oz/a		PREE	A
10 LIBERTY 280	29 fl oz/a		EPOT	B
10 N-pak ams	4.5 % v/v		EPOT	B
10 SELECT MAX	6 fl oz/a		POST	C
10 N-pak ams	4.5 % v/v		POST	C
10 NIS	0.25 % v/v		POST	C
10 LIBERTY 280	29 fl oz/a		POST	C
LSD P=.05				
Standard Deviation	0.00		0.00	0.00
CV	0.0		0.0	0.0
Bartlett's X2	0.0		0.0	0.0
P(Bartlett's X2)	.		.	.
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

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.  
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 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed		
Pest Code	ABUTH		
Pest Scientific Name	Abutilon theop>		
Pest Name	velvetleaf		
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-17-2017		
Rating Type	CONTRO		
Rating Unit	%		
Number of Subsamples	1	1	1
Days After First/Last Applic.	90	30	
Trt-Eval Interval			
Plant-Eval Interval	92 DP-1	92 DP-1	92 DP-1
Days After Emergence	80 DE-1		

  

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	40	41	42
1						100.0	a	
2	LIBERTY 280	29 fl oz/a		EPOT	B	100.0	a	
	2 N-pak ams	4.5 % v/v		EPOT	B			
	2 LIBERTY 280	29 fl oz/a		POST	C			
	2 SELECT MAX	6 fl oz/a		POST	C			
	2 N-pak ams	4.5 % v/v		POST	C			
	2 NIS	0.25 % v/v		POST	C			
3	FIERCE	3 oz wt/a		PREE	A	100.0	a	
	3 LIBERTY 280	29 fl oz/a		EPOT	B			
	3 N-pak ams	4.5 % v/v		EPOT	B			
	3 LIBERTY 280	29 fl oz/a		POST	C			
	3 SELECT MAX	6 fl oz/a		POST	C			
	3 N-pak ams	4.5 % v/v		POST	C			
	3 NIS	30.25 % v/v		POST	C			
4	BOUNDARY	2 pt/a		PREE	A	100.0	a	
	4 LIBERTY 280	29 fl oz/a		EPOT	B			
	4 N-pak ams	4.5 % v/v		EPOT	B			
	4 LIBERTY 280	29 fl oz/a		POST	C			
	4 SELECT MAX	6 fl oz/a		POST	C			
	4 N-pak ams	4.5 % v/v		POST	C			
	4 NIS	0.25 % v/v		POST	C			
5	AUTHORITY ELITE	25 fl oz/a		PREE	A	100.0	a	
	5 LIBERTY 280	29 fl oz/a		EPOT	B			
	5 N-pak ams	4.5 % v/v		EPOT	B			
	5 LIBERTY 280	29 fl oz/a		POST	B			
	5 SELECT MAX	6 fl oz/a		POST	C			
	5 N-pak ams	4.5 % v/v		POST	C			
	5 NIS	0.25 % v/v		POST	C			

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# The Ohio State University

Pest Type	W Weed
Pest Code	ABUTH
Pest Scientific Name	Abutilon theop>
Pest Name	velvetleaf
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	Aug-17-2017
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1 1 1
Days After First/Last Applic.	90 30
Trt-Eval Interval	
Plant-Eval Interval	92 DP-1 92 DP-1 92 DP-1
Days After Emergence	80 DE-1

Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	40	41	42
6	ZIDUA PRO	4.5 fl oz/a		PREE	A	100.0 a		
6	LIBERTY 280	29 fl oz/a		EPOT	B			
6	N-pak ams	4.5 % v/v		EPOT	B			
6	LIBERTY 280	29 fl oz/a		POST	C			
6	SELECT MAX	6 fl oz/a		POST	C			
6	N-pak ams	4.5 % v/v		POST	C			
6	NIS	0.25 % v/v		POST	C			
7	FIERCE MTZ SC (2030)	1 pt/a		PREE	A	100.0 a		
7	LIBERTY 280	29 fl oz/a		EPOT	B			
7	N-pak ams	4.5 % v/v		EPOT	B			
7	LIBERTY 280	29 fl oz/a		POST	C			
7	SELECT MAX	6 fl oz/a		POST	C			
7	N-pak ams	4.5 % v/v		POST	C			
7	NIS	0.25 % v/v		POST	C			
8	FIERCE	3.75 oz wt/a		PREE	A	100.0 a		
8	LIBERTY 280	29 fl oz/a		EPOT	B			
8	N-pak ams	4.5 % v/v		EPOT	B			
8	LIBERTY 280	29 fl oz/a		POST	C			
8	SELECT MAX	6 fl oz/a		POST	C			
8	N-pak ams	4.5 % v/v		POST	C			
8	NIS	0.25 % v/v		POST	C			
9	FIERCE XLT	4 oz wt/a		PREE	A	100.0 a		
9	LIBERTY 280	29 fl oz/a		EPOT	B			
9	N-pak ams	4.5 % v/v		EPOT	B			
9	SELECT MAX	6 fl oz/a		POST	C			
9	N-pak ams	4.5 % v/v		POST	C			
9	NIS	0.25 % v/v		POST	C			
9	LIBERTY 280	29 fl oz/a		POST	C			

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.



# The Ohio State University

Pest Type W Weed  
 Pest Code ABUTH  
 Pest Scientific Name Abutilon theop>  
 Pest Name velvetleaf  
 Crop Code  
 BBCH Scale  
 Crop Scientific Name  
 Crop Name  
 Rating Date Aug-17-2017  
 Rating Type CONTRO  
 Rating Unit %  
 Number of Subsamples 1 1 1  
 Days After First/Last Applic. 90 30  
 Trt-Eval Interval  
 Plant-Eval Interval 92 DP-1 92 DP-1 92 DP-1  
 Days After Emergence 80 DE-1

Trt Treatment	Rate	Unit	Growth Stage	Appl Code	40	41	42
10 Canopy	4 oz/a		PREE	A	100.0 a		
10 LIBERTY 280	29 fl oz/a		EPOT	B			
10 N-pak ams	4.5 % v/v		EPOT	B			
10 SELECT MAX	6 fl oz/a		POST	C			
10 N-pak ams	4.5 % v/v		POST	C			
10 NIS	0.25 % v/v		POST	C			
10 LIBERTY 280	29 fl oz/a		POST	C			
LSD P=.05					.	.	.
Standard Deviation					0.00	.	.
CV					0.0	.	.
Bartlett's X2					0.0	.	.
P(Bartlett's X2)					.	.	.
Replicate F					0.000		
Replicate Prob(F)					1.0000		
Treatment F					0.000		
Treatment Prob(F)					1.0000		

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: Yates=13,23  
 Could not calculate LSD (% mean diff) for columns 8,10,21,30,31,32,33,34,35,36,37,38,39,40,41,42 because error mean square = 0.

# The Ohio State University

## Flumioxazin in a Liberty Link System

Trial ID: 17 PRPOSTLL  
Protocol ID: 17 PRPOSTLL  
Project ID: VUSA2017FIERCEMD64.01

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

Sponsor Contact: Eric Ott, Valent

### Pest Type

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

### Pest Code

SETFA, Setaria faberi, Giant foxtail = US  
ECHCG, Echinochloa crus-galli, Common barnyard grass = US  
AMBTR, Ambrosia trifida, Giant ragweed = US  
CHEAL, Chenopodium album, common lambsquarters = US  
AMARE, Amaranthus retroflexus, Redroot pigweed = US  
POLPY, Persicaria pensylvanica, annual smartweed = US  
HIBTR, Hibiscus trionum, Venice mallow = US  
SIDSP, Sida spinosa, Prickly sida = US  
ABUTH, Abutilon theophrasti, velvetleaf = US

### Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

### Rating Type

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

### Rating Unit

% = percent

### Plant-Eval Interval

35 DP-1 = 1 GLXM01 May-17-2017  
55 DP-1 = 1 GLXM01 May-17-2017  
64 DP-1 = 1 GLXM01 May-17-2017  
92 DP-1 = 1 GLXM01 May-17-2017